



HUGH
THE ARBORIST

Arboricultural Impact Assessment Report

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1. INTRODUCTION

- 1.1 This report has been commissioned by Webber Architects to assess trees located on the site that may be impacted by a proposed development.
- 1.2 The tree data collection was carried out on 14th October 2025. The weather at the time of the assessment was clear with average visibility.

1.3 **Table 1: Documents And Plans Assessed**

Title	Author	Date on Document	Plan/Doc. Ref.
Survey Plan	SRD Land Consulting	06/08/2024	Edition D
Schematic Architectural Plans	Webber Architects	04/10/2024	Schematic Design Option 1

2. SCOPE OF THE REPORT

2.1 This report has been undertaken to meet the following objectives.

- 2.1.1 Conduct a visual assessment from ground level for trees located on and adjoining the site as identified by the survey plan provided site that may be impacted by the proposed works.
- 2.1.2 For the purpose of this report a prescribed tree is a tree with a height equal to or greater than 3 metres in height.
- 2.1.3 Determine the trees estimated contribution years and remaining, useful life expectancy and award the trees a retention value.
- 2.1.4 Provide an assessment of the potential impact the proposed development is likely to cause to the condition of the subject trees in accordance with AS4970 Protection of trees on development sites (2025).
- 2.1.5 Provide pragmatic recommendations for the management of trees and mitigation of construction impacts on retained trees.
- 2.1.6 Specify tree protection measures for trees to be retained in accordance with AS 4970-2025.

3. LIMITATIONS

- 3.1 The findings of this report are based on the observations and site conditions at the time of inspection.
- 3.2 Where access was limited due to trespass issues, measurements have been estimated.
- 3.3 All of the observations were carried out from ground level. The accuracy of the assessment of the subject trees structural condition and health is limited to the visibility of the tree at the time of inspection.
- 3.4 The tree inspections were visual from ground level only. No soil or tissue testing was carried out as part of the tree inspection. None of the surrounding surfaces adjacent to trees were lifted or removed during the tree inspections.
- 3.5 Root decay can sometimes be present with no visual indication above ground. It is also impossible to know the extent of any root damage caused by mechanical damage such as underground root cutting during the installation of services without undertaking detailed root investigation. Any form of tree failure due to these activities is beyond the scope of this assessment.
- 3.6 The report reflects the subject tree(s) as found on the day of inspection. Any changes to the growing environment of the subject tree, or tree management works beyond those recommended in this report may alter the findings of the report. There is no warranty, expressed or implied, that problems or deficiencies relating to the subject tree, or subject site may not arise in the future.
- 3.7 Tree identification is based on accessible visual characteristics at the time of inspection. As key identifying features are not always available the accuracy of identification is not guaranteed. Where tree species is unknown, it is indicated with a spp.
- 3.8 All diagrams, plans and photographs included in this report are visual aids only and are not to scale unless otherwise indicated.
- 3.9 Hugh The Arborist neither guarantees, nor is responsible for, the accuracy of information provided by others that is contained within this report.
- 3.10 While an assessment of the subject trees estimated useful life expectancy is included in this report, no specific tree risk assessment has been undertaken for any of trees at the site.

- 3.11 The ultimate safety of any tree cannot be categorically guaranteed. Even trees apparently free of defects can collapse or partially collapse in extreme weather conditions. Trees are dynamic, biological entities subject to changes in their environment, the presence of pathogens and the effects of ageing. These factors reinforce the need for regular inspections. It is generally accepted that hazards can only be identified from distinct defects or from other failure-prone characteristics of a tree or its locality.
- 3.12 Alteration of this report invalidates the entire report.

4. METHODOLOGY

- 4.1 The following information was collected during the assessment of the subject tree(s).
- 4.1.1 Tree common name
 - 4.1.2 Tree botanical name
 - 4.1.3 Tree age class
 - 4.1.4 DSH (Trunk/Stem Diameter at Standard Height/1.4m above ground level) - millimetres.
 - 4.1.5 Estimated height - metres.
 - 4.1.6 Estimated crown spread (Radius of crown) - metres.
 - 4.1.7 Health
 - 4.1.8 Structural condition
 - 4.1.9 Amenity value
 - 4.1.10 Estimated remaining contribution years (SULE)¹
 - 4.1.11 Retention value (Tree AZ)²
 - 4.1.12 Notes/comments
- 4.2 An assessment of the trees condition was made using the visual tree assessment (VTA) model (Mattheck & Breloer, 1994).³
- 4.3 Tree diameter was measured using a diameter tape or in some cases estimated. All other measurements were estimations unless otherwise stated.

¹ Barrell Tree Consultancy, *SULE: Its use and status into the New Millennium*, TreeAZ/03/2001, <http://www.treeaz.com/>.

² Barrell Tree Consultancy, *Tree AZ version 10.10-ANZ*, <http://www.treeaz.com/>.

³ Mattheck, C. & Breloer, H., *The body language of trees - A handbook for failure analysis*, The Stationary Office, London, England (1994).

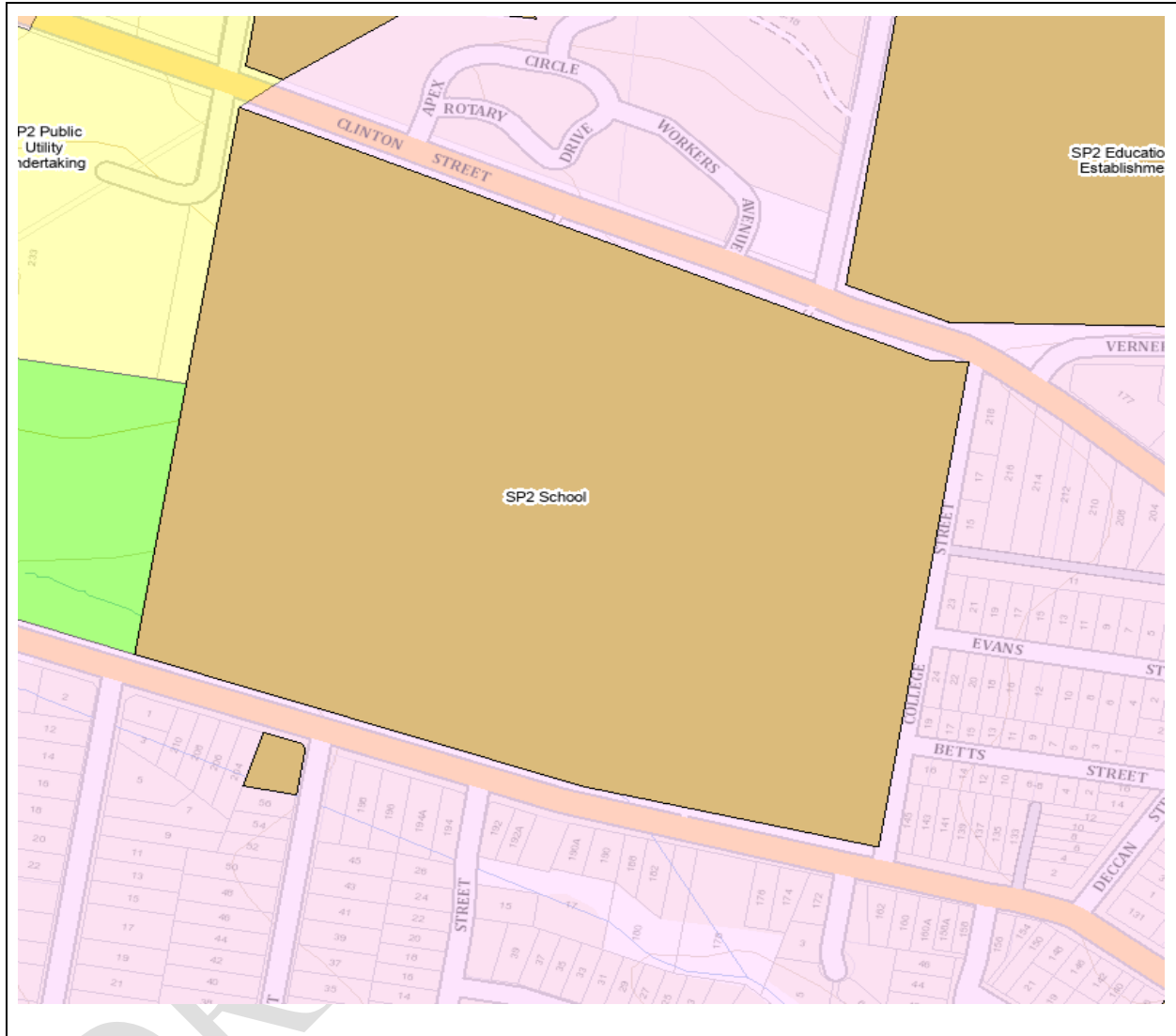
- 4.4 All DSH measurements, Notional Root Zones, and structural root zones were calculated in accordance with methods set out in AS4970 Protection of trees on development sites (2025). See appendices for more information.
- 4.5 Details of how the observations in this report have been assessed are listed in the appendices.

5. SITE LOCATION AND BRIEF DESCRIPTION OF THE PROPOSAL

- 5.1 The site is located in the in the Goulburn Mulwaree Council Area. All trees at the site are managed under but may not be limited to the following policy and legislation.
 - 5.1.1 Goulburn Mulwaree Local Environmental Plan (LEP) 2009
 - 5.1.2 Goulburn Mulwaree Control Plan (DCP) 2009
 - 5.1.3 State Environmental Planning Policy (Biodiversity and Conservation 2021)
- 5.2 The subject site is a school grounds containing multiple high value trees. The proposed works are located to the north east of the existing buildings and consist of demolition of existing structures, construction of new buildings, hardstands, walkways and ancillary structures.
- 5.3 The subject site is listed as a Heritage Item but does not contain mapped biodiversity according to the NSW Planning Portal Spatial Viewer⁴ Accessed 24/11/2025.

^{4,5} <https://www.planningportal.nsw.gov.au/spatialviewerhistoric/#/find-a-property/address>

Tile 1: Site Location⁵



6. OBSERVATIONS AND GENERAL INFORMATION IN RELATION TO PROTECTING TREES ON DEVELOPMENT SITES

- 6.1 **Tree information:** Details of each individual tree assessed, including the observations taken during the site inspection, can be found in the tree inspection schedule in appendix 2, where the indicative Notional Root Zone (NRZ) and Structural Root Zone (SRZ) has been calculated for each of the subject trees. The NRZ and SRZ should be measured in radius from the centre of the trunk. Each of the subject trees have been awarded a retention value based on the observations using the Tree AZ method. Tree AZ is used to identify higher value trees worthy of being a constraint to development and lower value trees that should generally not be a constraint to the development. The Tree AZ categories sheet (Barrell Tree Consultancy) has been included in appendix 3 to assist with understanding the retention values. The retention value that has been allocated to the subject trees in this report is not definitive and should only be used as a guideline.
- 6.2 **Notional Root Zone (NRZ):** The area of root zone enclosed by a radius of 12 times the DSH (Diameter at Standard Height) which is the primary trigger for Arboricultural input on a development site.
- 6.3 **Tree protection zone (TPZ):** Specified Zone above and below the ground at given offsets from the trunk set aside to protect a trees roots and crown where these might be damaged by development.
- 6.4 **Structural Root Zone (SRZ):** The theoretical area around the base of a tree required for the trees stability in the ground.
- 6.5 **Minor encroachment into NRZ:** The proposed encroachment is considered minor if it is less than or equal to 10% of the NRZ and is not within the SRZ and there are no other recent NRZ encroachments. Generally it is unlikely that minor encroachments will be of significant impact to the tree providing an area equivalent to the net loss is incorporated into the TPZ, unless the project Arborist otherwise demonstrates the tree will remain viable.

- 6.6 **Moderate encroachment into NRZ:** The proposed encroachment is considered moderate if it is greater than 10% but equal to or less than 20% of the NRZ and is outside of the SRZ. A project Arborist shall be engaged to review the proposed impact and undertake any other necessary investigation to address factors that may affect the TPZ area such as but not limited to, the age and health of the tree, proposed staging and timing of cutting roots, the presence of other trees with overlapping roots, the presence of existing or past structures that may have affected root growth or the lean and stability of the tree to demonstrate how the tree will remain viable. This may be achieved through the implementation of suitable design measures and construction controls to mitigate impacts during the development process. To avoid a net loss of soil area an area equivalent to the net loss shall be incorporated into the TPZ, unless the project Arborist otherwise demonstrates the tree will remain viable.
- 6.7 **Major encroachment into NRZ:** The proposed development is considered major if it is greater than 20% of the NRZ or inside the SRZ. The project Arborist shall be engaged to explore alternative designs with the design team and/or demonstrate that the tree will remain viable. Detailed investigations such as root investigation, soil analysis, historical site data, relevant literature or examples of similar encroachments may be required to achieve this. To avoid a net loss of soil area an area equivalent to the net loss shall be incorporated into the TPZ, unless the project Arborist otherwise demonstrates the tree will remain viable.
- 6.8 **Site plans:** The following site plans have been prepared. Notional Root Zone, Structural Root Zone and the indicative canopy projection have been overlaid on all plans.
- Appendix 1 - Existing Site Plan
 - Appendix 1a – Lower Level Site Plan
 - Appendix 1b – Ground Floor Site Plan

7. ASSESSEMENT OF CONSTRUCTION IMPACTS

- 7.1 **Table 2:** In the table below the impact of proposed development impact to all trees included in the report has been assessed.
- 7.2 **Abbreviations used in the table:** AS4970 Protection of Trees on Development Sites (2025) is referred to as Australian Standards, Notional Root Zone is referred to as NRZ and Structural Root Zone is referred to as SRZ.

1Tree ID	Species	Retention value	NRZ radius (m)	SRZ radius (m)	NRZ encroachment	Discussion/ Conclusion	Recommendation
1	<i>Melaleuca bracteata</i>	A1	7.8	3.0	Major	Referring to the lower ground floor plan, the proposed store encroaches into the NRZ and the SRZ by up to 24% and will require in ground footings/excavation and severance of tree roots. Referring to the Level 1 plan, the tree appears to be located within the footprint of a proposed hardstand. The impacts from the proposed store alone will affect the condition and the stability of the tree as it is located within less than a metre of the trunk of the tree. The other proposed structures will also significantly affect the viability of the tree which is not considered retainable under the proposal.	Remove
2	<i>Arbutus unedo</i>	A2	8.4	3.0	Major	The proposed building to the north will encroach into the NRZ but not the SRZ by up to 14% which as a standalone encroachment will not significantly affect the tree. There is a proposed footpath transecting through the NRZ and the SRZ within 0.5 metres of the trunk of the tree. Due to the trees spreading, multi stem structure, the footpath will require the removal of some of the stems of the tree on the northern side and will likely impact significant tree roots. Furthermore, the relocation process of the existing sub stations is unknown therefore it is assumed the relocation will also increase the development impacts. A long-term consideration for the impact on the tree is the shading the new building would create in conjunction with the existing Blocks P and N. The tree would ultimately be shaded on three sides with several story buildings which significantly reduces the existing available light	Remove



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1Tree ID	Species	Retention value	NRZ radius (m)	SRZ radius (m)	NRZ encroachment	Discussion/ Conclusion	Recommendation
						levels. Therefore irrespective of tree sensitive design the placement of the building is likely to have a negative effect on the tree in the long term.	
3	<i>Betula pendula</i>	Z10	2.0	1.5	Major	The tree is located within the footprint of the proposed building and cannot be retained. The tree is not considered to be of material constraint to development and could be offset with replacement planting.	Remove
4	<i>Sequoia sempervirens</i>	A2	9.2	3.1	Major	The proposed outdoor learning area encroaches into the NRZ but not the SRZ by less than 10% and will not affect the tree as a standalone component. The proposed footpath encroaches into the NRZ and the fringe of the SRZ by a further 20% and the combined encroachment has the potential to affect the condition of the tree. To minimise the development impact the footpath is recommended to be installed along the base of the existing retaining wall that encloses Block P. This will increase the setback from the tree and significantly reduce the encroachment/development impact on the provision there are no other level changes within the NRZ area aside from the proposed outdoor learning area.	Design change recommended
5	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
6	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
7	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
8	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect

Report on trees at: Clinton Street and College Street Goulburn NSW

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1Tree ID	Species	Retention value	NRZ radius (m)	SRZ radius (m)	NRZ encroachment	Discussion/ Conclusion	Recommendation
9	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
10	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
11	<i>Cupressus sempervirens</i>	A1	4.8	2.6	None	No encroachment proposed.	Retain and protect
12	<i>Cupressus sempervirens</i>	A1	4.8	2.4	None	No encroachment proposed.	Retain and protect
13	<i>Cupressus sempervirens</i>	A1	4.8	2.4	None	No encroachment proposed.	Retain and protect
14	<i>Eucalyptus tereticornis</i>	A1	7.7	2.8	Major	The existing building is set back 4.5 metres from the trunk of the trees. The proposed new building is set back slightly further however there is a proposed hardstand within 2.4 metres of the trunk of the trees and within the fringe of the SRZ area which is a major encroachment. The section plans and levels provided indicate there will be level changes ranging from 0.4 metres to 1.5 metres for the proposed building and hardstand. The trees are located on a lower RL than the existing building at the foot of a small soil slope however the exact levels are not shown on the survey plan provided. Noting the actual root loss from the new building will not significantly affect the trees it may be possible to retain the trees if it can be demonstrated the proposed grading and level changes for the hardstand will not affect tree roots. The proposed plans also show a hatched battered area that encompasses the trees which indicates there will be level changes throughout	Remove

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Tree ID	Species	Retention value	NRZ radius (m)	SRZ radius (m)	NRZ encroachment	Discussion/ Conclusion	Recommendation
						the NRZ and the SRZ. At this stage the works indicated on the plans are likely to affect the viability of the trees which will require removal. If the trees are to be retained, further information is required on the existing and intended levels of the hardstand in relation to the spot levels at the base of the trees to enable accurate assessment. In addition, there can be no other level changes outside of the proposed structures. Any proposed changes to retain the trees must be reviewed by a consulting Arborist to ensure the changes are effective. In the event the trees are required to be retained, a greater setback from the trunks of the trees may be required and remediation provided to offset any residual development impacts will be recommended.	
15	<i>Eucalyptus tereticornis</i>	A2	8.5	2.9	Major	Refer to the discussion for Tree 14.	Remove
16	<i>Eucalyptus tereticornis</i>	A2	7.6	2.9	Major	Refer to the discussion for Tree 14.	Remove
17	<i>Pinus radiata</i>	A1	10.0	3.2	None	No encroachment proposed.	Retain and protect
18	<i>Pinus radiata</i>	A1	14.4	3.7	None	No encroachment proposed.	Retain and protect
19	<i>Eucalyptus camaldulensis</i>	A2	10.8	3.4	None	No encroachment proposed.	Retain and protect

8. CONCLUSIONS

8.1 **Table 3:** Summary of the impact to trees during the development.

Impact	Reason	Retention Value		Total
		A & AA	Z	
Trees to be removed	Building/landscape construction, new surfacing and/or proximity, or trees in poor condition.	1,2,3,14,15,16	-	6
Retained trees subject to NRZ encroachment or no encroachment	Removal of existing surfacing/structures and/or installation of new surfacing/structures will not significantly impact the tree	5,6,7,8,9,10,11,12,13,17,18,19	-	12
Trees requiring tree sensitive construction and design Or design modification	Removal of existing surfacing/structures and/or installation of new surfacing/structures impacting trees and requiring mitigation strategies	4		1

9. PHOTOGRAPHS



Photo A: Additional information is required in terms of existing and proposed levels around trees 14, 15 and 16 to determine the development impact.

10. RECOMMENDATIONS

10.1 Refer to tables 2 and 3 for individual tree identification and discussions.

10.2 This report assesses the impact of a proposed development on nineteen trees located on and adjoining the site.

10.3 Six trees have been assessed as requiring removal under the plans assessed. Trees 1, 2 and 3 are not retainable under the proposed design. Trees 14, 15 and 16 are subject to minor encroachment from the proposed building however level changes and proposed battering throughout the NRZ area will affect the trees viability. If the trees (14, 15, 16) are to be retained, further information on existing and proposed levels is required and possibly a greater setback of the proposed hardstand. Refer to section 7 for a detailed discussion.

10.4 Tree 4 will require the relocation of the proposed footpath to minimise the development impact, refer to section 7 for a detailed discussion.

10.5 All other trees assessed can be retained under no impact from the structures providing the proposed construction can be carried out without affecting them. This can be managed with a site and tree specific tree protection plan which sets out working areas and protection methods to isolate trees from the works. This can be produced as part of the final AIA report.

10.6 All retained trees will require the following paragraphs to be implemented to maintain zero or acceptable levels of development impacts.

10.6.1 **Underground Services:** AS4970 Protection of trees on development sites (2025) recommends that all underground services located inside the NRZ of any tree to be retained should be installed via tree sensitive techniques. This should include either directional drilling methods or manual excavations to minimise the impact to trees identified for retention.

If directional drilling is proposed, section 4.5.5 of AS4970-2025 says that 'The directional drilling bore should be at least 600 mm deep. The project Arborist should assess the likely impacts of boring and bore pits on retained trees'.⁶

If manual excavations are proposed, all excavations for the services should be carried out manually under the supervision of the project Arborist (minimum qualification AQF 5). Manual excavation may include the use of pneumatic and hydraulic tools, high-pressure air or a combination of high-pressure water and a vacuum device. All roots greater than 40mm in diameter should be retained in the service trench. The service pipe should then be threaded below the retained roots where practical. Roots greater than 40mm within the alignment of the service pipe

⁶ Council Of Standards Australia, AS 4970 Protection of trees on development sites (2025) page 18.

should only be severed/pruned under the approval of the project Arborist. All root pruning should be in accordance with AS4373 Pruning of amenity trees (2007). Open trenching in the SRZ of trees can be impractical without impacting significant roots, as often dense root growth is present in the SRZ. Open trenching should therefore be avoided in the SRZ. It is recommended that any section of pipe that is located in the SRZ of trees to be retained is installed via sub-surface boring/directional drilling methods only. The feasibility of sub-surface boring/directional drilling will need to be investigated by a sub-surface boring/directional drilling specialist. The project Arborist should provide advice and supervise excavations for bore pits, which must be carried out manually if located within the NRZ. The top of the pipe must be at least 600mm below the existing soil grade. The location of bore pits should be flexible in the NRZ to avoid significant roots, the project Arborist should assess and advise in writing the impact of any significant root severance to the condition of the tree.

10.6.2 Landscaping: All landscaping works within the NRZ of trees to be retained are to be undertaken in consultation with a consulting Arborist to minimize the impact to trees. General guidance is provided below to minimise the impact of new landscaping to trees to be retained.

- Level changes should be minimised. The existing ground levels within the landscape areas should not be lowered by more than 50mm or increased by more than 200mm without assessment by a consulting Arborist.
- New retaining walls should be avoided. Where new retaining walls are proposed inside the NRZ of trees to be retained, they should be constructed from tree sensitive material, such as timber sleepers, that require minimal footings/excavations. If brick retaining walls are proposed inside the NRZ, consider pier and beam type footings to bridge significant roots that are critical to the trees condition. Retaining walls must be located outside the SRZ and sleepers/beams located above existing soil grades.
- New footpaths and hard surfaces should be minimised, as they can limit the availability of water, nutrients and air to the trees root system. Where they are proposed, they should be constructed on or above existing soil grades to minimise root disturbance and consider using a permeable surface. Footpath should be located outside the SRZ.
- Where fill/sub base is used inside the NRZ, fill material should be a coarse granular material that does not restrict the flow of water and air to the root system below. This type of material will also reduce the impact of soil compaction during construction.

- The location of new plantings inside the NRZ of trees to be retained should be flexible to avoid unnecessary damage to tree roots greater than 40mm in diameter.

10.7 Tree protection: Tree protection specifications have been provided in section 10 of this report and the appendices section which provide an indicative location of the protection required for the purpose of development assessment and approval. In accordance with AS4970 Protection of Trees on Development Sites (2025), Tree Protection Specifications (TPS) and a Tree Protection Plan (TPP) shall be prepared by the Project Arborist and consider measures necessary to protect and manage trees throughout all stages of the development. The TPS and TPP may require updating prior to the issue of a Construction Certificate.

10.7.1 The specified Tree Protection Zone is defined as the area above and below ground to include the trees canopy and root system that requires protecting from development activity. Trees root systems and canopies are seldom symmetrical and can be affected in shape by environmental factors such as the weather, topography and existing structures.

10.7.2 The TPS and TPP are required to consider all stages of the development which will be most effectively produced in conjunction with the Construction Management Plan, post approval but prior to the issue of the commencement of works including demolition and tree clearing.

10.8 All works within the NRZ and SRZ of retained trees are to be overseen by an AQF5 Consulting Arborist to assist with minimising development impact.

10.9 All services plans should be subject to review by a consulting Arborist. Where possible underground services should be located outside the NRZ of trees to be retained. All underground services located inside the NRZ of any tree to be retained must be installed via tree sensitive techniques. This should include either directional drilling methods or manual excavations to minimise the impact to trees identified for retention.

11. ARBORICULTURAL WORK METHOD STATEMENT (AMS) AND TREE PROTECTION REQUIREMENTS

- 11.1 **Use of this report:** All contractors must be made aware of the tree protection requirements prior to commencing works at the site and be provided a copy of this report.
- 11.2 **Project Arborist:** Prior to any works commencing at the site a project Arborist should be appointed. The project Arborist should be qualified to a minimum AQF level 5 and/or equivalent qualifications and experience and should assist with any development issues relating to trees that may arise. If at any time it is not feasible to carryout works in accordance with this, an alternative must be agreed in writing with the project Arborist.
- 11.3 **Tree work:** All tree work must be carried out by a qualified and experienced Arborist with a minimum of AQF level 3 in arboriculture, in accordance with NSW Work Cover Code of Practice for the Amenity Tree Industry (1998) and AS4373 Pruning of amenity trees (2007).
- 11.4 **Initial site meeting/on-going regular inspections:** The project Arborist is to hold a pre-construction site meeting with principle contractor to discuss methods and importance of tree protection measures and resolve any issues in relation to tree protection that may arise. In accordance with AS4970-2025, the project Arborist should carryout regular site inspections to ensure works are carried out in accordance with this document throughout the development process. I recommend regular site inspections on a frequency based on the longevity of the project; this is to be agreed in the initial meeting.

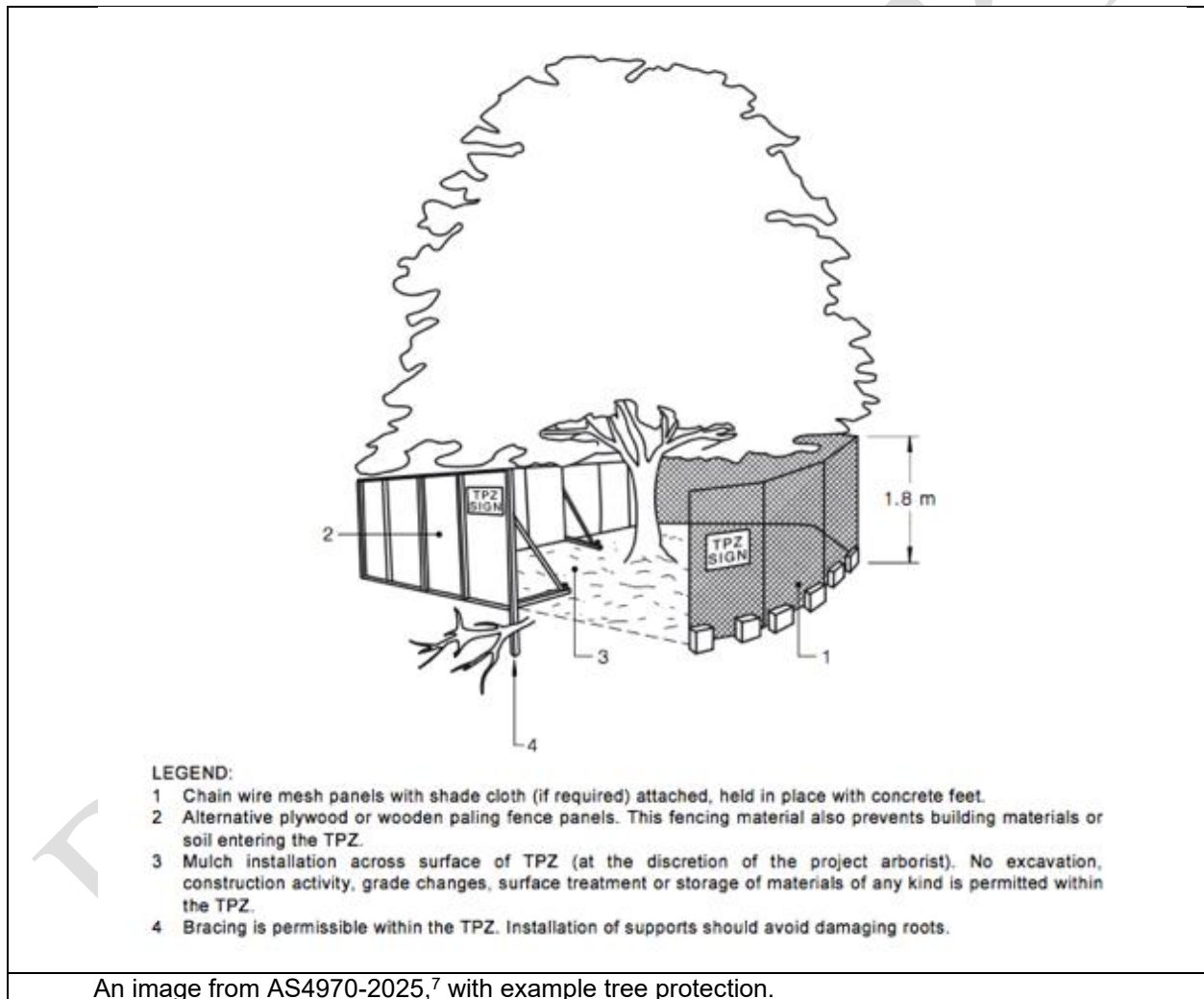
11.5 Site Specific Tree Protection Recommendations:

Table 4: Protection Requirements: See appendix 1A for indicative protection location.

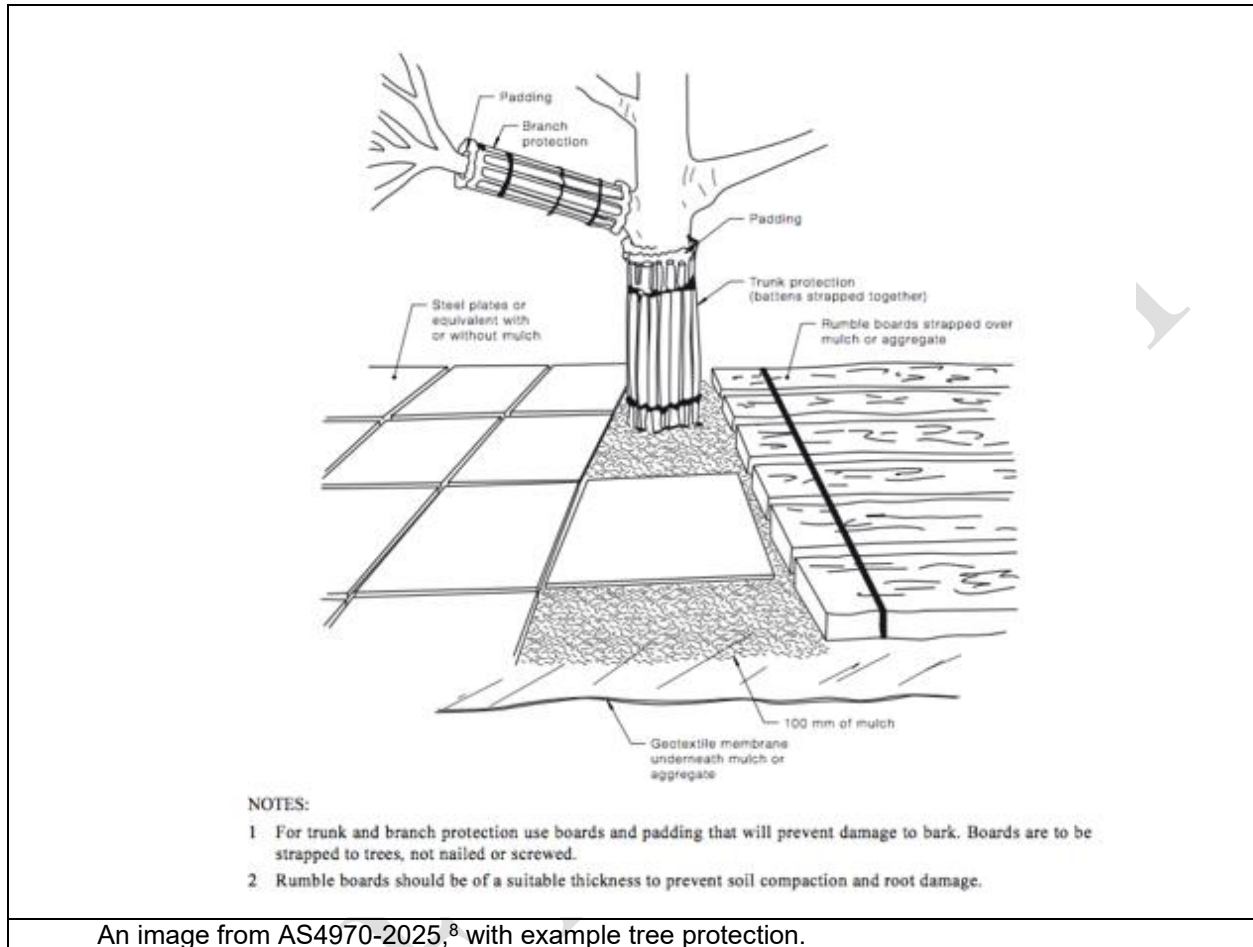
Tree Number	Protection Specification
	- TBC Final Report
	-
	-

- 11.6 Tree protection Specifications:** See sections below for site/tree specific requirements. It is the responsibility of the principle contractor to install tree protection prior to works commencing at the site (prior to demolition works) and to ensure that the tree protection remains in adequate condition for the duration of the development. The tree protection must not be moved without prior agreement of the project Arborist. The project Arborist must inspect that the tree protection has been installed in accordance with this document and AS4970-2025 prior to works commencing.
- 11.7 Protective fencing:** Where it is not feasible to install fencing at the specified location due to factors such as restricting access to areas of the site or for constructing new structures, an alternative location and protection specification must be agreed with the project Arborist. Where the installation of fencing is unfeasible due to restrictions on space, trunk and branch protection will be required (see below). The protective fencing must be constructed of 1.8 metre 'cyclone chainmesh fence'. The fencing must only be removed for the landscaping phase and must be authorised by the project Arborist. Any modifications to the fencing locations must be approved by the project Arborist.
- 11.8 TPZ signage:** Tree protection signage is to be attached to the protective fencing, 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/No access.
 - This fence has been installed to prevent damage to the tree/s and their growing environment both above and below ground. Do not move fencing or enter TPZ without the agreement of the project Arborist.
 - The name, address, and telephone number of the developer/builder and project Arborist
- 11.9 Trunk and Branch Protection:** The trunk must be protected by wrapped hessian or similar material to limit damage. Timber planks (50mm x 100mm or similar) should then be placed around tree trunk. The timber planks should be spaced at 100mm intervals and must be fixed against the trunk with tie wire or strapping and connections finished or covered to protect pedestrians from injury. The hessian and timber planks must not be fixed to the tree in any instance. The trunk and branch protection shall be installed prior to any work commencing on site and shall be maintained in good condition for the entire development period.
- 11.10 Mulch:** Any areas of the TPZ located inside the subject site (only trees to be retained directly adjacent to site works must be mulched to a depth of 75mm with good quality composted wood chip/leaf mulch.

- 11.11 **Ground Protection:** Ground protection is required to protect the underlying soil structure and root system in areas where it is not practical to restrict access to whole TPZ, while allowing space for construction. Ground protection must consist of good quality composted wood chip/leaf mulch to a depth of between 150-300mm, laid on top of geo textile fabric, overlaid with durable timber boards/plywood. If vehicles are to be using the area, additional protection will be required such as rumble boards or track mats to spread the weight of the vehicle and avoid load points. Ground protection is to be specified by the project Arborist as required.



⁷ Council of Standards Australia, *AS4970 Protection of trees on development sites* (2025), page 16.



An image from AS4970-2025,⁸ with example tree protection.

11.12 Restricted activities inside TPZ: The following activities must be avoided inside the TPZ of all trees to be retained unless approved by the project Arborist. If at any time these activities cannot be avoided an alternative must be agreed in writing with the project Arborist to minimise the impact to the tree.

- A) Machine excavation.
- B) Ripping or cultivation of soil.
- C) Storage of spoil, soil or any such materials
- D) Preparation of chemicals, including preparation of cement products.
- E) Refueling.
- F) Dumping of waste.

⁸ Council of Standards Australia, *AS4970 Protection of trees on development sites* (2025), page 17.

- G) Wash down and cleaning of equipment.
- H) Placement of fill.
- I) Lighting of fires.
- J) Soil level changes.
- K) Any physical damage to the crown, trunk, or root system.
- L) Parking of vehicles.

- 11.13 **Demolition:** The demolition of all existing structures inside or directly adjacent to the TPZ of trees to be retained must be undertaken in consultation with the project Arborist. Any machinery is to work from inside the footprint of the existing structures or outside the TPZ, reaching in to minimise soil disturbance and compaction. If it is not feasible to locate demolition machinery outside the TPZ of trees to be retained, ground protection will be required. The demolition should be undertaken inwards into the footprint of the existing structures, sometimes referred to as the 'top down, pull back' method.
- 11.14 **Excavations:** The project Arborist must supervise and certify that all excavations and root pruning are in accordance with AS4373-2007 and AS4970-2025. For continuous strip footings, first manual excavation is required along the edge of the structures closest to the subject trees. Manual excavation should be a depth of 1 metre (or to unfavourable root growth conditions such as bed rock or heavy clay, if agreed by project Arborist). Next roots must be pruned back in accordance with AS4373-2007. After all root pruning is completed, machine excavation is permitted within the footprint of the structure. For tree sensitive footings, such as pier and beam, all excavations inside the TPZ must be manual. Manual excavation may include the use of pneumatic and hydraulic tools, high-pressure air or a combination of high-pressure water and a vacuum device. No pruning of roots greater 30mm in diameter is to be carried out without approval of the project arborist. All pruning of roots greater than 10mm in diameter must be carried out by a qualified Arborist/Horticulturalist with a minimum AQF level 3. Root pruning is to be a clean cut with a sharp tool in accordance with AS4373 Pruning of amenity trees (2007).⁹ The tree root is to be pruned back to a branch root if possible. Make a clean cut and leave as small a wound as possible.
- 11.15 **Landscaping:** All landscaping works within the TPZ of trees to be retained are to be undertaken in consultation with a consulting Arborist to minimize the impact to trees. General guidance is provided below to minimise the impact of new landscaping to trees to be retained.

⁹ Council of Standards Australia, AS 4373 *Pruning of amenity trees* (2007) page 18

- 11.16 **Sediment and Contamination:** All contamination run off from the development such as but not limited to concrete, sediment and toxic wastes must be prevented from entering the TPZ at all times.
- 11.17 **Tree Wounding/Injury:** Any wounding or injury that occurs to a tree during the construction process will require the project Arborist to be contacted for an assessment of the injury and provide mitigation/remediation advice. It is generally accepted that trees may take many years to decline and eventually die from root damage. All repair work is to be carried out by the project Arborist, at the contractor's expense.
- 11.18 **Completion of Development Works:** After all construction works are complete the project Arborist should assess that the subject trees have been retained in the same condition and vigour. If changes to condition are identified the project Arborist should provide recommendations for remediation.

12. HOLD POINTS

- 12.1 **Hold Points:** Below is a sequence of hold points requiring project Arborist certification throughout the development process. It provides a list of hold points that must be checked and certified. All certification must be provided in written format upon completion of the development. The final certification must include details of any instructions for remediation undertaken during the development.

Hold Point	Stage	Responsibility	Certification	Complete Y/N and date
Project Arborist to hold pre construction site meeting with principal contractor to discuss methods and importance of tree protection measures and resolve any issues in relation to feasibility of tree protection requirements that may arise.	Prior to work commencing.	Principle contractor	Project Arborist	
Project Arborist to assess and certify that tree protection has been installed in accordance with section 11 and AS4970-2025 prior to works commencing at site.	Prior to development work commencing.	Principle contractor	Project Arborist	
In accordance with AS4970-2025 the project arborist should carry out regular site inspections to ensure works are carried out in accordance with the recommendations.	Ongoing throughout the development	Principle contractor	Project Arborist	

Hold Point	Stage	Responsibility	Certification	Complete Y/N and date
Project Arborist to oversee all manual excavations for piers and demolition inside the TPZ of any tree to be retained.	Construction	Principle contractor	Project Arborist	
Project Arborist to certify that all pruning of roots greater than 30mm in diameter has been carried out in accordance with AS4373-2007. All root pruning must be carried out by a qualified Arborist/Horticulturalist with a minimum AQF level 3.	Construction	Principle contractor	Project Arborist	
Project Arborist to certify that all underground services including storm water inside TPZ of any tree to be retained have been installed in accordance with AS4970-2025.	Construction	Principle contractor	Project Arborist	
Project arborist to approve relocation of tree protection for landscaping. All landscaping works within the TPZ of trees to be retained are to be undertaken in consultation with the project Arborist to minimize the impact to trees.	Landscape	Principle contractor	Project Arborist	
After all construction works are complete the project Arborist should assess that the subject trees have been retained in the same condition and vigor and authorize the removal of protective fencing. If changes to condition are identified the project Arborist should provide recommendations for remediation.	Upon completion of construction	Principle contractor	Project Arborist	
Any wounding or injury that occurs to a tree during the demolition/construction process will require the project arborist to be contacted for an assessment of the injury and provide mitigation/remediation advice. All remediation work is to be carried out by the project arborist, at the contractor's expense.	Ongoing throughout the development	Principle contractor	Project Arborist	

13. BIBLIOGRAPHY/REFERENCES

- Council of Standards Australia, *AS4970 Protection of trees on development sites* (2025).
- Council of Standards Australia, *AS4373 Pruning of amenity trees* (2007).
- Mattheck, C. & Breloer, H., *The body language of trees - A handbook for failure analysis*, The Stationary Office, London, England (1994).
- Barrell, J. (2001), '*SULE: Its use and status in the new millennium*' in *Management of Mature Trees proceedings of the 4th NAAA Workshop*, Sydney, 2001. Barrell
- Barrell Tree Consultancy, *Tree AZ version 10.10-ANZ*, <http://www.treeaz.com/>.
- Parramatta Local Environmental Plan (LEP) 2011
- Parramatta Development Control Plan (DCP) 2011
- State Environmental Planning Policy (Biodiversity and Conservation 2021)

14. LIST OF APPENDICES

The following are included in the appendices:

- Appendix 1 - Existing site Plan
- Appendix 1A – Lower Level Site Plan
- Appendix 1B – Ground Floor Site Plan
- Appendix 2 - Tree inspection schedule
- Appendix 3 – Health
- Appendix 4 – Amenity Value
- Appendix 5 – Age Class
- Appendix 6 – Structural Condition
- Appendix 7 – SULE Categories
- Appendix 8 – Retention Values
- Appendix 9 – Trees AZ
- Appendix 10 – NRZ Encroachment

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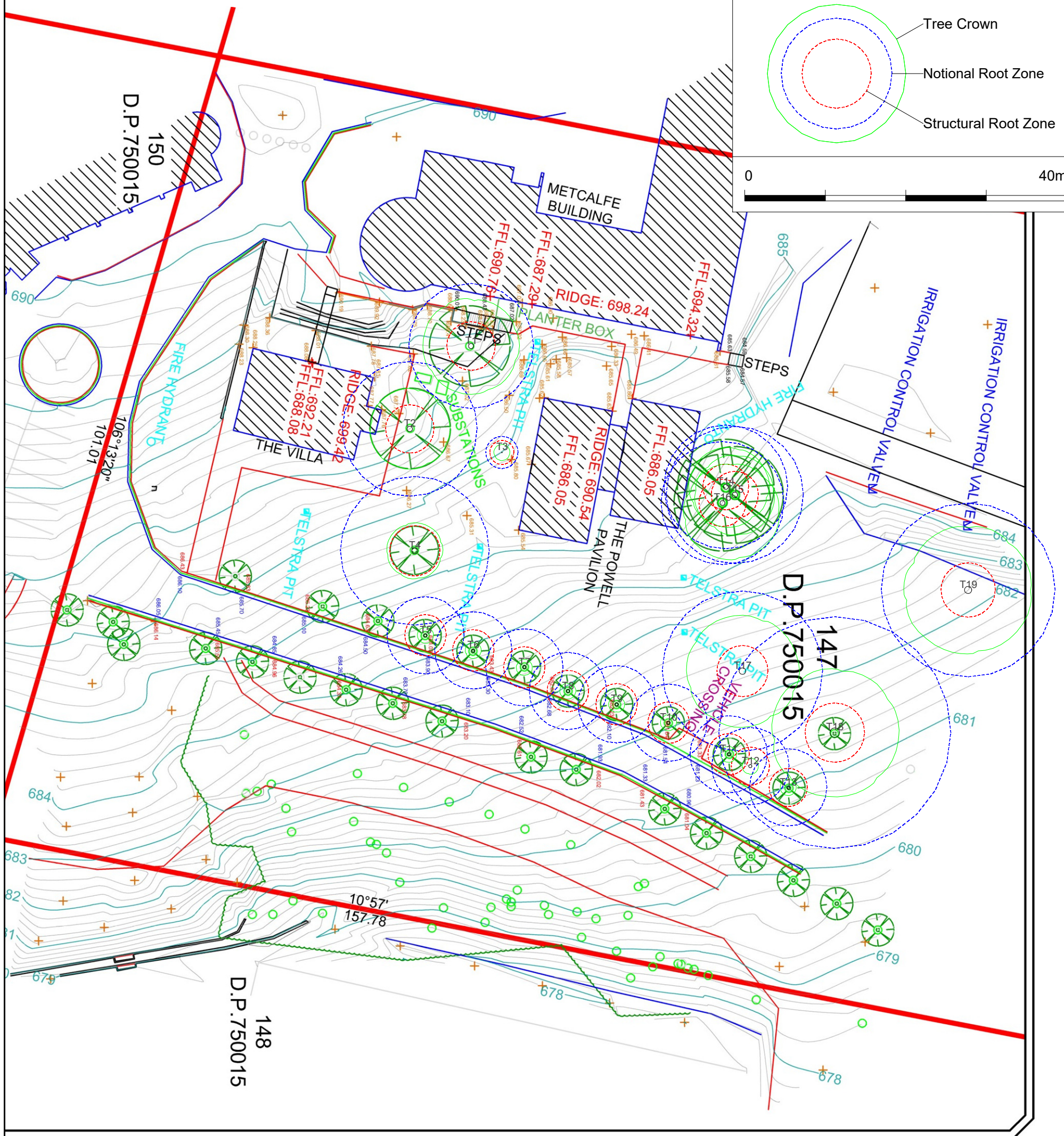
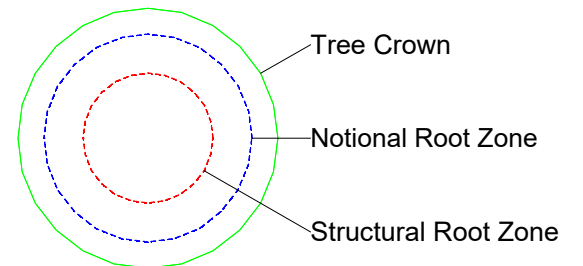
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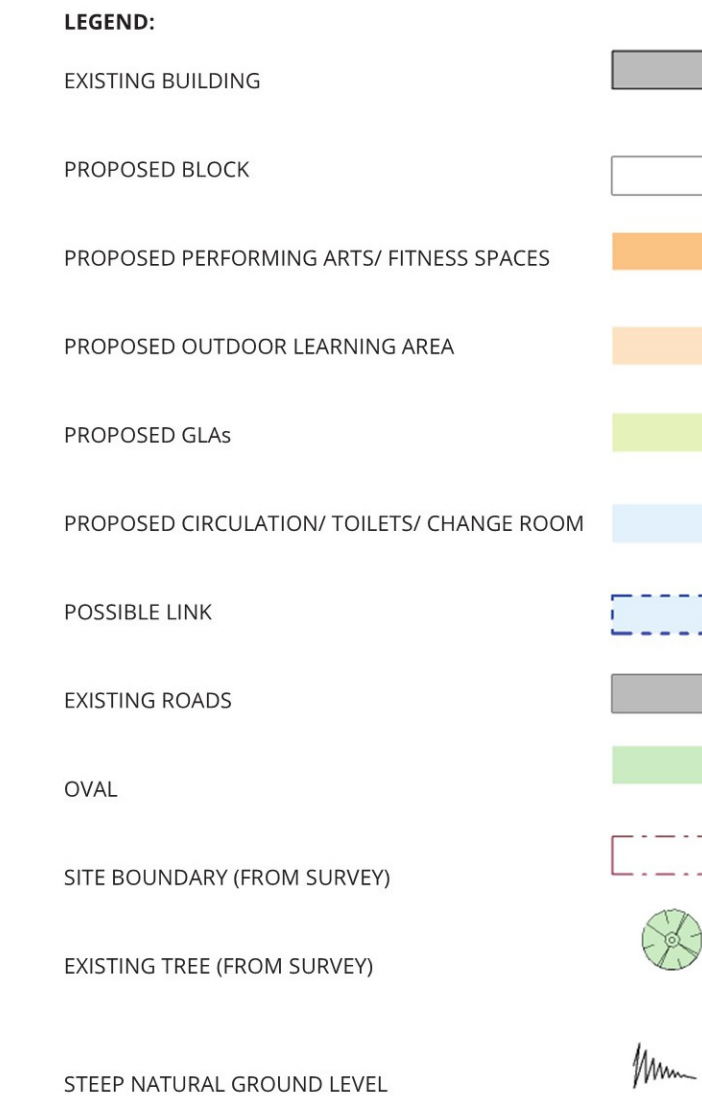
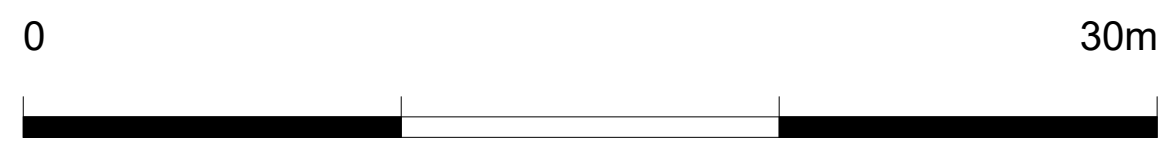


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B	02.09.2024	FOR CLIENT REVIEW	VM	
C	04.10.2024	FOR QS REVIEW	VM	

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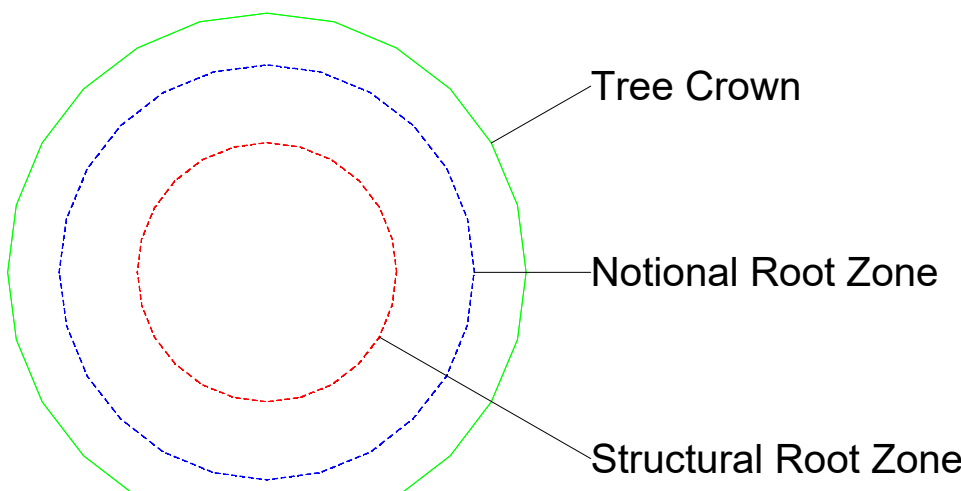
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24/11/2025

MAP FILENAME : Appendix 1B - Ground Floor Site Plan



Prepared by Hugh Millington



OPTION 1

- LEGEND:
- EXISTING BUILDING
 - PROPOSED BLOCK
 - PROPOSED PERFORMING ARTS/ FITNESS SPACES
 - PROPOSED OUTDOOR LEARNING AREA
 - PROPOSED GLAS
 - PROPOSED CIRCULATION/ TOILETS/ CHANGE ROOM
 - POSSIBLE LINK
 - EXISTING ROADS
 - OVAL
 - SITE BOUNDARY (FROM SURVEY)
 - EXISTING TREE (FROM SURVEY)
 - STEEP NATURAL GROUND LEVEL

1 OPTION 1 - FLOOR PLAN - LEVEL 1
SCALE 1 : 200

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B	02.09.2024	FOR CLIENT REVIEW	VM	
C	04.10.2024	FOR QS REVIEW	VM	

DRAWINGS COLOUR CODED
PRINT ALL COPIES IN COLOUR

• BUILDER TO CONFIRM ALL DETAILS, SETOUTS (TILE, BUILDING, ETC.), FALLS, DIMENSIONS & CONNECTIONS ON SITE PRIOR TO CONSTRUCTION

• ALL DRAWINGS TO BE READ IN CONJUNCTION WITH MULTI-TRADE SPECIFICATION PREPARED BY WEBBER ARCHITECTS.



webber

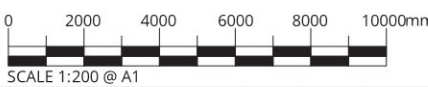
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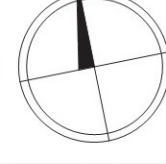
ISSUED
PRELIMINARY ONLY

COMMENCEMENT DATE : 08.06.2024
SHEET NUMBER : 2990 / 0302 / C

OPTION 1 - FLOOR PLAN - LEVEL 1
TRINITY CATHOLIC COLLEGE - GOULBURN
CLINTON ST & COLLEGE ST, GOULBURN NSW 2580



TRUE NORTH



Appendix 3 – Assessment of Health

<u>Category</u>	<u>Example condition</u>	<u>Summary</u>
Good	• Crown has good foliage density for species. • Tree shows no or minimal signs of pathogens that are unlikely to have an effect on the health of the tree. • Tree is displaying good vigour and reactive growth development.	• The tree is in above average health and condition and no remedial works are required.
Fair	• The tree may be starting to dieback or have over 25% deadwood. • Tree may have slightly reduced crown density or thinning. • There may be some discolouration of foliage. • Average reactive growth development. • There may be early signs of pathogens which may further deteriorate the health of the tree. • There may be epicormic growth indicating increased levels of stress within the tree.	• The tree is in below average health and condition and may require remedial works to improve the trees health.
Poor	• The may be in decline, have extensive dieback or have over 30% deadwood. • The canopy may be sparse or the leaves may be unusually small for species. • Pathogens or pests are having a significant detrimental effect on the tree health.	• The tree is displaying low levels of health and removal or remedial works may be required.
Dead	• The tree is dead or almost dead.	• The tree should generally be removed.

Appendix 4 Landscape Value

RATING	HERITAGE VALUE	ECOLOGICAL VALUE	AMENITY VALUE
1. SIGNIFICANT	The subject tree is listed as a Heritage Item under the Local Environment Plan (LEP) with a local, state or national level of significance or is listed on Council's Significant Tree Register	The subject tree is scheduled as a Threatened Species as defined under the Threatened Species Conservation Act 1995 (NSW) or the Environmental Protection and Biodiversity Conservation Act 1999	The subject tree has a very large live crown size exceeding 300m ² with normal to dense foliage cover, is located in a visually prominent position in the landscape, exhibits very good form and habit typical of the species
	The subject tree forms part of the curtilage of a Heritage Item (building /structure /artefact as defined under the LEP) and has a known or documented association with that item	The tree is a locally indigenous species, representative of the original vegetation of the area and is known as an important food, shelter or nesting tree for endangered or threatened fauna species	The subject tree makes a significant contribution to the amenity and visual character of the area by creating a sense of place or creating a sense of identity
	The subject tree is a Commemorative Planting having been planted by an important historical person (s) or to Commemorate an important historical event	The subject tree is a Remnant Tree, being a tree in existence prior to development of the area	The tree is visually prominent in view from surrounding areas, being a landmark or visible from a considerable distance
2. VERY HIGH	The tree has a strong historical association with a heritage item (building/structure/artefact/garden etc) within or adjacent the property and/or exemplifies a particular era or style of landscape design associated with the original development of the site.	The tree is a locally-indigenous species, representative of the original vegetation of the area and is a dominant or associated canopy species of an Endangered Ecological Community (EEC) formerly occurring in the area occupied by the site.	The subject tree has a very large live crown size exceeding 200m ² ; a crown density exceeding 70% (normal-dense), is a very good representative of the species in terms of its form and branching habit or is aesthetically distinctive and makes a positive contribution to the visual character and the amenity of the area
3. HIGH	The tree has a suspected historical association with a heritage item or landscape supported by anecdotal or visual evidence	The tree is a locally-indigenous species and representative of the original vegetation of the area and the tree is located within a defined Vegetation Link / Wildlife Corridor or has known wildlife habitat value	The subject tree has a large live crown size exceeding 100m ² ; The tree is a good representative of the species in terms of its form and branching habit with minor deviations from normal (e.g. crown distortion/suppression) with a crown density of at least 70% normal); The subject tree is visible from the street and surrounding properties and makes a positive contribution to the visual character and the amenity of the area
4. MODERATE	The tree has no known or suspected historical association, but does not detract or diminish the value of the item and is sympathetic to the original era of planting.	The subject tree is a non-local native or exotic species that is protected under the provisions of this DCP.	The subject tree has a medium live crown size exceeding 40m ² ; The tree is a fair representative of the species, exhibiting moderate deviations from typical form (distortion/suppression etc) with a crowndensity of more than 50% (thinning to normal); and The tree is visible from surrounding properties, but is not visually prominent – view may be partially obscured by other vegetation or built forms. The tree makes a fair contribution to the visual character and amenity of the area.
5. LOW	The subject tree detracts from heritage values or diminishes the value of a heritage item	The subject tree is scheduled as exempt (not protected) under the provisions of this DCP due to its species, nuisance or position relative to buildings or other structures.	The subject tree has a small live crown size of less than 40m ² and can be replaced within the short term (5-10 years) with new tree planting
6. VERY LOW	The subject tree is causing significant damage to a heritage Item.	The subject tree is listed as an Environment Weed Species in the Local Government Area, being invasive, or is a known nuisance species.	The subject tree is not visible from surrounding properties (visibility obscured) and makes a negligible contribution or has a negative impact on the amenity and visual character of the area. The tree is a poor representative of the species, showing significant deviations from the typical form and branching habit with a crown density of less than 50% (sparse).
7. INSIGNIFICANT	The tree is completely dead and has no visible habitat value	The tree is a declared Noxious Weed under the Noxious Weeds Act (NSW) 1993 within the relevant Local Government Area.	The tree is completely dead and represents a potential hazard.

Appendix 5 - Age class

Determining the exact age of a tree is difficult without carrying out potentially invasive testing. The age class of the subject tree has been estimated using the definitions below.

<u>Category</u>	<u>Description</u>
Young/Newly planted	• Young or recently planted tree.
Semi Mature	• Up to 20% of the usual life expectancy for the species.
Early mature/Mature	• Between 20% - 80% of the usual life expectancy for the species.
Over mature	• Over 80% of the usual life expectancy for the species.
Dead	• Tree is dead or almost dead.

Appendix 6 - Structural condition

<u>Category</u>	<u>Example condition</u>	<u>Summary</u>
Good	• Branch unions appear to be strong with no sign of defects. • There are no significant cavities. • The tree is unlikely to fail in usual conditions. • The tree has a balanced crown shape and form.	• The tree is considered structurally good with well developed form.
Fair	• The tree may have minor structural defects within the structure of the crown that could potentially develop into more significant defects. • The tree may have a cavity that is currently unlikely to fail but may deteriorate in the future. • The tree is an unbalanced shape or leans significantly. • The tree may have minor damage to its roots. • The root plate may have moved in the past but the tree has now compensated for this. • Branches may be rubbing or crossing.	• The identified defects are unlikely cause major failure. • Some branch failure may occur in usual conditions. • Remedial works can be undertaken to alleviate potential defects.
Poor	• The tree has significant structural defects. • Branch unions may be poor or weak. • The tree may have a cavity or cavities with excessive levels of decay that could cause catastrophic failure. • The tree may have root damage or is displaying signs of recent movement. • The tree crown may have poor weight distribution which could cause failure.	• The identified defects are likely to cause either partial or whole failure of the tree.

Appendix 7 - Safe Useful Life Expectancy (SULE), (Barrel, 2001)

A tree's safe useful life expectancy is determined by assessing a number of different factors including the health and vitality, estimated age in relation to expected life expectancy for the species, structural defects, and remedial works that could allow retention in the existing situation.

Category	Description
1. Long	Useful life expectancy over 40 years
2. Medium	Useful life expectancy 15 to 40 years
3. Short	Useful life expectancy 5 to 15 years
4. Remove	Useful life expectancy under 5 years
5. Small/Young	Trees that could be transplanted or replaced with similar specimen.
6. Unstable	Tree has become hazardous or structurally unstable.

Appendix 8 Retention Values

TreeAZ Categories (Version 10.04-ANZ)

CAUTION: TreeAZ assessments must be carried out by a competent person qualified and experienced in arboriculture. The following category descriptions are designed to be a brief field reference and are not intended to be self-explanatory. They must be read in conjunction with the most current explanations published at www.TreeAZ.com.

Category Z: Unimportant trees not worthy of being a material constraint

Local policy exemptions: Trees that are unsuitable for legal protection for local policy reasons including size, proximity and species

Z1	Young or insignificant small trees, i.e. below the local size threshold for legal protection, etc
Z2	Too close to a building, i.e. exempt from legal protection because of proximity, etc
Z3	Species that cannot be protected for other reasons, i.e. scheduled noxious weeds, out of character in a setting of acknowledged importance, etc

High risk of death or failure: Trees that are likely to be removed within 10 years because of acute health issues or severe structural failure

Z4	Dead, dying, diseased or declining
Z5	Severe damage and/or structural defects where a high risk of failure <u>cannot</u> be satisfactorily reduced by reasonable remedial care, i.e. cavities, decay, included bark, wounds, excessive imbalance, overgrown and vulnerable to adverse weather conditions, etc
Z6	Instability, i.e. poor anchorage, increased exposure, etc

Excessive nuisance: Trees that are likely to be removed within 10 years because of unacceptable impact on people

Z7	Excessive, severe and intolerable inconvenience to the extent that a locally recognized court or tribunal would be likely to authorize removal, i.e. dominance, debris, interference, etc
Z8	Excessive, severe and intolerable damage to property to the extent that a locally recognized court or tribunal would be likely to authorize removal, i.e. severe structural damage to surfacing and buildings, etc

Good management: Trees that are likely to be removed within 10 years through responsible management of the tree population

Z9	Severe damage and/or structural defects where a high risk of failure can be <u>temporarily</u> reduced by reasonable remedial care, i.e. cavities, decay, included bark, wounds, excessive imbalance, vulnerable to adverse weather conditions, etc
Z10	Poor condition or location with a low potential for recovery or improvement, i.e. dominated by adjacent trees or buildings, poor architectural framework, etc
Z11	Removal would benefit better adjacent trees, i.e. relieve physical interference, suppression, etc
Z12	Unacceptably expensive to retain, i.e. severe defects requiring excessive levels of maintenance, etc

NOTE: Z trees with a high risk of death/failure (Z4, Z5 & Z6) or causing severe inconvenience (Z7 & Z8) at the time of assessment and need an urgent risk assessment can be designated as ZZ. ZZ trees are likely to be unsuitable for retention and at the bottom of the categorization hierarchy. In contrast, although Z trees are not worthy of influencing new designs, urgent removal is not essential and they could be retained in the short term, if appropriate.

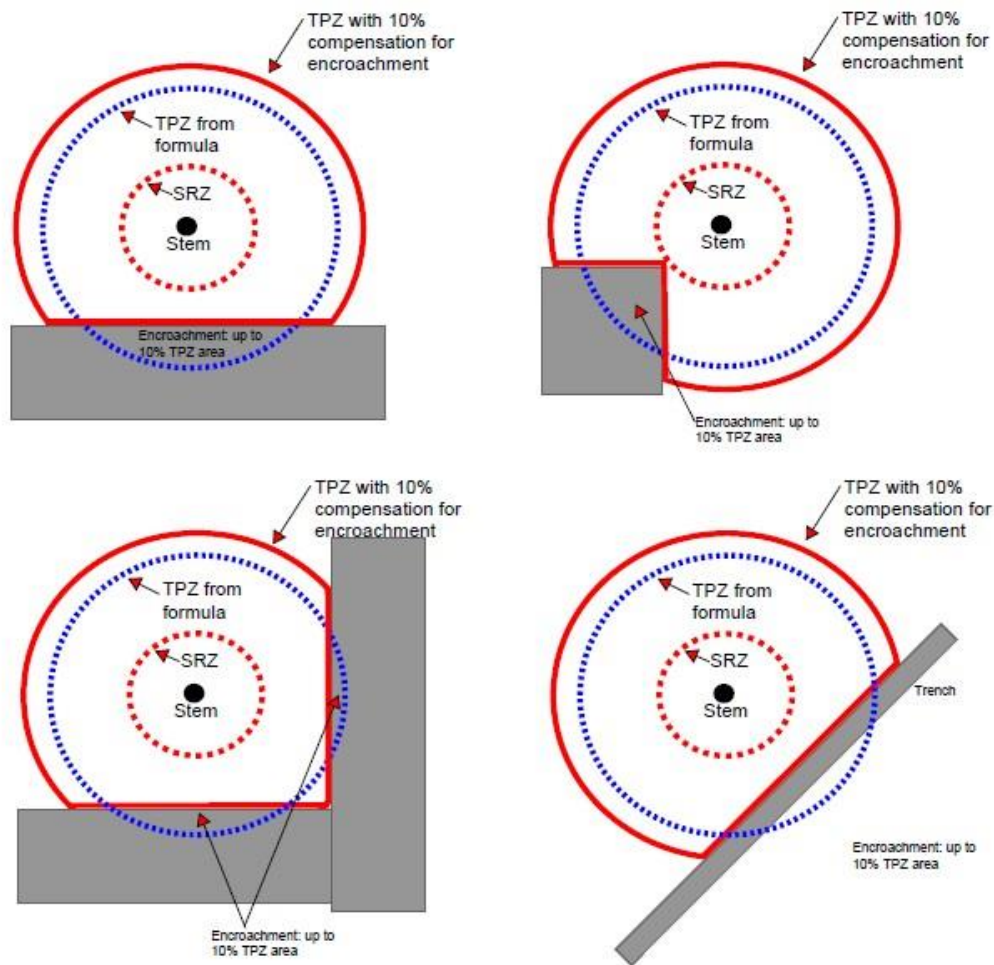
Category A: Important trees suitable for retention for more than 10 years and worthy of being a material constraint

A1	No significant defects and could be retained with minimal remedial care
A2	Minor defects that could be addressed by remedial care and/or work to adjacent trees
A3	Special significance for historical, cultural, commemorative or rarity reasons that would warrant extraordinary efforts to retain for more than 10 years
A4	Trees that may be worthy of legal protection for ecological reasons (Advisory requiring specialist assessment)

NOTE: Category A1 trees that are already large and exceptional, or have the potential to become so with minimal maintenance, can be designated as AA at the discretion of the assessor. Although all A and AA trees are sufficiently important to be material constraints, AA trees are at the top of the categorization hierarchy and should be given the most weight in any selection process.

Appendix 9 – Examples of TPZ Encroachment

Encroachment into the Tree Protection Zone is sometimes unavoidable. The following diagram shows examples of acceptable levels of encroachment and how they may be compensated for by providing additional space contiguous to the TPZ area.



Note: Less than 10% TPZ area and outside SRZ. Any loss of TPZ compensated for elsewhere.