



Arboricultural Impact Assessment

Upgrades to Melrose Park Public School

Client: The Department of Education

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2 Summary

This Arboricultural Impact Assessment (AIA) is based on two hundred and eighteen (218) trees located at Melrose Park Public School (subject site). Alterations and additions to the existing house and landscaping works are proposed.

This report aims to describe the likely impacts of the proposed works on the site trees and make recommendations to limit the potential for adverse impacts on retained trees.

The Retention Values of the subject trees were rated as outlined in the following Table. Refer to Figure A (following page) and the Tree Protection Plan (Attachment C) for tree locations.

	High Retention Value (Tree Number)	Medium Retention Value (Tree Number)	Low Retention Value (Tree Number)
To be Retained	6, 12, 20, 21, 24, 58, 65, 68, 70, 72, 76, 77, 80, 86, 91, 93, 98, 99, 100, 109, 110, 122, 123, 124, 126, 129, 130, 131, 132, 136, 140, 147, 152, 182, 183, 194, 195, 205, 208, 210, 212, 213, 217	3, 4, 5, 8, 9, 13, 14, 15, 16, 17, 19, 37, 41, 44, 45, 47, 66, 71, 73, 74, 75, 81, 82, 83, 85, 88, 92, 94, 95, 96, 97, 101, 102, 105, 106, 107, 108, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 133, 134, 135, 138, 139, 141, 144, 145, 148, 149, 150, 151, 154, 181, 191, 192, 193, 196, 197, 198, 199, 201, 203, 204, 206, 207, 209, 211, 218, 219	1, 2, 11, 25, 40, 43, 48, 49, 50, 51, 52, 53, 54, 67, 69, 78, 79, 84, 87, 89, 90, 103, 104, 111, 125, 127, 128, 137, 184, 185, 186, 187, 188, 189, 190, 202
To be Removed	22, 23, 38, 46, 142, 152, 156, 159, 163, 164, 165, 172, 173, 175, 180	7, 10, 18, 26, 27, 28, 29, 30, 31, 32, 33, 35, 36, 39, 42, 55, 56, 57, 59, 60, 61, 62, 63, 64, 143, 146, 155, 157, 158, 166, 167, 168, 169, 170, 171, 177, 178, 179, 214, 215, 216	34, 160, 161, 162, 174, 200

The majority of the High and Medium Retention Value trees are able to be retained and remain viable in the long-term.

Tree retention has been a design consideration throughout the design process and tree removal has been minimised wherever possible. Sixty two (62) trees are proposed to be removed as part of this project. The impact on the environmental value or landscape amenity of the site shall be ameliorated through the planting of new canopy trees.

There are construction works proposed within the Tree Protection Zones (TPZ) of Trees 8, 12, 17, 20, 21, 24, 58, 110, 133, 134, 139, 140, 147, 181, 182, 183, 195, 205, 212, 213, 217. The trees are worthy of retention and have a reasonable prospect of tolerating the proposed works and remaining viable in the long-term.

Recommendations have been made regarding tree protection measures to limit the potential for impact on the retained trees.

3 Introduction

3.1 Background

This Arboricultural Impact Assessment (AIA) has been prepared to accompany a Review of Environmental Factors (REF) for an activity proposed by the Department of Education under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI).

This document has been prepared in accordance with the Guidelines for Division 5.1 assessments (the Guidelines) by the Department of Planning, Housing and Infrastructure.

This report examines and takes into account the relevant environmental factors in the Guidelines and *Environmental Planning and Assessment Regulations 2021* under Section 170, Section 171 and Section 171A of the EP&A Regulation.

This Arboricultural Impact Assessment (AIA) was prepared for Infrastructure Planning in relation to the existing trees and proposed redevelopment of Melrose Park Public School (subject site).

The purpose of this AIA is to assess the likely impacts of the proposed works on the existing site trees and make recommendations regarding construction methods and tree protection measures to limit adverse impacts on trees recommended for retention.

This AIA has been prepared in accordance with the Australian Standard 4970-2009, *Protection of trees on development sites*.

A Preliminary Tree Assessment report was prepared for the site in October 2023. The purpose of the Preliminary Tree Assessment report was to provide the design team with information about Tree Retention Values and Tree Protection Zones to facilitate a design that aims to retain trees wherever possible.

3.2 Activity Description

The activity is for upgrades to Melrose Park Public School within a one to three-storey built form, including:

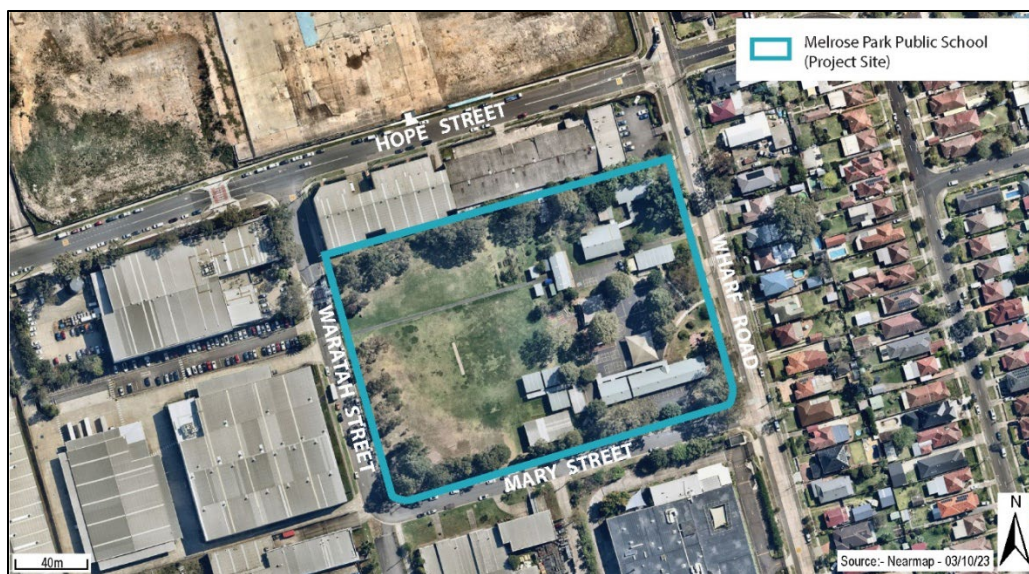
- Demolition of existing school buildings;
- Site preparation works including tree removal;
- Construction of the following buildings:
 - **Block A:** One (1) storey building comprising:
 - universal pre-school;
 - outdoor play area for the UPS; and
 - detached storeroom;
 - **Block B1:** Two (2) storey building comprising:
 - staff and administration areas;
 - library;
 - 4 special programs rooms;
 - Pedestrian bridge to Block B2;
 - **Block B2:** Three (3) storey building comprising:
 - 23 classrooms;

- amenities/services cores; and
 - pedestrian bridge to Block B3;
 - **Block B3:** Three (3) storey building comprising:
 - 12 classrooms; and
 - amenities/services cores;
 - **Block C:** One (1) storey building comprising:
 - hall;
 - amenities;
 - canteen;
 - OSHC; and
 - COLA;
- Construction of two (2) car parking areas; and
- Landscaping works.

3.3 Activity Site

Melrose Park Public School is located at 110 Wharf Road, Melrose Park and is legally known as Lot 3 in DP 535298 with an approximate site area of 2.5 hectares. The site has a frontage to Wharf Road (east), Mary Street (south), and Waratah Street (west). The site is adjoined by 2-3 storey light industrial development to the north, 1-2 storey industrial and commercial developments to the south, residential dwellings to the east and industrial and commercial development to the west.

An aerial photograph of the site is provided in **Figure 1** below.



3.4 Subject Trees

All trees within the site have been assessed. The tree population of the site is made up of planted exotics and planted Australian natives.

Refer to Figure A and B (following pages) for tree locations and numbers. A detailed description of the subject trees is included in the Tree Assessment Table (Attachment A).

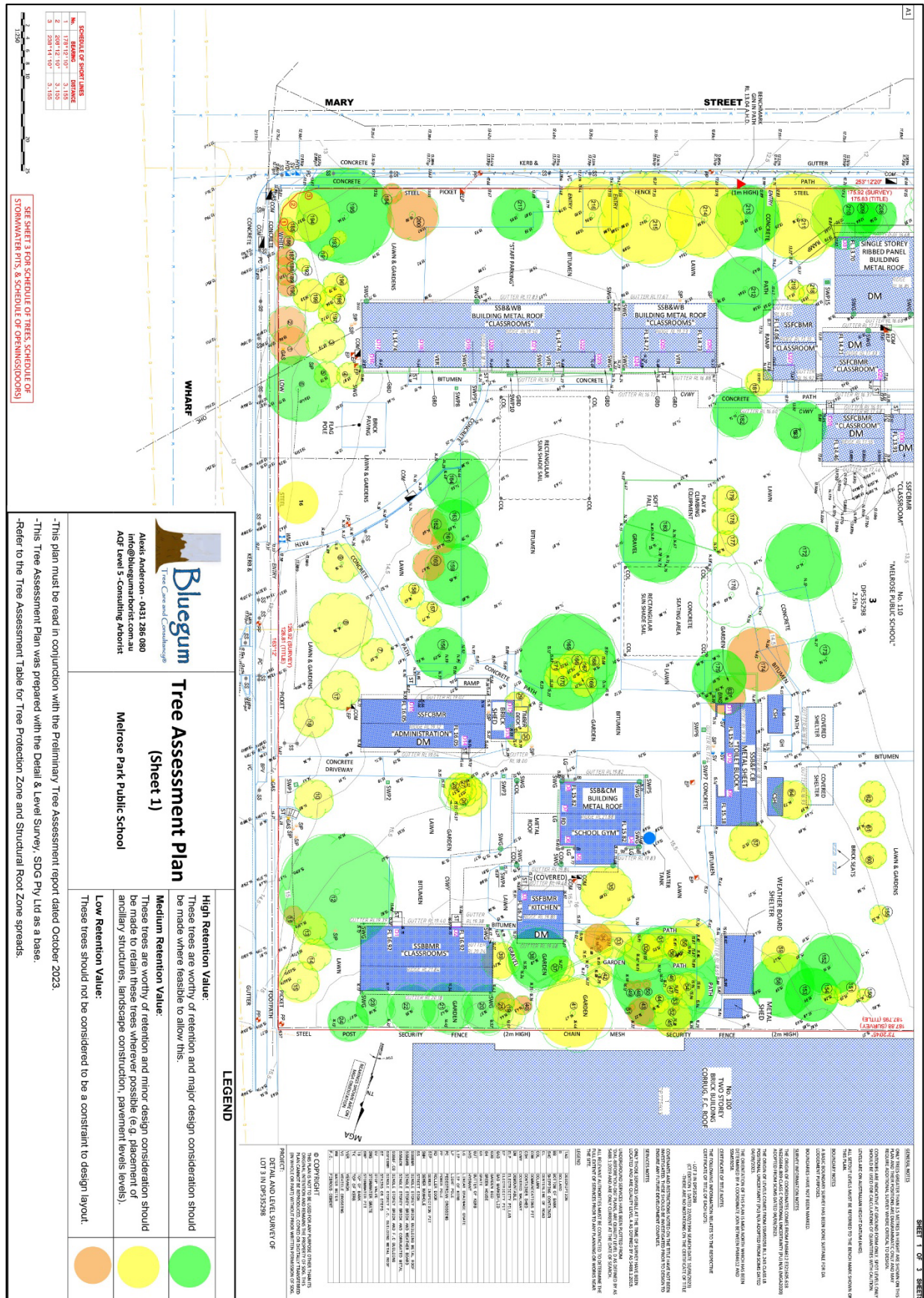
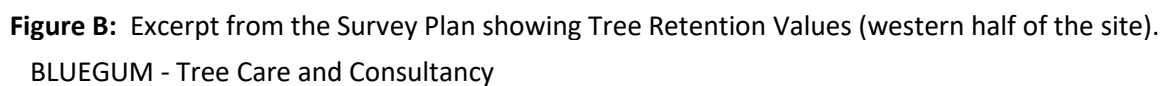


Figure A: Excerpt from the Survey Plan showing Tree Retention Values (eastern half of the site)
BLUEGUM - Tree Care and Consultancy



4 Methodology

4.1 Site Inspection

Site inspection and tree assessment was undertaken on the 11th of October, 2023. The trees were assessed from ground level using a Tree Assessment Table, which is included as Attachment A. The definitions and explanations of terms used are outlined in the Tree Table Definitions page which is included at Attachment B.

The tree assessment was undertaken for the purpose of pre-development planning. Detailed tree risk assessment was not requested or included in the scope of works.

4.2 Plan Review

The set of Architectural and Landscape plans provided by PTW Architects (Revision T3) were reviewed as part of this assessment.

4.3 Tree Protection Zones

Tree assessments in accordance with the Australian Standard 4970-2009, *Protection of trees on development sites*, require calculation of a Tree Protection Zone (TPZ) and Structural Root Zone (SRZ). The following is a brief explanation of these terms:

Tree Protection Zone -TPZ: This is the area that should be isolated from construction disturbance so that the tree remains viable. Some disturbance within the TPZ may be possible following arboricultural assessment.

Structural Root Zone -SRZ: This is the area of undisturbed soil and roots required to maintain tree stability. Excavation within the SRZ can lead to whole tree failure.

Refer to the Tree Assessment Table (Attachment A) for the Tree Protection Zones of the assessed trees.

4.4 Retention Values

Retention values are derived from a combination of Estimated Life Expectancy rating and Landscape and Environmental Significance ratings.

- **HIGH Retention Value:** These trees are worthy of retention and design consideration should be made where possible to allow their retention.
- **MEDIUM Retention Value:** These trees are worthy of retention and minor design consideration should be made to retain these trees wherever possible (e.g. placement of ancillary structures, stormwater pipes, garden retaining walls, driveway levels).
- **LOW Retention Value:** These trees should not be considered to be a constraint to design layout. Some of these trees should be removed irrespective of any proposed development.

The method of determining and defining retention values used in this report has been derived from the ©Retention Index developed by Tree Wise Men® Australia Pty Ltd.

4.5 Consideration for Tree Retention and Removal

Where demolition of existing structures, excavation or fill is proposed within the Tree Protection Zone (TPZ), arboricultural assessment and sensitive construction methods will be required. Where works are proposed outside of the TPZ, no sensitive construction methods are required.

Tree removal recommendations have been based on tree Retention Values and construction offsets.

Trees may generally be recommended for removal in the following circumstances:

- Trees located within construction footprints.
- Trees with construction proposed within SRZ where root loss cannot be avoided through sensitive design.
- Trees with a TPZ loss of more than 25%, may be recommended for removal providing tree sensitive design cannot be implemented to avoid significant root and canopy loss.
- Trees with low Retention Values may be recommended for removal irrespective of proposed development.

5 Evaluation of Environmental Impacts

5.1 Trees to be Removed

Tree Number	Retention Value	Reason for Removal
34, 160, 161, 162, 174	Low	Located within the proposed construction footprint.
7, 10, 18, 26, 27-33, 35, 36, 39, 42, 55-57, 59-61, 114-118, 120, 121, 155, 157, 158, 170, 171, 177-179	Medium	
46, 156, 159, 163, 164, 165, 172, 173, 175, 180	High	
200	Low	Excavation/re-grading is proposed within the Structural Root Zone. Major root loss and tree destabilisation is likely.
112, 143, 146, 166, 167, 168, 169, 214, 215, 216	Medium	
22, 23, 38, 142, 152	High	
63	Low	Within the area of proposed landscape grading/ground level changes.
62, 64, 113, 119	Medium	

5.2 Potential Impacts of Proposal on Retained Trees

Tree Number	Retention Value	Works proposed within the Tree Protection Zone (TPZ)
8	Medium	The proposed walkway and bicycle parking area are within the TPZ.
12	High	Excavation for the proposed building footings will affect less than 10% of the TPZ area. Some root pruning will be required. The tree is expected to tolerate this with no notable impact. The majority of the TPZ area will be covered by a raised deck. The deck levels may require adjustment during the construction stage to ensure the deck sub-structure is elevated over the large surface roots. Minor canopy pruning may be required to allow clearance of the deck roof.
17, 133, 134	Medium	The proposed elevated walkway construction is within the Structural Root Zone. Root and canopy loss is possible.

20, 21, 24, 58, 140	High	Excavation and building construction is proposed within the TPZ. Less than 10% of the TPZ area will be affected.
139	Medium	
110	High	The bicycle parking area is proposed within the TPZ. Less than 10% of the TPZ area will be affected.
147	High	Raised deck pathway and soft landscaping is proposed within the TPZ.
181	Medium	Playground construction and landscaping works are proposed within the TPZ.
182, 183, 205	High	
195	High	The proposed parking area is within the TPZ. Less than 10% of the TPZ area will be affected.
212, 213	High	Trenching for stormwater drainage works is proposed within the TPZ. There is a potential for major root loss. Re-direction of this section of stormwater line is recommended. The proposed waste collection area (permeable pavement) is proposed within the TPZ.
217	High	Carpark construction is proposed within the SRZ. Major root loss is possible. The new carpark surface must be above existing bitumen carpark levels to avoid the need for any soil scraping, grading or levelling.

Incidental Impacts: There is the potential for incidental/accidental damage to the trunk, canopy and shallow roots of all retained trees throughout the construction process. Trees are commonly impacted on construction sites in the following ways.

- Stripping of topsoil and removal of organic material from the soil surface.
- Compaction of the topsoil and damage to surface roots through use of heavy machinery and frequent foot traffic.
- Soil contamination through washing out barrows and disposal or spillage of chemical materials.
- Root loss due to unforeseen excavation for plumbing upgrades and landscape construction.
- Bark/trunk and branch injuries from accidental contact with machinery.

These impacts can be easily avoided through communication with building contractors and basic tree protection measures.

6 Mitigation Measures

6.1 Site Establishment –Prior to Construction

Appointment of a Project Arborist: An Arborist with an AQF Level 5 qualification in Arboriculture and experience in tree protection within construction sites should be engaged prior to the commencement of work on the site. The Project Arborist should be present at the following times:

- Project Commencement to meet with the Site Foreman and discuss tree protection requirements.
- Following installation of tree protection fencing, trunk protection, compost, mulch and irrigation.
- During any earthworks within the TPZ of retained trees.
- At any time that tree roots greater than 40mm diameter are exposed with the TPZ of any retained tree.
- During canopy pruning of Tree 12.
- At project completion to verify tree protection and retention.

Tree Protection Fencing: Tree Protection Fencing should be installed prior to any machinery or materials being brought on site and remain in position throughout the entire project. Tree Protection Fencing should be erected around the Tree Protection Zones as defined in the Tree Protection Plan (Attachment C). Tree Protection Fencing should consist of 1.8 metre high chainlink panels on moveable concrete pads. Tree Protection Fencing should be clamped at each panel junction.

Tree Protection Fencing should not be moved at any time without consultation with the Project Arborist. An example of adequate tree protection fencing is detailed below.

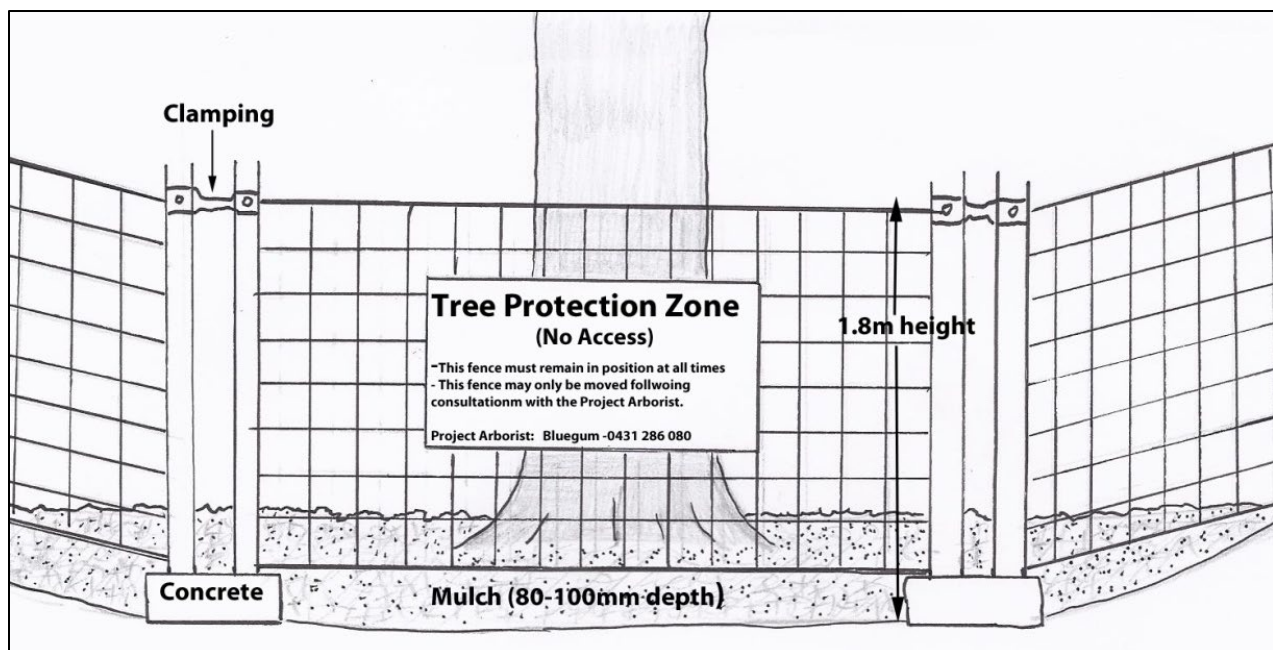


Figure C: Example of adequate tree protection fencing

Trunk Protection (Trees 12, 147, 181, 182, 183, 212, 217): Trunk battening is aimed at preventing accidental bark wounds as often occurs on construction sites where heavy machinery is used.

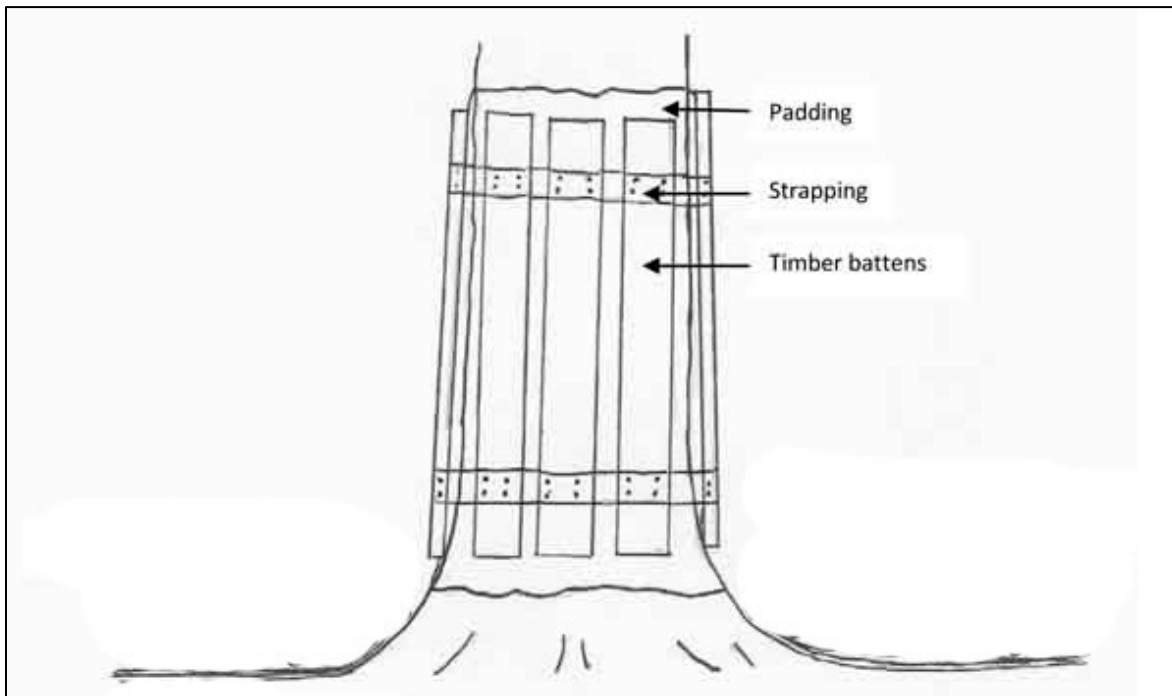


Figure D: Detail of trunk protection for Trees 12, 147, 181, 182, 183, 212, 217.

Compost, Mulch and Irrigation (Trees 12, 147, 181, 182, 183, 212, 217): Installation of compost, mulch and irrigation is recommended within the Tree Protection Zones of Trees 12, 147, 181, 182, 183, 212, 217 to improve soil conditions and encourage new root growth. The purpose of this is to help offset the likely loss of roots from proposed excavation within the TPZ's. Refer to Figure C below for detail of the recommended soil improvement works. The sprinkler should be installed on a timer with settings to be determined in consultation between the Site Foreman and Project Arborist.

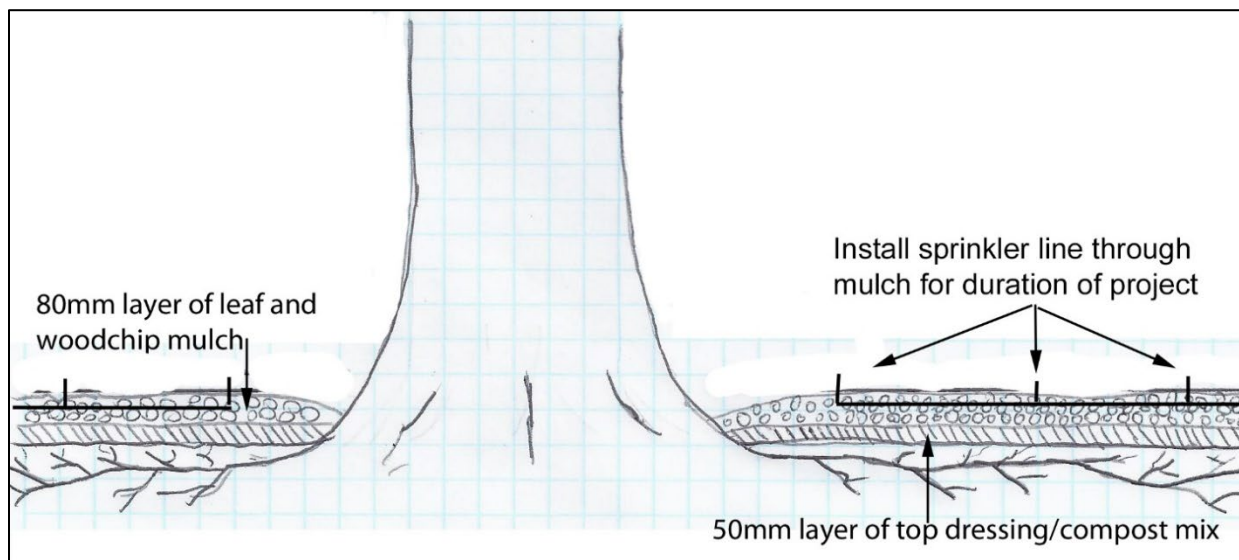


Figure E: Detail of compost, mulch and irrigation for Trees 12, 147, 181, 182, 183, 212, 217.

Tree Removal: Sixty two (62) trees are proposed to be removed as part of the project. Tree removal contractors should be briefed on the need to protect retained trees during tree removal operations.

Tree removal works should be undertaken in accordance with the WorkSafe Australia *Guide to Managing Risks of Tree Trimming & Removal Work*.

Site Clearing and Grading: There must no soil scraping or grading within the Tree Protection Zones of retained trees. The existing ground cover vegetation and topsoil within the Tree Protection Zones must be retained throughout the project.

6.2 During Construction/Landscaping

Tree Protection Zones: Refer to the Tree Assessment Table (Attachment A) and Tree Protection Plan (Attachment C) for the spread of TPZ's of trees nominated for retention. The following should be prohibited within the Tree Protection Zones:

- Stripping of topsoil or organic surface material.
- Stockpiling of spoil or fill
- Storage of building material, vehicles and machinery.
- Disposal of solid, liquid or chemical waste.
- Any excavation, fill or other construction activity other than that discussed in this report.

Earthworks/Construction within the TPZ of Trees 8, 12, 17, 20, 21, 24, 58, 110, 133, 134, 139, 140, 147, 181, 182, 183, 195, 205, 212, 213, 217: Excavation/constriction/landscaping is proposed within the TPZ of these trees. Project Arborist guidance will be required during any ground works within the TPZ' of these trees. All excavation within the top 500mm of soil must be undertaken with hand tools. Any roots encountered should be cleanly cut using a sharp saw or secateurs. The purpose of this is to avoid additional root damage(tearing/cracking) that typically occurs when roots are pruned using an excavator.

Tree 12 (Deck Levels): Tree 12 has large roots on the ground surface. The existing ground level within the TPZ ranges from R.L 15.20 to 15.80. In order to install the deck sub-structure with a ventilation gap below without damaging tree roots, the finished level should be approx. 16.10 at its highest level. The deck area around T12 may be need to be multi-tiered with steps up to the higher sections.

Stormwater Line Re-Direction (Tree 212): The proposed stormwater line passes within the Structural Root Zone of Tree 212. This section of stormwater line must be re-directed to minimise the extent of TPZ interference. Refer to the Tree Protection Plan (Attachment C) for detail.

6.3 Post Construction Tree Care

At the completion of the project, the retained trees should be inspected by the Project Arborist. Depending on the health and vitality of retained trees, the Project Arborist may prescribe some remedial tree care. This may include installation of temporary or permanent irrigation, application of soil conditioners, compost application and installation of mulch.

7 Statement of Impartiality

- This report prepared by Bluegum Tree Care & Consultancy (BTCC) reflects the impartial and expert opinion of Alexis Anderson.
- BTCC is acting independently of and not as the advocate for the owners of the subject trees.
- BTCC does not undertake tree pruning and removal works and will not have any involvement with pruning or removing trees which are the subject of this report.

8 Limitations

- The findings of this report are based upon and limited to visual examination of trees from ground level without any climbing, internal testing or exploratory excavation.
- The tree assessment was undertaken for the purpose of pre-development planning. Detailed tree risk assessment was not requested or included in the scope of works.
- This report reflects the health and structure of trees at the time of inspection. Bluegum cannot guarantee that a tree will be healthy and safe under all circumstances or for a specified period of time. There is no guarantee that problems or defects with assessed trees, will not arise in the future. Liability will not be accepted for damage to person or property as a result of failure of assessed trees.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
1	Flax-leaved Wattle, <i>Acacia linifolia</i>	15	6	3	M	F	F	2.0	1.5	Short (0-10 yrs)	3	Low	Heavy trunk lean towards the street.	No works are proposed within the TPZ. No impact is expected.	Retain.
2	Flax-leaved Wattle, <i>Acacia linifolia</i>	16	6	3	M	F	F	2.0	1.5	Short (0-10 yrs)	3	Low	Heavy trunk lean towards the street.	No works are proposed within the TPZ. No impact is expected.	Retain.
3	Jacaranda, <i>Jacaranda mimosifolia</i>	30, 18, 18	9	4	M	G	G	4.7	2.3	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
4	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8, 8	5	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
5	Weeping Bottlebrush, <i>Callistemon viminalis</i>	5, 5, 4	5	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
6	Tallowwood, <i>Eucalyptus microcorys</i>	77	14	6	M	G	G	9.2	3.0	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
7	Lemon-scented Tea Tree, <i>Leptospermum petersonii</i>	8, 8, 7, 7	3	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed walkway footprint.	Remove
8	Wallangarra White Gum, <i>Eucalyptus scoparia</i>	71	10	7	M	F	G	8.5	2.9	Short (0-10 yrs)	2	Medium		The proposed walkway is proposed within the canopy area and edge of the SRZ.	Retain. Monitor health.
9	Weeping Bottlebrush, <i>Callistemon viminalis</i>	30, 25, 20, 15	7	3	M	G	G	3.5	1.6	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
10	Weeping Bottlebrush, <i>Callistemon viminalis</i>	15, 10	5	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed pedestrian accessway.	Remove.
11	Scarlet Bottlebrush, <i>Callistemon citrinus</i>	5, 3, 3, 3	2	1	M	F	F	2.0	1.5	Short (0-10 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
12	Hills Weeping Fig, <i>Ficus microcarpa</i> Var. <i>Hillii</i>	96	16	9	M	G	G	11.5	4.0	Long (30+ yrs)	2	High		Excavation for the proposed building footings will affect less than 10% of the TPZ area. The majority of the TPZ area will be covered by a raised deck. The deck levels may require adjustment during the construction stage to ensure the deck sub-structure is elevated over the large surface roots. Minor canopy pruning may be required to allow insatallation and clearance of the deck roof.	Retain.
13	Swamp She Oak, <i>Casuarina glauca</i>	35	17	3	M	G	F	4.2	2.1	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
14	Swamp She Oak, <i>Casuarina glauca</i>	43	17	5	M	G	G	5.2	2.4	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
15	Jacaranda, <i>Jacaranda mimosifolia</i>	20, 20, 15, 10	8	4	M	G	G	4.3	2.2	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
16	Ornamental Cherry, <i>Prunus sp.</i>	10, 8, 8, 8	3	3	M	G	G	3.0	1.0	Long (30+ yrs)	3	Medium	Not plotted on the Survey	No works are proposed within the TPZ. No impact is expected.	Retain.
17	Weeping Bottlebrush, <i>Callistemon viminalis</i>	18, 18, 15, 15	7	4	M	G	G	3.8	2.0	Long (30+ yrs)	3	Medium		Elevated walkway construction is proposed within the Structural Root Zone. Root and canopy loss is possible.	Retain.
18	Sweet Pittosporum, <i>Pittosporum undulatum</i>	10, 10, 10, 10	5	4	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium	Minor trunk decay and bark wounds.	Within the proposed walkway footprint.	Remove.
19	White Feather Honeymyrtle, <i>Melaleuca decora</i>	8, 7	4	1	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
20	London Plane Tree, <i>Platanus x hybrida</i>	53	13	6	M	G	G	6.4	2.6	Long (30+ yrs)	2	High	The root spread is restricted by the existing building footings.	Excavation and building construction is proposed within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
21	London Plane Tree, <i>Platanus x hybrida</i>	36, 27	13	5	M	G	G	5.4	2.4	Long (30+ yrs)	2	High	The root spread is restricted by the existing building footings.	Excavation and building construction is proposed within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
22	London Plane Tree, <i>Platanus x hybrida</i>	45	13	6	M	G	G	5.4	2.4	Long (30+ yrs)	2	High	The root spread is restricted by the existing building footings.	Excavation is proposed within the SRZ. Major root loss is likely.	Remove.
23	London Plane Tree, <i>Platanus x hybrida</i>	32	13	5	M	G	G	3.8	2.1	Long (30+ yrs)	2	High	The root spread is restricted by the existing building footings.	Excavation is proposed within the SRZ. Major root loss is likely.	Remove.
24	Silky Oak, <i>Grevillea robusta</i>	45	13	5	M	G	G	5.4	2.4	Medium (10-30 yrs)	2	High		Excavation and building construction is proposed within the TPZ. Less then 10% of the TPZ area will be affected.	Retain.
25	Weeping Bottlebrush, <i>Callistemon viminalis</i>	6	4	1	EM	G	G	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
26	Firewheel Tree, <i>Stenocarpus sinuatis</i>	17, 17, 15, 15	8	3	M	G	G	3.8	2.1	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
27	Weeping Bottlebrush, <i>Callistemon viminalis</i>	20, 8, 8	6	3	M	G	G	2.9	1.8	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
28	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8	6	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
29	Alexander Palm, <i>Archontophoenix alexandrae</i> (3 stems)	20	6	2	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium	Trunk lesions on the western side.	Within the proposed construction footprint.	Remove.
30	Alexander Palm, <i>Archontophoenix alexandrae</i> (3 stems)	15	5	2	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium	Trunk lesions on the western side.	Within the proposed construction footprint.	Remove.
31	Black Bean Tree, <i>Castanospermum australe</i>	30	8	3	M	F	G	3.6	2.0	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
32	Flax-leaved Wattle, <i>Acacia linifolia</i>	12, 10, 10	7	6	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
33	Scentless Rosewood, <i>Synoum glandulosum</i>	18, 12, 10	8	3	M	G	G	2.5	1.7	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
34	Sweet Pittosporum, <i>Pittosporum undulatum</i>	6, 6	3	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	4	Low		Within the proposed construction footprint.	Remove.
35	Narrow-leaved Peppermint, <i>Eucalyptus nicholii</i>	64	9	6	LM	F	F	7.7	2.8	Short (0-10 yrs)	2	Medium	Crown thinning indicating low vitality.	Within the proposed construction footprint.	Remove.
36	Weeping Bottlebrush, <i>Callistemon viminalis</i>	10, 10	7	2	M	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
37	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8	3	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
38	Kaffir Plum, <i>Harpephyllum kaffrum</i>	61	11	6	M	G	G	7.3	2.8	Long (30+ yrs)	2	High		Excavation and building construction is proposed within the TPZ. Major root and canopy loss is expected.	Remove.
39	Sweet Pittosporum, <i>Pittosporum undulatum</i>	7, 8	5	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
40	Narrow-leaved Apple, <i>Angophora floribunda</i>	26	8	2	EM	P	F	3.1	1.9	Short (0-10 yrs)	3	Low	Crown dieback indicating poor health.	No works are proposed within the TPZ. No impact is expected.	Retain.
41	Silky Oak, <i>Grevillea robusta</i>	40, 35	14	5	M	G	G	6.4	2.6	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
42	Weeping Bottlebrush, <i>Callistemon viminalis</i>	10, 10, 7, 5	7	4	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
43	Grey Gum, <i>Eucalyptus punctata</i>	30, 15	9	3	M	P	P	4.5	2.2	Short (0-10 yrs)	3	Low	Crown dieback indicating poor health.	No works are proposed within the TPZ. No impact is expected.	Retain.
44	Turpentine, <i>Syncarpia glomulifera</i>	18	7	2	EM	F	G	2.2	1.6	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
45	Turpentine, <i>Syncarpia glomulifera</i>	31	8	2	M	G	G	3.7	2.1	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
46	Spotted Gum, <i>Corymbia maculata</i>	81	8	7	M	G	G	9.7	3.1	Long (30+ yrs)	1	High		Within the proposed construction footprint.	Remove.
47	White Feather Honeymyrtle, <i>Melaleuca decora</i>	8, 5	2	1	EM	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
48	Scarlet Bottlebrush, <i>Callistemon citrinus</i>	3	1	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
49	Weeping Bottlebrush, <i>Callistemon viminalis</i>	5	3	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
50	Scarlet Bottlebrush, <i>Callistemon citrinus</i>	3	1	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
51	Weeping Bottlebrush, <i>Callistemon viminalis</i>	7, 4	3	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
52	Weeping Bottlebrush, <i>Callistemon viminalis</i>	6, 4, 4	3	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
53	Weeping Bottlebrush, <i>Callistemon viminalis</i>	5	3	1	EM	G	G	2.0	1.0	Long (30+ yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
54	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8, 8, 8	5	3	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
55	Forest Red Gum, <i>Eucalyptus teriticornis</i>	40	9	6	M	F	G	4.8	2.3	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
56	White Feather Honeymyrtle, <i>Melaleuca decora</i>	8, 4, 4, 4	4	2	EM	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
57	Water Gum, <i>Tristanopsis laurina</i>	13, 13, 13, 12	6	3	M	G	G	2.2	1.6	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
58	Sydney Red Gum, <i>Angophora costata</i>	33	9	5	EM	G	G	4.0	2.1	Long (30+ yrs)	2	High		Excavation and building construction is proposed within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
59	Mulberry, <i>Morus nigra</i>	8, 8, 8, 8	4	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
60	Apple Tree, <i>Malus x domestica</i>	7, 7, 7, 7	2	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
61	Apple Tree, <i>Malus x domestica</i>	7, 7, 7, 8	2	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
62	Apple Tree, <i>Malus x domestica</i>	7, 7, 7	2	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the area of landscape re-grading works.	Remove.
63	Dwarf Umbrella Tree, <i>Schefflera arifolia</i>	5, 5, 5, 5	2	1	M	G	G	2.0	1.5	Long (30+ yrs)	4	Low		Within the area of landscape re-grading works.	Remove.
64	Water Gum, <i>Tristanopsis laurina</i>	10, 10, 8, 8	5	3	M	F	G	3.0	1.5	Long (30+ yrs)	3	Medium		Within the area of landscape re-grading works.	Remove.
65	Sydney Red Gum, <i>Angophora costata</i>	41, 10	13	5	M	G	G	5.5	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
66	Sydney Red Gum, <i>Angophora costata</i>	25	12	3	M	G	F	3.0	1.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
67	Sydney Red Gum, <i>Angophora costata</i>	15	4	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
68	Turpentine, <i>Syncarpia glomulifera</i>	26	9	2	M	G	G	3.1	2.0	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
69	Forest Red Gum, <i>Eucalyptus teriticornis</i>	26	8	3	M	F	F	3.1	2.0	Short (0-10 yrs)	3	Low	Suppressed. Crown thinning.	No works are proposed within the TPZ. No impact is expected.	Retain.
70	Sydney Blue Gum, <i>Eucalyptus saligna</i>	50	16	5	M	F	F	6.0	2.6	Long (30+ yrs)	2	High	Minor trunk wound.	No works are proposed within the TPZ. No impact is expected.	Retain.
71	Eucalypt, <i>Eucalyptus sp.</i>	10	5	3	EM	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
72	Turpentine, <i>Syncarpia glomulifera</i>	30, 12	8	3	M	G	G	4.4	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
73	Weeping Bottlebrush, <i>Callistemon viminalis</i>	9, 8, 8	5	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
74	Sydney Red Gum, <i>Angophora costata</i>	29	12	3	EM	G	F	3.5	2.0	Long (30+ yrs)	3	Medium	Growing around the powerline clearances.	No works are proposed within the TPZ. No impact is expected.	Retain.
75	Tallowwood, <i>Eucalyptus microcorys</i>	32	13	3	EM	G	F	3.8	2.1	Long (30+ yrs)	3	Medium	Growing around the powerline clearances.	No works are proposed within the TPZ. No impact is expected.	Retain.
76	Turpentine, <i>Syncarpia glomulifera</i>	32	9	2	EM	G	G	3.8	2.1	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
77	Turpentine, <i>Syncarpia glomulifera</i>	30	9	2	M	G	G	3.6	2.0	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
78	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	11, 10, 9	6	2	EM	F	F	2.0	1.5	Short (0-10 yrs)	3	Low	Suppressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
79	Eucalypt, <i>Eucalyptus sp.</i>	13	7	1	EM	F	F	2.0	1.5	Short (0-10 yrs)	3	Low	Suppressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
80	Grey Ironbark, <i>Eucalyptus paniculata</i>	33	13	3	M	G	G	4.0	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
81	Grey Ironbark, <i>Eucalyptus paniculata</i>	22	13	2	EM	G	G	2.6	1.8	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
82	Sydney Blue Gum, <i>Eucalyptus saligna</i>	25	11	2	EM	G	G	3.0	1.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
83	Sydney Red Gum, <i>Angophora costata</i>	18, 15	8	2	EM	G	G	2.8	1.8	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
84	Eucalypt, <i>Eucalyptus sp.</i>	9	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
85	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	20	5	2	EM	G	G	2.4	1.7	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.

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86	Sydney Blue Gum, <i>Eucalyptus saligna</i>	70	18	5	M	F	F	8.4	2.9	Long (30+ yrs)	2	High	Minor trunk wound on the E side. Dead branches to 90mm diameter.	No works are proposed within the TPZ. No impact is expected.	Retain.
87	Turpentine, <i>Syncarpia glomulifera</i>	13, 13, 10	3	2	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
88	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 7	3	2	M	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
89	Green Wattle, <i>Acacia parramattensis</i>	3	2	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
90	Eucalypt, <i>Eucalyptus sp.</i>	6	2	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
91	Sydney Blue Gum, <i>Eucalyptus saligna</i>	89	20	6	M	G	G	10.7	3.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
92	Sydney Blue Gum, <i>Eucalyptus saligna</i>	8, 8, 7	4	3	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
93	Sydney Blue Gum, <i>Eucalyptus saligna</i>	70, 30, 25, 20	20	8	M	G	G	9.9	3.1	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
94	River She Oak, <i>Casuarina cunninghamiana</i>	24	12	2	M	G	G	2.9	1.9	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
95	River She Oak, <i>Casuarina cunninghamiana</i>	29	13	3	M	G	G	3.5	2.0	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
96	River She Oak, <i>Casuarina cunninghamiana</i>	26	13	3	M	G	G	3.2	1.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
97	River She Oak, <i>Casuarina cunninghamiana</i>	30	13	3	M	G	G	3.6	2.1	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
98	River She Oak, <i>Casuarina cunninghamiana</i>	35	14	4	M	G	G	4.2	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
99	River She Oak, <i>Casuarina cunninghamiana</i>	40	14	4	M	G	G	4.8	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
100	River She Oak, <i>Casuarina cunninghamiana</i>	40	14	4	M	G	G	4.8	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
101	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	20	6	2	EM	F	G	2.4	1.7	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
102	Red Ironbark, <i>Eucalyptus sideroxylon</i>	25	9	2	M	F	F	3.0	1.9	Medium (10-30 yrs)	3	Medium	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
103	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8	3	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low	Suppressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
104	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	10	4	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low	Suppressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
105	Spotted Gum, <i>Corymbia maculata</i>	15	10	2	EM	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
106	Spotted Gum, <i>Corymbia maculata</i>	5	4	1	IM	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
107	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	13	5	2	EM	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
108	Eucalypt, <i>Eucalyptus sp.</i>	10	7	1	EM	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
109	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	43	8	3	M	G	G	5.2	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
110	Spotted Gum, <i>Corymbia maculata</i>	54	13	6	M	G	G	6.5	2.6	Long (30+ yrs)	2	High		The bicycle parking area is proposed within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
111	Eucalypt, <i>Eucalyptus sp.</i>	15	7	3	M	F	F	2.0	1.5	Short (0-10 yrs)	3	Low	Crown thinning indicating low vitality.	No works are proposed within the TPZ. No impact is expected.	Retain.
112	Bracelet Honeymyrtle, <i>Melaleuca armillaris</i>	30, 20, 15, 15	6	5	M	F	F	5.0	2.0	Medium (10-30 yrs)	3	Medium	Incorrect crown dimensions on the survey.	Grading works are proposed within the SRZ. Major root loss is likely.	Remove.
113	Eucalypt, <i>Eucalyptus sp.</i>	38	10	5	M	F	G	4.6	2.3	Medium (10-30 yrs)	3	Medium		Within the area of landscape re-grading works.	Remove.
114	Silky Oak, <i>Grevillea robusta</i>	9	7	1	EM	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed carpark area.	Remove.
115	Grey Ironbark, <i>Eucalyptus paniculata</i>	28	8	3	M	G	G	3.4	2.0	Long (30+ yrs)	3	Medium		Within the proposed carpark area.	Remove.
116	Grey Ironbark, <i>Eucalyptus paniculata</i>	19	8	2	EM	G	G	2.3	1.7	Long (30+ yrs)	3	Medium		Within the proposed carpark area.	Remove.
117	Grey Box, <i>Eucalyptus sp.</i>	48	10	6	M	F	G	5.8	2.5	Medium (10-30 yrs)	3	Medium		Within the proposed carpark area.	Remove.
118	Narrow-leaved Peppermint, <i>Eucalyptus nicholii</i>	58	8	5	M	F	F	7.0	2.7	Medium (10-30 yrs)	3	Medium	Minor trunk wounds on the N side.	Within the proposed carpark area.	Remove.

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119	Forest She Oak, <i>Allocasuarina torulosa</i>	30, 15	8	3	M	F	F	4.5	2.2	Medium (10-30 yrs)	3	Medium	Old trunk wound at the base.	Within the area of landscape re-grading works.	Remove.
120	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	40	8	3	M	G	G	4.8	2.3	Long (30+ yrs)	3	Medium		Within the proposed carpark area.	Remove
121	Forest She Oak, <i>Allocasuarina torulosa</i>	30, 15, 10, 10	10	4	M	G	G	4.6	2.2	Medium (10-30 yrs)	3	Medium		Within the proposed carpark area.	Remove.
122	Eucalypt, <i>Eucalyptus sp.</i>	50	10	5	M	G	G	6.0	2.5	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
123	Forest Red Gum, <i>Eucalyptus teriticornis</i>	45	15	5	M	G	G	5.4	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
124	Swamp Mahogany, <i>Eucalyptus robusta</i>	34	12	4	M	G	G	4.0	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
125	Swamp Mahogany, <i>Eucalyptus robusta</i>	20, 10	7	2	M	P	P	3.1	1.8	Short (0-10 yrs)	4	Low	Crown dieback indicating poor health.	No works are proposed within the TPZ. No impact is expected.	Retain.
126	Sydney Blue Gum, <i>Eucalyptus saligna</i>	60	16	6	M	G	F	7.2	2.7	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
127	Eucalypt, <i>Eucalyptus sp.</i>	7	3	1	EM	P	F	2.0	1.5	Short (0-10 yrs)	4	Low	Supressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
128	Eucalypt, <i>Eucalyptus sp.</i>	11	5	3	EM	P	P	2.0	1.5	Short (0-10 yrs)	4	Low	Crown dieback indicating poor health.	No works are proposed within the TPZ. No impact is expected.	Retain.
129	Swamp Mahogany, <i>Eucalyptus robusta</i>	60	12	6	M	G	G	7.2	2.7	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
130	Swamp Mahogany, <i>Eucalyptus robusta</i>	30, 27	12	5	M	F	F	4.8	2.3	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
131	Swamp Mahogany, <i>Eucalyptus robusta</i>	28, 25	12	4	M	G	G	4.5	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
132	Red Ironbark, <i>Eucalyptus sideroxylon</i>	41	12	4	M	G	G	4.9	2.3	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
133	Wallangarra White Gum, <i>Eucalyptus scoparia</i>	42	12	5	M	F	G	5.0	2.3	Medium (10-30 yrs)	3	Medium	Crown thinning indicating low vitality.	Pathway construction is proposed within the TPZ/SRZ.	Retain.
134	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	13, 12, 12, 10	5	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Pathway construction is proposed within the TPZ/SRZ.	Retain.
135	Swamp She Oak, <i>Casuarina glauca</i>	25	12	3	M	G	G	3.0	1.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
136	Swamp Mahogany, <i>Eucalyptus robusta</i>	34	12	4	M	G	G	4.1	2.2	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
137	Grey Ironbark, <i>Eucalyptus paniculata</i>	10	7	2	M	P	P	2.0	1.5	Short (0-10 yrs)	3	Low	Crown dieback indicating poor health.	No works are proposed within the TPZ. No impact is expected.	Retain.
138	Turpentine, <i>Syncarpia glomulifera</i>	23	8	3	M	G	G	2.8	1.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
139	Weeping Bottlebrush, <i>Callistemon viminalis</i>	15, 15	7	3	M	F	F	2.8	1.8	Medium (10-30 yrs)	3	Medium		Excavation and building construction is proposed within the TPZ. Less then 10% of the TPZ area will be affected.	Retain.
140	Forest Red Gum, <i>Eucalyptus teriticornis</i>	60	14	5	M	G	G	7.2	2.8	Long (30+ yrs)	2	High		Excavation and building construction is proposed within the TPZ. Less then 10% of the TPZ area will be affected.	Retain.
141	Grey Ironbark, <i>Eucalyptus paniculata</i>	30	11	4	M	G	G	3.6	2.1	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
142	Turpentine, <i>Syncarpia glomulifera</i>	32	7	3	M	G	G	3.8	2.1	Long (30+ yrs)	2	High		Excavation and building construction is proposed within the SRZ.	Remove.
143	Forest Red Gum, <i>Eucalyptus teriticornis</i>	39	10	5	M	G	F	4.7	2.3	Long (30+ yrs)	3	Medium	Trunk decay at 1.5m height. This was previously investigated (trunk drilling). The trunk was stable at the time of inspection.	Excavation and building construction is proposed within the SRZ.	Remove.
144	Sydney Red Gum, <i>Angophora costata</i>	11, 9	5	2	EM	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium	Supressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
145	Broad-leaved Paperbark, <i>Melaleuca quinquenervia</i>	14	5	2	EM	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
146	Swamp Mahogany, <i>Eucalyptus robusta</i>	30, 25	10	5	M	F	F	5.0	2.3	Medium (10-30 yrs)	3	Medium		Excavation and building construction is proposed within the SRZ.	Remove.
147	Sydney Blue Gum, <i>Eucalyptus saligna</i>	70	17	7	M	G	G	8.4	2.9	Long (30+ yrs)	2	High		Raised deck pathway and soft landscaping is proposed within the TPZ.	Retain.
148	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8, 8, 8	4	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
149	Weeping Bottlebrush, <i>Callistemon viminalis</i>	9, 8, 7, 7	4	2	M	F	F	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
150	Fruit Tree, <i>Unknown Species</i>	5, 4, 4	3	1	M	G	G	2.0	1.0	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
151	Weeping Lilly Pilly, <i>Waterhousia floribunda</i>	7, 7, 6	5	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
152	Swamp Mahogany, <i>Eucalyptus robusta</i>	71	10	6	M	F	G	8.5	2.9	Long (30+ yrs)	2	High		Excavation and building construction is proposed within the SRZ.	Remove.
153	Eucalypt, <i>Eucalyptus sp.</i>	43	13	5	M	G	G	5.2	2.4	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
154	Pear Tree, <i>Pyrus sp.</i>	8	3	1	M	G	G	2.0	1.0	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
155	Olive Tree, <i>Olea europaea</i>	5, 3, 3	3	1	EM	G	G	2.0	1	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
156	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	35, 25	9	5	M	G	G	4.5	2.4	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
157	Hickory, <i>Acacia implexa</i>	15	8	2	M	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
158	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 7, 7	4	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		Within the proposed construction footprint.	Remove.
159	Tallowwood, <i>Eucalyptus microcorys</i>	48, 48	16	6	M	G	G	8.1	2.8	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
160	Weeping Bottlebrush, <i>Callistemon viminalis</i>	25, 20, 20, 18	5	3	M	P	F	3.5	1.9	Medium (10-30 yrs)	4	Low	Crown dieback. Supressed.	Within the proposed construction footprint.	Remove.
161	Grevillea, <i>Grevillea sp.</i>	8, 6	3	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	4	Low		Within the proposed construction footprint.	Remove.
162	Weeping Bottlebrush, <i>Callistemon viminalis</i>	10, 10, 8, 8	4	2	M	F	G	2.0	1.5	Medium (10-30 yrs)	4	Low	Supressed by larger surrounding trees.	Within the proposed construction footprint.	Remove.
163	Grey Ironbark, <i>Eucalyptus paniculata</i>	42	16	5	M	G	G	5.0	2.4	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
164	Tallowwood, <i>Eucalyptus microcorys</i>	56	11	5	M	G	G	6.7	2.7	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
165	Spotted Gum, <i>Corymbia maculata</i>	50, 45, 45, 40	19	6	M	G	G	9.8	3.2	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
166	Blueberry Ash, <i>Elaeocarpus reticulata</i>	15, 12	7	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Construction/site grading is proposed within the SRZ.	Remove.
167	Brush Cherry, <i>Syzygium australe</i>	7, 5, 5	4	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Construction/site grading is proposed within the SRZ.	Remove.
168	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	10, 10, 10	3	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Construction/site grading is proposed within the SRZ.	Remove.
169	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	15	4	3	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Construction/site grading is proposed within the SRZ.	Remove.
170	Scarlet Bottlebrush, <i>Callistemon citrinus</i>	8	3	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
171	Scarlet Bottlebrush, <i>Callistemon citrinus</i>	8	3	2	M	G	G	2.0	1.5	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
172	Spotted Gum, <i>Corymbia maculata</i>	78	13	7	M	F	F	9.4	3.1	Medium (10-30 yrs)	2	High	Trunk cavity at the base. This is used for lorikeet nesting. This was previously investigated. The trunk was stable at the time of inspection. Crown thinning indicating low vitality.	Within the proposed construction footprint.	Remove.
173	Turpentine, <i>Syncarpia glomulifera</i>	38	6	3	M	G	G	4.6	2.3	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
174	Peppercorn Tree, <i>Schinus areira</i>	70	6	3	LM	P	F	8.4	2.9	Short (0-10 yrs)	3	Low	Decay of several large limbs. Crown thinning indicating low vitality.	Within the proposed construction footprint.	Remove.
175	Turpentine, <i>Syncarpia glomulifera</i>	44	9	3	M	G	G	5.3	2.4	Long (30+ yrs)	2	High		Within the proposed construction footprint.	Remove.
176	Previously Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	
177	Lemon-scented Tea Tree, <i>Leptospermum petersonii</i>	9	2	1	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
178	Lemon-scented Tea Tree, <i>Leptospermum petersonii</i>	9	2	1	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
179	Lemon-scented Tea Tree, <i>Leptospermum petersonii</i>	9	2	1	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		Within the proposed construction footprint.	Remove.
180	Spotted Gum, <i>Corymbia maculata</i>	73, 63	17	7	M	G	G	11.6	3.3	Long (30+ yrs)	1	High		Within the proposed construction footprint.	Remove.
181	Bracelet Honey myrtle, <i>Melaleuca armillaris</i>	8, 8, 8, 8	4	3	M	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		Landscape and playground construction is proposed within the TPZ.	Retain.
182	Weeping Bottlebrush, <i>Callistemon viminalis</i>	40, 28, 28	7	4	M	G	G	6.8	2.6	Long (30+ yrs)	2	High		Landscape and playground construction is proposed within the TPZ.	Retain.
183	Tallowwood, <i>Eucalyptus microcorys</i>	63	10	5	M	G	G	7.6	2.8	Long (30+ yrs)	2	High		Landscape and playground construction is proposed within the TPZ.	Retain.
184	White Cloud, <i>Kunzea ambigua</i>	4, 4, 4, 4	2	2	M	G	G	2.0	1.0	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
185	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 7	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
186	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
187	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 9	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
188	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 10	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
189	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 9	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
190	Weeping Bottlebrush, <i>Callistemon viminalis</i>	8, 8	3	1	EM	F	F	2.0	1.5	Medium (10-30 yrs)	4	Low		No works are proposed within the TPZ. No impact is expected.	Retain.
191	Green Wattle, <i>Acacia parramattensis</i>	7	4	2	EM	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
192	Green Wattle, <i>Acacia parramattensis</i>	7	4	2	EM	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
193	Green Wattle, <i>Acacia parramattensis</i>	7	4	2	EM	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
194	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	25, 20, 20, 15	8	4	M	G	G	4.8	2.3	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
195	Forest Red Gum, <i>Eucalyptus teriticornis</i>	160	19	10	M	G	G	15.0	4.0	Long (30+ yrs)	1	High	Prominent within the landscape.	The proposed parking area is within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
196	Weeping Bottlebrush, <i>Callistemon viminalis</i>	7, 5, 5, 5	4	2	M	G	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
197	Swamp She Oak, <i>Casuarina glauca</i>	35	14	3	M	G	G	4.2	2.2	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
198	Swamp She Oak, <i>Casuarina glauca</i>	14	8	2	M	F	G	2.0	1.5	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
199	Turpentine, <i>Syncarpia glomulifera</i>	15	7	2	EM	G	G	2.0	1.6	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
200	Swamp Mahogany, <i>Eucalyptus robusta</i>	13, 13, 13, 13	8	3	M	G	P	2.0	1.5	Medium (10-30 yrs)	4	Low	Consists of young stems growing from the perimeter of an old decaying stump. The new stems may not be structurally stable in the long term.	The proposed carpark construction is within the SRZ.	Remove.
201	Turpentine, <i>Syncarpia glomulifera</i>	30	8	2	M	G	G	3.6	2.1	Long (30+ yrs)	3	Medium	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
202	Eucalypt, <i>Eucalyptus sp.</i>	15	7	1	EM	F	P	2.0	1.5	Short (0-10 yrs)	4	Low	Heavily pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
203	Tallowwood, <i>Eucalyptus microcorys</i>	28, 22	9	3	EM	G	G	4.2	2.2	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
204	Turpentine, <i>Syncarpia glomulifera</i>	28	4	3	EM	G	F	3.4	2.0	Medium (10-30 yrs)	3	Medium	Pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
205	Coast White Box, <i>Eucalyptus quadrangulata</i>	51	12	4	M	G	F	6.1	2.6	Long (30+ yrs)	2	High	Old trunk wound at 2m height. The trunk appears to be structurally stable. Response wood growth is in progress.	Landscape construction is proposed within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
206	Spotted Gum, <i>Corymbia maculata</i>	16	8	3	EM	F	G	2.0	1.6	Medium (10-30 yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
207	Stringy Bark, <i>Eucalyptus sp.</i>	27	7	3	EM	F	F	3.2	2.0	Medium (10-30 yrs)	3	Medium	Pruned for powerline clearance.	No works are proposed within the TPZ. No impact is expected.	Retain.
208	Grey Ironbark, <i>Eucalyptus paniculata</i>	30	11	5	M	G	G	3.6	2.1	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
209	Coast White Box, <i>Eucalyptus quadrangulata</i>	28	9	3	EM	G	G	3.4	2.0	Medium (10-30 yrs)	3	Medium	Suppressed by larger surrounding trees.	No works are proposed within the TPZ. No impact is expected.	Retain.
210	Spotted Gum, <i>Corymbia maculata</i>	47	13	5	M	G	G	5.6	2.5	Long (30+ yrs)	2	High		No works are proposed within the TPZ. No impact is expected.	Retain.
211	Monterey Pine, <i>Pinus radiata</i>	73	9	5	M	F	G	8.8	2.9	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
212	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	63	9	5	M	G	G	7.6	2.8	Long (30+ yrs)	2	High		Stormwater trenching is proposed within the TPZ. The proposed parking area is within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
213	Willow Bottlebrush, <i>Callistemon salignus</i>	54	8	5	M	G	G	6.5	2.6	Long (30+ yrs)	2	High		Stormwater trenching is proposed within the TPZ. The proposed parking area is within the TPZ. Less than 10% of the TPZ area will be affected.	Retain.
214	Forest Red Gum, <i>Eucalyptus teriticornis</i>	117	21	7	LM	F	F	14.0	3.5	Short (0-10 yrs)	3	Medium	Previous live branches. Heavily pruned.	Carpark construction is proposed within the SRZ. Major root loss is likely.	Remove.
215	Forest Red Gum, <i>Eucalyptus teriticornis</i>	102	19	7	LM	F	F	12.2	3.4	Short (0-10 yrs)	3	Medium	Previous live branches. Heavily pruned. Trunk wound from the base to 6m height.	Carpark construction is proposed within the SRZ. Major root loss is likely.	Remove.

Tree No.	Common Name/ Genus Species	Trunk Diameter (cm)	Height (m)	Canopy Spread Radius (m)	Age Class	Health / Vitality	Structural Condition	Tree Protection Zone (m)	Structural Root Zone (m)	Estimated Life Expectancy (ELE)	Landscape and Environmental Significance	Retention Value	Comments	Likely Construction Impacts	Proposed Action.
216	Swamp Mahogany, <i>Eucalyptus robusta</i>	101	17	7	LM	G	F	12.1	3.4	Short (0-10 yrs)	2	Medium	Previous live branches. Trunk wounds from the base to 4m height.	Carpark construction is proposed within the SRZ. Major root loss is likely.	Remove.
217	Magenta Lilly Pilly, <i>Syzygium paniculata</i>	54	9	5	M	G	G	6.5	2.6	Long (30+ yrs)	2	High		Carpark construction is proposed within the SRZ. Major root loss is possible.	Retain.
218	Cabbage Tree Palm, <i>Livistona australis</i>	22	3	2	EM	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.
219	Cabbage Tree Palm, <i>Livistona australis</i>	30	3	2	EM	G	G	2.0	1.0	Long (30+ yrs)	3	Medium		No works are proposed within the TPZ. No impact is expected.	Retain.

Attachment B: TREE ASSESSMENT DEFINITIONS

Height. Tree height is estimated from ground level. This assessment is made independently of data plotted on survey plan. These measurements have not been confirmed with clinometer or other surveying instrument.

Trunk Diameter at Breast Height (DBH). Trunk diameter is measured at 1.4 metres above ground level. A diameter tape is used which calculates the diameter from a measurement of the circumference. DBH is primarily used for the calculation of the TPZ. The trunk diameter above the root buttress is measured to calculate the Structural Root Zone. If a tree has more than 4 trunks, the diameter of the four largest trunks is recorded. For irregular trunk formations the DBH is calculated as outlined in Appendix A of AS4970-2009 -*Protection of Trees on Development Sites*.

Canopy Spread Radius. Average canopy spread radius is estimated from the centre of trunk to the outer edge of canopy. Refer to Comments column for detail of heavily skewed canopy spread.

Age Class - This is an estimation of the tree's current age class based on size, growth habit, local environmental conditions and comparison with surrounding trees.

- **Immature (IM):** This is a juvenile specimen that is likely to have germinated within the previous 5 years.
- **Early Mature (EM):** This is a tree that is established within its growing environment, though has not reached an age of reproductive maturity or the natural growth habit of a mature individual.
- **Mature (M):** This is a tree has reached both reproductive maturity and a physical form and shape typical for the species. Trees can have a Mature Age Class for the majority of their life span.
- **Late-Mature (LM):** These trees show early signs of senescence with symptoms such as reduced canopy density and an accumulation of dead branches.
- **Over-mature (OM):** These trees show symptoms of irreversible decline such as canopy dieback with dead branches concentrated in the upper canopy.

Health/Vitality - Good (G), Fair (F) or Poor (P). This is primarily based on the extent of vigorous new foliage growth at branch tips and the colour, size and density of foliage generally. The percentage of live branches to dead branches is considered. The location of any dead branches is also considered. The presence of any pest or disease is considered as part of this assessment. Health can vary with climatic conditions.

Structural Condition - Good (G), Fair (F) or Poor (P). This is an assessment of tree structure and stability. Root anchorage, trunk lean, structural defects, canopy skew and any hazardous features are considered. Dead branches can be considered as part of Structural Condition if they are of a size and location that could cause injury or property damage.

Tree Protection Zone (TPZ). This is a radial distance of (12X) the DBH measured from centre of trunk. TPZ is rounded to the nearest 0.1 metre. A TPZ should not be less than 2m or greater than 15m. The TPZ for palms and other monocots should not be less than 1m outside of the crown projection. Existing constraints to root spread can vary the TPZ. For a tree to remain viable, construction activity should be excluded or undertaken with care within the TPZ. Disturbance within up to 10% of the TPZ area is considered to be a minor encroachment. Disturbance to more than 10% of the TPZ area is considered a major encroachment. Major encroachment into the TPZ is possible depending on the type of disturbance, and species tolerance to disturbance. Exploratory excavation may be required to quantify the presence of roots at the alignment of proposed ground disturbance. This is based upon the Australian Standard AS 4970, 2009, *Protection of trees on development sites* and the Matheney & Clarke "Guidelines for adequate tree preservation zones for healthy, structurally stable trees".

Structural Root Zone (SRZ). This is a radial distance based on the following formula- $SRZ = (D \times 50)^{0.42} \times 0.64$ (for trees less than 150mm Diameter, a minimum SRZ of 1.5 metres). The **D** in the formula is the trunk diameter measured above the root buttress. This was recorded in the field notes. SRZ measurements are rounded to the nearest 0.1m. The Structural Root Zone is the area of soil and roots required to maintain tree stability. Excavation within the SRZ can result in whole tree failure. Fully elevated construction is possible within SRZ with specific rootzone assessment. Existing constraints to root spread can vary the SRZ. This method of determining SRZ is outlined at Section 3.3.5 of Australian Standard AS 4970, 2009, *Protection of trees on development sites*.

Estimated Remaining Life Expectancy: This gives a length of time that the Arborist believes a particular tree can be retained from the time of assessment with an acceptable level of risk based on the information available at the time of the inspection. This system of rating does not take into consideration the likely impacts of any proposed development. Ratings are **Long** (retainable for 30 years or more with an acceptable level of risk), **Medium** (retainable for 10-30 years), **Short** (retainable for 0-10 years) and **Removal** (tree requiring removal due to risk/hazard or absolute unsuitability).

Landscape & Environmental Significance*. This is an assessment of the impact of the tree on the surrounding landscape amenity and natural environment. Rarity, habitat value, physical prominence, historical and cultural significance of the tree are considered in this rating system. The Landscape & Environmental Value ratings used in this report are:

1. Very High Value: This is an outstanding specimen that holds irreplaceable environmental, landscape or cultural value.

2. High Value: An excellent specimen that holds environmental, landscape or cultural value that is present in other site trees or that could be replaced.

3. Moderate Value: Can be a good to fair specimen with environmental, landscape or cultural value that is common within other trees in the locality.

4. Low Value: Removal would not result in any loss of site amenity or environmental value. Can include undesirable or weed species or trees growing in unsuitable locations.

5. Very Low Value: Dead or hazardous with no other environmental or cultural value. Could also include weed species. These trees should be removed or pruned in a way to make safe irrespective of any development.

***Note:** The concept of using a five (5) point scale to assess tree significance was derived from the Tree Wise Men® Australia Pty Ltd ©Significance Rating Scale.

Retention Value*. Retention values are derived from a combination of Estimated Life Expectancy rating and Landscape and Environmental Significance ratings.

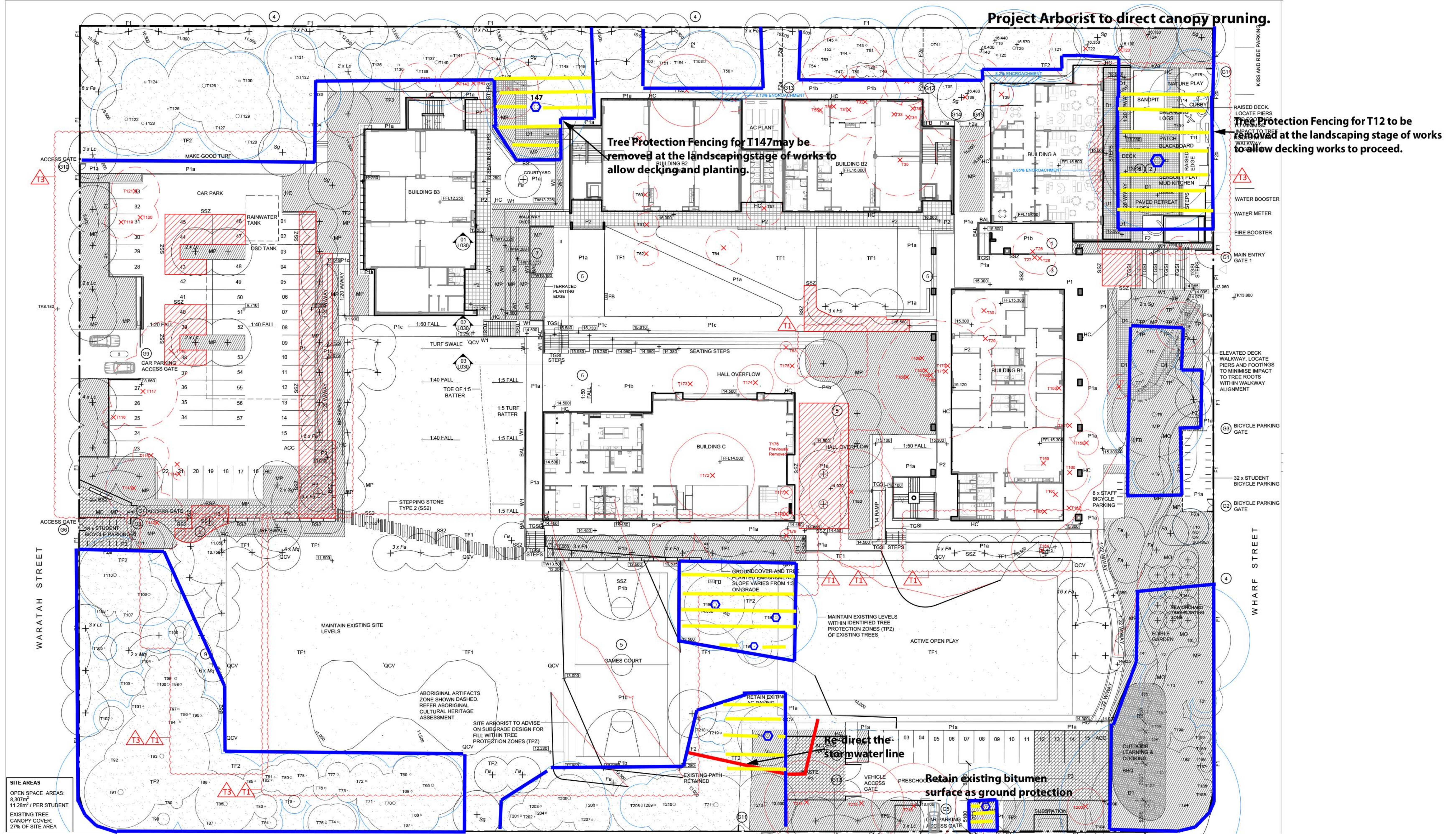
Significance Environmental Landscape &		Estimated Life Expectancy				
		Long	Medium	Short	Removal	
	Very High (1)	HIGH		MEDIUM		
	High (2)					
	Medium (3)	MEDIUM				
	Low (4)			LOW		
	Very Low (5)					

HIGH Retention Value: These trees are worthy of retention and major design consideration should be made where feasible to allow this.

MEDIUM Retention Value: These trees are worthy of retention and minor design consideration should be made to retain these trees wherever possible (e.g. placement of ancillary structures, garden retaining walls, driveway levels).

LOW Retention Value: These trees should not be considered to be a constraint to design layout. Some of these trees should be removed irrespective of any proposed development.

***Note:** The method of determining and defining retention values used in this report has been derived from the ©Retention Index developed by Tree Wise Men® Australia Pty Ltd.



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Tree Protection Plan

Melrose Park Public School

LEGEND

Tree Protection Zone		Trunk Protection	
Tree Protection Fencing		Compost, mulch and irrigation	

- This plan must be read in conjunction with the Arboricultural Impact Assessment report dated March 2025.
- This Tree Protection Plan was prepared with the Landscape Plan (Issue T3), March 2025, PTW as a base.
- Tree protection requirements should be reviewed and finalised following the start-up meeting between the Project Arborist and Site Foreman.