Birds Tree Consultancy

 $Consulting \ Arborist \ AQF5 \bullet Expert \ Witness \bullet Environmental \ Arboriculture \bullet Resistograph \ Testing$



ARBORICULTURAL DEVELOPMENT IMPACT ASSESSMENT REPORT

1 Gatacre Avenue, Lane Cove NSW

REVISION E 22nd April 2024

Prepared for

Winim Developments

Prepared by

Birds Tree Consultancy

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Executive Summary

This Arboricultural Development Impact Assessment Report has been commissioned by Winim Developments to report on trees within the site of 1 Gatacre Avenue, 5 Allison Avenue Lane Cove NSW. The subject trees are located within the boundaries of this site. This site is currently a vacant motel facility with existing motel buildings present and an existing residential dwelling on 5 Allison Avenue. The site is proposed for redevelopment including the demolition of the existing buildings and construction of new multistory residential buildings, entry roads, and associated landscape works. This report has been commissioned to outline the health, condition and stability of these trees as well as their viability for retention within the scope of the proposed development. The scope of this report includes all trees within areas that may be impacted by the proposed development.

The subject Trees are preserved under Part J Section 2.2 of Lane Cove Development Control Plan 2010.

Trees 1, 2, 3, 4 are in fair and declining condition and consequently have reduced retention value.

The Tree protection Zone (TPZ) of Trees 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33 are encroached by the proposed construction and required earthworks by a total or major encroachment as defined by *AS4970-2009 Protection of Trees on Development Sites*. These trees will not be viable to be retained and will be required to be removed due to the proposed development.

The TPZ of Tree 13 is encroached by slightly greater than a minor encroachment as defined by AS4970-2009. slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will remain viable to be retained under the proposed development.

Demolition works are required within the TPZ of Tree 13. A site-specific Tree Protection Plan is required to be prepared prior to site works commencing outlining the tree protection measures to protect Trees 13, 14, 15 and 16 during demolition and construction works. These tree protection measures are required to comply with section 8.0 of this report, *AS4970-2009* and is to include the following:

- 1. Tree Protection Fencing in accordance with 8.4,
- 2. Trunk and branch protection in accordance with 8.7,
- 3. All demolition works within the TPZ are to be under the supervision and direction of the Project Arborist in accordance with 8.3,
- 4. All excavation within the TPZ is to be carried out using nondestructive methods including manual excavation, Air Spade or Vacuum truck operating at less than 1000Psi,
- 5. Removal of existing slabs and footings within the TPZ is to be conducted under the supervision of the Project Arborist with no mechanical excavation below the existing base levels, all concrete to be "peeled" or lifted from within the TPZ, do digging or dragging of concrete.

All other trees are viable to be retained and are to be protected as defined below.

Of the 32 trees located on the subject site, three (3) trees remain viable to be retained and 29 are not viable to be retained due to the proposed development. One tree within this report is located in the public domain in front of the proposed development and this tree remains viable to be retained. All trees on neighbouring adjacent sites remain viable to be retained.

Recommendations for tree retention or removal are summarised as follows:

Tree no.	Species	Recommendations	Comments
1.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
2.	Thuja occidentalis	Remove	Not viable to be retained due to the proposed development.
3.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
4.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
5.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
6.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
7.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
8.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
9.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
10.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
11.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
12.	Cupressus sempervirens	Remove	Not viable to be retained due to the proposed development.
13.	Araucaria columnaris	Retain	Viable to be retained and protected in accordance with 8.0.
14.	Cupressus torulosa	Retain	Viable to be retained and protected in accordance with 8.0.
15.	Lophostemon confertus	Retain	Viable to be retained and protected in accordance with 8.0.
16.	Pittosporum undulatum	Retain	Viable to be retained and protected in accordance with 8.0.
17.	Viburnum odoratissimum	Remove	Not viable to be retained due to the proposed development.

18.	Syzygium luehmannii	Remove	Not viable to be retained due to the proposed development.
19.	Syzygium luehmannii	Remove	Not viable to be retained due to the proposed development.
20.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
21.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
22.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
23.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
24.	Syzygium luehmannii	Remove	Not viable to be retained due to the proposed development.
25.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
26.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
27.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
28.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
29.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
30.	Glochidion ferdinandii	Remove	Not viable to be retained due to the proposed development.
31.	Michelia figo	Remove	Not viable to be retained due to the proposed development.
32.	Jacaranda mimosifolia	Remove	Not viable to be retained due to the proposed development.
33.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
34.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
35.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
36.	Livistona australis	Retain	Viable to be retained and protected in accordance with 8.0.
37.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
38.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.

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1.0 Scope of Works

This Arboricultural Development Impact Assessment Report has been commissioned by Winim Developments to report on trees within the site of 1 Gatacre Avenue, 5 Allison Avenue Lane Cove NSW. It has been commissioned to outline the health, condition and stability of these trees as well as their viability for retention within the scope of the proposed development. The scope of this report includes all trees within areas that may be impacted by the proposed development.

On the 4th of November 2023, Glenn Bird of Birds Tree Consultancy attended site and inspected the subject trees from the ground. There was no aerial inspection carried out. A Visual Tree Assessment was undertaken in accordance with Visual Tree Assessment (VTA) guidelines (Mattheck and Breloer, 1994). Tree heights were measured using a Nikon Forestry 550 Heightmeter.

2.0 Site Analysis

2.1 Site

The subject site is 1 Gatacre Avenue, 5 Allison Avenue Lane Cove NSW. The subject trees are located within the boundaries of this site. This site is currently a vacant motel facility with existing motel buildings present and an existing residential dwelling on 5 Allison Avenue. The site is proposed for redevelopment including the demolition of the existing buildings and construction of new multistory residential buildings, entry roads, and associated landscape works.

2.2 Documentation

This Development Impact Assessment Report has been compiled based on the following documentation provided:

- 1. PBD Architects Basement 2 Floor Plan DA 100 Issue P7A Dated 12/04/2024
- 2. PBD Architects Basement 1 Floor Plan DA 101 Issue P7A Dated 12/04/2024
- 3. PBD Architects Ground Floor Plan DA 102 Issue P7A Dated 12/04/2024
- PBD Architects Upper Ground Floor Plan DA 103 Issue P7A Dated 12/04/2024
- 5. PBD Architects Level 1 Plan DA 104 Issue P7A Dated 12/04/2024
- 6. PBD Architects Level 2 Plan DA 105 Issue P7A Dated 12/04/2024
- 7. PBD Architects Level 3 Plan DA 106 Issue P7A Dated 12/04/2024
- 8. PBD Architects Level 4 Plan DA 107 Issue P7A Dated 12/04/2024
- 9. PBD Architects Roof Plan DA 108 Issue P7A Dated 12/04/2024
- 10. Arcadia Landscape Architecture DA Pack issue C dated 05/04/2024
- 11. Civil Stormwater Engineering Group Site Plan SW-202 Rev 03 dated 05/04/2024.
- 12. Civil Stormwater Engineering Group Upper Ground Floor SW-203 Rev 03 dated 05/04/2024.

2.3 Topography

The site slopes significantly from the highest point on the northern boundary on the Gatacre Avenue frontage to the lowest point at the southern corner of the site on the Allison Avenue frontage. There is an existing masonry retaining wall on the boundary

between the subject site and the properties on 7 Allison Avenue and 2a Gatacre Avenue. Refer to detailed survey for detailed levels.

2.4 Identification

Trees are as identified in the attached inspection forms in Appendix C and shown in Tree location Plan A01 in Appendix D.

2.5 Soils

Soil material and horizons were not tested for this report.

3.0 Existing Trees

The following trees were inspected from the ground and the following items identified. Please refer also to the attached inspection data in Appendix C.

3.1. Tree 1. Elaeocarpus reticulatus

This mature tree is approximately 9m tall with a canopy spread of 4m. It has a single trunk with a prominent lean to the east and a diameter at breast height (DBH) of 190mm. This tree is in fair health and condition with a thinning canopy, moderate deadwood and minimal epicormic growth.

3.2. Tree 2. Thuja occidentalis

This mature tree is approximately 12m tall with a canopy spread of 6m. It has a single trunk with a DBH of 350mm. This tree is in fair health and condition, with minimal deadwood and epicormic growth.

3.3. Tree 3. Elaeocarpus reticulatus

This mature tree is approximately 6m tall with a canopy spread of 3m. It has a single trunk with a DBH of 120mm. This tree is in fair health and condition with a thinning canopy, moderate deadwood and minimal epicormic growth.

3.4. Tree 4. Elaeocarpus reticulatus

This mature tree is approximately 11m tall with a canopy spread of 5m. It has a single trunk with a DBH of 250mm. This tree is in fair health and condition with a thinning canopy, significant deadwood and minimal epicormic growth.

3.5. Tree 5. Elaeocarpus reticulatus

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk with a DBH of 150mm. This tree is in fair health and condition, with minimal deadwood and epicormic growth.

3.6. Tree 6. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 120mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.7. Tree 7. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 200mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.8. Tree 8. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 130mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.9. Tree 9. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 130mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.10. Tree 10. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 320mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.11. Tree 11. Cupressus sempervirens 'stricta'

This mature tree is approximately 11m tall with a canopy spread of 2m. It has a single trunk with a DBH of 120mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.12. Tree 12. Cupressus sempervirens

This mature tree is approximately 15m tall with a canopy spread of 5m. It has a single trunk with a DBH of 430mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.13. Tree 13. Araucaria columnaris

This mature tree is approximately 19m tall with a canopy spread of 6m. It has a single trunk with a DBH of 630mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.14. Tree 14. Cupressus torulosa

This mature tree is approximately 16m tall with a canopy spread of 6m. It has a single trunk with a DBH of 450mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.15. Tree 15. Lophostemon confertus

This mature tree is approximately 15m tall with a canopy spread of 8m. It has a single trunk with a DBH of 580mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.16. Tree 16. Pittosporum undulatum

This mature tree is approximately 7m tall with a canopy spread of 3m. It has a single trunk with a DBH of 100mm. This tree is in poor health and condition, with a sparse canopy, significant deadwood and minimal epicormic growth.

3.17. Tree 17. Viburnum odoratissimum

This mature tree is approximately m tall with a canopy spread of m. It has multiple co-dominant trunks from the base with an aggregate diameter at breast height (DBH) of mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

3.18. Tree 18. Syzygium luehmannii

This mature tree is approximately 8m tall with a canopy spread of 4m. It has a single trunk with a DBH of 100mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.19. Tree 19. Syzygium luehmannii

This mature tree is approximately 8m tall with a canopy spread of 4m. It has a single trunk with a DBH of 190mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.20. Tree 20. Camellia sasanqua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 140mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.21. Tree 21. Camellia sasangua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 150mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.22. Tree 22. Camellia sasangua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 80mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.23. Tree 23. Camellia sasangua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 130mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.24. Tree 24. Syzygium luehmannii

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 90mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.25. Tree 25. Camellia sasangua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 100mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.26. Tree 26. Camellia sasangua

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 80mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.27. Tree 27. Cupressocyparis leylandii

This mature tree is approximately 12m tall with a canopy spread of 8m. It has a single trunk with a DBH of 380mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.28. Tree 28. Cupressocyparis leylandii

This mature tree is approximately 12m tall with a canopy spread of 8m. It has a single trunk with a DBH of 270mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.29. Tree 29. Cupressocyparis leylandii

This mature tree is approximately 12m tall with a canopy spread of 8m. It has a single trunk with a DBH of 340mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.30. Tree 30. Glochidion ferdinandii

This mature tree is approximately 10m tall with a canopy spread of 6m. It has a single trunk with a DBH of 220mm. This tree is in poor health and condition, with minimal deadwood and epicormic growth.

3.31. Tree 31. Michelia figo

This mature tree is approximately 7m tall with a canopy spread of 6m. It has multiple co-dominant trunks from the base with an aggregate DBH of 251mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.32. Tree 32. Jacaranda mimosifolia

This mature tree is approximately 10m tall with a canopy spread of 12m. It has multiple co-dominant trunks from the base with an aggregate DBH of 627mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.33. Tree 33. Elaeocarpus reticulatus

This mature tree is approximately 9m tall with a canopy spread of 5m. It has a single trunk with a DBH of 180mm. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.34. Tree 34. Archontophoenix cunninghamiana

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.35. Tree 35. Archontophoenix cunninghamiana

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.36. Tree 36. Livistona australis

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.37. Tree 37. Archontophoenix cunninghamiana

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk. This tree is in good health and condition, with minimal deadwood and epicormic growth.

3.38. Tree 38. Archontophoenix cunninghamiana

This mature tree is approximately 12m tall with a canopy spread of 4m. It has a single trunk. This tree is in good health and condition, with minimal deadwood and epicormic growth.

4.0 Landscape Significance of Trees

4.1 Landscape Significance

The significance of a tree within the landscape is a factor of the health and condition of the tree, vitality, the form of the tree, environmental, cultural, amenity and heritage value.

4.2 Methodology of Determining Landscape Significance

For the purpose of this report, the Significance of a Tree, Assessment Rating System (STARS) as developed by the Institute of Australian Consulting Arborists (IACA) has been implemented. Please refer to Appendix A for greater detail of this assessment system. This system defines Landscape Significance for individual trees as High, Medium or Low Significance.

4.3 Landscape Significance of Subject Trees

Based on our assessment of the subject trees and implementation of the IACA Significance of a Tree, Assessment Rating System, the Landscape Significance of the Subject Trees was determined as shown in Table 1.

Tree no.	Species	Landscape Significance
1.	Elaeocarpus reticulatus	Medium
2.	Thuja occidentalis	Medium
3.	Elaeocarpus reticulatus	Medium

4.	Elaeocarpus reticulatus	Medium
5.	Elaeocarpus reticulatus	Medium
6.	Cupressus sempervirens 'stricta'	Medium
7.	Cupressus sempervirens 'stricta'	Medium
8.	Cupressus sempervirens 'stricta'	Medium
9.	Cupressus sempervirens 'stricta'	Medium
10.	Cupressus sempervirens 'stricta'	Medium
11.	Cupressus sempervirens 'stricta'	Medium
12.	Cupressus sempervirens	Medium
13.	Araucaria columnaris	High
14.	Cupressus torulosa	Medium
15.	Lophostemon confertus	High
16.	Pittosporum undulatum	Medium
17.	Viburnum odoratissimum	Medium
18.	Syzygium luehmannii	Medium
19.	Syzygium luehmannii	Medium
20.	Camellia sasanqua	Medium
21.	Camellia sasanqua	Medium
22.	Camellia sasanqua	Medium
23.	Camellia sasanqua	Medium
24.	Syzygium luehmannii	Medium
25.	Camellia sasanqua	Medium
26.	Camellia sasanqua	Medium
27.	Cupressocyparis leylandii	Low
28.	Cupressocyparis leylandii	Low
29.	Cupressocyparis leylandii	Low
30.	Glochidion ferdinandii	Medium
31.	Michelia figo	Medium
32.	Jacaranda mimosifolia	Medium
33.	Elaeocarpus reticulatus	Medium
34.	Archontophoenix cunninghamiana	Medium
35.	Archontophoenix cunninghamiana	Medium
36.	Livistona australis	Medium
37.	Archontophoenix cunninghamiana	Medium
38.	Archontophoenix cunninghamiana	Medium

Table 1 - Landscape Significance

5.0 Subject Tree Retention Value

5.1 Tree Retention Value Methodology

For the purpose of this report, the Tree Retention Values have been assessed by incorporating Landscape Significance Values as determined in 4.0 with the Useful Life Expectancy of the subject trees and assessing the retention values based on the Tree Retention Value Priority Matrix as developed by the Institute of Australian Consulting Arborists (IACA). Please refer to Appendix B for greater detail on this Tree

Retention Value Priority Matrix. This matrix defines Landscape Significance for individual trees as High, Medium or Low Retention Value as well as Priority for Removal.

5.2 Retention Value of Subject Trees

Based on our assessment of the subject trees and implementation of the IACA Tree Retention Value Priority Matrix, the Retention Values of the Subject Trees were determined as shown in Table 2.

Tree no. Species		Retention Value
1.	Elaeocarpus reticulatus	Medium
2.	Thuja occidentalis	Medium
3.	Elaeocarpus reticulatus	Medium
4.	Elaeocarpus reticulatus	Medium
5.	Elaeocarpus reticulatus	Medium
6.	Cupressus sempervirens 'stricta'	Medium
7.	Cupressus sempervirens 'stricta'	Medium
8.	Cupressus sempervirens 'stricta'	Medium
9.	Cupressus sempervirens 'stricta'	Medium
10.	Cupressus sempervirens 'stricta'	Medium
11.	Cupressus sempervirens 'stricta'	Medium
12.	Cupressus sempervirens	Medium
13.	Araucaria columnaris	High
14.	Cupressus torulosa	Medium
15.	Lophostemon confertus	High
16.	Pittosporum undulatum	Low
17.	Viburnum odoratissimum	Medium
18.	Syzygium luehmannii	Medium
19.	Syzygium luehmannii	Medium
20.	Camellia sasanqua	Medium
21.	Camellia sasanqua	Medium
22.	Camellia sasanqua	Medium
23.	Camellia sasanqua	Medium
24.	Syzygium luehmannii	Medium
25.	Camellia sasanqua	Medium
26.	Camellia sasanqua	Medium
27.	Cupressocyparis leylandii	Low
28.	Cupressocyparis leylandii	Low
29.	Cupressocyparis leylandii	Low
30.	Glochidion ferdinandii	Medium
31.	Michelia figo	Medium
32.	Jacaranda mimosifolia	Medium
33.	Elaeocarpus reticulatus	Medium
34.	Archontophoenix cunninghamiana	Medium
35.	Archontophoenix cunninghamiana	Medium

36.	Livistona australis	Medium
37.	Archontophoenix cunninghamiana	Medium
38.	Archontophoenix cunninghamiana	Medium

Table 2 - Tree Retention Value

6.0 Impact of Development

6.1 Tree Protection Zone

Tree Protection Zones (TPZs) have been defined for the subject trees in order to define the encroachment of the proposed development in accordance with *AS4970-2009*. The TPZs required have been taken as a circular area with a radius 12 x the diameter at breast height of the tree. This requirement is in line with Australian Standard AS 4970-2009 Protection of Trees on Development Sites. This standard defines a maximum of 10% encroachment to be minimal encroachment. Any encroachment over 10% requires the site arborist to give consideration as to the viability of the tree due to the proposed development.

6.2 Structural Root Zone

Structural Root Zone (SRZs) are defined by AS4970-2009 as the area of root development required for the structural stability of the tree. The SRZ is required to be assessed only when an encroachment greater than 10% is considered.

Tree no.	Species	TPZ Radius (m)	Encroachment (%)	SRZ Radius (m)
1.	Elaeocarpus reticulatus	2.28	100	1.85
2.	Thuja occidentalis	4.2	100	2.43
3.	Elaeocarpus reticulatus	2	100	1.45
4.	Elaeocarpus reticulatus	3	100	2
5.	Elaeocarpus reticulatus	2	100	1.94
6.	Cupressus sempervirens 'stricta'	2	100	1.61
7.	Cupressus sempervirens 'stricta'	2.4	100	1.94
8.	Cupressus sempervirens 'stricta'	2	100	1.61
9.	Cupressus sempervirens 'stricta'	2	100	1.68
10.	Cupressus sempervirens 'stricta'	3.84	100	2.15

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11.	Cupressus sempervirens 'stricta'	2	100	1.53
12.	Cupressus sempervirens	5.16	100	2.43
13.	Araucaria columnaris	7.56	14	2.9
14.	Cupressus torulosa	5.4	8	2.51
4.5	Lophostemon	6.06		2.76
15.	confertus	6.96	0	2.76
1.0	Pittosporum			4.45
16.	undulatum	2	0	1.45
	Viburnum		400	2.12
17.	odoratissimum	3.24	100	2.13
18.	Syzygium luehmannii	2	100	1.49
19.	Syzygium luehmannii	2.28	100	1.85
20.	Camellia sasanqua	2	100	1.68
21.	Camellia sasanqua	2	100	1.68
22.	Camellia sasanqua	2	100	1.45
23.	Camellia sasangua	2	100	1.68
24.	Syzygium luehmannii	2	100	1.4
25.	Camellia sasanqua	2	100	1.49
26.	Camellia sasanqua	2	100	1.36
	Cupressocyparis		100	
27.	leylandii	2 2		2.37
20	Cupressocyparis	2.24	100	2.4
28.	leylandii	3.24		2.1
	Cupressocyparis		100	
29.	leylandii	2 2 2 2 2 2 2 4.56		2.25
30.	Glochidion ferdinandii	2.64	100	1.94
31.	Michelia figo	3.01	100	2.13
22	Jacaranda	7.50	100	2.76
32.	mimosifolia	7.52		2.76
22	Elaeocarpus	2.46	100	
33.	reticulatus	2.16		
2.4	Archontophoenix	2.5	0	N1 / A
34.	cunninghamiana	2.5	0	N/A
25	Archontophoenix	2.5	0	NI / A
35.	cunninghamiana	4.08		N/A
36.	Livistona australis	2.5	0	N/A
37.	Archontophoenix	2.5	0	
37.	cunninghamiana	2.5		N/A
38.	Archontophoenix	2.5	0	N/A
38.	cunninghamiana	2.5		IN/A
			•	•

7.0 Recommendations

The subject Trees are preserved under Part J Section 2.2 of Lane Cove Development Control Plan 2010.

Trees 1, 2, 3, 4 are in fair and declining condition and consequently have reduced retention value.

The Tree protection Zone (TPZ) of Trees 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33 are encroached by the proposed construction and required earthworks by a total or major encroachment as defined by *AS4970-2009 Protection of Trees on Development Sites*. These trees will not be viable to be retained and will be required to be removed due to the proposed development.

The TPZ of Tree 13 is encroached by slightly greater than a minor encroachment as defined by AS4970-2009. slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will remain viable to be retained under the proposed development.

Demolition works are required within the TPZ of Tree 13. A site-specific Tree Protection Plan is required to be prepared prior to site works commencing outlining the tree protection measures to protect Trees 13, 14, 15 and 16 during demolition and construction works. These tree protection measures are required to comply with section 8.0 of this report, *AS4970-2009* and is to include the following:

- 1. Tree Protection Fencing in accordance with 8.4,
- 2. Trunk and branch protection in accordance with 8.7,
- 3. All demolition works within the TPZ are to be under the supervision and direction of the Project Arborist in accordance with 8.3,
- 4. All excavation within the TPZ is to be carried out using nondestructive methods including manual excavation, Air Spade or Vacuum truck operating at less than 1000Psi,
- 5. Removal of existing slabs and footings within the TPZ is to be conducted under the supervision of the Project Arborist with no mechanical excavation below the existing base levels, all concrete to be "peeled" or lifted from within the TPZ, do digging or dragging of concrete.

All other trees are viable to be retained and are to be protected as defined below.

Recommendations for tree retention or removal are summarised as follows:

Tree no.	Species	Recommendations	Comments
1.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
2.	Thuja occidentalis	Remove	Not viable to be retained due to the proposed development.
3.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.

			_
4.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
5.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
6.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
7.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
8.	Cupressus sempervirens 'stricta'	Remove	Not viable to be retained due to the proposed development.
9.	Cupressus sempervirens	Remove	Not viable to be retained due to
10.	'stricta' Cupressus sempervirens	Remove	the proposed development. Not viable to be retained due to
11.	'stricta' Cupressus sempervirens	Remove	the proposed development. Not viable to be retained due to the proposed development.
12.	'stricta' Cupressus sempervirens	Remove	the proposed development. Not viable to be retained due to the proposed development.
13.	Araucaria columnaris	Retain	Viable to be retained and protected in accordance with 8.0.
14.	Cupressus torulosa	Retain	Viable to be retained and protected in accordance with 8.0.
15.	Lophostemon confertus	Retain	Viable to be retained and protected in accordance with 8.0.
16.	Pittosporum undulatum	Retain	Viable to be retained and protected in accordance with 8.0.
17.	Viburnum odoratissimum	Remove	Not viable to be retained due to the proposed development.
18.	Syzygium luehmannii	Remove	Not viable to be retained due to the proposed development.
19.	Syzygium luehmannii	Remove	Not viable to be retained due to the proposed development.
20.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
21.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.
22.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development. Not viable to be retained due to
23.	Camellia sasanqua	Remove	the proposed development. Not viable to be retained due to
24.	Syzygium luehmannii	Remove	the proposed development. Not viable to be retained due to
25.	Camellia sasanqua	Remove	the proposed development.
26.	Camellia sasanqua	Remove	Not viable to be retained due to the proposed development.

27.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
28.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
29.	Cupressocyparis leylandii	Remove	Not viable to be retained due to the proposed development.
30.	Glochidion ferdinandii	Remove	Not viable to be retained due to the proposed development.
31.	Michelia figo	Remove	Not viable to be retained due to the proposed development.
32.	Jacaranda mimosifolia	Remove	Not viable to be retained due to the proposed development.
33.	Elaeocarpus reticulatus	Remove	Not viable to be retained due to the proposed development.
34.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
35.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
36.	Livistona australis	Retain	Viable to be retained and protected in accordance with 8.0.
37.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.
38.	Archontophoenix cunninghamiana	Retain	Viable to be retained and protected in accordance with 8.0.

8.0 Pre-Construction Tree Protection Measures

8.1 General

All tree protection works shall be carried out before excavation, grading and site works commence. Tree protection works shall be inspected and approved by a Consulting Arborist meeting AQF Level 5 prior to construction works commencing.

Storage of materials, mixing of materials, vehicle parking, disposal of liquids, machinery repairs and refueling, site office and sheds, and the lighting of fires, stockpiling of soil, rubble or any debris shall not be carried out within the TPZ of existing trees. No backfilling shall occur within the TPZ of existing trees. Trees shall not be removed or lopped unless specific instruction is given in writing by the Superintendent.

8.2 Identification

All trees to be protected shall be clearly identified and all TPZs surveyed.

8.3 Site Arborist

Prior to all site works commencing, a Site Arborist is to be appointed with the responsibility of implementing all Tree Protection Measures in this report as well as compliance with AS4970-2009 Protection of Trees on Development Sites. The Site Arborist is to hold qualifications equivalent of AQF Level 5.

8.4 Protective Fence

Fencing is to be erected around existing trees to be retained. In addition to this protective fencing within the site, Protective Fencing is to be installed to the full extent of the TPZs within the site. This fencing is to be erected prior to any materials being brought on site or before any site, civil works or construction works commence. The fence shall enclose a sufficient area so as to prevent damage to the TPZ as defined on Appendix D Tree Protection Plan and as defined in 5.1 above. Fence to comprise 1800mm high chain wire mesh fixed to 50mm diameter Galvanised steel posts. Panels should be securely fixed top and bottom to avoid separation. No storage of building materials, tools, paint, fuel or contaminants and the like shall occur within the fenced area.

8.5 Mulching

Install mulch to the extent of all tree protection fencing. Use a leaf mulch conforming to AS 4454 which is free of deleterious and extraneous matter such as soil, weeds, sticks and stones and consisting of a minimum of 90% recycled content compliant with AS 4454 (1999) and AS 4419 (1998). All trees marked as to be removed on the proposed development are to be chipped and reused for this purpose. Place mulch evenly and to a depth of 100mm.

8.6 Signage

Prior to works commencing, tree protection signage is to be attached to each tree protection zone, displayed in a prominent position and the sign repeated at 10 metres intervals or closer where the fence changes direction. Each sign shall contain in a clearly legible form, the following information:

Tree protection zone.

- This fence has been installed to prevent damage to the trees and their growing environment both above and below ground and access is restricted.
- No Access within Tree Protection Zone
- The name, address, and telephone number of the developer.

The name and telephone number of the Site Arborist.

8.7 Trunk and Branch Protection

Where a tree is to be retained and a Tree Protection Zone cannot be adequately established due to restricted access, the trunk and branches in the lower crown will be protected by wrapping 2 layers of hessian or carpet underfelt around the trunk and branches for a minimum of 2 m or as lower branches permit, then metal strapping secures 38x50 x2000 mm timber battens together around the trunk (do not nail or screw to the trunk or branches). The number of battens to be used is as required to encircle the trunk and the battens are to extend to the base of the tree (AS4970 2009 Protection of trees on development sites, Figure 3 Examples of Trunk, Branch and ground protection).

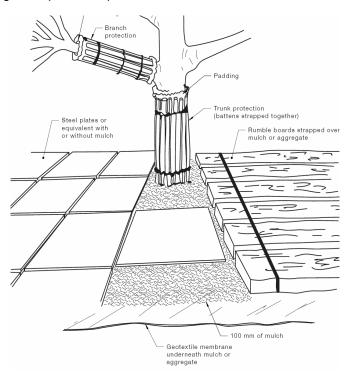


Figure 1 - Trunk Protection

9.0 Site Management Issues

9.1 Soil Compaction

Plant and pedestrian traffic during the construction period will cause significant soil compaction. This will be exacerbated by increased water expected on these soils as result of adjacent construction and weather. Compaction of the soil within the TPZ will reduce the voids between soil peds or particles therefore will reduce the gaseous exchange capacity of the root system which will slow critical metabolic processes. No pedestrian or plant access is permissible to the TPZ.

9.2 Site Access

Sufficient access is required to enable efficient construction. It is essential to delineate access zones or corridors which will provide suitable access without damaging the existing trees to be retained or causing compaction to the root zone.

9.3 Excavation within Tree Protection Area

No excavation is to be carried out within the TPZs of retained trees without the permission and supervision of the Site Arborist (AQF5)

9.4 Possible Contamination / Storage of Materials

The construction site will require the use of many chemicals and materials that are possible contaminants which if not managed will pose a risk to the existing trees. These possible contaminants include fuels, herbicides, solvents and the like. A site-specific Environmental Management Plan shall be provided, and this specific risk identified and addressed.

10.0 Tree Protection Measures During Construction

10.1 Maintenance of Pre-Construction Tree Protection Measures

The Pre-Construction Tree Protection Measures identified in 5.0 above are to be maintained in good and serviceable condition throughout the construction period.

10.2 Possible Contaminants

Do not store or otherwise place bulk materials and harmful materials under or near trees. Do not place spoil from excavations within the TPZs. Prevent wind-blown materials such as cement from harming trees. All possible contaminants are to be stored in a designated and appropriate area with secure chemical spill measures such as a bund in place.

10.3 Physical Damage

Prevent damage to tree. Do not attach stays, guys and the like to trees. No personnel, plant, machinery or materials are to be allowed within the tree protection fencing.

10.4 Compaction

No filling or compaction shall occur over tree roots zones within tree protection fenced areas. Where construction occurs close to or the TPZ of trees to be retained it shall be necessary to install protection to avoid compaction of the ground surface. This protection is to be planks supported clear of the ground fixed to scaffolding.

10.5 Trenching

No Trenching should be necessary within the TPZs or within tree protection fencing. No further trenching is to be carried out without the approval of the Site Arborist. Should any further trenching be required within the TPZs identified, this work is to be carried out by hand and under the supervision of a qualified Arborist.

10.6 Irrigation/Watering

Contractor is to ensure that soil moisture levels are adequately maintained. Apply water at an appropriate rate suitable for the species during periods of little or no rainfall.

10.7 Site Sheds / Amenities/ Storage

Site sheds, site amenities, ablutions and site storage shall be in the area clear of all TPZ. Chemicals and potential contaminants are to be stored appropriately and this

storage area is to be enclosed by a chemical spill bund to prevent the potential run off of contaminants in the event of a spillage or accident.

11.0 Environmental / Heritage/ Legislative Considerations

None of the subject trees are identified as threatened species or elements of endangered ecological communities within the NSW Biodiversity Conservation Act 2016.

12.0 References

Mattheck, C. Breloer, K. 1993, The Body Language of Trees: A Handbook for Failure Analysis, 12th Impression 2010 The Stationery Office.

AS4970-2009 Protection of Trees on Development Sites: Standards Australia

13.0 Disclaimer

This Appraisal has been prepared for the exclusive use of the Client and Birds Tree Consultancy.

Birds Tree Consultancy accepts no responsibility for its use by other persons. The Client acknowledges that this Appraisal, and any opinions, advice or recommendations expressed or given in it, are based on the information supplied by the Client and on the data inspections, measurements and analysis carried out or obtained Birds Tree Consultancy and referred to in the Appraisal. The Client should rely on the Appraisal, and on its contents, only to that extent.

Every effort has been made in this report to include, assess and address all defects, structural weaknesses, instabilities and the like of the subject trees. All inspections were made from ground level using only visual means and no intrusive or destructive means of inspection were used. For many structural defects such as decay and inclusions, internal inspection is required by means of Resistograph or similar. No such investigation has been made in this case. Trees are living organisms and are subject to failure through a variety of causes not able to be identified by means of this inspection and report.

Appendix A Landscape Significance

IACA Significance of a Tree, Assessment Rating System (STARS) © (IACA 2010) ©

In the development of this document IACA acknowledges the contribution and original concept of the Footprint Green Tree Significance & Retention Value Matrix, developed by Footprint Green Pty Ltd in June 2001.

The landscape significance of a tree is an essential criterion to establish the importance that a particular tree may have on a site. However, rating the significance of a tree becomes subjective and difficult to ascertain in a consistent and repetitive fashion due to assessor bias. It is therefore necessary to have a rating system utilising structured qualitative criteria to assist in determining the retention value for a tree. To assist this process all definitions for terms used in the *Tree Significance - Assessment Criteria* and *Tree Retention Value - Priority Matrix*, are taken from the IACA Dictionary for Managing Trees in Urban Environments 2009.

This rating system will assist in the planning processes for proposed works, above and below ground where trees are to be retained on or adjacent a development site. The system uses a scale of *High*, *Medium* and *Low* significance in the landscape. Once the landscape significance of an individual tree has been defined, the retention value can be determined.

Tree Significance - Assessment Criteria

A CA

1. High Significance in landscape

- The tree is in good condition and good vigour;
- The tree has a form typical for the species;
- The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;
- The tree is listed as a Heritage Item, Threatened Species or part of an Endangered ecological community or listed on Councils significant Tree Register;
- The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;
- The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values;
- The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa *in situ* tree is appropriate to the site conditions.

2. Medium Significance in landscape

- The tree is in fair-good condition and good or low vigour;
- The tree has form typical or atypical of the species;
- The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area
- The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when viewed from the street,
- The tree provides a fair contribution to the visual character and amenity of the local area,
- The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa *in situ*.

3. Low Significance in landscape

- The tree is in fair-poor condition and good or low vigour;
- The tree has form atypical of the species;
- The tree is not visible or is partly visible from surrounding properties as obstructed by other vegetation or buildings,
- The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area,
- The tree is a young specimen which may or may not have reached dimension to be protected by local Tree Preservation orders or similar protection mechanisms and can easily be replaced with a suitable specimen,
- The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa in situ - tree is inappropriate to the site conditions,
- The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms.
- The tree has a wound or defect that has potential to become structurally unsound.

Environmental Pest / Noxious Weed Species

- The tree is an Environmental Pest Species due to its invasiveness or poisonous/ allergenic properties,
- The tree is a declared noxious weed by legislation.

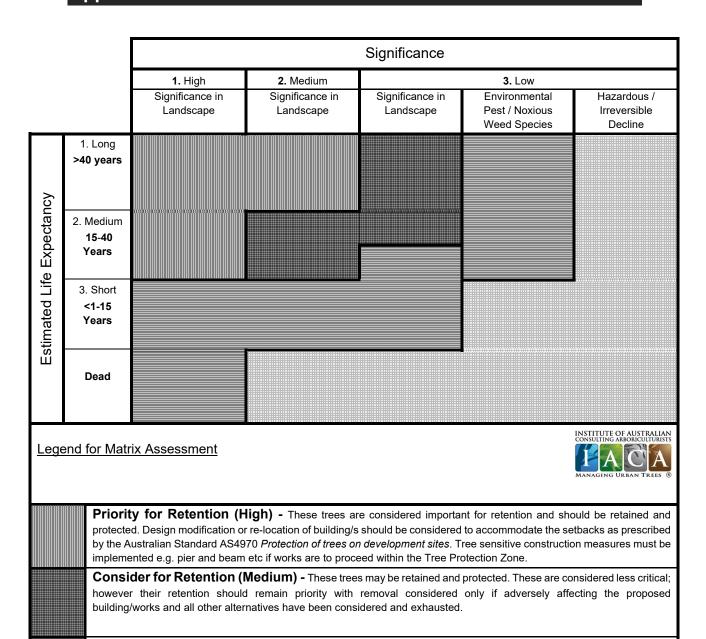
Hazardous/Irreversible Decline

- The tree is structurally unsound and/or unstable and is considered potentially dangerous,
- The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.

The tree is to have a minimum of three (3) criteria in a category to be classified in that group.

Note: The assessment criteria are for individual trees only, however, can be applied to a monocultural stand in its entirety e.g. hedge.

Appendix B Tree Retention Values



REFERENCES

design modification to be implemented for their retention.

removed irrespective of development.

Australia ICOMOS Inc. 1999, The Burra Charter – The Australian ICOMOS Charter for Places of Cultural Significance, International Council of Monuments and Sites, www.icomos.org/australia

Consider for Removal (Low) - These trees are not considered important for retention, nor require special works or

Priority for Removal - These trees are considered hazardous, or in irreversible decline, or weeds and should be

Draper BD and Richards PA 2009, Dictionary for Managing Trees in Urban Environments, Institute of Australian Consulting Arboriculturists (IACA), CSIRO Publishing, Collingwood, Victoria, Australia.

Footprint Green Pty Ltd 2001, Footprint Green Tree Significance & Retention Value Matrix, Avalon, NSW Australia, www.footprintgreen.com.au

Appendix C - Tree Inspection Data											

Birds Tree Consultancy

Consulting Arborist Project Management · Horticultural Consultancy · Landscape Management

Inspection Data

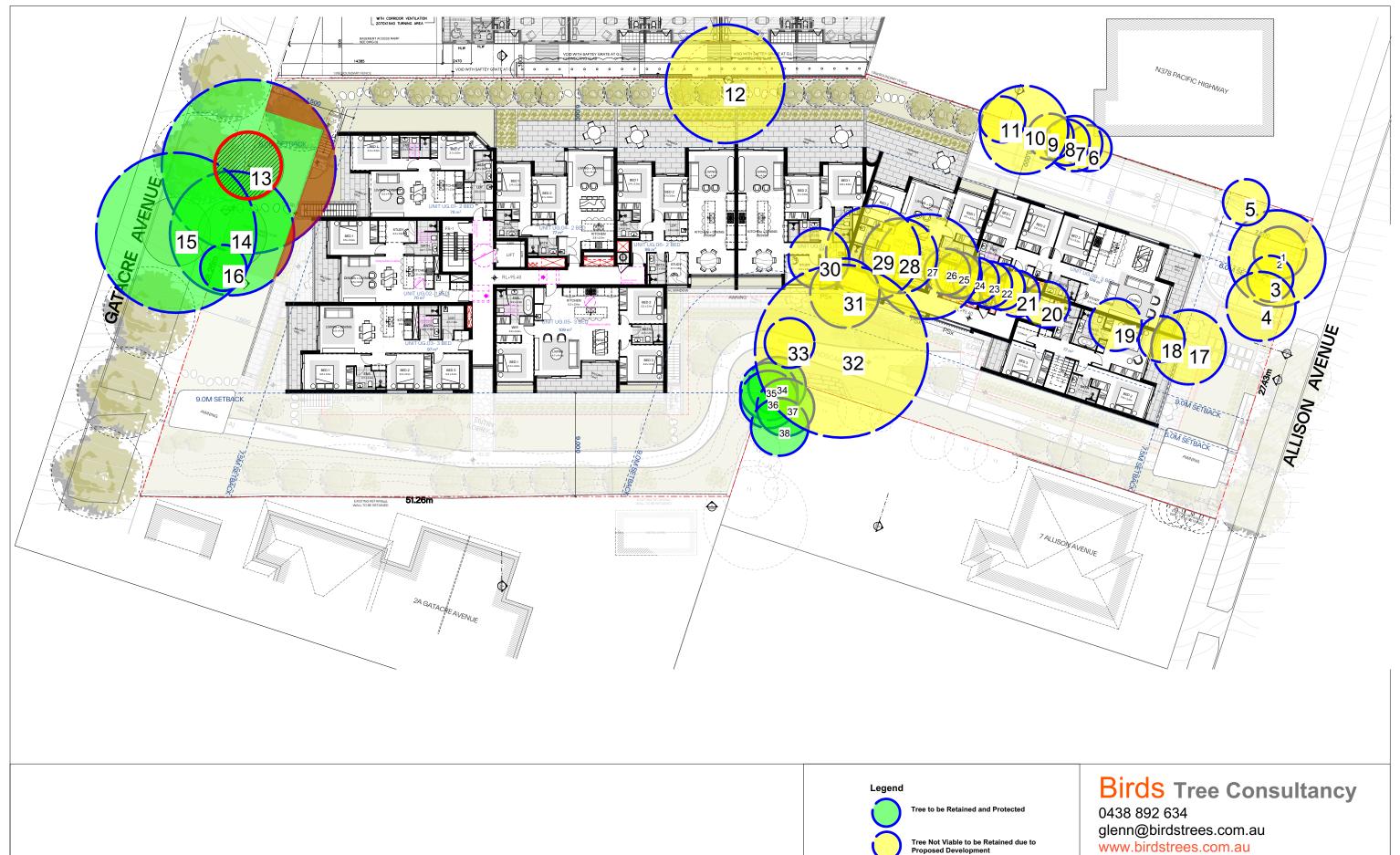
1 Gatacre Avenue Lane Cove

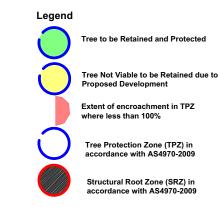
4-Nov-23

at Root Env. & (single, Flare Landcape twin, Overall Crown (DRF) expectanc significanc multiple SRZ radius Health & Distributio Common Pruning Pest Canopy Deadwoo Epicormic Tree Spread(m) @) DBH (mm) Radius (m) (mm) Trunk lean Tree Age Structure History Defects Infestation Growth Density Notes **Species** Blueberry Prominent Fair (60-Symmetri 190 2.28 250 1.85 No Evidence No Evidence No Evidence Thinning 30% <5% Elaeocarpus reticulatus | Ash Mature Good 5-10 Years Medium Fair (60-Symmetri 350 480 2.43 Nil 2 Thuja occidentalis White Ceda 4.2 No Evidence No Evidence Normal 5-10 Years Medium Mature Good Blueberry Fair (60-Symmetri 120 3 Elaeocarpus reticulatus | Ash 140 1.45 Nil Mature Good No Evidence No Evidence Thinning 20% <5% 5-10 Years Medium Low Fair (60-Symmetri 250 300 40% <5% Elaeocarpus reticulatus Ash Mature Good No Evidence No Evidence Thinning 5-10 Years Medium Fair (60-Symmetri 5 Elaeocarpus reticulatus | Ash 150 280 1.94 Nil No Evidence No Evidence Normal 20% <5% 5-10 Years Medium Mature Good Cupressus Good (70- Symmetri 6 sempervirens 'Stricta' 120 180 No Evidence No Evidence Normal <5% 1.61 Nil Mature Medium Medium Good years Good (70- Symmetri 21-40 Cupressus 7 sempervirens 'Stricta' 200 2.4 280 1.94 Nil Mature Good No Evidence No Evidence Normal <5% years Medium Medium Good (70- Symmetri 21-40 Cupressus 8 sempervirens 'Stricta' 130 180 1.61 Nil Mature Good No Evidence No Evidence Normal <5% <5% years Medium Medium Good (70- Symmetri 21-40 Cupressus 130 1.68 Nil <5% Medium 9 sempervirens 'Stricta' 200 Mature Good No Evidence No Evidence No Evidence Normal years Medium Good (70- Symmetri 21-40 Cupressus <5% 10 sempervirens 'Stricta' 320 3.84 360 2.15 Nil Mature Good No Evidence No Evidence No Evidence Normal Medium /ears Medium Cupressus Good (70- Symmetri 21-40 <5% 11 sempervirens 'Stricta' 120 160 1.53 Nil Mature Good No Evidence No Evidence No Evidence Normal years Medium Medium Mediterrane Good (70- Symmetri 21-40 Cupressus No Evidence No Evidence Normal 12 sempervirens an Cypress 430 5.16 480 2.43 Nil Mature Good <5% years Medium Medium Good (70- Symmetri 21-40 13 Araucaria columnaris 630 7.56 730 2.9 Nil Mature No Evidence No Evidence Normal <5% Good vears High High Good (70- Symmetri 21-40 450 5.4 520 2.51 Nil <5% 14 Cupressus torulosa Mature Good No Evidence No Evidence No Evidence Normal Medium Medium Lophostemon Good (70- Symmetri 21-40 15 confertus Brushbox 580 650 2.76 Nil No Evidence No Evidence No Evidence Normal 6.96 Mature Good <5% years High Poor (50- | Symmetri Line 21-40 Pittosporum Sweet 16 undulatum Pittosporum 100 140 1.45 Nil Clearance No Evidence No Evidence Sparse 40% <5% Mature years Medium Low Viburnum Good (70- Symmetri 21-40 Mature 79) 17 odoratissimum 270 3.24 350 2.13 Nil cal No Evidence No Evidence No Evidence Normal <5% Medium Medium Small Leaved Lilly Fair (60-21-40 Symmetri 18 Syzgium luehmannii Pilly 100 150 1.49 Nil Mature Good No Evidence No Evidence No Evidence Normal <5% years Medium Medium

					Trunk		D	iameter																
					(single,		at Root															Env. &		
					twin,			are				Overall	Crown								Life	Landcape		
Tree		Common			multiple		,		SRZ radius			Health &	Distribution		Pruning		Pest	Canopy	Deadwoo		expectanc	significanc		
no.	Species	Name	Height	Spread(m)	(@)	DBH (mm)	Radius (m) (r	nm)	(m)	Trunk lean	Tree Age	Vigour	n	Structure	History	Defects	Infestation	Density	d	Growth	У	е	Value	Notes
		Small										Fair /60	Cummotri								21.40			
10	Syzgium luehmannii	Leaved Lilly Pilly	Q Q	1	1	. 190	2.28	250	1.85	Nil	Mature	Fair (60- 69)	Symmetri cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
1	Syzgiann idenmannii	i iiiy			1	130	2.20	230	1.05	IVII	iviature	Good (70-		Good	TVO EVIGENCE	. INO EVIDENCE	IVO EVIGENCE	Normai	1370		21-40	Mediaiii	Wicalam	
20	Camellia sasangua		6	4	1	140	2	200	1.68	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	,											Good (70-	Symmetri								21-40			
21	Camellia sasanqua		6	4	. 1	. 150	2	200	1.68	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
												Good (70-	Symmetri								21-40			
22	Camellia sasanqua		6	4	1	. 80	2	140	1.45	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
22	Compellia sasangua			,	1	130	ا	200	1 60	NI:I	Matura	Good (70-	l '.	Cood	No Fuidones	No Evidence	No Evidones	Normal	<5%	<5%	21-40	Madium	Madium	
23	Camellia sasanqua	Small	0	4	· 1	. 130		200	1.68	INII	Mature	79)	cal	Good	No Evidence	No Evidence	INO Evidence	Normai	<5%	<5%	years	Medium	Medium	
		Leaved Lilly										Good (70-	Symmetri								21-40			
24	Syzgium luehmannii	Pilly	6	4	. 1	. 90	2	130	1.4	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
		,										Good (70-	Symmetri								21-40			
25	Camellia sasanqua		6	4	1	. 100	2	150	1.49	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
												Good (70-	Symmetri								21-40			
26	Camellia sasanqua	Landanal	6	4	1	. 80	2	120	1.36	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
27	Cupressus leylandii	Leyland	12		1	380	4.56	450	2.37	Niil	Mature	Good (70- 79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Low	Low	
27	cupressus legianun	Cypress Leyland	12	0	1	. 360	4.30	430	2.37	INII	iviature	Good (70-		Good	No Evidence	No Evidence	INO EVIDENCE	NOTITIAL	\3%	<370	21-40	Low	Low	
28	Cupressus leylandii	Cypress	12	8	1	. 270	3.24	340	2.1	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Low	Low	
		Leyland										Good (70-	Symmetri								21-40			
29	Cupressus leylandii	Cypress	12	8	1	. 340	4.08	400	2.25	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Low	Low	
		Pencil										0 1/70												
20	Glochidion ferdinandii	Cedar, Cheese Tree	10	6	1	. 220	2.64	280	1.94	Niil	Mature	Good (70- 79)	cal	Good	No Evidones	No Evidence	No Evidonos	Normal	<5%	<5%	21-40 years	Medium	Medium	
30	diocination ferumanan	Cheese free	10	0	Multiple	. 220	2.04	200	1.54	INII	iviature		Symmetri	Good	No Evidence	No Evidence	INO EVIDENCE	NOTITIAL	\3/0	\ 3/0	21-40	Medium	Mediaiii	
31	Michelia figo		7	l	Stems	251.2	3.01	350	2.13	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	0				Multiple							+	Symmetri								21-40			
32	Jacaranda mimosifolia	Jacaranda	10	12	Stems	626.8	7.52	650	2.76	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
		Blueberry										Good (70-	Symmetri								21-40			
33	Elaeocarpus reticulatus	Ash	9	5	1	. 180	2.16	0		Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Archontophoenix	Bangalow										Good (70-	Symmetri								21-40			
34	cunninghamiana	Palm	12	4	. 1	N/A	2.5 N	/A	N/A	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
									-			<u> </u>												
	Archontophoenix	Bangalow										Good (70-	l '.								21-40			
35	cunninghamiana	Palm	12	4	1	N/A	2.5 N	/A	N/A	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
26	Livistona australis		12	1	1	. N/A	2.5 N	/Δ	N/A	Nil	Mature	Good (70- 79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
36	Livistolia australis		12	4	1	IN/A	2.5 N	/^	IN/ A	INII	iviature	13)	cai	Good	INO EVIGENCE	ino Evidence	INO EVIGETICE	INOTITIAL	\3/0	NJ/0	years	ivieuiuiII	ivicululli	
	Archontophoenix	Bangalow										Good (70-	Symmetri								21-40			
37	cunninghamiana	Palm	12	4	1	N/A	2.5 N	/A	N/A	Nil	Mature	79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Archantanhaanin	Pangala										Good (70	Cum m = + = :								21-40			
	Archontophoenix cunninghamiana	Bangalow Palm	12	1	1	. N/A	2.5 N	/Δ	N/A	Nil	Mature	Good (70- 79)	cal	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
30	Carminghamhana	· uiiii	1 12	<u> </u>	1 4	I V / ^	2.5	<i>,</i> ^	'Y/ ^\	[¹]	Imature	1,21	Icai	10000	INO EVIDENCE	TING FAIRELINE	INO ENIGETICE	Tivorillai	\3/0	1370	ycars	ivicululli	ivicalulli	

Appendix D - Tree Location Plan





Project: 1 Gatacre Ave Lane Cove Client: Winim

DWG: A01 REV E Plan: Tree Location Plan

Date: 22 April 2024 Scale: 1:300 @ A3