



ARBORICULTURAL IMPACT ASSESSMENT

43 OLD PITTWATER ROAD BROOKVALE 2100

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EXECUTIVE SUMMARY

Complete Arborcare has been commissioned to produce an Arboricultural Impact Assessment (AIA) regarding the proposed development upon Lot 18/-/DP35184, No.43 Old Pittwater Road Brookvale 2100.

Seven (7) x trees adjacent and upon the subject site were assessed to produce this report.

Following an assessment of construction impacts (detailed in section 7 of this report) the following recommendations (detailed in section 9 of this report) have been developed.

- 9.1 For the proposed development to be undertaken, trees T1-T4 must be removed (subject to council approval).
- 9.2 To determine possible impact upon tree T7, non-destructive root investigation will be required. If roots are discovered that can be pruned (which are to be $\leq 50\text{mm } \varnothing$) pruning methods must be undertaken in accordance with Section 9 (Root Pruning) of AS 4373-2007. If roots $> 50\text{mm } \varnothing$ are uncounted, appropriate arboricultural advice will be provided.
- 9.3 It is recommended that trees T6-T7 have protection fencing installed before any of the proposed works commence. This protection must stay in place until the completion of all works & must be compliant with Section 4.3-4.4 (Protective Fencing & Signs) of AS 4970 (See Appendix C).

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1. INTRODUCTION

- 1.1 Complete Arborcare has been commissioned to produce an Arboricultural Impact Assessment (AIA) regarding the proposed development upon Lot 18/-/DP35184, No.43 Old Pittwater Road Brookvale 2100 (here after mentioned as the subject site).
- 1.2 This AIA is to be presented as part of a Comply Development Consent (CDC). It has been prepared following the guidelines provided in Australian Standard (AS) 4970-2009, Protection of Trees on Development Sites and AS 4373-2007, Pruning of Amenity Trees.

2. LEGISLATION REQUIREMENTS

- 2.1 The subject site is zoned C4: Environmental Living (NSW Government - Planning & Environment 2019).
- 2.2 NBC (Northern Beaches Council, 2017) considers a tree to be:
 - (a) any palm or woody perennial plant greater than five (5) metres in height or any palm or woody perennial plant with a canopy greater than 10 m in width; or
 - (b) any native palm or native woody perennial plant at any stage of its lifecycle that is 0.5 metres or greater in height and is within any area mapped by Council as containing:
 - Threatened and High Conservation Habitat.
 - Wildlife Corridors .
 - Native Vegetation known or potential habitat for threatened species, populations or ecological communities
- 2.3 State Environmental Planning Policy (Biodiversity & Conservation) 2021 (NSW Government, 2021) has been considered in the preparation of this report. The aims of the policy are to;
 - (a) *to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and*
 - (b) *to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.*

3. THE SITE



Figure 1: The subject site outlined in red (SIX Maps).

4. METHOD

- 4.1 The subject site & tree/s were visually assessed from ground level on the 7th May 2025. The *Genus/species* of the subject trees were recorded as well as dimensions of Diameter at Breast Height (DBH) and Diameter at Base (DAB), along with crown and canopy width. Height and age of the trees were estimated as well as the percentage of deadwood. The subject trees were given a condition / vigour rating and signs and symptoms of pests and diseases were noted (if apparent). Structural defects were looked for and comments recorded.
- 4.2 Calculations have been made using guidelines supplied in AS 4970-2009, specifically in relation to:
- Tree Protection Zone (TPZ)
 - Structural Root Zone (SRZ)
 - Estimated Live Crown Size (ELCS)
- 4.3 The trees have been allocated a landscape significance rating of Low, Medium or High using the *IACA Significance of a Tree, Assessment Rating System (STARS)*© (IACA, 2010). Stars assessment criteria includes:
- Condition and Vigour
 - Form, species specific
 - Provenance, age and botanical significance
 - Heritage and Ecological significance
 - Size, shape, and local amenity value
 - Restrictions to tree growth
- Appendix B contains the assessment criteria in full.
- 4.4 The trees have been given a Useful Life Expectancy (ULE) rating, categorised as either:
- Long – 40+ years
 - Medium – 15-40 years
 - Short – 5-15 years
 - Consider for removal - <5 years
- 4.5 Any vegetation not mentioned in this report was either defined as not to be a prescribed tree (due to its dimensions), exempt species, within two (2) metres of an existing approved building and/or had no TPZ encroachments.

5. OBSERVATIONS

5.1 Listed in Table 1 below are observations from the subject tree relating to:

- Health and condition
- Deadwood. An overall % has been estimated
- Structural defects and comments
- Any signs/symptoms of pest and disease attack

| Tree No. | Common Name <i>Genus/species</i> | Health/Vigour | Dead wood % | Structural Defects | Pests/ Disease |
|----------|--|---------------|-------------|--------------------|-------------------|
| 1 | Lilly Pilly <i>Syzygium smithii</i> | G/G | ≤5 | Stem inclusions | None observed |
| 2 | Native Daphne <i>Pittosporum undulatum</i> | F/F | ≤10 | None observed | None observed |
| 3 | Norfolk Island Pine <i>Araucaria heterophylla</i> | F/F | <5 | None observed | None observed |
| 4 | Tea Tree <i>Leptospermum spp.</i> | F/F | <5 | Stem inclusions | None observed |
| 5 | Water Gum <i>Tristanopsis laurina</i> | G/G | <5 | None observed | None observed |
| 6 | Yellow Bloodwood <i>Corymbia eximia</i> | F/F | <5 | Stem decay | None observed |
| 7 | Brush Box <i>Lophostemon confertus</i> | F/F | <5 | None observed | None observed |

Table 1: Tree Observations

5.2 Listed in Table 2 below are measurements from the subject tree relating to:

- Age
- Tree height
- Lowest scaffold branch
- Canopy spread – measured to the North, East, South and West (N,S,E,W)
- Diameter at breast height (DBH)
- Diameter above buttress (DAB)

| Tree No. | <i>Genus/species</i> | Age | Height (m) | Spread (m) | | | | DBH (cm) | DAB (cm) |
|----------|-------------------------------|-----|------------|------------|---|---|---|----------|----------|
| | | | | N | S | E | W | | |
| 1 | <i>Syzygium smithii</i> | M | 6.5 | 2 | 3 | 3 | 3 | 42 | 45 |
| 2 | <i>Pittosporum undulatum</i> | M | 7 | 1 | 2 | 1 | 1 | 20 | 35 |
| 3 | <i>Araucaria heterophylla</i> | M | 12 | 3 | 4 | 3 | 3 | 58 | 64 |
| 4 | <i>Leptospermum spp.</i> | M | 7 | 3 | 2 | 1 | 3 | 35 | 38 |
| 5 | <i>Tristanopsis laurina</i> | M | 6 | 3 | 3 | 2 | 2 | 20 | 30 |
| 6 | <i>Corymbia eximia</i> | M | 10 | 4 | 3 | 3 | 4 | 54 | 60 |
| 7 | <i>Lophostemon confertus</i> | M | 3 | 2 | 2 | 2 | 2 | 40 | 45 |

Table 2: Tree Measurements

5.3 Listed in Table 3 Below are calculations from the subject trees relating to:

- Tree Protection Zone (TPZ)
- Structural Root Zone (SRZ)
- Estimated Live Crown Size (ELCS)

| Tree No. | Genus/species | SRZ (m) | TPZ (m) | Estimated Live Crown Size (m ²) |
|----------|-------------------------------|---------|---------|---|
| 1 | <i>Syzygium smithii</i> | 2.37 | 5.04 | 25 |
| 2 | <i>Pittosporum undulatum</i> | 2.13 | 2.4 | 4 |
| 3 | <i>Araucaria heterophylla</i> | 2.74 | 6.96 | 40 |
| 4 | <i>Leptospermum spp.</i> | 2.2 | 4.2 | 15 |
| 5 | <i>Tristanopsis laurina</i> | 1.68 | 2.4 | 18 |
| 6 | <i>Corymbia eximia</i> | 3.67 | 6.48 | 35 |
| 7 | <i>Lophostemon confertus</i> | 2.37 | 4.8 | 8 |

Table 3: Tree Calculations

6. TREE RETENTION VALUES

6.1 Trees have been allocated a retention value using the priority Matrix in the *IACA Significance of a Tree, Assessment Rating System (STARS)©* (IACA, 2010). The Matrix uses the Landscape Significance rating combined with the Useful Life Expectancy (ULE) to determine a retention value of either;

- Priority for Retention (High) – All measures must be taken to retain and protect these trees. If the guidelines set out in AS4970-2009 Protection of trees on development sites cannot be used to protect the trees, design modification or re-location of the proposed development should be considered.
- Consider for Retention (Medium) – Retention of these trees should remain a priority. If the trees are adversely affecting the proposed development and all protection measures have been considered but are not viable, removal can be considered.
- Consider for Removal (Low) – Retention of these trees is not important. No modification to design should be considered for their retention.
- Priority for Removal – Trees in an irreversible decline, weed species or hazardous trees. These trees should be removed.

| Tree No. | Genus/Species | Landscape Significance Rating | Useful Life Expectancy | Retention Value |
|----------|-------------------------------|-------------------------------|------------------------|-----------------|
| 1 | <i>Syzygium smithii</i> | Low | Medium | Medium |
| 2 | <i>Pittosporum undulatum</i> | Low | Short | Low |
| 3 | <i>Araucaria heterophylla</i> | Medium | Medium | Medium |
| 4 | <i>Leptospermum spp.</i> | Low | Short | Low |
| 5 | <i>Tristanopsis laurina</i> | Medium | Medium | Medium |
| 6 | <i>Corymbia eximia</i> | Medium | Medium | Medium |
| 7 | <i>Lophostemon confertus</i> | Low | Medium | Medium |

Table 4: Tree Retention Values

7. CONSTRUCTION IMPACTS

7.1 Listed in table 5 below are likely impacts from the proposed construction upon the trees.

| Tree No. | Proposed encroachments into TPZ and/or canopy | Likely Impacts from the proposed construction (Discussion) |
|----------|---|---|
| 1,3-4 | 100% TPZ/SRZ encroachments. | Tree death. |
| 2 | This tree is exempt on the NBC (<8mts). | |
| 7 | A major 15-20% TPZ/SRZ encroachment. No canopy encroachment. | If the cut for the crossway & layout is <150mm, it has concluded that no long-term tree impact will occur from the completed works. |
| 5-6 | No TPZ/SRZ or canopy encroachments. | It has concluded that no long-term tree impact will occur from the completed works. |

Table 5: Construction Impacts

8. DOCUMENTS USED IN THE PREPARATION OF THIS REPORT

8.1 Listed in Table 6 below are documents used in the preparation of this report.

| Document type | Source/ Author | Title | Date | Summary |
|---------------|-----------------------|--------------------|-----------|--|
| Plan | Fuvis Building Design | Proposed Site Plan | 9/05/2025 | Drawing No.01 of proposed site plan shown over the proposed development (Rev A). |
| Plan | Complete Arborcare | TPZ/SRZ Plan | 6/06/2025 | TPZ/SRZ plan shown over the proposed development. |

Table 6: Documents used in the preparation of this report

9. RECOMMENDATIONS/CONCLUSIONS

- 9.1 For the proposed development to be undertaken, trees T1-T4 must be removed (subject to council approval).
- 9.2 To determine possible impact upon tree T7, non-destructive root investigation will be required. If roots are discovered that can be pruned (which are to be ≤50mm ø) pruning methods must be undertaken in accordance with Section 9 (Root Pruning) of AS 4373-2007. If roots >50mmø are uncounted, appropriate arboricultural advice will be provided.
- 9.3 It is recommended that trees T6-T7 have protection fencing installed before any of the proposed works commence. This protection must stay in place until the completion of all works & must be compliant with Section 4.3-4.4 (Protective Fencing & Signs) of AS 4970 (See Appendix C).

10. LIMITATIONS ON THE USE OF THIS REPORT

This report is to be utilised in its entirety only. Any written or verbal submission, report or presentation that includes statements taken from the findings, discussions, conclusions or recommendations made in this report, may only be used where the whole of the original report (or a copy) is referenced in, & directly attached to that submission, report or presentation.

11. ASSUMPTIONS

Care has been taken to obtain information from reliable resources. All data has been verified insofar as possible; however, the author of this report can neither guarantee nor be responsible for the accuracy of information provided by others.

Unless stated otherwise:

Information contained in this report covers only the trees that were examined & reflects the condition of the trees at the time of inspection.

The inspection was limited to visual examination of the subject trees without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future.

This report does not represent or contain a tree risk assessment.

12. REFERENCES

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Standards Australia, 2009. AS 4970-2009, Protection of trees on development sites. Sydney: Standards Australia.

Standards Australia, 2007. AS 4373-2007, Pruning of Amenity Trees Sydney: Standards Australia.

RELEVANT APPENDICES - APPENDIX A: GLOSSARY OF TERMS

Photographs – all images have been taken from SIX Maps.

Common Name/*Genus species* - the common name and genus/ species of the tree.

Age Class- assessment of the trees current age.

Immature (IM) - refers to a tree at growth stages between immaturity and full size.

Semi-mature (SM) - refers to a full-sized tree with some capacity for further growth.

Mature (M) - refers to a full-sized tree with some capacity for further growth.

Over-mature (OM) - a mature tree has reached a near stable size (biomass) above and below the ground. Trees can have a Mature Age Class for > 90% of their life span. Over-mature (**OM**) trees show symptoms of irreversible decline and decreasing biomass.

Live Stag (LS) - refers to a tree in a significant state of decline. This is the last stage of a tree prior to death.

Height - estimated overall height of the tree.

Diameter at Breast Height (DBH) - the trunk diameter at breast height (in metres) of the tree, 1.4 meters above ground level.

Diameter above the Buttress (DAB) - refers to the tree trunk diameter measured above the root buttress and is used to calculate the radius of the SRZ.

Tree Protection Zone (TPZ) - is a “No Go Zone” surrounding a tree to aid in its ability to cope with disturbances associated with construction works. Tree protection involves minimising root damage that is caused by activities such as construction. Tree protection also reduces the chance of a tree’s decline in health or death & the possibly damage to structural stability of the tree from root damage.

Structural Root Zone (SRZ) – the structural root zone is the area required for the tree’s stability. A larger area is required to maintain a viable tree. The SRZ is only needed to be calculated when a major encroachment into the TPZ is proposed. There are many factors that affect the size of the SRZ (e.g. tree height, crown area, soil type, soil moisture). The SRZ may also be influenced by natural or built structures, such as rock and footings.

Vigour - Good (G), Fair (F) or Poor (P) – this refers to the trees vigour as exhibited by the crown density, leaf colour, presence of epicormic shoots, ability to withstand disease invasion and the degree of dieback.

Condition – Excellent (E), Very Good (VG), Good (G), Fair (F), Declining (D), Poor (P), Very Poor (VP). this refers to the tree’s form & growth habit, as modified by its environment (aspect suppression by other tree/s, soils,) & the state of the scaffold (i.e. trunk & major branches), including structural defects such as cavities, crooked trunks or weak trunk/branch junctions. These are not directly connected with health & it is possible for a tree to be healthy but in poor condition/vigour.

Deadwood – this refers to any whole limb that no longer contains living issues (i.e. living leaves & /or bark). Some dead wood is common in a number of species.

Crown Spread - the greatest width from drip line to drip line of a branch across the trees crown.

Estimated Live Crown Size (ELCS) - the area of the crown as viewed from one aspect.

Epicormic Growth - these are advantageous shoots that grow from secondary bud development. They are an indicator that the tree has/or is under stress.

APPENDIX B: SIGNIFICANCE OF A TREE, ASSESSMENT RATING SYSTEM* (IACA 2010) – S.T.A.R.S. ©

Significance of a Tree, Assessment Rating System* (IACA 2010) – S.T.A.R.S. ©

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. An example of its use in an Arboricultural report is shown as Appendix A.



Tree Significance - Assessment Criteria

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.

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*.

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 monoculture stand in its entirety e.g. hedge.

Institute of Australian Consulting Arboriculturists (IACA 2010), *IACA Significance of a Tree, Assessment Rating System (STARS)*, www.iaca.org.au

Table 1.0 Tree Retention Value - Priority Matrix.

| | | Significance | | | | |
|-------------------------------------|--|---------------------------|---------------------------|---------------------------|---|----------------------------------|
| | | 1. High | 2. Medium | 3. Low | | |
| | | Significance in Landscape | Significance in Landscape | Significance in Landscape | Environmental Pest / Noxious Weed Species | Hazardous / Irreversible Decline |
| Estimated Life Expectancy | 1. Long >40 years | | | | | |
| | 2. Medium 15-40 Years | | | | | |
| | 3. Short <1-15 Years | | | | | |
| | Dead | | | | | |
| Legend for Matrix Assessment | | | | | | |
| | Priority for Retention (High) - These trees are considered important for retention and should be retained and protected. Design modification or re-location of building/s should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4970 <i>Protection of trees on development sites</i> . Tree sensitive construction measures must be implemented e.g. pier and beam etc if works are to proceed within the Tree Protection Zone. | | | | | |
| | Consider for Retention (Medium) - These trees may be retained and protected. These are considered less critical; however their retention should remain priority with removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered and exhausted. | | | | | |
| | Consider for Removal (Low) - These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention. | | | | | |
| | Priority for Removal - These trees are considered hazardous, or in irreversible decline, or weeds and should be removed irrespective of development. | | | | | |

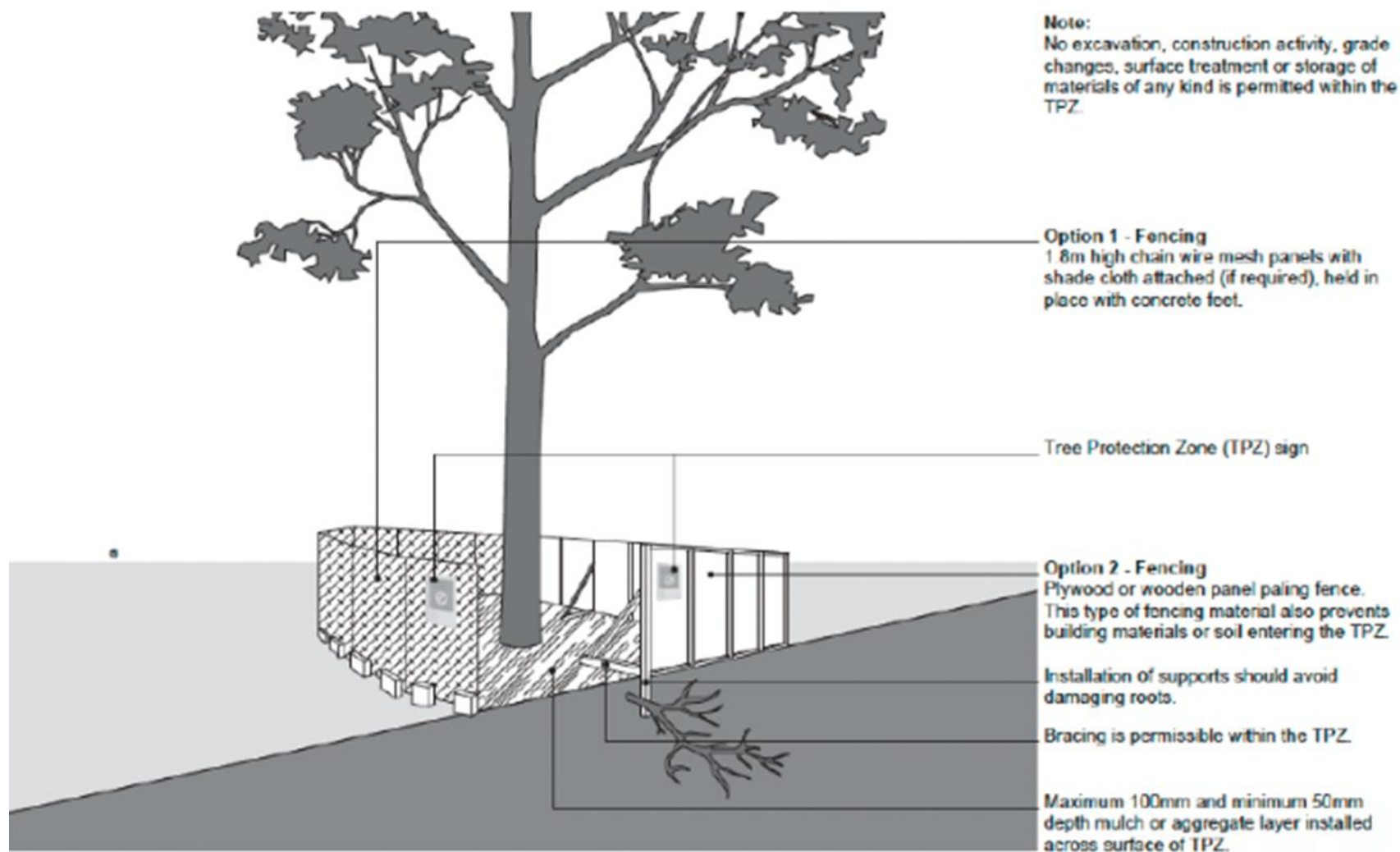
USE OF THIS DOCUMENT AND REFERENCING The IACA Significance of a Tree, Assessment Rating System (STARS) is free to use, but only in its entirety and must be cited as follows', 2010, *IACA Significance of a Tree, Assessment Rating System (STARS)*, Institute of Australian Consulting Arboriculturists, Australia, www.iaca.org.au

REFERENCES 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 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 IACA 2010, *IACA Significance of a Tree, Assessment Rating System (STARS)*, Institute of Australian Consulting Arboriculturists, www.iaca.org.au

APPENDIX C: EXAMPLE OF FENCING PROTECTION & SIGNAGE

Tree protection Fencing must be a minimum of 1.8 metres in height and be held in place with locking clamps and concrete feet between each panel (an example of protective fencing is shown below).



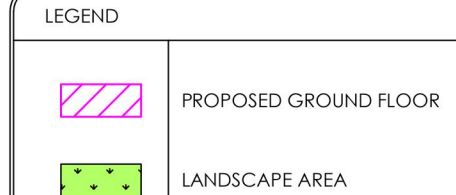
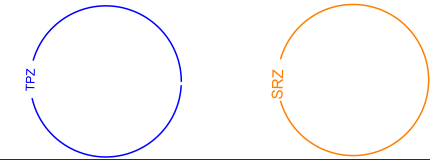


TPZ & SRZ PLAN WITH TREE PROTECTION ZONES AND STRUCTURAL ROOT ZONES SHOWN TO SCALE.
PLAN HAS BEEN OVERLAYED ON THE PROPOSED SITE PLAN PREPARED BY FUVIS BUILDING DESIGN (19/05/2025).

THIS PLAN SHOULD BE READ IN CONJUNCTION WITH THE ARBORICULTURAL IMPACT ASSESSMENT PREPARED FOR 43 OLD PITTWATER RD, BROOKVALE NSW 2100

PREPARED BY COMPLETE ARBORCARE
06/06/2025

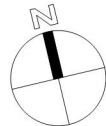
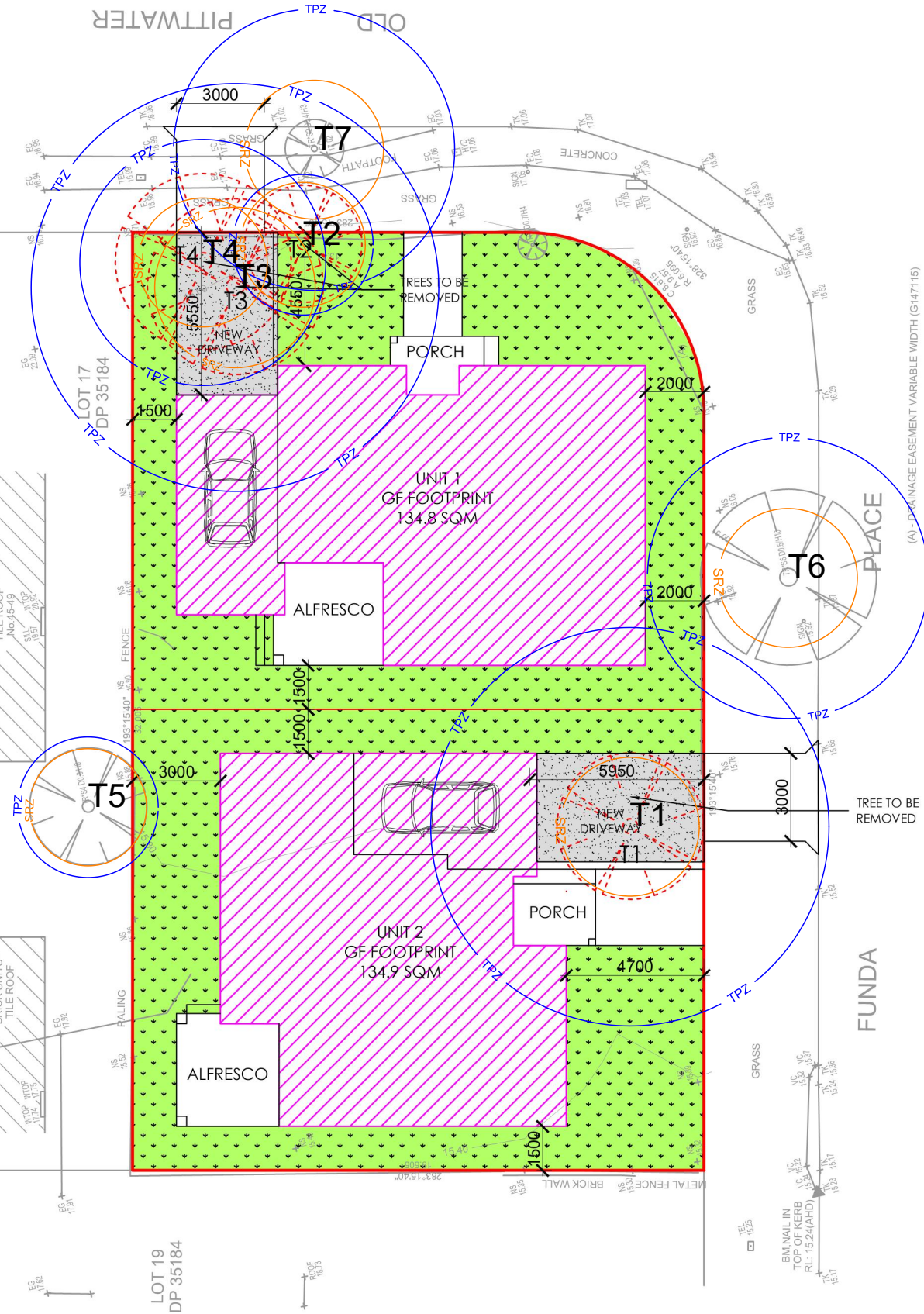
LEGEND:
TREE PROTECTION ZONE STRUCTURAL ROOT ZONE



AREA CACULATION

Land Size 613.4 m²

| | UNIT 1 | UNIT 2 | TOTAL | Controls |
|-----------------------------|---------------------|---------------------|---------------------|--------------------------|
| A. Ground Floor area | 103.8m ² | 103.7m ² | | |
| B. Garage area | 22.4m ² | 19.2m ² | | |
| C. First Floor area | 119.8m ² | 118.1m ² | | |
| Total Floor area (A+B+C-18) | 228.0m ² | 223.0m ² | 451.0m ² | Max. 453.3m ² |
| Landscape area | | | 244.4m ² | Min. 206.7m ² |



PROPOSED SITE PLAN
SCALE 1:200