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# Arboricultural Impact Assessment



Aquinas College  
46 Great Ryrie St, Ringwood

Prepared for:  
Kosloff Architects

Report prepared by  
Christopher Rayner-Wigg  
*GradCertArb*

Submitted  
22/04/2025

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## Document Control

Table 1. Document Control

Version	Author	Date	Amendment
1	Christopher Rayner-Wigg	22/04/2025	Null

## Introduction

Melbourne Tree Care was contracted by Kosloff Architecture to undertake an arboricultural impact assessment for trees that may be impacted by proposed construction works within the grounds of Aquinas College.

## Aim of report

The intention of this report is to:

- Assess trees within the subject site that may be impacted by the proposed development.
- State the permit requirements for all trees.
- State the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) of all trees.
- Assess the impact of works for all trees.

## Methodology

- Christopher Rayner-Wigg of Melbourne Tree Care attended site on the 11<sup>th</sup> of April 2025.
- Data acquired is based on a Visual Tree Inspection (VTA) from the ground (Mattheck and Breloer, 1994).
- Tree numbering was continued from previous Tree Audit and Risk Assessment Report (Melbourne Tree Care, 2024)
- Trees with a mature height greater than five metres in locations that may be impacted by the development were assessed.
- Data collected for each tree was their current size (DBH, DaB, crown spread, height), condition (health and structure), ULE (useful life expectancy), retention value, TPZ, and SRZ.
- DBH (Diameter at Breast Height) was measured at 1.4 metres using a diameter tape.
- DaB (Diameter at Base) was measured above the root flare using a diameter tape.
- Tree height and canopy spread were estimated.
- Tree locations are based off the plans provided.
- Data was recorded using Tree Plotter.
- TPZ's and SRZ's were calculated in accordance with Australian Standard 4970-2009 Protection of trees on development sites. See Appendix B for further information.
- Tree impacts calculated using GIS software.

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## Documents Reviewed

- Kosloff Architecture. (2025, February 17). SK006 [01] Building A + B + E Stage 1 Delineation - Proposed
- Kosloff Architecture. (2025, February 17). SK-030 Basketball Court Carpark Sketch
- Kosloff Architecture. (2025, February 17). S-A018 [01] Demolition Site Plan – Level 1
- Enlocus. (2025, February 11). 1821\_CD005 (Revision C) Surface Finishes Plan

## Planning Controls

The subject site is located in Maroondah City Council General Residential Zone – Schedule 1 (GRZ1). Two planning overlays are present:

- Special Building Overlay (SBO)
- Significant Landscape Overlay – Schedule 4 (SLO4)

## Vegetation Controls

### SL04

Pursuant to the SLO4, a permit is required to remove, destroy or lop vegetation. This does not apply to:

- A tree that is less than 5 metres in height that has a single trunk circumference of less than 0.5 metre at a height of one metre above ground level.
- The pruning of a tree for regeneration or ornamental shaping.
- A tree which is dead or dying or has become dangerous as declared by a suitably qualified person.
- A tree within 3 metres of an existing dwelling (excluding outbuildings).

### 52.17

In addition, the subject site is greater than 4,000 m<sup>2</sup>, triggering clause 52.17 of the Victorian Planning Scheme. Pursuant to clause 52.17, a permit is required to remove, destroy, or lop native vegetation. There is an exemption within the clause that states a permit is not required when:

- Lopping or pruning native vegetation, for maintenance only, provided no more than 1/3 of the foliage of each individual plant is lopped or pruned;
- Native vegetation that is to be removed, destroyed or lopped that was either planted or grown as a result of direct seeding. This exemption does not apply to native vegetation planted or managed with public funding for the purpose of land protection or enhancing biodiversity unless the removal, destruction or lopping of the native vegetation is in accordance with written permission of the agency (or its successor) that provided the funding.

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Table 2. Individual Tree Permit Requirements

Tree Id	Botanical Name	Origin	Circumference at 1m (cm)	Tree Height (m)	SL04 Permit?	52.17 Permit?
3	<i>Eucalyptus leucoxylon</i>	Vic. Native	123	7	Yes	No - Planted
5	<i>Eucalyptus saligna</i>	Aus. Native	182	15	Yes	No - Planted
14	<i>Eucalyptus nicholii</i>	Aus. Native	273	13	Yes	No - Planted
15	<i>Eucalyptus scoparia</i>	Aus. Native	242	12	Yes	No - Planted
28	<i>Eucalyptus polyanthemos</i>	Vic. Native	160	12	Yes	Unsure
30	<i>Eucalyptus polyanthemos</i>	Vic. Native	185	14	Yes	Unsure
31	<i>Eucalyptus sp.</i>	Aus. Native	229	14	Yes	No - Planted
32	<i>Eucalyptus scoparia</i>	Aus. Native	223	13	Yes	No - Planted
34	<i>Angophora costata</i>	Aus. Native	176	17	Yes	No - Planted
35	<i>Angophora costata</i>	Aus. Native	154	13	Yes	No - Planted
42	<i>Corymbia citriodora</i>	Aus. Native	163	13	Yes	No - Planted
43	<i>Corymbia citriodora</i>	Aus. Native	201	18	Yes	No - Planted
45	<i>Lophostemon confertus</i>	Aus. Native	123	7	Yes	No - Planted
89	<i>Corymbia citriodora</i>	Aus. Native	72	10	Yes	No - Planted
90	<i>Corymbia citriodora</i>	Aus. Native	72	11	Yes	No - Planted
101	<i>Eucalyptus sp.</i>	Aus. Native	110	7	Yes	No - Planted
103	<i>Eucalyptus saligna</i>	Aus. Native	113	11	Yes	No - Planted
104	<i>Corymbia maculata</i>	Vic. Native	229	20	Yes	No - Planted
238	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	5	2	No	No - Planted
239	<i>Acacia cognata</i>	Vic. Native	72	3	No	No - Planted
248	<i>Acacia melanoxylon</i>	Vic. Native	33	4	No	Unsure
249	<i>Acacia dealbata</i>	Vic. Native	69	7	Yes	Unsure
250	<i>Pinus radiata</i>	Exotic	50	7	Yes	No - Weed species
251	<i>Acacia dealbata</i>	Vic. Native	38	5	Yes	Unsure
252	<i>Acacia dealbata</i>	Vic. Native	31	2	No	Unsure
253	<i>Acacia dealbata</i>	Vic. Native	38	7	No	Unsure
255	<i>Pinus radiata</i>	Exotic	35	7	No	No - Weed species
256	<i>Acacia dealbata</i>	Vic. Native	31	3	No	Unsure
257	<i>Acacia dealbata</i>	Vic. Native	44	5	No	Unsure
258	<i>Eucalyptus sp.</i>	Aus. Native	41	5	No	No - Planted
259	<i>Eucalyptus leucoxylon</i>	Vic. Native	38	5	No	No - Planted
260	<i>Eucalyptus sideroxylon</i>	Vic. Native	41	6	Yes	No - Planted
261	<i>Acacia pycnantha</i>	Vic. Native	69	6	Yes	Unsure
262	<i>Eucalyptus leucoxylon</i>	Vic. Native	79	7	Yes	No - Planted
263	<i>Eucalyptus sideroxylon</i>	Vic. Native	60	7	Yes	Unsure
264	<i>Acacia implexa</i>	Vic. Native	28	5	No	Unsure

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**Table 2. Individual Tree Permit Requirements**

Tree Id	Botanical Name	Origin	Circumference at 1m (cm)	Tree Height (m)	SL04 Permit?	52.17 Permit?
265	<i>Acacia mearnsii</i>	Vic. Native	89	7	Yes	Unsure
286	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	44	5	No	No - Planted
296	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	22	2	No	No - Planted
297	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	44	4	No	No - Planted
298	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	47	5	Yes	No - Planted
354	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	31	2	No	No - Planted
355	<i>Eucalyptus caesia</i> 'Silver Princess'	Aus. Native	47	6	Yes	No - Planted
382	<i>Hakea salicifolia</i>	Aus. Native	26	4	No	No - Weed species
383	<i>Acmena smithii</i> var. <i>minor</i>	Aus. Native	57	5	Yes	No - Planted
384	<i>Banksia integrifolia</i>	Vic. Native	16	3	No	Unsure



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## Observations

A total of 46 individual trees were assessed for this report (Figure 1). Detailed observations for individual trees are listed in **Appendix A** and see **Appendix D** for glossary of terms.



Figure 1. Site overview and tree locations.

## Tree Population Overview

The trees assessed are semi mature (50% of the tree population), mature (48%), and juvenile (2%) in age. The trees are a mix of Australian native (50%), Victorian native (46%), and exotic (4%) species. The tree population is comprised of over 20 different species, with *Eucalyptus caesia* 'Silver Princess' (Gungurru) the most extensively planted species assessed.

## Health

The health of the trees is assessed as fair (78%), good (11%), and poor (11%). Most trees are presenting with good leaf size and colour, crown density, and branch elongation; all of which are indicators of fair vigour and vitality.

## Structure

The structure of the trees is assessed as fair (72%) and poor (28%). Most trees present with strong branch and stem attachment and are generally free of structural defects.

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## Tree Retention Value

Five trees were found to have a high retention value; design considerations must be made for these trees in particular to ensure that they are not adversely impacted by the proposed development. There are 13 trees with a medium retention value, and 28 trees were found to have a low retention value. See Table 3 below for individual tree retention values.

**Table 3. Individual Tree Retention Values**

Retention Value	Tree Id
High	28, 30, 31, 43, 104
Medium	3, 5, 14, 15, 32, 34, 35, 42, 45, 89, 90, 101, 103
Low	238, 239, 248, 249, 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 286, 296, 297, 298, 354, 355, 382, 383, 384

## Impact Assessment

The proposed development comprises of the demolition of structures around Building B and the construction of a new Year 9 Learning Building and adjacent Outdoor Learning Centre. The construction also includes an accessibility ramp near the reception office, and construction of a car park where the existing open air basketball courts are located. See Table 4 below for individual tree encroachment calculations and see below for the arboricultural impact assessment drawing.

### No Impact

- There will be no impact into the TPZ or SRZ of trees 3, 14, 15, 28, 30, 32, 34, 35, 42, 89, 90, 101, 103, 104, 248, 249, 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 286, 354, and 355. It is expected these trees will not be adversely impacted by the proposed development and can be retained.

### Minor Encroachment

- The TPZ of Tree 31 and Tree 43 will be encroached by <10% by the proposed Accessibility Ramp and Outdoor Learning Centre landscaping works, respectively. While this is considered minor per AS4970-2009, and the works are not likely to adversely impact these trees, a project arborist must be appointed and supervise all works where the TPZ of these trees is encroached.

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- The TPZ of tree 5 will be encroached by <10% by the proposed basketball court resurfacing, however because the works are scheduled to stay within the original construction envelope, these works are unlikely to cause significant impact to the tree.

### Major Encroachment

- The TPZ of Tree 45 will be encroached by 44% and the SRZ encroached by 18% by the construction of footpaths connecting the Year 9 Learning Building with the Outdoor Learning Centre. This is considered a major encroachment (>10%) per AS4970-2009. It is likely that this encroachment will have adverse impacts on the health and structural stability of the tree and removal prior to construction is recommended.
- The TPZ of trees 298, 383, and 384 will be encroached by >10% by the proposed Year 9 Learning Building and Outdoor Learning Centre landscaping. The retention value of these trees is low and it is recommended the trees be removed prior to construction.
- The TPZ of tree 239 will be encroached by >10% by the proposed basketball court resurfacing. While the proposed works are within the previous basketball court footprint and there is no encroachment to the SRZ, the tree is in poor health, has low retention value, and removal is recommended prior to the proposed development.
- Trees 238, 296, 297, and 382 are within the proposed construction envelope. As these trees have low retention value, removal is recommended prior to the proposed development.



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Table 4. Individual Tree Encroachments

Tree Id	Botanical Name	TPZ Radius (m)	TPZ Encroachment	SRZ Radius (m)	SRZ Encroachment	Encroachment Part	Encroachment Class
3	<i>Eucalyptus leucoxylon</i>	4.68	None	2.49	None	None	None
5	<i>Eucalyptus saligna</i>	6.96	4%	2.78	None	Car Park	Minor
14	<i>Eucalyptus nicholii</i>	10.44	None	3.28	None	None	None
15	<i>Eucalyptus scoparia</i>	9.24	None	3.3	None	None	None
28	<i>Eucalyptus polyanthemos</i>	6.12	None	2.55	None	None	None
30	<i>Eucalyptus polyanthemos</i>	7.06	None	2.9	None	None	None
31	<i>Eucalyptus sp.</i>	8.76	8%	3.14	None	Access Ramp	Minor
32	<i>Eucalyptus scoparia</i>	8.52	None	3.12	None	None	None
34	<i>Angophora costata</i>	6.72	None	3.81	None	None	None
35	<i>Angophora costata</i>	5.88	None	2.76	None	None	None
42	<i>Corymbia citriodora</i>	6.24	None	2.74	None	None	None
43	<i>Corymbia citriodora</i>	7.68	7%	3.03	None	Main building landscaping	Minor
45	<i>Lophostemon confertus</i>	4.68	44%	2.41	18%	Main building landscaping	Major
89	<i>Corymbia citriodora</i>	2.76	None	1.97	None	None	None
90	<i>Corymbia citriodora</i>	2.76	None	2.05	None	None	None
101	<i>Eucalyptus sp.</i>	4.2	None	2.37	None	None	None
103	<i>Eucalyptus saligna</i>	4.32	None	2.57	None	None	None
104	<i>Corymbia maculata</i>	9.12	None	3.25	None	None	None
238	<i>Eucalyptus caesia</i> 'Silver Princess'	2	100%	1.53	100%	Car Park Crossover	Major
239	<i>Acacia cognata</i>	2.76	11%	1.79	None	Car Park	Major
248	<i>Acacia melanoxydon</i>	2	None	1.57	None	None	None
249	<i>Acacia dealbata</i>	2.64	None	1.97	None	None	None





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For life and limb



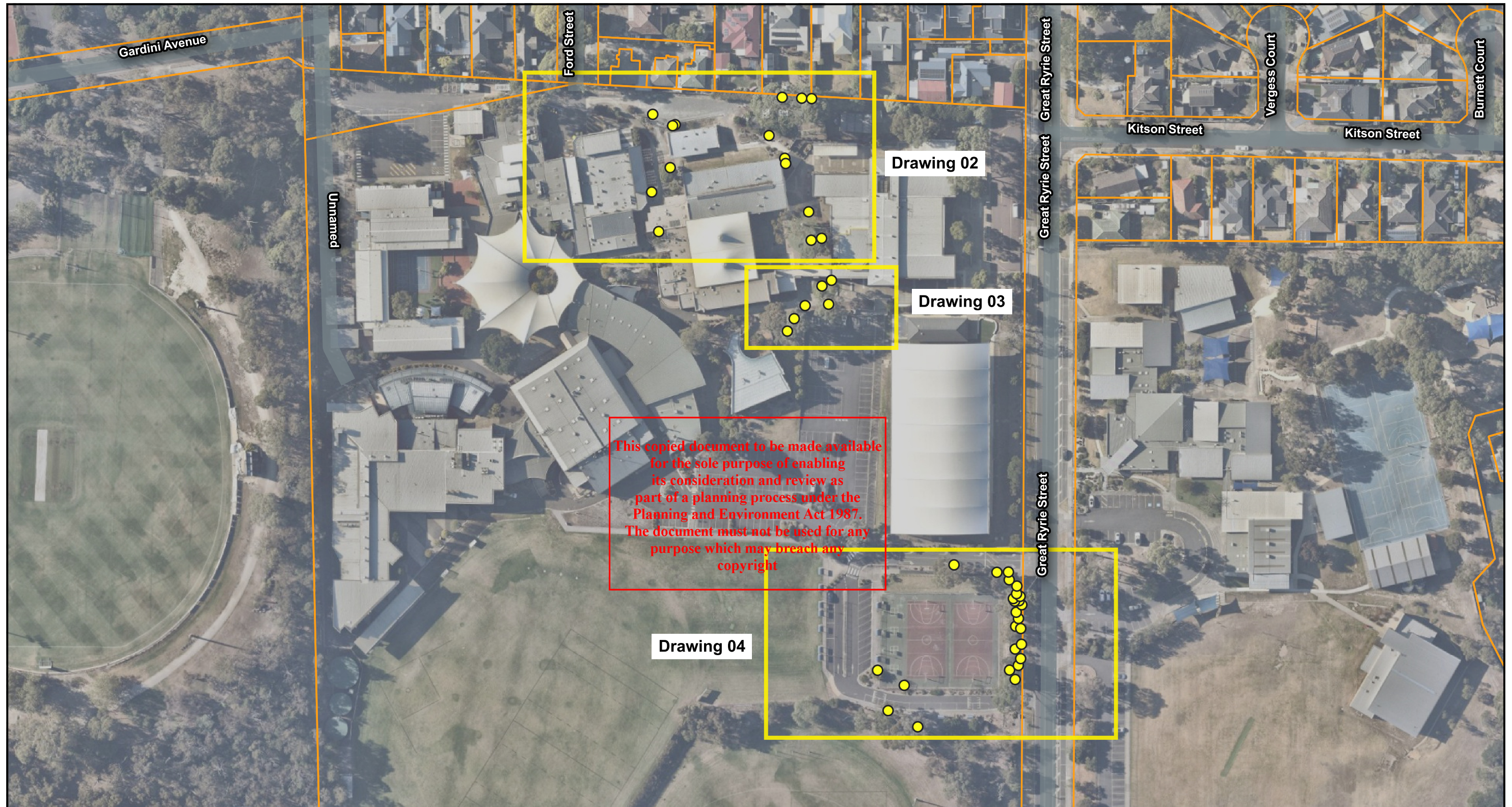
Tree Id	Botanical Name	TPZ Radius (m)	TPZ Encroachment	SRZ Radius (m)	SRZ Encroachment	Encroachment Part	Encroachment Class
250	<i>Pinus radiata</i>	2	None	1.61	None	None	None
251	<i>Acacia dealbata</i>	2	None	1.53	None	None	None
252	<i>Acacia dealbata</i>	2	None	1.5	None	None	None
253	<i>Acacia dealbata</i>	2	None	1.57	None	None	None
255	<i>Pinus radiata</i>	2	None	1.57	None	None	None
256	<i>Acacia dealbata</i>	2	None	1.5	None	None	None
257	<i>Acacia dealbata</i>	2	None	1.61	None	None	None
258	<i>Eucalyptus sp.</i>	2	None	1.82	None	None	None
259	<i>Eucalyptus leucoxyton</i>	2	None	1.57	None	None	None
260	<i>Eucalyptus sideroxylon</i>	2	None	1.53	None	None	None
261	<i>Acacia pycnantha</i>	2.64	None	1.85	None	None	None
262	<i>Eucalyptus leucoxyton</i>	3	None	1.97	None	None	None
263	<i>Eucalyptus sideroxylon</i>	2.28	None	1.91	None	None	None
264	<i>Acacia implexa</i>	2	None	1.5	None	None	None
265	<i>Acacia mearnsii</i>	3.39	None	2.23	None	None	None
286	<i>Eucalyptus caesia</i> 'Silver Princess'	2	None	1.68	None	None	None
296	<i>Eucalyptus caesia</i> 'Silver Princess'	2	100%	1.5	100%	Main Building	None
297	<i>Eucalyptus caesia</i> 'Silver Princess'	2	100%	1.57	100%	Main building landscaping	Major
298	<i>Eucalyptus caesia</i> 'Silver Princess'	2.15	29%	1.75	24%	Main building landscaping	Major
354	<i>Eucalyptus caesia</i> 'Silver Princess'	2	None	1.53	None	None	None
355	<i>Eucalyptus caesia</i> 'Silver Princess'	2	None	1.52	None	None	None
382	<i>Hakea salicifolia</i>	2	100%	1.5	100%	Main building landscaping	Major
383	<i>Acmena smithii</i> var. <i>minor</i>	2.16	41%	1.61	38%	Main Building	Major
384	<i>Banksia integrifolia</i>	2	39%	1.5	40%	Main Building	Major

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m – metres



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## Arboricultural Impact Assessment

**46 Great Ryrie St,  
Ringwood**

Date 22/04/2025  
Scale 1:1500 @A3

Prepared By  
Christopher Rayner-Wigg  
Melbourne Tree Care

Drawing No. 01

Notes  
- Original drawing obtained from client  
- TPZ's and SRZ's calculated as per AS4970:2009

### Legend

- Tree
- Cadastre
- Road



0 50 100 m

**Melbourne Tree Care PTY LTD**

**Richmond, Victoria  
Australia 3121**

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)

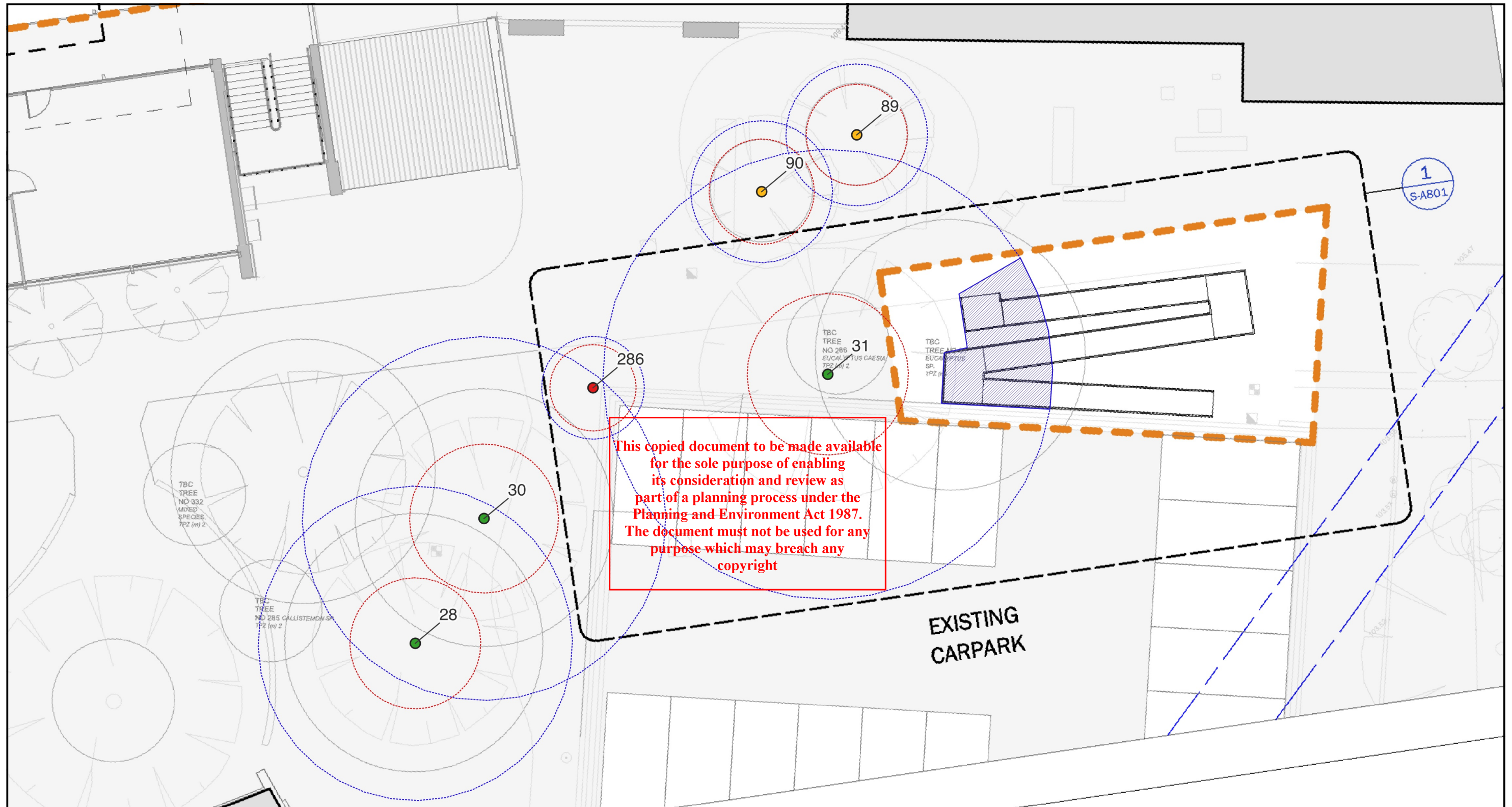








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## Arboricultural Impact Assessment

46 Great Ryrie St,  
Ringwood

Date 22/04/2025 Scale 1:150 @A3

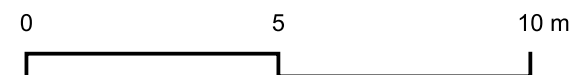
Prepared By  
Christopher Rayner-Wigg  
Melbourne Tree Care

Drawing No. 03

Notes  
- Original drawing obtained from client  
- TPZ's and SRZ's calculated as per AS4970:2009

### Legend

Retention Value	TPZ	SRZ
● High	TPZ Encroachment	SRZ Encroachment
● Medium		
● Low		

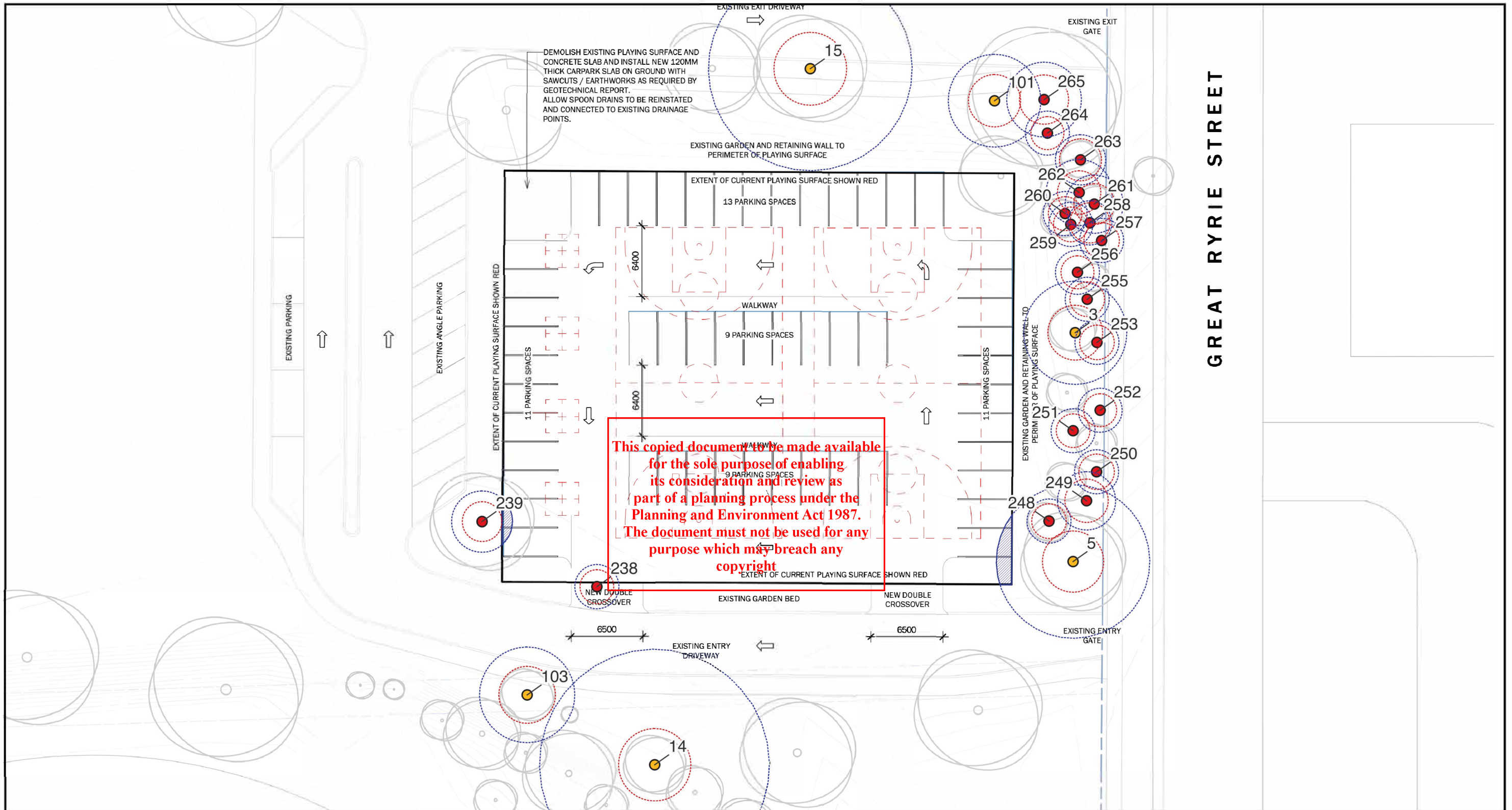


Melbourne Tree Care PTY LTD

Richmond, Victoria  
Australia 3121

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)





## Arboricultural Impact Assessment

46 Great Ryrie St,  
Ringwood

Date 22/04/2025 Scale 1:350 @A3

Prepared By  
Christopher Rayner-Wigg  
Melbourne Tree Care

Drawing No. 04

Notes  
- Original drawing obtained from client  
- TPZ's and SRZ's calculated as per AS4970:2009

### Legend

Retention Value	TPZ	SRZ
● High	TPZ Encroachment	SRZ Encroachment
● Medium		
● Low		



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Melbourne Tree Care PTY LTD

Richmond, Victoria  
Australia 3121

Email: [info@melbournetreecare.com.au](mailto:info@melbournetreecare.com.au)







## Conclusion

A total of 46 individual trees were assessed to determine how they are impacted by the demolition of Building B and construction of a new Year 9 Learning Building, new adjacent Outdoor Learning Centre, accessibility ramp south of the reception building, and conversion of the southern open air basketball court into a new car park. The impact assessment has determined:

- Thirty-four trees will not be impacted by the proposed development and can be retained.
- There will be minor encroachments into the TPZ of three trees. These trees can be retained if all works are carried out under the supervision of the project arborist.
- There will be major encroachments into the TPZ of five trees; four of these trees have a low retention value and one tree has a medium retention value. Due to the impact of the proposed works on these trees, removal is recommended to facilitate development.
- Four trees are within the construction envelope and will require removal prior to development works.

## Recommendations

A Tree Protection Management Plan (TPMP) must be undertaken as a condition of the planning permit to ensure all retained trees remain viable during and after the proposed development. A project arborist must be appointed and supervise all works inside the TPZ's and SRZ's.

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## Appendix A: Individual Tree Data

**Tree Id:** 3

**Botanical Name:** *Eucalyptus leucoxylon* **DBH (cm):** 39

**Common Name:** Yellow Gum **DaB (cm):** 51

**Tree Height (m):** 7 **Canopy Spread (m):** 8

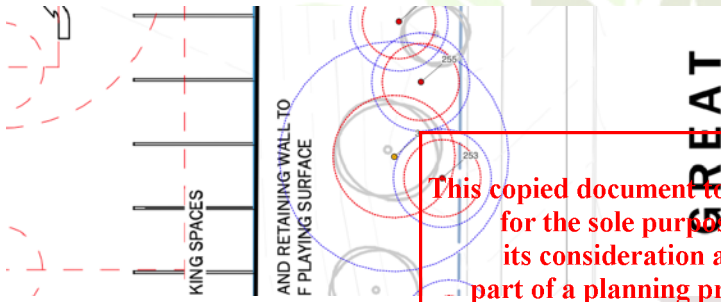
**Health:** Fair **Structure:** Fair

**Origin:** Vic. Native **Age:** Mature **ULE:** Medium

**Retention Value:** Medium **TPZ (m):** 4.68 **SRZ (m):** 2.49

**Observations:** Previous failures. Wounds.

**Encroachment:** None **Retention Status:** Retain



**Tree Id:** 5

**Botanical Name:** *Eucalyptus saligna* **DBH (cm):** 58

**Common Name:** Sydney Blue Gum **DaB (cm):** 66

**Tree Height (m):** 15 **Canopy Spread (m):** 12

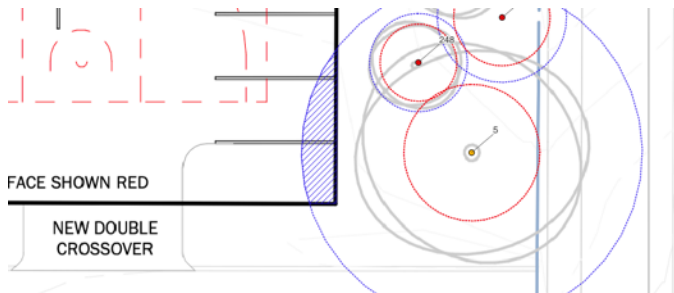
**Health:** Fair **Structure:** Poor

**Origin:** Aus. Native **Age:** Mature **ULE:** Short

**Retention Value:** Medium **TPZ (m):** 6.96 **SRZ (m):** 2.78

**Observations:** Previous failures. Wounds. Bird damage. Fungal fruiting body

**Encroachment:** Minor **Retention Status:** Retain







**Tree Id:** 14

**Botanical Name:** *Eucalyptus nicholii* **DBH (cm):** 87

**Common Name:** Narrow-leaved Black Peppermint **DaB (cm):** 98

**Tree Height (m):** 13 **Canopy Spread (m):** 9

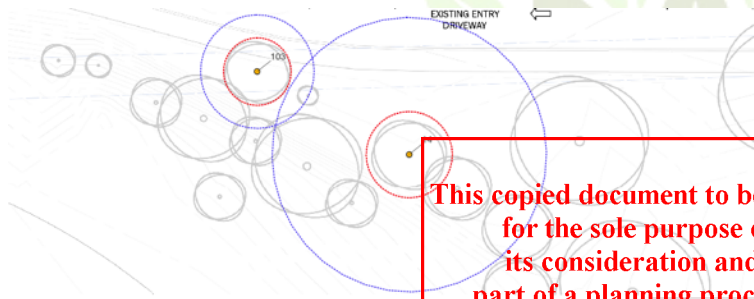
**Health:** Poor **Structure:** Poor

**Origin:** Aus. Native **Age:** Mature **ULE:** Short

**Retention Value:** Medium **TPZ (m):** 10.44 **SRZ (m):** 3.28

**Observations:** Acute codominant stems. In decline. Dieback. Cable bracing installed too low. Buttress buried.

**Encroachment:** None **Retention Status:** Retain



**Tree Id:** 15

**Botanical Name:** *Eucalyptus scoparia* **DBH (cm):** 77

**Common Name:** Wallangarra Gum **DaB (cm):** 99

**Tree Height (m):** 12 **Canopy Spread (m):** 10

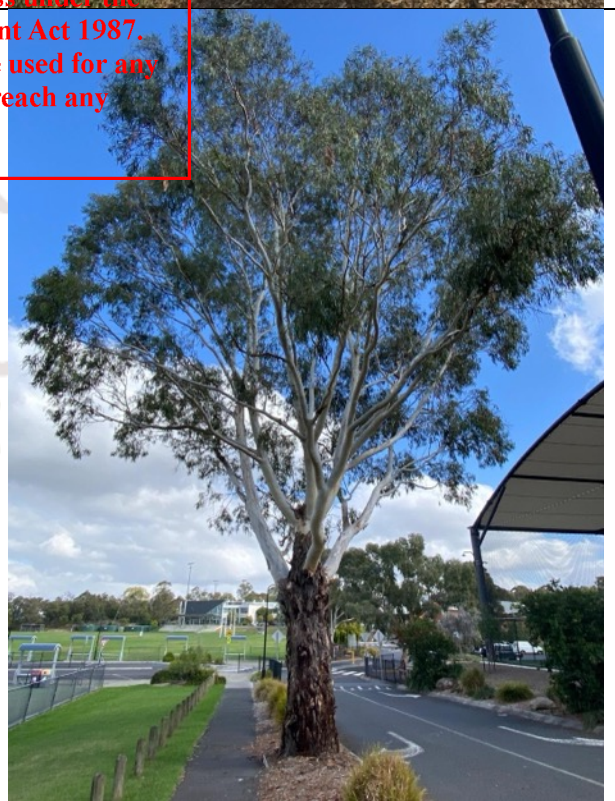
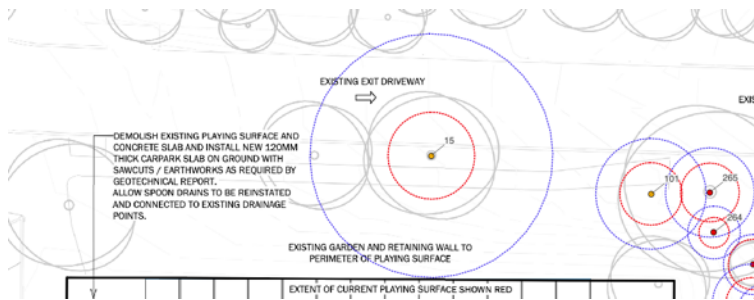
**Health:** Fair **Structure:** Fair

**Origin:** Aus. Native **Age:** Mature **ULE:** Medium

**Retention Value:** Medium **TPZ (m):** 9.24 **SRZ (m):** 3.3

**Observations:**

**Encroachment:** None **Retention Status:** Retain







**Tree Id:** 28

**Botanical Name:** *Eucalyptus polyanthemos* **DBH (cm):** 51

**Common Name:** Red Box **DaB (cm):** 54

**Tree Height (m):** 12 **Canopy Spread (m):** 7

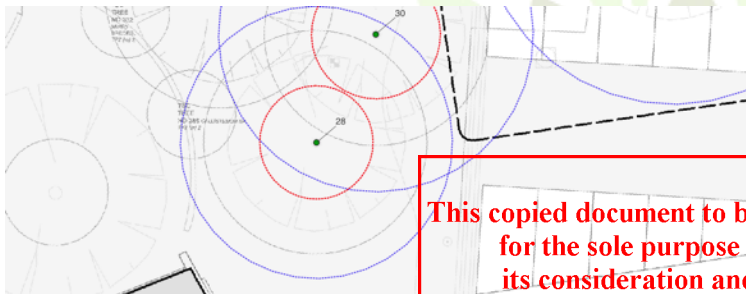
**Health:** Fair **Structure:** Fair

**Origin:** Vic. Native **Age:** Mature **ULE:** Medium

**Retention Value:** High **TPZ (m):** 6.12 **SRZ (m):** 2.55

**Observations:** Previous failures. Wounds.

**Encroachment:** None **Retention Status:** Retain



**Tree Id:** 30

**Botanical Name:** *Eucalyptus polyanthemos* **DBH (cm):** 59

**Common Name:** Red Box **DaB (cm):** 73

**Tree Height (m):** 14 **Canopy Spread (m):** 8

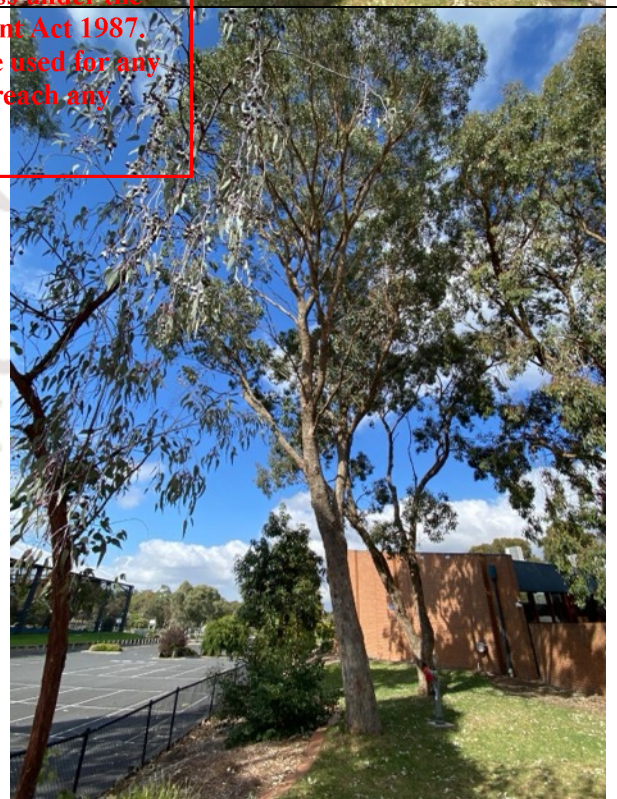
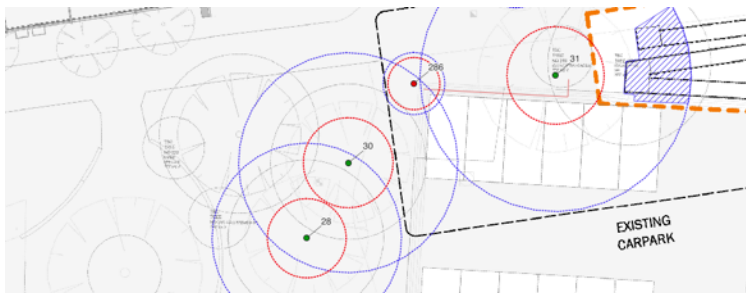
**Health:** Fair **Structure:** Fair

**Origin:** Vic. Native **Age:** Mature **ULE:** Medium

**Retention Value:** High **TPZ (m):** 7.08 **SRZ (m):** 2.9

**Observations:** Included codominant stems. Previous failures.

**Encroachment:** None **Retention Status:** Retain



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**Tree Id:** 31

**Botanical Name:** *Eucalyptus sp.*

**DBH (cm):** 73

**Common Name:** Gum

**DaB (cm):** 88

**Tree Height (m):** 14

**Canopy Spread (m):** 10

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Medium

**Retention Value:** High

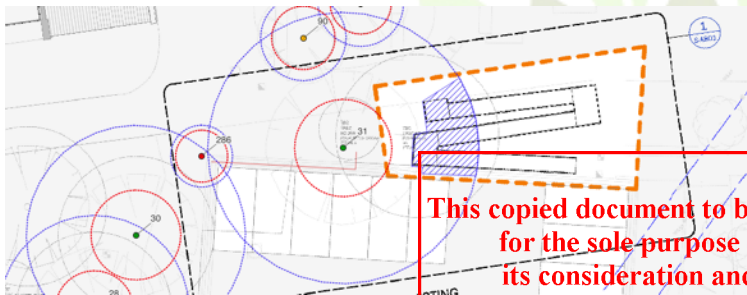
**TPZ (m):** 8.76

**SRZ (m):** 3.14

**Observations:** Exudates. Wounds.

**Encroachment:** Minor

**Retention Status:** Retain



**Tree Id:** 32

**Botanical Name:** *Eucalyptus scoparia*

**DBH (cm):** 71

**Common Name:** Wallangarra Gum

**DaB (cm):** 87

**Tree Height (m):** 13

**Canopy Spread (m):** 15

**Health:** Poor

**Structure:** Poor

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Medium

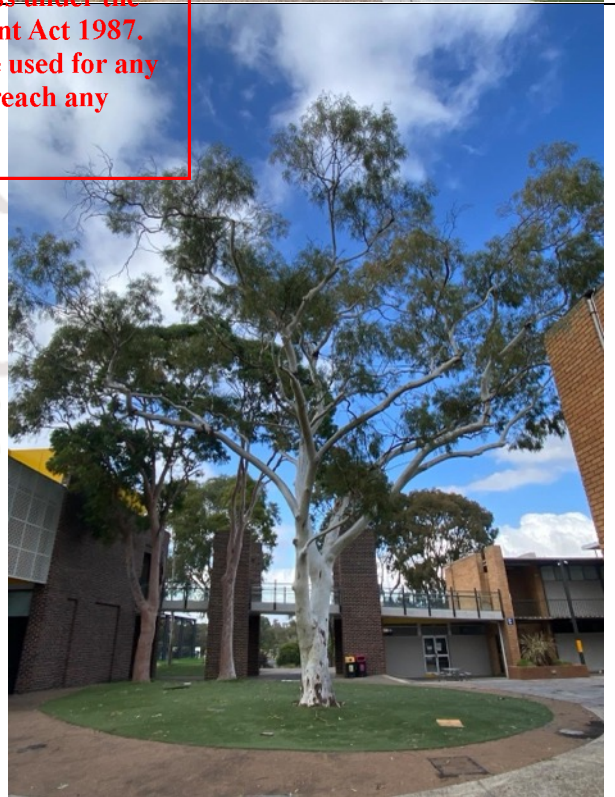
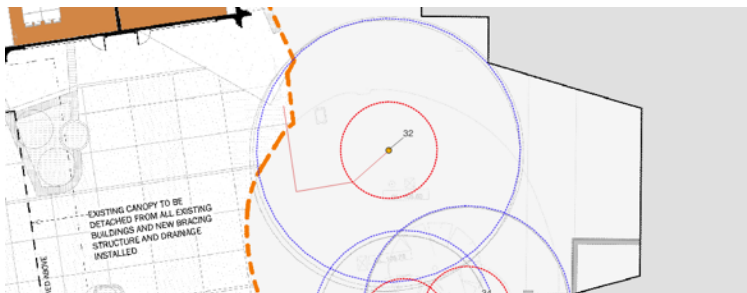
**TPZ (m):** 8.52

**SRZ (m):** 3.12

**Observations:** Cable brace installed. Bird damage. In decline. Dieback. Cable under tension. Tension wounds. Small cavity in tension side of western lateral.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 34

**Botanical Name:** *Angophora costata* **DBH (cm):** 56

**Common Name:** Smooth-barked Apple Myrtle **DaB (cm):** 68

**Tree Height (m):** 17 **Canopy Spread (m):** 8

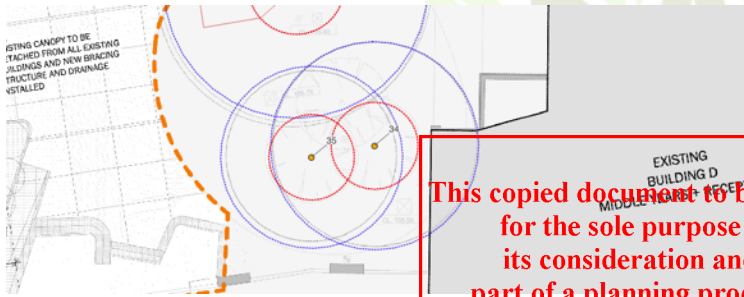
**Health:** Fair **Structure:** Poor

**Origin:** Aus. Native **Age:** Mature **ULE:** Short

**Retention Value:** Medium **TPZ (m):** 6.72 **SRZ (m):** 2.81

**Observations:** Tension wound, decay, and fungal fruiting body on southern stem. Cable bracing installed. Cable under tension.

**Encroachment:** None **Retention Status:** Retain



**Tree Id:** 35

**Botanical Name:** *Angophora costata* **DBH (cm):** 49

**Common Name:** Smooth-barked Apple Myrtle **DaB (cm):** 68

**Tree Height (m):** 13 **Canopy Spread (m):** 7

**Health:** Fair **Structure:** Fair

**Origin:** Aus. Native **Age:** Mature **ULE:** Medium

**Retention Value:** Medium **TPZ (m):** 5.88 **SRZ (m):** 2.76

**Observations:** Bird damage. Over-pruned. Poor stem taper.

**Encroachment:** None **Retention Status:** Retain







**Tree Id:** 42

**Botanical Name:** *Corymbia citriodora*

**DBH (cm):** 52

**Common Name:** Lemon-scented Gum

**DaB (cm):** 64

**Tree Height (m):** 13

**Canopy Spread (m):** 11

**Health:** Fair

**Structure:** Poor

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Medium

**Retention Value:** Medium

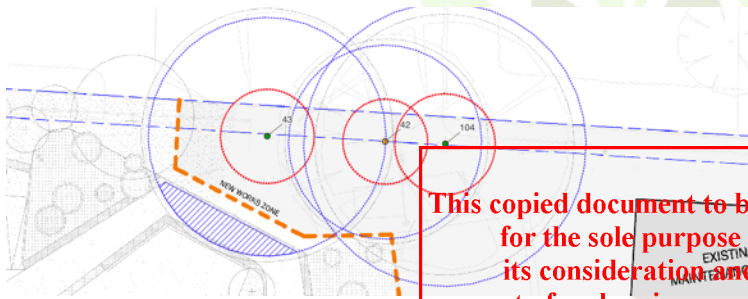
**TPZ (m):** 6.24

**SRZ (m):** 2.74

**Observations:** Thin canopy. Reduced leaf size. Fungal fruiting body

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 43

**Botanical Name:** *Corymbia citriodora*

**DBH (cm):** 64

**Common Name:** Lemon-scented Gum

**DaB (cm):** 81

**Tree Height (m):** 18

**Canopy Spread (m):** 12

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Medium

**Retention Value:** High

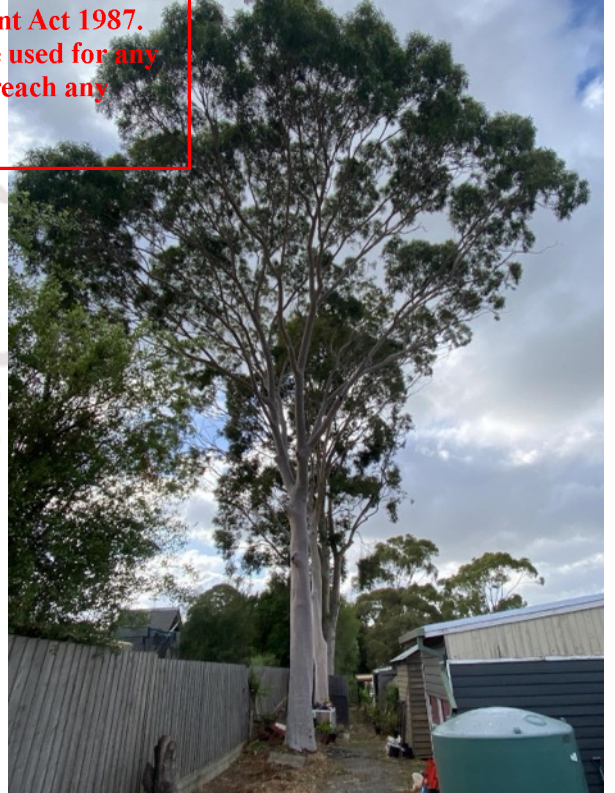
**TPZ (m):** 7.68

**SRZ (m):** 3.03

**Observations:**

**Encroachment:** Minor

**Retention Status:** Retain







**Tree Id:** 45

**Botanical Name:** *Lophostemon confertus* **DBH (cm):** 39

**Common Name:** Queensland Brush Box **DaB (cm):** 47

**Tree Height (m):** 7 **Canopy Spread (m):** 6

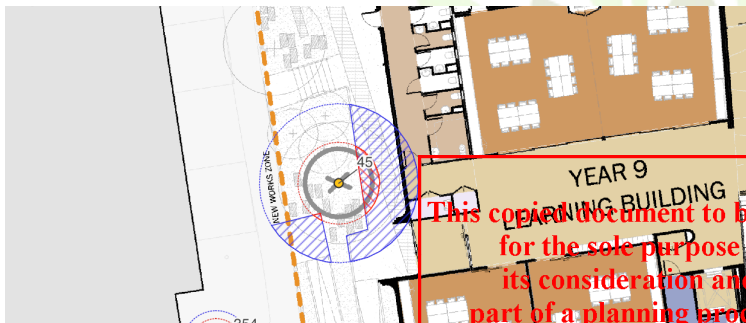
**Health:** Good **Structure:** Fair

**Origin:** Aus. Native **Age:** Mature **ULE:** Medium

**Retention Value:** Medium **TPZ (m):** 4.68 **SRZ (m):** 2.41

**Observations:**

**Encroachment:** Major **Retention Status:** Remove



**Tree Id:** 89

**Botanical Name:** *Corymbia citriodora* **DBH (cm):** 23

**Common Name:** Lemon-scented Gum **DaB (cm):** 29

**Tree Height (m):** 10 **Canopy Spread (m):** 4

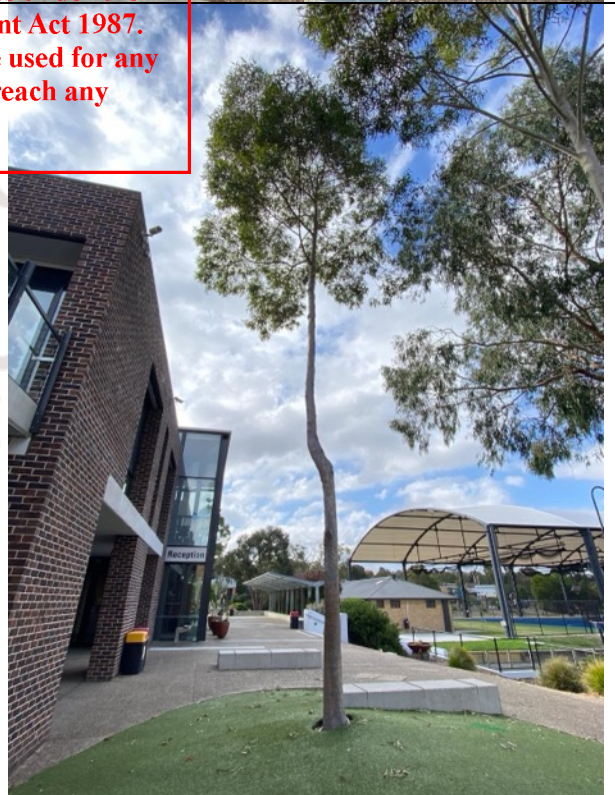
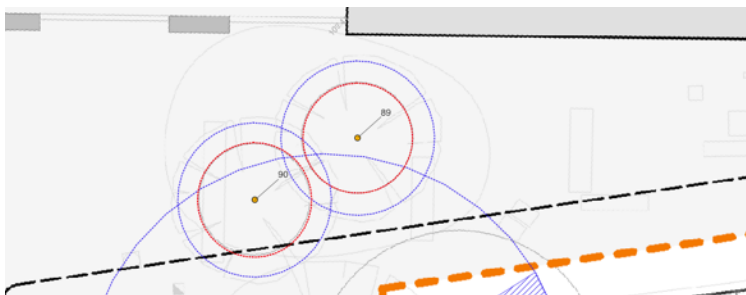
**Health:** Fair **Structure:** Fair

**Origin:** Aus. Native **Age:** Semi mature **ULE:** Medium

**Retention Value:** Medium **TPZ (m):** 2.76 **SRZ (m):** 1.97

**Observations:** Poor pruning. Poor stem taper.

**Encroachment:** None **Retention Status:** Retain







**Tree Id:** 90

**Botanical Name:** *Corymbia citriodora*

**DBH (cm):** 23

**Common Name:** Lemon-scented Gum

**DaB (cm):** 32

**Tree Height (m):** 11

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Medium

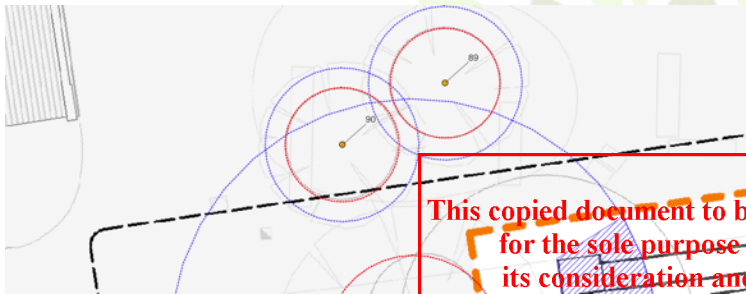
**TPZ (m):** 2.76

**SRZ (m):** 2.05

**Observations:** Poor stem taper.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 101

**Botanical Name:** *Eucalyptus sp.*

**DBH (cm):** 35

**Common Name:** Gum

**DaB (cm):** 45

**Tree Height (m):** 7

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Medium

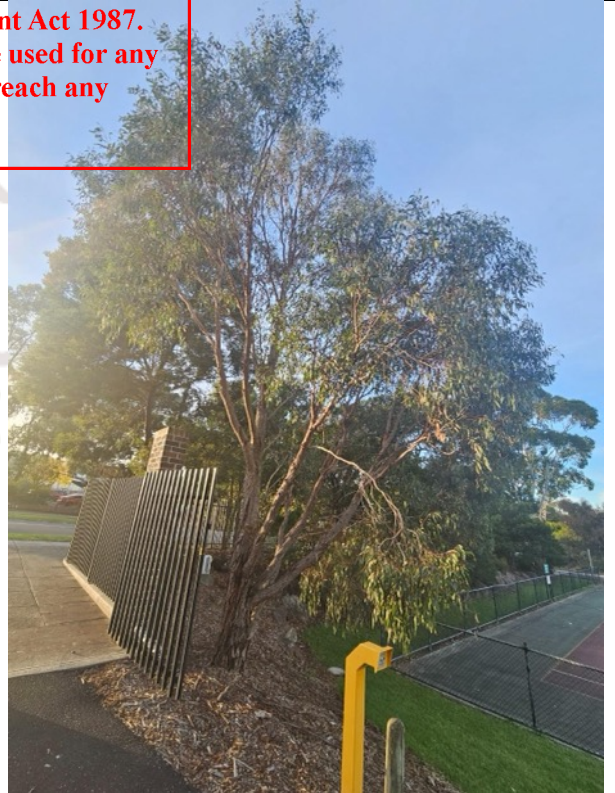
**TPZ (m):** 4.2

**SRZ (m):** 2.37

**Observations:** In decline. Possum-grazed.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 103

**Botanical Name:** *Eucalyptus saligna*

**DBH (cm):** 36

**Common Name:** Sydney Blue Gum

**DaB (cm):** 55

**Tree Height (m):** 11

**Canopy Spread (m):** 10

**Health:** Fair

**Structure:** Poor

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Medium

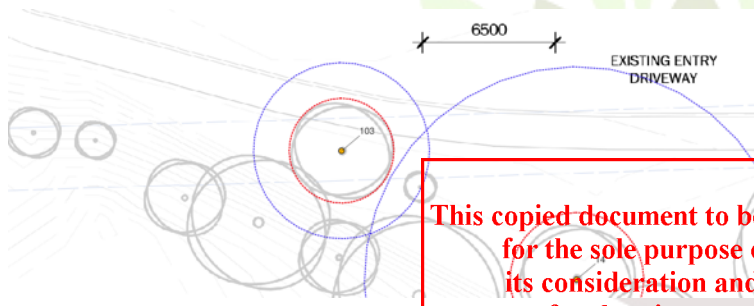
**TPZ (m):** 4.32

**SRZ (m):** 2.57

**Observations:** Fungal fruiting body. Thin canopy. In decline.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 104

**Botanical Name:** *Corymbia maculata*

**DBH (cm):** 76

**Common Name:** Spotted Gum

**DaB (cm):** 96

**Tree Height (m):** 20

**Canopy Spread (m):** 14

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Mature

**ULE:** Medium

**Retention Value:** High

**TPZ (m):** 9.12

**SRZ (m):** 3.25

**Observations:**

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 238

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 2

**Common Name:** Gungurru

**DaB (cm):** 16

**Tree Height (m):** 2

**Canopy Spread (m):** 1

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Short

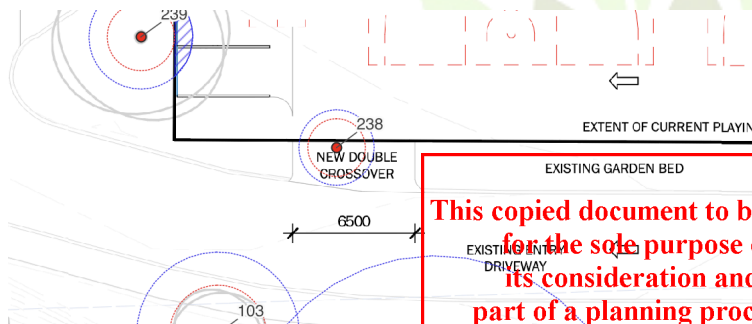
**Retention Value:** Low

**TPZ (m):** 2 **SRZ (m):** 1.53

**Observations:**

**Encroachment:** 100%

**Retention Status:** Remove



**Tree Id:** 239

**Botanical Name:** *Acacia cognata*

**Common Name:** River Wattle

**Tree Height (m):** 3

**Canopy Spread (m):** 5

**Health:** Poor

**Structure:** Poor

**Origin:** Vic. Native

**Age:** Mature

**ULE:** Short

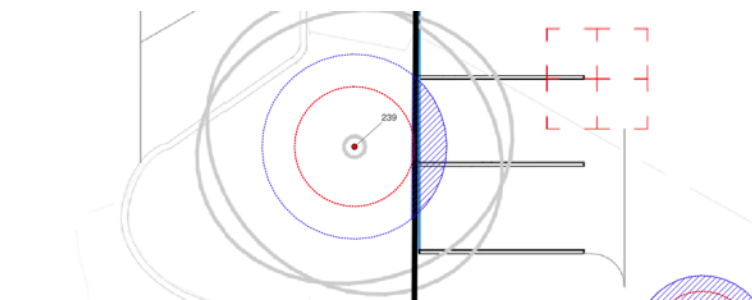
**Retention Value:** Low

**TPZ (m):** 2.76 **SRZ (m):** 1.79

**Observations:** In decline.

**Encroachment:** Major

**Retention Status:** Remove



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**Tree Id:** 248

**Botanical Name:** *Acacia melanoxylon*

**DBH (cm):** 10.63

**Common Name:** Blackwood

**DaB (cm):** 17

**Tree Height (m):** 4

**Canopy Spread (m):** 2

**Health:** Poor

**Structure:** Poor

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

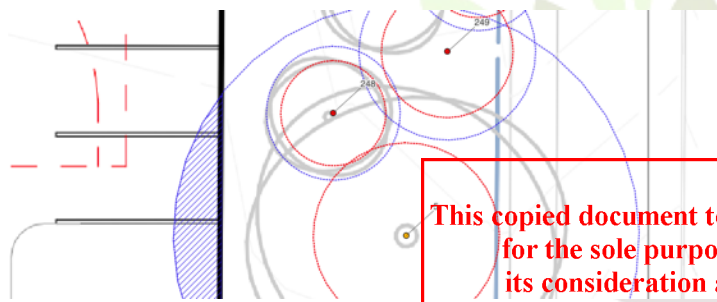
**TPZ (m):** 2

**SRZ (m):** 1.57

**Observations:** Included codominant stems. In decline.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 249

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 22

**Common Name:** Silver Wattle

**DaB (cm):** 29

**Tree Height (m):** 7

**Canopy Spread (m):** 5

**Health:** Good

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

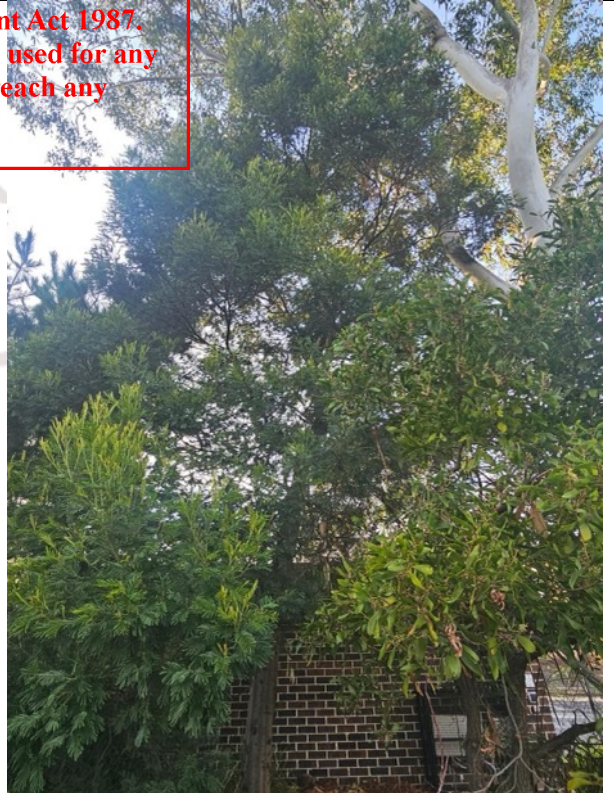
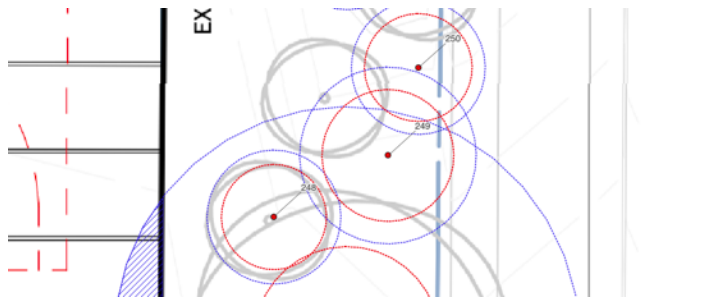
**TPZ (m):** 2.64

**SRZ (m):** 1.97

**Observations:** Acute codominant stems

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 250

**Botanical Name:** *Pinus radiata*

**DBH (cm):** 16

**Common Name:** Monterey Pine

**DaB (cm):** 18

**Tree Height (m):** 7

**Canopy Spread (m):** 4

**Health:** Good

**Structure:** Fair

**Origin:** Exotic

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

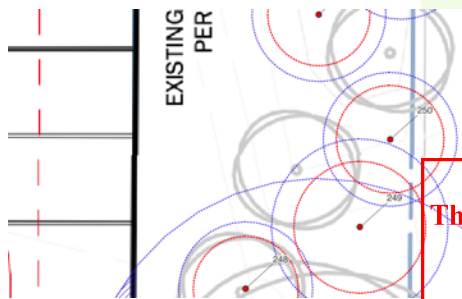
**TPZ (m):** 2

**SRZ (m):** 1.61

**Observations:** Group x2. Weed species

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 251

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 12

**Common Name:** Silver Wattle

**DaB (cm):** 16

**Tree Height (m):** 5

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

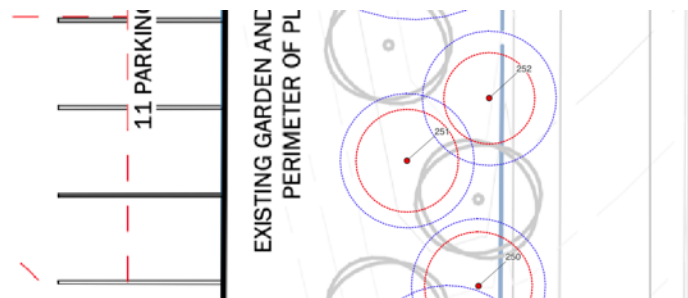
**TPZ (m):** 2

**SRZ (m):** 1.53

**Observations:** Exudates.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 252

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 10

**Common Name:** Silver Wattle

**DaB (cm):** 12

**Tree Height (m):** 2

**Canopy Spread (m):** 2

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

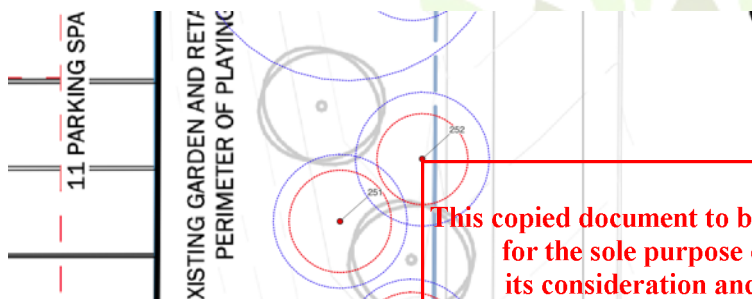
**TPZ (m):** 2

**SRZ (m):** 1.50

**Observations:** Group x2. In decline. Exudates

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 253

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 12

**Common Name:** Silver Wattle

**DaB (cm):** 17

**Tree Height (m):** 7

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

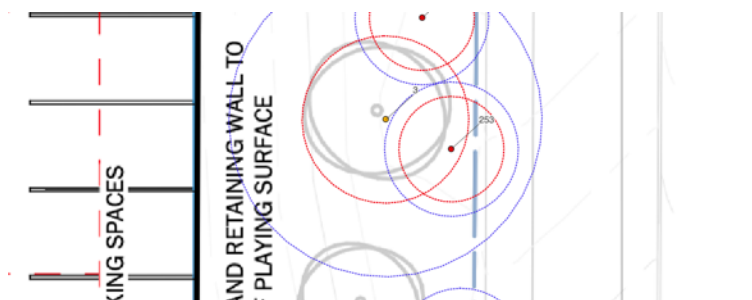
**TPZ (m):** 2

**SRZ (m):** 1.57

**Observations:** Exudates.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 255

**Botanical Name:** *Pinus radiata*

**DBH (cm):** 11

**Common Name:** Monterey Pine

**DaB (cm):** 17

**Tree Height (m):** 7

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Exotic

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

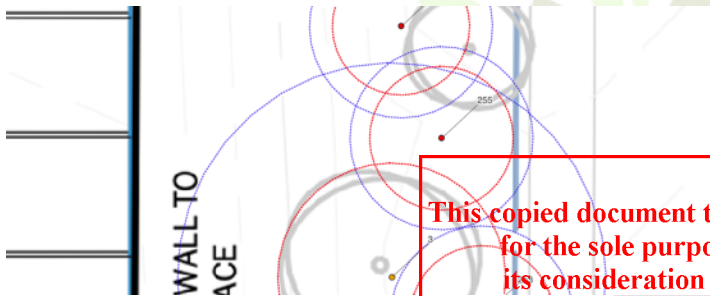
**TPZ (m):** 2

**SRZ (m):** 1.57

**Observations:** Weed species. Suppressed. Dieback

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 256

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 10

**Common Name:** Silver Wattle

**DaB (cm):** 12

**Tree Height (m):** 3

**Canopy Spread (m):** 2

**Health:** Poor

**Structure:** Poor

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

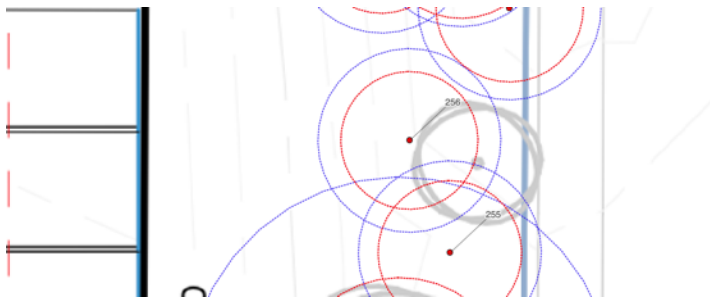
**TPZ (m):** 2

**SRZ (m):** 1.50

**Observations:** In decline. Exudates

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 257

**Botanical Name:** *Acacia dealbata*

**DBH (cm):** 14

**Common Name:** Silver Wattle

**DaB (cm):** 18

**Tree Height (m):** 5

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

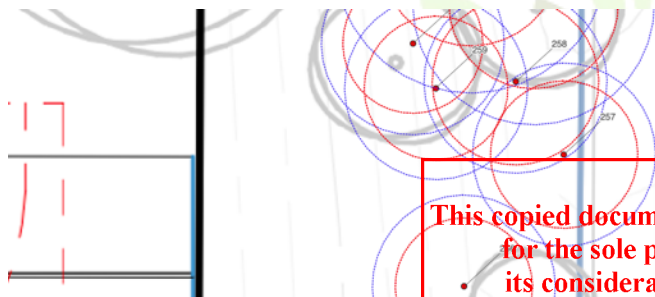
**TPZ (m):** 2

**SRZ (m):** 1.61

**Observations:** Growing close to powerlines. Poor location

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 258

**Botanical Name:** *Eucalyptus sp.*

**DBH (cm):** 13

**Common Name:** Gum

**DaB (cm):** 24

**Tree Height (m):** 5

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Low

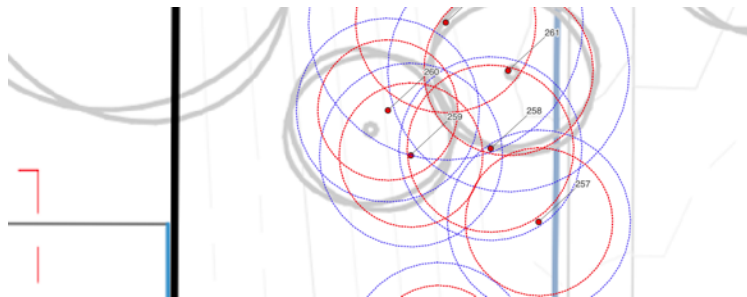
**TPZ (m):** 2

**SRZ (m):** 1.82

**Observations:**

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 259

**Botanical Name:** *Eucalyptus leucoxylon*

**DBH (cm):** 12

**Common Name:** Yellow Gum

**DaB (cm):** 17

**Tree Height (m):** 5

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Low

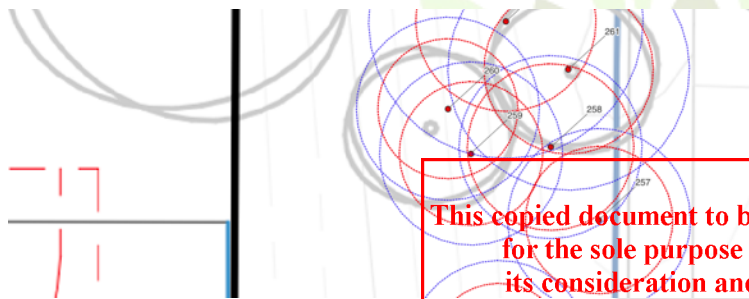
**TPZ (m):** 2

**SRZ (m):** 1.57

**Observations:**

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 260

**Botanical Name:** *Eucalyptus sideroxylon*

**DBH (cm):** 13

**Common Name:** Red Ironbark

**DaB (cm):** 16

**Tree Height (m):** 6

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Low

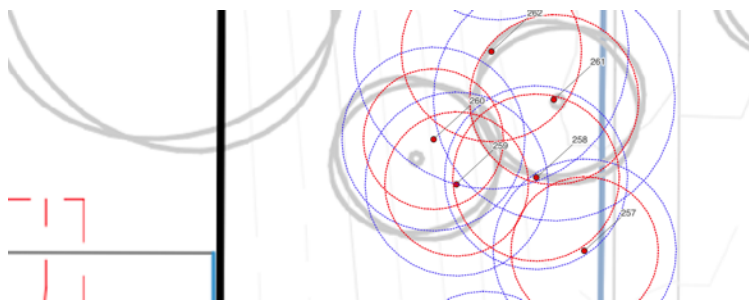
**TPZ (m):** 2

**SRZ (m):** 1.53

**Observations:** Leaning. Exudates. Wound.

**Encroachment:** None

**Retention Status:** Retain



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**Tree Id:** 261

**Botanical Name:** *Acacia pycnantha*

**DBH (cm):** 22

**Common Name:** Golden Wattle

**DaB (cm):** 25

**Tree Height (m):** 6

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Low

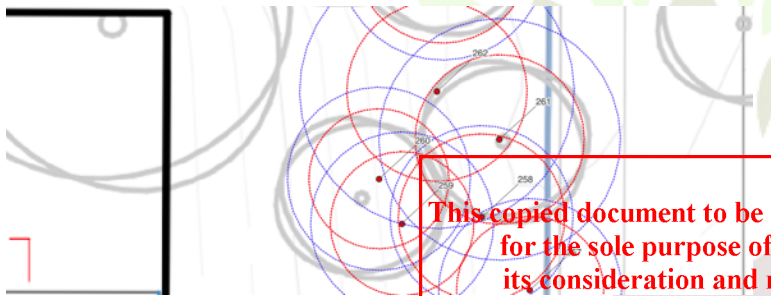
**TPZ (m):** 2.64

**SRZ (m):** 1.85

**Observations:** Dieback. Exudates.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 262

**Botanical Name:** *Eucalyptus leucoxylon*

**DBH (cm):** 25

**Common Name:** Yellow Gum

**DaB (cm):** 29

**Tree Height (m):** 7

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Low

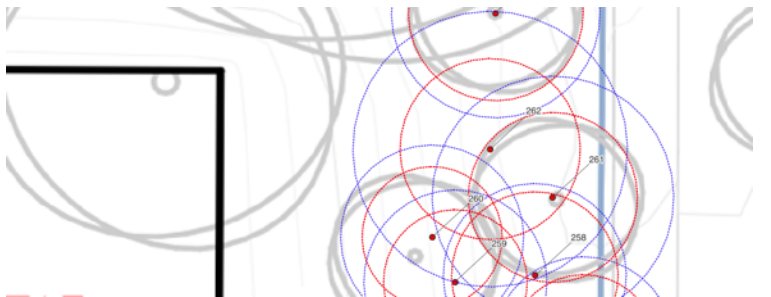
**TPZ (m):** 3

**SRZ (m):** 1.97

**Observations:** Wounds.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 263

**Botanical Name:** *Eucalyptus sideroxylon*

**DBH (cm):** 19

**Common Name:** Red Ironbark

**DaB (cm):** 27

**Tree Height (m):** 7

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Poor

**Origin:** Vic. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Low

**TPZ (m):** 2.28

**SRZ (m):** 1.91

**Observations:** Coppice regrowth.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 264

**Botanical Name:** *Acacia implexa*

**Common Name:** Lightwood

**Tree Height (m):** 5

**Canopy Spread (m):** 2

**Health:** Fair

**Structure:** Fair

**Origin:** Vic. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

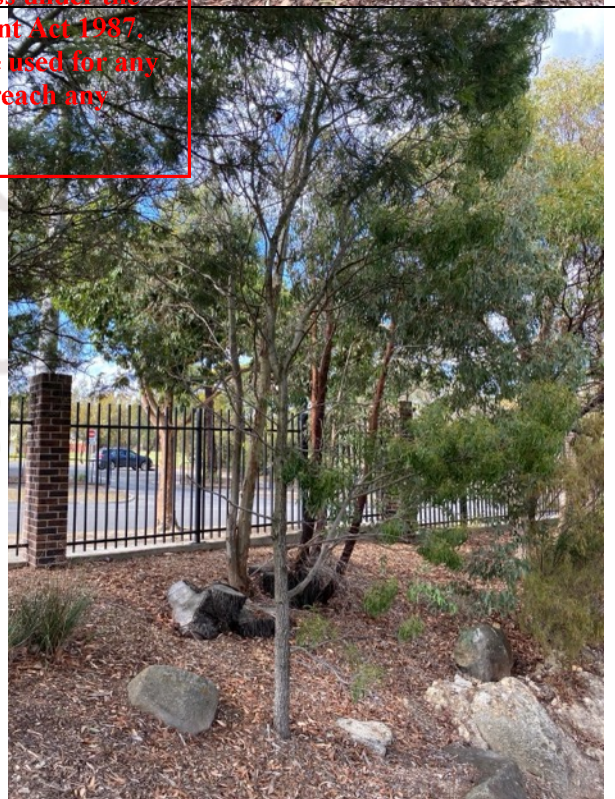
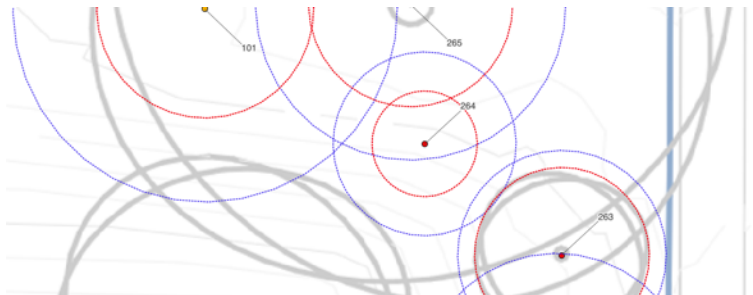
**TPZ (m):** 2

**SRZ (m):** 1.31

**Observations:**

**Encroachment:** None

**Retention Status:** Retain



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**Tree Id:** 265

**Botanical Name:** *Acacia mearnsii*

**DBH (cm):** 28.28

**Common Name:** Black Wattle

**DaB (cm):** 39

**Tree Height (m):** 7

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Poor

**Origin:** Vic. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Low

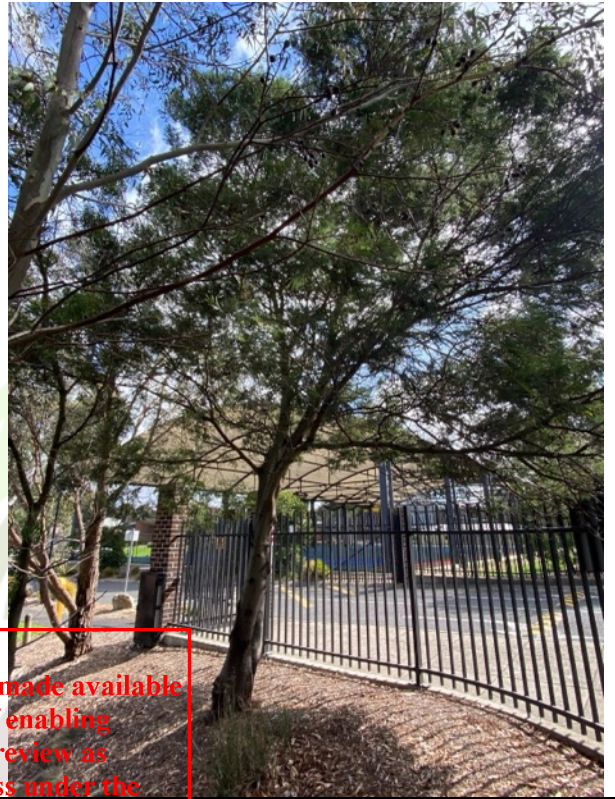
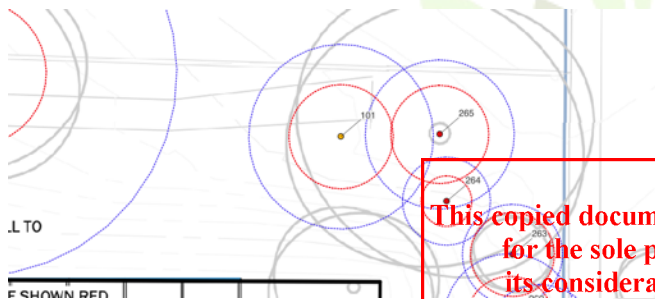
**TPZ (m):** 3.39

**SRZ (m):** 2.23

**Observations:** Exudates. Borer. Acute codominant stems.

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 286

**Botanical Name:** *Eucalyptus caesia* Silver Princess'

**Common Name:** Gungurru

**DBH (cm):** 14

**DaB (cm):** 20

**Tree Height (m):** 5

**Canopy Spread (m):** 4

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Medium

**Retention Value:** Low

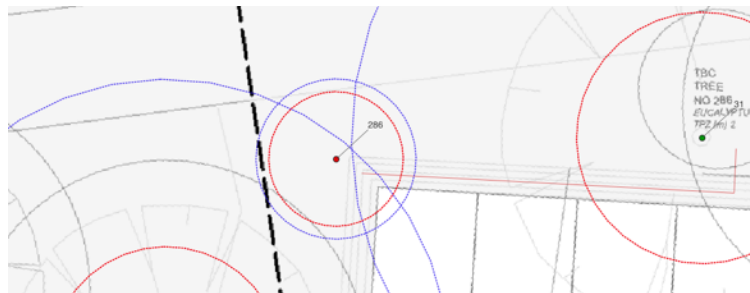
**TPZ (m):** 2

**SRZ (m):** 1.68

**Observations:** Wounds.

**Encroachment:** None

**Retention Status:** Retain







**Tree Id:** 296

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 7

**Common Name:** Gungurru

**DaB (cm):** 8

**Tree Height (m):** 2

**Canopy Spread (m):** 3

**Health:** Fair

**Structure:** Poor

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

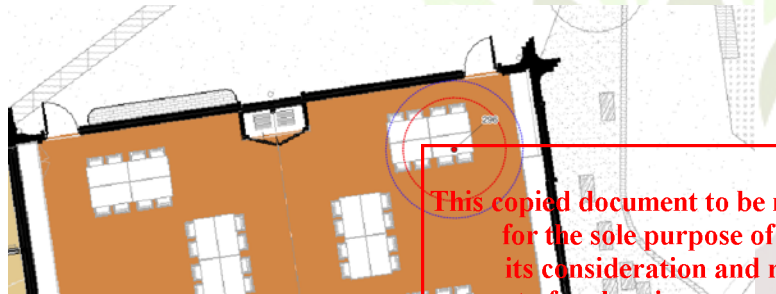
**TPZ (m):** 2

**SRZ (m):** 1.15

**Observations:** Root plate failure.

**Encroachment:** 100%

**Retention Status:** Remove



**Tree Id:** 297

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 13.89

**Common Name:** Gungurru

**DaB (cm):** 17

**Tree Height (m):** 4

**Canopy Spread (m):** 5

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Low

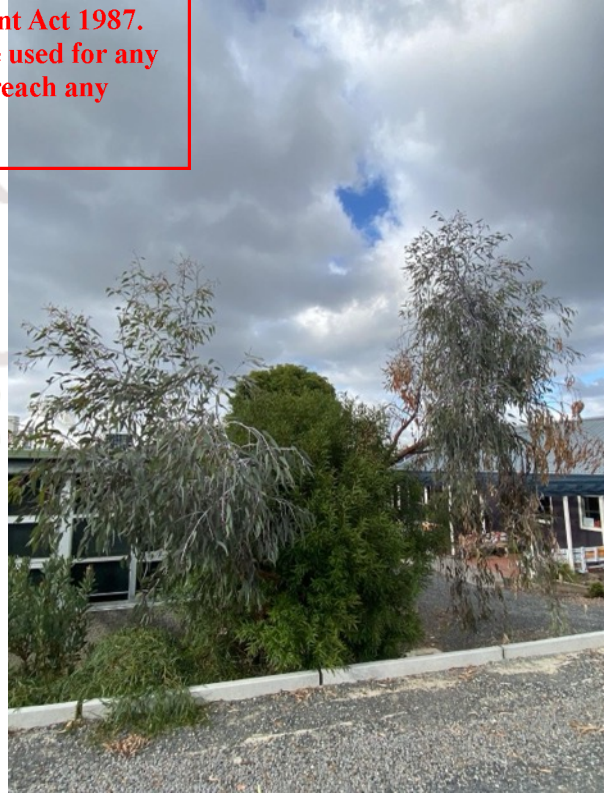
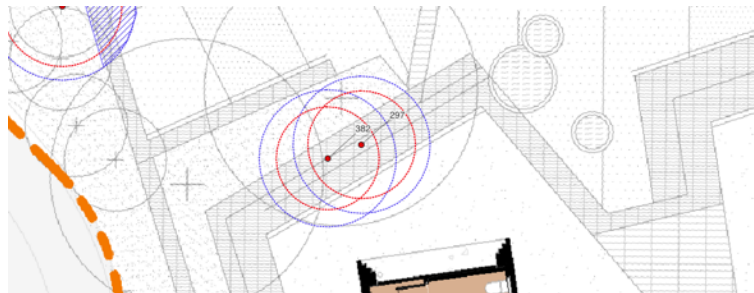
**TPZ (m):** 2

**SRZ (m):** 1.57

**Observations:** Poor pruning, dieback

**Encroachment:** 100%

**Retention Status:** Remove







**Tree Id:** 298

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 17.92

**Common Name:** Gungurru

**DaB (cm):** 15

**Tree Height (m):** 5

**Canopy Spread (m):** 6

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Short

**Retention Value:** Low

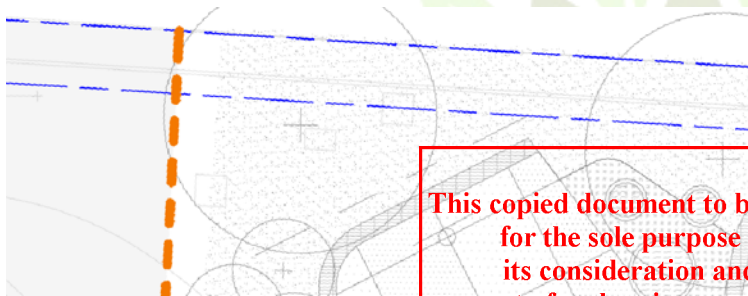
**TPZ (m):** 2.15

**SRZ (m):** 1.75

**Observations:** Poor pruning.

**Encroachment:** Major

**Retention Status:** Remove



**Tree Id:** 354

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 10

**Common Name:** Gungurru

**DaB (cm):** 16

**Tree Height (m):** 2

**Canopy Spread (m):** 4

**Health:** Fair

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

**TPZ (m):** 2

**SRZ (m):** 1.53

**Observations:** Encroaching structure. Root plate failure.

**Encroachment:** None

**Retention Status:** Retain



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**Tree Id:** 355

**Botanical Name:** *Eucalyptus caesia* 'Silver Princess'

**DBH (cm):** 15

**Common Name:** Gungurru

**DaB (cm):** 15

**Tree Height (m):** 6

**Canopy Spread (m):** 5

**Health:** Good

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Mature

**ULE:** Medium

**Retention Value:** Low

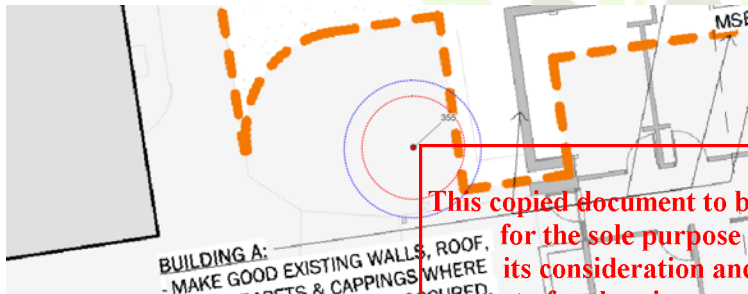
**TPZ (m):** 2

**SRZ (m):** 1.52

**Observations:** Encroaching structure

**Encroachment:** None

**Retention Status:** Retain



**Tree Id:** 382

**Botanical Name:** *Hakea salicifolia*

**Common Name:** Willow Hakea

**Tree Height (m):** 4

**Canopy Spread (m):** 6

**Health:** Good

**Structure:** Fair

**Origin:** Aus. Native

**Age:** Semi mature

**ULE:** Short

**Retention Value:** Low

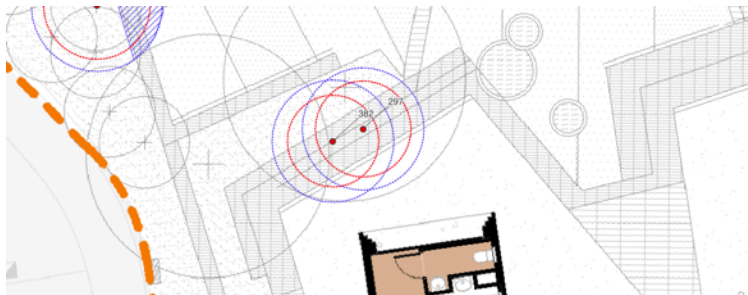
**TPZ (m):** 2

**SRZ (m):** 1.50

**Observations:** Weed species.

**Encroachment:** 100%

**Retention Status:** Remove



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**Tree Id:** 383

**Botanical Name:** *Acmena smithii* var. *minor* **DBH (cm):** 18

**Common Name:** Dwarf Lilly Pilly **DaB (cm):** 18

**Tree Height (m):** 5 **Canopy Spread (m):** 3

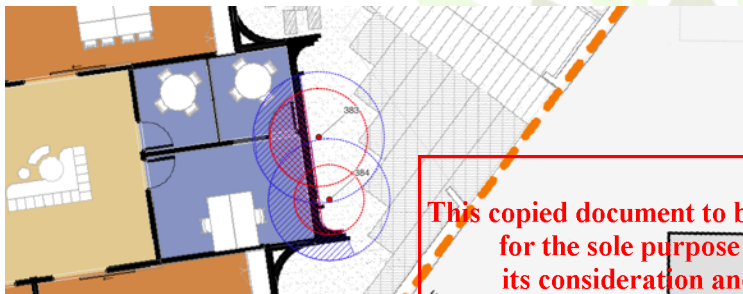
**Health:** Fair **Structure:** Poor

**Origin:** Aus. Native **Age:** Semi mature **ULE:** Short

**Retention Value:** Low **TPZ (m):** 2.16 **SRZ (m):** 1.61

**Observations:** Poor location. Coppice regrowth.

**Encroachment:** Major **Retention Status:** Remove



**Tree Id:** 384

**Botanical Name:** *Banksia integrifolia* **DBH (cm):** 5

**Common Name:** Coast Banksia **DaB (cm):** 8

**Tree Height (m):** 3 **Canopy Spread (m):** 1

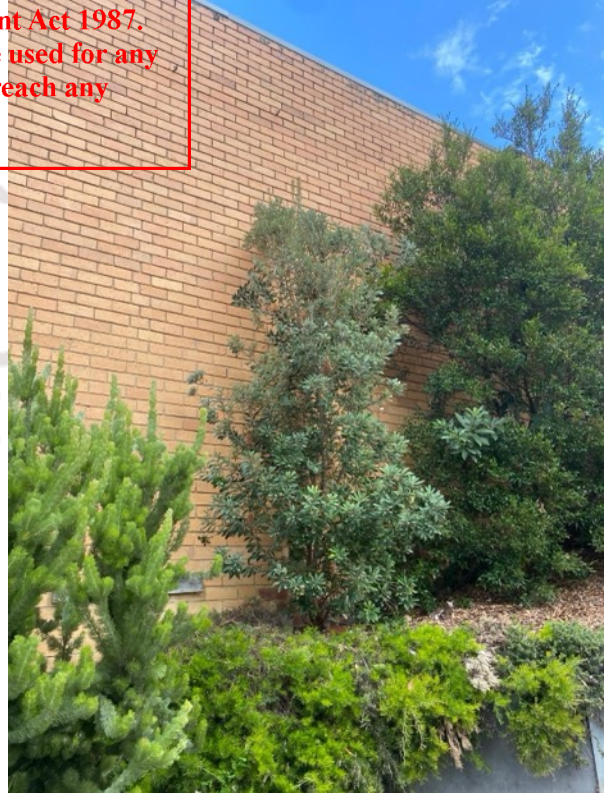
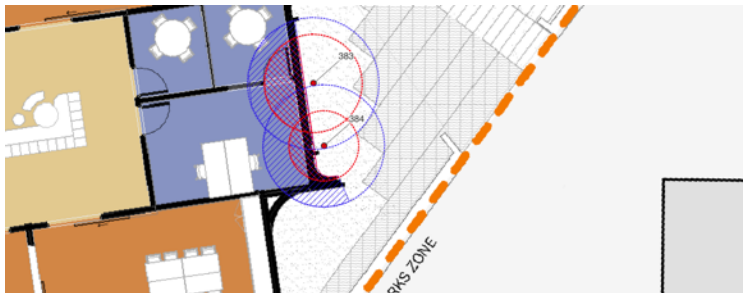
**Health:** Fair **Structure:** Fair

**Origin:** Vic. Native **Age:** Juvenile **ULE:** Short

**Retention Value:** Low **TPZ (m):** 2 **SRZ (m):** 1.5

**Observations:** Poor location.

**Encroachment:** Major **Retention Status:** Remove



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## Appendix B: Tree Protection Zones

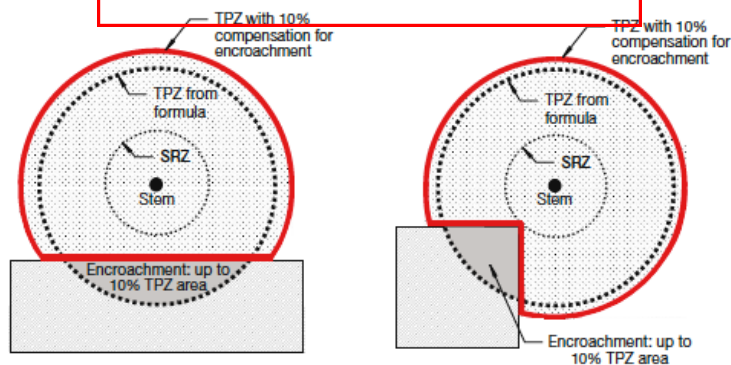
A Tree Protection Zone (TPZ), as stated by the Australian Standard AS4970-2009, Protection of trees on development sites, is the principal means of protection of trees on development site. The TPZ is a combination of the root area and crown area requiring protection. It is an area isolated from construction disturbance, so that the tree remains viable.

The Australian Standard AS4970-2009 is being used in assessing the protection areas for each tree as it describes the best practices for the planning and protection of trees on development sites.

In calculating the radius for the Tree Protection Zones (TPZ), the DBH, measured at 1.4m from the ground, is multiplied by 12. The TPZ requirements are as follows:

- If the TPZ is encroached by less than 10%, the Australian Standard AS4970-2009 states: *detailed root investigations should not be required*
- If the TPZ is encroached by more than 10%, the Australian Standard AS4970-2009 states: *the project Arborist must demonstrate that the tree(s) would remain viable. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ.*

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Examples of encroachment (AS4970-2009)

## Appendix C: Tree Protection Measures

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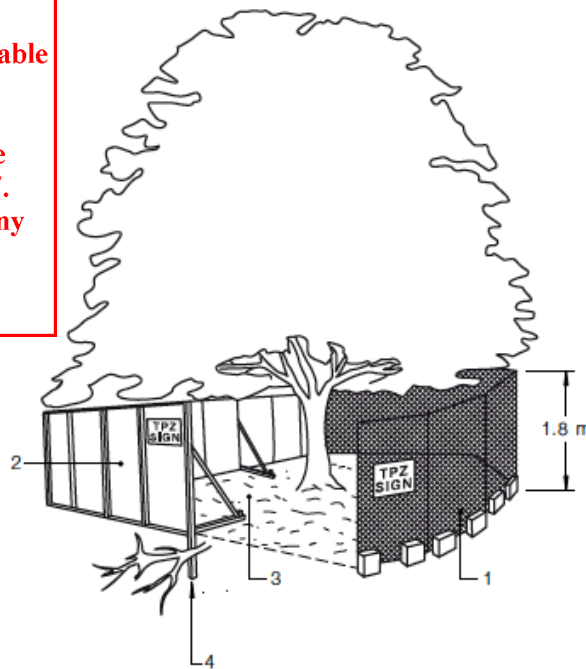


- Signs identifying the TPZ should be placed around the edge of the TPZ and be visible from within the development site.
- Fencing should be erected before any machinery or materials are brought onto the site and before the commencement of works including demolition. Once erected, protective fencing must not be removed or altered without approval by the project arborist. The TPZ should be secured to restrict access.



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**LEGEND:**

- 1 Chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
- 2 Alternative plywood or wooden paling fence panels. This fencing material also prevents building materials or soil entering the TPZ.
- 3 Mulch installation across surface of TPZ (at the discretion of the project arborist). No excavation, construction activity, grade changes, surface treatment or storage of materials of any kind is permitted within the TPZ.
- 4 Bracing is permissible within the TPZ. Installation of supports should avoid damaging roots.

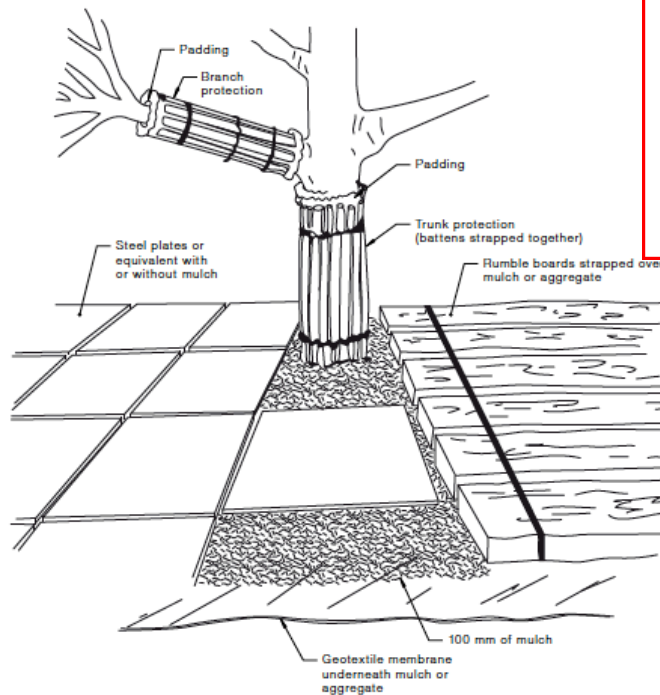
**Example of fencing (AS4970: 2009)**

- If the TPZ is to be encroached by construction, manual excavation of the roots is to be carried out under the supervision of the project arborist to identify roots critical to tree stability.





- No roots greater than 25mm are to be cut unless supervised by the project arborist.
- Roots should be pruned with sharp tools such as secateurs, handsaws or chainsaws.
- No roots within the TPZ are to be cut with machinery such as backhoes or excavators.
- Where roots are exposed, temporary root protection should be installed to prevent them drying out. Hessian sheeting as multiple layers on exposed roots would reduce the loss of moisture.
- All services should be routed outside the TPZ. If underground services are to be routed through the TPZ, they should be installed by directional drilling or manually excavated trenches. Directional boring should be at least 600mm deep.
- If temporary access for machinery is required within the TPZ ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Measures may include a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rock below rumble board.



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## Ground Protection (AS4970: 2009)

- Activities generally excluded from the TPZ include but are not limited to:
  - Machine excavation including trenching
  - Excavation for silt fencing
  - Storage
  - Preparation of chemicals, including preparation of cement products
  - Parking of vehicles and plant
  - Refueling



- Dumping of waste
- Wash down and cleaning of equipment
- Placement of fill
- Lighting of fires
- Soil level changes
- Temporary or permanent installation of utilities and signs
- Physical damage to the tree

## Appendix D: Glossary of Terms

### Age

Juvenile	Juvenile or recently planted approximately 1-7 years.
Semi Mature	Tree actively growing.
Mature	Tree has reached expected size in situation.
Senescent	Tree is over mature and has started to decline.

### Origin

Indigenous	Trees that are naturally occurring within a subject site or within this municipality of the subject tree available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987.
Victorian native	Trees that are naturally occurring within Victoria
Australian native	Trees that are naturally occurring within Australia
Exotic	Trees that are not naturally occurring to any part of Australia

### USEFUL LIFE EXPECTANCY ULE

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The useful life of a tree is an estimate of how long a tree is likely to remain in the landscape based on health, amenity and risk.

### Long ULE

Trees that appear to be retainable with an acceptable level of risk for more than 40 years.

1. Structurally sound trees located in positions that can accommodate future growth.
2. Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery.
3. Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.

### Medium ULE

Trees that appear to be retainable with an acceptable level of risk for 15 to 40 years.

1. Trees that may only live between 15 and 40 years.

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2. Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals.
3. Trees that may live for more than 40 years but would be removed during the course of normal management for safety and nuisance reasons.
4. Storm damage or defective trees that can be made suitable for retention in the medium term by remedial work.

**Short ULE** Trees that appear to be retainable with an acceptable level of risk for 5 to 15 years.

1. Trees that may live for 5 to 15 years.
2. Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals.
3. Trees that may live for more than 15 years but would be removed during the course of normal management for safety and nuisance reasons.
4. Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.

**0-5 Years** Trees with a high level of risk that would need removal within the next 5 years.

1. Dead trees.
2. Dying or suppressed and declining trees through disease or inhospitable conditions.
3. Dangerous trees through instability or recent loss of adjacent trees.
4. Dangerous trees through structural defects including cavities, decay, included bark, wounds or poor form.
5. Damaged trees that are considered unsafe to retain.
6. Trees that will become dangerous after removal of other trees for the above reasons.

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## Condition

This is a combined indicator of 'health' and 'structure' based on the following descriptors:

### Health

- Good** Foliage of tree is entire, with good colour, very little sign of pathogens and of good density. Growth indicators are good ie. Extension growth of twigs and wound wood development. Minimal or no canopy die back (deadwood).
- Fair** Tree is showing one or more of the following symptoms; < 25% dead wood, minor canopy die back, foliage generally with good colour though some imperfections may be present. Minor



pathogen damage present, with growth indicators such as leaf size, canopy density and twig extension growth typical for the species in this location.

<b>Poor</b>	Tree is showing one or more of the following symptoms of tree decline; > 25% deadwood, canopy die back is observable, discoloured or distorted leaves. Pathogens present, stress symptoms are observable as reduced leaf size, extension growth and canopy density.
<b>Dead</b>	No vascular function.
<b>Structure</b>	
<b>Good</b>	Trunk and scaffold branches show good taper and attachment with minor or no structural defects. Tree is a good example of the species with a well-developed form showing no obvious root problems or pests and diseases.
<b>Fair</b>	Tree shows some minor structural defects or minor damage to trunk eg. bark missing, there could be cavities present. Minimal damage to structural roots. Tree could be seen as typical for this species.
<b>Poor</b>	Tree has major structural defects, damage to trunk or bark missing. Co-dominant stems could be present or poor structure with likely points of failure. Girdling or damaged roots obvious. Tree is structurally problematic.

## Retention Value

- **Exceptional** - trees must be retained at all costs
  - A tree has horticultural, social, historical or cultural value.
  - A tree that has outstanding habitat value.
  - A tree that is an outstanding size for the species.
  - A tree that is remnant.
  - A tree species that is endangered.
- **High** - trees should be considered for retention wherever possible
  - A tree that is in good-fair health and structure with a long ULE.
  - A tree that is in good health, with good structure, is semi mature or mature, and with a medium ULE.
  - A tree that has cultural, botanical, or landscape significance.

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- **Medium** - trees should be considered for retention wherever possible but should not pose a material constraint to site development
  - A tree that is in fair health and structure, is semi mature, and with a medium ULE.
  - A tree that is in poor health or poor structure, is mature, and with a medium or short ULE.
- **Low** - trees should be removed
  - A tree that is in poor health and structure with a short ULE.
  - Weed species.
- **Third Party** – trees are third party assets and must be retained at all costs.
  - A tree that is located on adjoining properties.

## Appendix E: References

- Mattheck, C. and Breleor, H., 1994, *The body language of trees*, The Stationery Office, London, UK.
- Standards Australia 2007 SA Global to AS 4373-2007 *Pruning of Amenity Trees*
- Standards Australia 2009 SA Global to AS 4970-2009 *Protection of Trees on Development Sites*

## Appendix F: Qualifications and Experience

Christopher Rayner-Wigg has the following qualifications and experience:  
Graduate Certificate in Arboriculture  
Certificate III in Arboriculture  
QTRA (Quantified Risk Assessment) registered user  
10 years combined horticultural and arboricultural industry experience

## Appendix G: Report Limitations and Constraints

- The report is limited to the time of inspection.
- The report reflects the trees as found on the days of inspection. Any changes to site conditions or surroundings, such as construction works or landscape works may alter the findings of the report subject to conditions and recommendations as set out within the report.
- The report is based on the inspection and the material available at the time of inspection or that information further to the inspection found within the report.
- No soil samples were taken for laboratory analysis.



- Tree roots were not inspected below ground except where previously exposed and/or where otherwise stated within the report.
- Measurements may be approximates only and generally not to scale.
- All images supplied are interpretations only and should not be taken as true at time of inspection or indicative of tree condition or status at time of inspection or time of report release, inclusive of Google images if applicable

## Appendix H: Disclaimer

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