



CONSULTANCY  
ARBORICULTURE  
PLANT PATHOLOGY

ARBORICULTURAL IMPACT ASSESSMENT  
&  
TREE PROTECTION SPECIFICATION

REF: L&Co24013 | 25 March 2025 | v2.3

SITE ADDRESS | Dalmeny Public School, 1612 Dalmeny Dr, Prestons NSW

PREPARED FOR | Department of Education (DoE)

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## 1.0 EXECUTIVE SUMMARY |

- 1.1 This Arboricultural Impact Assessment and Tree Protection Specification Report has been prepared to accompany a Review of Environmental Factors (REF) prepared for the Department of Education (DoE) relating to upgrades to Dalmeny Public School (the activity) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI).
- 1.2 The proposed activity for upgrades to Dalmeny Public School includes the demolition of existing demountables and construction of a classroom building, covered walkway, landscaping and upgrades to electrical and hydraulics booster and pump.
- 1.3 A total of forty-two (42) trees were assessed that were a mix of Australian native and exotic species. All trees located on adjacent properties and were assigned Retention Values of *Priority for Retention*.
- 1.4 In total, ten (10) trees will need to be removed to accommodate the proposed activities. Details on impacts as follows.
- 1.5 The supplied plans show no works are proposed within the TPZs of Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61, 65, 66, 68, 69, 70, 77 & 137. However, the tree protection measures outlined in this report should be implemented to avoid indirect impacts.
- 1.6 The proposed works represent a *Minor Encroachment* (as defined by AS4970) on Trees 40, 60, 72, 76, 78 & 138. However, a minor encroachment is considered acceptable by the standard when it is compensated for elsewhere and contiguous within the TPZ, as in the current cases. Further, the tree protection measures outlined in this report will reduce the likelihood of negative impacts on Trees 40, 60, 72, 76, 78 & 138.
- 1.7 The proposed landscaping works are within the SRZs of Trees 5, 6 & 7 and represent a *Major Encroachment* (as defined by AS4970). However, the proposed encroachment can be installed at or above the existing grade and negative impacts can be avoided if the tree sensitive construction methods and protection measures outlined in this report are implemented. The trees can be retained, and the works are considered acceptable under the Australian Standard AS4970, Clause 3.3.4.
- 1.8 The proposed electrical trenching is within the TPZ/SRZs of Trees 50, 51, 52, 53, 54, 55, 57 and 104 and represents a *Major Encroachment* (as defined by AS4970). These trees will need to be removed as the TPZ encroachment is too large for their long-term viability, based on a consideration of their health, structure and the size of the encroachment. These trees were all assigned Low Landscape Significance Values except for Trees 55, 57 and 104 that were assigned Moderate Landscape Significance Values.
- 1.10 The proposed hydraulic upgrades are within the TPZ/SRZ of Tree 103 represents a *Major Encroachment* (as defined by AS4970). Tree 103 will need to be removed as the TPZ encroachment is too large for the long-term viability, based on a consideration of the health, structure and the size of the encroachment. Tree 103 was assigned a High Landscape Significance Value.
- 1.11 Tree 23 is within the footprint of the proposed building footprint and will need to be removed. Tree 23 was assigned a Low Significance Value and exempt from the Councils Tree Management.
- 1.12 No Construction Management Plan (CMP) was provided and the impact from site access could not be assessed. The impacts from the CMP must be reviewed by the Project Arborist prior to the issue of the Construction Certificate to minimise indirect impacts on the tree population.

## 2.0 INTRODUCTION |

### 2.1 Background

2.2 This Arboricultural Impact Assessment and Tree Protection Specification Report has been prepared to accompany a Review of Environmental Factors (REF) prepared for the Department of Education (DoE) relating to upgrades to Dalmeny Public School (the activity) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI). This report has determined the impact of the proposed works on the trees at 1612 Dalmeny Dr, Prestons NSW and neighbouring properties and where appropriate, has provided tree sensitive construction methods to minimise negative impacts to the trees.

2.2.1 In preparing this report, the author is aware of and has considered the objectives of the Liverpool City Council's - *Liverpool Development Control Plan Part 2: Tree Preservation (2008)*, *Liverpool Local Environment Plan (2008)*; *Liverpool City Council Tree Management Policy (2016)*, *Australian Standard 4970 Protection of Trees on Development Sites (2009)*, *Australian Standard 4373 Pruning of Amenity Trees (2007)* and *Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016)*.

2.2.2 Further methodology used in the preparation of this report is detailed in Appendix 1.

2.2.3 This Arboricultural Impact Assessment was based on an assessment of the following supplied documentation/plans only (Appendix 4):

- Drawing number A4045-1-C Survey Prepared by Astrea. Dated 17.10.2024
- Bulk Earthworks Plan Prepared by Meinhardt Dated 10.01.2025
- Proposed Site Plan Prepared by Fulton Trotter Architects. Dated 24.02.2025
- Civil Siteworks Plan Prepared by Meinhardt Dated 10.01.2025
- Hydraulic Services, Proposed Site Plan Prepared by Acor Dated 18.12.2024
- Electrical Services Site Plan Prepared by NDY Dated 14.02.2025
- Landscape Plan Prepared by Ground Ink Dated 17.02.2025
- Proposed Ground Floor Plan Prepared by Fulton Trotter Architects . Dated 24.02.2025.
- Proposed Siteworks Plan Prepared by Fulton Trotter Architects. Dated 24.02.2025.

### 2.3 The Proposal

2.3.1 The proposed activity for upgrades to Dalmeny Public School includes the demolition of existing demountables and construction of a classroom building, covered walkway, landscaping and upgrades to electrical and hydraulics booster and pump.

## 3.0 RESULTS |

### 3.1 The Site

3.1.1 The site is a rectangular block with a mix of built structures, landscaped areas, and sporting fields.

3.1.2 The site is bounded by Dalmeny Drive to the north, and residential areas to the south, east and west.

### 3.2 The Trees

3.2.1 A Visual Tree Assessment (VTA) (Mattheck & Breloer, 2003) has been undertaken on trees growing within the site to determine their health and structural condition (Appendix 2). A full VTA of trees located outside of the site boundaries was not undertaken due to limited access. The species and trunk diameter were recorded for the purposes of determining Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) calculations only. The distance of each tree from the site boundary is an approximation due to limited access.

3.2.2 The Australian Standard 4970: *Protection of Trees on Development Sites* (2009) Clause 2.3.2, requires the allocation of a Tree Retention Value. This value is based on the Useful Life Expectancy (ULE) and Landscape Significance, which considers the tree's health, structural condition and site suitability. The Retention Value does not consider any proposed development works and is not a schedule for tree retention or removal. The trees have been allocated one of the following Retention Values:

- Priority for Retention
- Consider for Retention
- Consider for Removal
- Priority for Removal

3.2.3 The Australian Standard 4970: *Protection of Trees on Development Sites* (2009) also requires the calculation of the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) for each tree (Appendix 1).

3.2.4 A total of forty-two (42) trees and group trees were assessed which were a mix of Australian native and exotic species.

3.2.5 A search of the BioNet Atlas of NSW Wildlife Database was undertaken in March 2025. No individual threatened tree species that were listed within this database for the area were identified during the current field investigations of the site. The ecological significance and habitat value of the trees has not been assessed and is beyond the scope of this report.

3.2.6 Trees 1, 2, 3, 4, 5, 6, 7, 20, 21, 22, 40, 41, 42, 47, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65, 66, 68, 69, 70, 71, 72, 76, 77, 78, 102, 103, 137 & 138 were within the site boundary and covered by the council's tree management controls.

3.3 Trees 23 is exempt from the council's tree management controls.

#### **4.0 ARBORICULTURAL IMPACT ASSESSMENT |**

##### **4.1 Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61, 65, 66, 68, 69, 70, 77 and 137**

4.1.1 Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61, 65, 66, 68, 69, 70, 77 and 137 are not directly impacted by the proposed activities. Refer to Appendix 2 for species identifications and further details.

4.1.2 The following TPZ protection must be installed to avoid indirect impacts.

4.1.3 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.

4.1.4 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.

4.1.5 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.

4.1.6 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.

4.1.7 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.

4.1.8 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.

##### **4.2 Trees 40, 60, 72, 76, 78 & 138**

4.2.1 Trees 40, 60, 72, 76, 78 & 138 were assigned Moderate to High Landscape significance values. Refer to Appendix 2 for species identifications and further details.

4.2.2 The proposed electrical trenching is within the TPZ of Trees 40, 60 & 138. The proposed TPZ encroachment is approximately 5.7%, 5.5% and 0.6% for trees 40, 60 & 138, respectively, which represents a *Minor Encroachment*.

4.2.3 The proposed landscaping, hydraulic & electrical trenching is within the TPZ of Trees 72, 76 & 78. The proposed TPZ encroachment is approximately 8.8%, 6.5% and 9.2% for trees 72, 76 & 78, respectively, which represents a *Minor Encroachment*.

4.2.4 A *Minor Encroachment* as defined by AS4970 is considered acceptable by the standard when it is compensated for elsewhere and contiguous within the TPZ, as in the current cases and Trees 40, 60, 72, 76, 78 & 138 can be retained if the following tree sensitive construction methods and protection measures are carefully implemented under the supervision of the Project Arborist.

4.2.5 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.

4.2.6 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.

- 4.2.7 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.
- 4.2.8 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.
- 4.2.9 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.
- 4.2.10 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.
- 4.3 **Trees 5, 6 & 7**
- 4.3.1 Trees 5, 6 & 7 were assigned Low and High Landscape Significance values. Refer to Appendix 2 for species identifications and further details.
- 4.3.2 The proposed landscaping turf works are within the SRZs of Trees 5, 6 & 7 and represent a *Major Encroachment* (as defined by AS4970). However, the proposed encroachment can be installed at or above the existing grade and negative impacts can be avoided if the tree sensitive construction methods and protection measures outlined in this report are implemented. The trees can be retained, and the works are considered acceptable under the Australian Standard AS4970, Clause 3.3.4.
- 4.3.3 Given the good physiological condition of the trees and the type of above grade encroachment, the proposed landscaping works can be accommodated. However, given the size of encroachment the proposal represents a significant risk to the tree's long term structural and physiological viability and therefore the following tree sensitive construction methods and protection measures are carefully implemented under the supervision of the Project Arborist. Significant departures from the detailed tree sensitive construction methods and protection measures are likely to result in a shortened ULE and/or tree removal.
- 4.3.4 All landscaping treatments must be installed at or above grade, including sub-base materials.
- 4.3.5 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.
- 4.3.6 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.
- 4.3.7 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.
- 4.3.8 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.
- 4.3.9 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.
- 4.3.10 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.
- 4.4 **Trees 50, 51, 52, 53, 54, 55, 57 & 104**
- 4.4.1 Trees 50, 51, 52, 53, 54, 55, 57 & 104 were mostly assigned Low Landscape Significance values except for Trees 55, 57 & 104 that were assigned Moderate Landscape Significance values. Refer to Appendix 2 for species identifications and further details.
- 4.4.2 The proposed electrical trenching and preferred supply option is within the TPZ/SRZs of Trees 50, 51, 52, 53, 54, 55, 57 & 104 and represents a *Major Encroachment* (as defined by AS4970). Works within the SRZ represent a *Major Encroachment* as defined by AS-4970 as root severance within the SRZ can lead to the destabilisation of the trees. The overall TPZ encroachment was estimated to be *Major Encroachment* as defined by AS-4970.
- 4.4.3 Given the size and location of the encroachment, the long term structural and physiological viability of Trees 50, 51, 52, 53, 54, 55, 57 & 104 is highly likely to be compromised by the proposed encroachment and the tree will need to be removed to accommodate the works.
- 4.4.4 Refer to Appendix 4 for further detail.
- 4.4.5 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a short to medium timeframe.
- 4.5 **Tree 103**
- 4.5.1 Tree 103 was identified as *Corymbia maculata* (Spotted Gum) and was allocated a High Landscape Significance Value and a Retention Value of *Consider for Retention*.
- 4.5.2 The proposed hydraulic upgrades are within the SRZ of Tree 103. Works within the SRZ represent a *Major Encroachment* as defined by AS-4970 as root severance within the SRZ can lead to the destabilisation of the tree.

- 4.5.3 Given the size and location of the encroachment, the long term structural and physiological viability of Tree 103 is highly likely to be compromised by the proposed encroachment and the tree will need to be removed to accommodate the works.
- 4.5.4 Refer to Appendix 4 for further detail.
- 4.5.5 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a medium timeframe.
- 4.6 **Tree 23**
- 4.6.1 Tree 23 was assigned a Low Landscape Significance Values. Tree 23 is exempt from the Council's Tree Management based on dimensions/species and can be removed without Council consent.
- 4.6.2 Tree 23 is within the footprint of the proposed building footprint and will need to be removed.
- 4.6.3 Refer to Appendix 2 & 4 for further detail.
- 4.6.4 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a short to medium timeframe.
- 4.7 **Removal & Replacement Planting**
- 4.7.1 Removal works should be carried out by a practising arborist. The practising arborist should hold a minimum qualification equivalent (using Australian Qualifications Framework) of Level 3 or above in arboriculture or its recognised equivalent. The practising arborist should have a minimum of 3 years of practical experience. Removal works should be undertaken in accordance with the Australian Standard 4373: Pruning of Amenity Trees (2007), Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016) and other applicable legislation and codes.
- 4.7.2 Replacement tree planting should be provided when trees are removed. Replacement trees should be supplied as advanced size stock to help offset the loss of amenity resultant from the tree removals.
- 4.7.3 Replacement planting should be supplied in accordance with Australian Standard 2303: Tree Stock for Landscape Use (2015).



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## 5.0 REFERENCES |

Mattheck & Breloer (2003), *The Body Language of Trees – A Handbook for Failure Analysis*.

NSW Office of Environment and Heritage's Atlas of NSW Wildlife (2011), *BioNet Atlas of NSW Wildlife*.

Standards Australia (2009) Protection of Trees on Development Sites AS4970.

Standards Australia (2007) Pruning of Amenity Trees AS4373.

Standards Australia (2015) Tree Stock for Landscape Use AS2303.

## 6.0 APPENDIX 1 | METHODOLOGY

- 6.1 This report was based on data from a site inspection conducted between 03.02.2023, 3.11.23, 25.10.25 & 20.2.25. The recommendations in this report are based on and limited to observations from these site inspections.
- 6.2 The subject tree(s) was assessed using the Visual Tree Assessment methodology described in *The Body Language of Trees – A Handbook for Failure Analysis* (Mattheck et al., 2003). Subject trees were assessed from the ground only to provide an Arboricultural Impact Assessment and Tree Protection Specification report. No internal diagnostic testing was undertaken as part of this assessment. Trees outside the subject site were assessed from the property boundaries only.
- 6.3 The dimensions of the subject tree(s) are an approximation only.
- 6.4 The location of the subject tree(s) was determined from the location plan provided. Trees not shown on this plan have been plotted in their approximate location only.
- 6.5 Tree Protection Zones & Structural Root Zones for the subject tree(s) was based on methods outlined in Australian Standard 4970: *Protection of Trees on Development Sites* (2009).
- 6.6 The health of the subject tree(s) was determined by assessing:
- Foliage size and colour
  - Pest and disease infestation
  - Extension growth
  - Crown density
  - Deadwood size and volume
  - Presence of epicormic growth
- 6.7 The structural condition of the subject tree(s) was assessed by:
- Visible evidence of structural defects or instability
  - Evidence of previous pruning or physical damage
- 6.8 The Useful Life Expectancy (ULE) is used to estimate a tree's longevity in its growing environment. The ULE is based on a tree's species, health, structural condition and site suitability. The tree(s) has been allocated one of the following ULE categories (modified from Barrell, 2001):
- 40 years +
  - 15-40 years
  - 5-15 years
  - Less than 5 years
- 6.9 The Landscape Significance is based on a qualitative assessment of a tree's cultural, environmental and aesthetic value. This provides a relative measure of a tree's Landscape Significance and can be used to determine its Retention Value. Trees are rated under the following categories:
- Very High
  - High
  - Moderate
  - Low
  - Insignificant

LANDSCAPE SIGNIFICANCE	DESCRIPTION
VERY HIGH	<p>The subject tree is listed as a Heritage Item under the Local Environmental Plan with a local or state level of significance.</p> <p>The subject tree is listed on Council's Significant Tree Register.</p> <p>The subject tree is a remnant tree.</p>
HIGH	<p>The subject tree creates a 'sense of place' or is considered 'landmark' tree.</p> <p>The subject tree is of local, cultural or historical importance or is widely known.</p> <p>The subject tree has been identified by a suitably qualified professional as a species scheduled as a Threatened or Vulnerable Species or forms part of an Endangered Ecological Community associated with the subject site, as defined under the provisions of the Threatened Species Conservation Act 1995 (NSW) or the Environmental Protection and Biodiversity Conservation Act 1999.</p> <p>The subject tree is known to provide habitat to a threatened species.</p> <p>The subject tree is an excellent representative of the species in terms of aesthetic value.</p> <p>The subject tree is of significant size, scale or makes a significant contribution to the canopy cover of the locality.</p> <p>The subject tree forms part of the curtilage of a heritage item with a known or documented association with that item.</p>
MODERATE	<p>The subject tree makes a positive contribution to the visual character or amenity of the area.</p> <p>The subject tree provides a specific function such as screening or minimising the scale of a building.</p> <p>The subject tree has a known habitat value.</p> <p>The subject tree is a good representative of the species in terms of aesthetic value.</p>
LOW	<p>The subject tree is an environmental pest species or is exempt under the provisions of the local Council's Tree Management Controls.</p> <p>The subject tree makes little or no contribution to the amenity of the locality.</p> <p>The subject tree is a poor representative of the species in terms of aesthetic value.</p>
INSIGNIFICANT	<p>The subject tree is declared a Noxious Weed under the Noxious Weeds Act.</p>

The above table was provided by Anna Hopwood of TreeIQ™ and was modified from the Earthscape Criteria for Assessment of Landscape Significance.

6.10 The Retention Value is based on a tree’s ULE and Landscape Significance. The subject tree(s) has been allocated one of the following Retention Values:

- Priority for Retention
- Consider for Retention
- Consider for Removal
- Priority for Removal

ULE	LANDSCAPE SIGNIFICANCE				
	VERY HIGH	HIGH	MODERATE	LOW	INSIGNIFICANT
40 years +	<i>Priority for Retention</i>	<i>Priority for Retention</i>		<i>Consider for Removal</i>	<i>Priority for Removal</i>
15-40 years		<i>Priority for Retention</i>	<i>Consider for Retention</i>		
5-15 years	<i>Consider for Retention</i>				
Less than 5 years	<i>Consider for Removal</i>	<i>Priority for Removal</i>			

The above table was provided by Anna Hopwood of TreelQ™

6.11 The Tree Protection Zone (TPZ) is the area above and below ground required to preserve the vigour and long-term viability of the tree. The TPZ is based on scientific research and is generally considered by the arboricultural industry as the area required to provide adequate tree protection during construction. The TPZ is the primary means of protecting trees on development sites (Australian Standard 4970: *Protection of Trees on Development Sites*, 2009).

6.12 Works within the TPZ should be avoided. However, *Minor Encroachments*, defined in AS4970 as less than 10% of the TPZ area, are considered acceptable when it is compensated for elsewhere and contiguous within the TPZ. A *Major Encroachment*, defined in AS4970 as greater than 10% of the TPZ area or within the Structural Root Zone (SRZ), may require root investigations by non-destructive methods and tree sensitive construction methods.

6.13 The TPZ is the area within a circle that is centred on the trunk. The radius of the TPZ is calculated by the following formula:

$$TPZ = DBH \times 12$$

where

DBH= Diameter at Breast Height (1.4m)

- 6.14 The SRZ is the minimum area around the base of the tree required for the tree's stability. The SRZ only relates to tree stability and not the vigour and long-term viability of the tree.
- 6.15 The SRZ is the area within a circle that is centred on the trunk. The radius of the SRZ is calculated by the following formula:

$$SRZ = (D \times 50)^{0.42} \times 0.64$$

where

D = Trunk diameter (m) above the root buttress

- 6.16 Encroachment into SRZ (i.e. severance of structural roots >25mmØ) may lead to the destabilisation of the tree and the long-term viability must be demonstrated in such cases. This may require root investigations by non-destructive methods.
- 6.17 For further details on the TPZ and SRZ please refer to Australian Standard 4970: *Protection of Trees on Development Sites* (2009).

## 7.0 APPENDIX 2 | TREE ASSESSMENT SCHEDULE

Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m <sup>2</sup> )	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
1	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	7	3	200	2	18	1.8	Fair	Good	Senescent	5-15	Low	Consider for Removal		No Encroachment (Retain)
2	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	16	8	300	4	41	2.1	Good	Good	Mature	15-40	Moderate	Consider for Retention	4m	No Encroachment (Retain)
3	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	16	8	300	4	41	2.1	Good	Fair	Mature	15-40	High	Priority for Retention	3.6 Co-dominant inclusions, minor.	No Encroachment (Retain)
4	<i>Corymbia maculata</i> (Spotted Gum)	16	8	225	3	23	1.8	Good	Good	Mature	15-40	High	Priority for Retention	3.2	No Encroachment (Retain)
5	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	14	3	200	2	18	1.8	Good	Good	Semi-mature	5-15	Low	Consider for Removal	2.66	35.9% (SRZ - Retain)
6	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	17	5	300	4	41	2.1	Good	Good	Mature	15-40	High	Priority for Retention	Crown over building 2.4	19.9% (SRZ - Retain)
7	<i>Eucalyptus tereticornis</i> (Forest Red Gum)	20	7	375	5	64	2.3	Fair	Fair	Late Mature	5-15	High	Consider for Retention	2.9 Crown density 50-75%. Co-dominant inclusions, minor. Wound(s), early signs of decay. Borer.	27.5% (SRZ - Retain)
20	<i>Corymbia maculata</i> (Spotted Gum)	22	8	575	7	150	2.7	Good	Poor	Mature	5-15	High	Consider for Retention	Wound(s), advanced stages of decay. Trunk cavity(s), major. Borer.	9.6% (Retain)
21	<i>Corymbia maculata</i> (Spotted Gum)	17	7	350	4	55	2.2	Good	Good	Mature	15-40	High	Priority for Retention		No Encroachment (Retain)

Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m <sup>2</sup> )	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
22	<i>Morus sp.</i> (Mulberry tree)	6	2	106	2	13	1.5	Good	Fair	Mature	5-15	Low	Consider for Removal	Co-dominant inclusions, minor.	No Encroachment (Retain)
23	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	3	2	71	2	13	1.5	Good	Fair	Mature	5-15	Low	Consider for Removal	Lopped. Limited crown clearance. Structures within SRZ.	43.0% (SRZ-Remove)
40	<i>Fraxinus sp.</i> (Raywood)	12	6	325	4	48	2.1	Fair	Good	Mature	5-15	Moderate	Consider for Retention	LCD Crown density 75-95%. Small (<25mm $\emptyset$ ) & medium (25-75mm $\emptyset$ ) deadwood in low volumes. Limited crown clearance. Structures within SRZ.	5.7% (Retain)
41	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	3	100	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal	Structures within SRZ.	16.7% (Retain)
42	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	3	71	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal		No Encroachment (Retain)
47	<i>Acer buergeranum</i> (Trident Maple)	10	4	141	2	13	1.5	Good	Good	Mature	5-15	Moderate	Consider for Retention	Small (<25mm $\emptyset$ ) epicormic growth in high volumes. Borer.	No Encroachment (Retain)
50	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	2	75	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal	Limited crown clearance. Structures within SRZ.	Within Development Footprint (Remove)
51	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	2	106	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal		Within Development Footprint (Remove)
52	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	2	50	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal		Within Development Footprint (Remove)

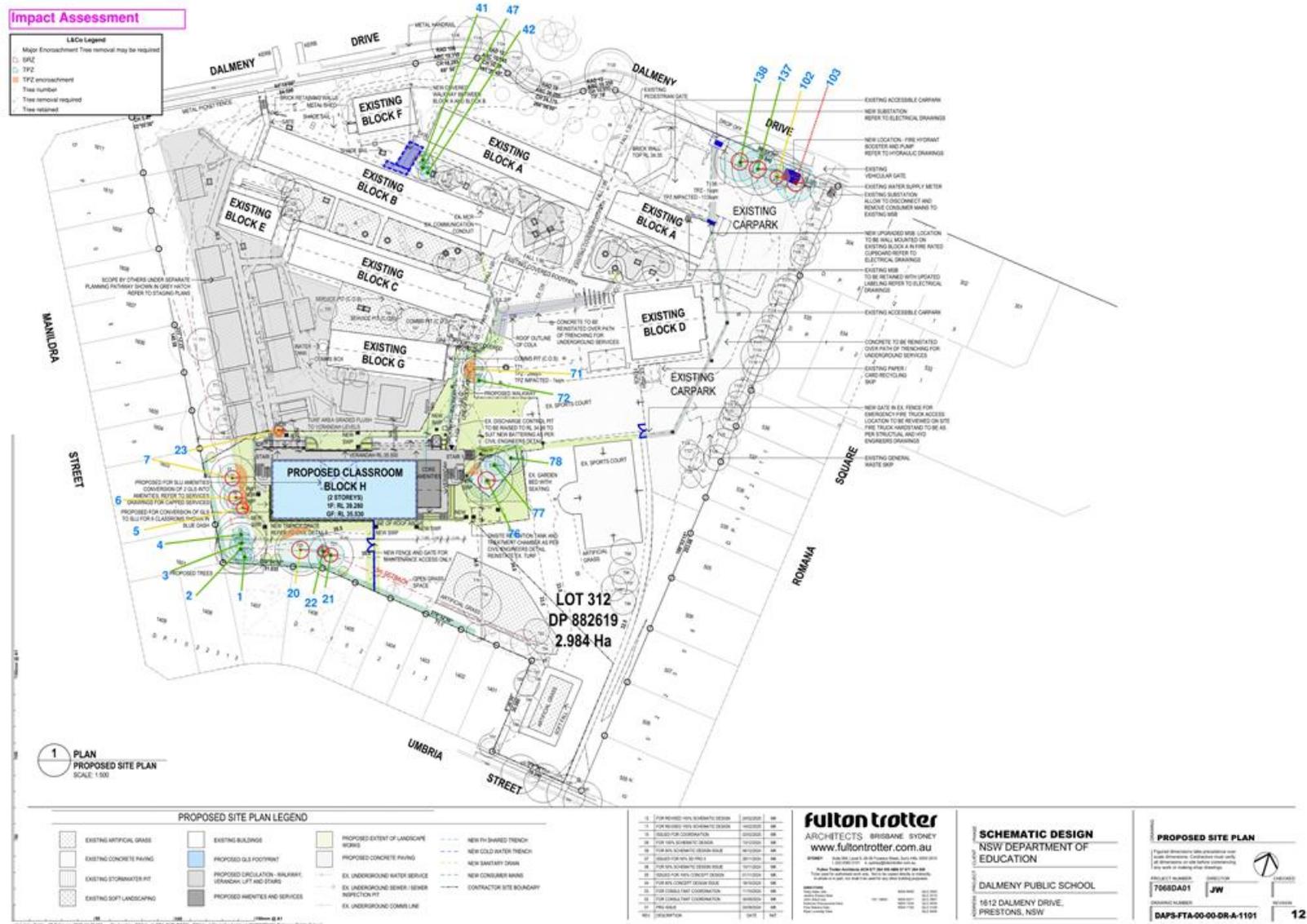
Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m <sup>2</sup> )	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
53	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	2	100	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal		Within Development Footprint (Remove)
54	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	6	2	50	2	13	1.5	Good	Good	Mature	5-15	Low	Consider for Removal		Within Development Footprint (Remove)
55	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	10	5	219	3	22	1.8	Good	Good	Mature	5-15	Moderate	Consider for Retention	Wound(s), no visible sign of decay. Structures within SRZ.	17.9%
56	<i>Syzygium leuhmannii</i> (Small Leaved Lilly Pilly)	10	5	125	2	13	1.5	Good	Good	Mature	5-15	Moderate	Consider for Retention		No Encroachment (Retain)
57	<i>Lagerstroemia indica</i> (Crepe Myrtle)	7	4	125	2	13	1.5	Good	Good	Mature	5-15	Moderate	Consider for Retention	Limited crown clearance. Structures within SRZ.	20.7% (SRZ-Remove)
58	<i>Platanus orientalis</i> (Oriental Plane Tree)	14	6	300	4	41	2.1	Good	Good	Mature	15-40	Moderate	Consider for Retention	Structures within SRZ.	No Encroachment (Retain)
59	<i>Platanus orientalis</i> (Oriental Plane Tree)	14	6	250	3	28	1.9	Good	Fair	Mature	15-40	Moderate	Consider for Retention	Order branch cavity, minor.	No Encroachment (Retain)
60	<i>Platanus orientalis</i> (Oriental Plane Tree)	14	5	200	2	18	1.8	Fair	Fair	Mature	15-40	Moderate	Consider for Retention	Crown density 25-50%. Small (<25mm $\varnothing$ ) epicormic growth in moderate volumes. Trunk cavity(s), minor.	5.5% (Retain)
61	<i>Platanus orientalis</i> (Oriental Plane Tree)	15	7	400	5	72	2.3	Good	Good	Mature	15-40	High	Priority for Retention	Wound(s), no visible sign of decay. Structures within SRZ. Pavement over roots.	No Encroachment (Retain)

Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m <sup>2</sup> )	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
65	<i>Syncarpia glomulifera</i> (Turpentine)	6	3	90	2	13	1.5	Good	Good	Young	5-15	Low	Consider for Removal	Congested bances Chlorotic foliage.	No Encroachment (Retain)
66	<i>Melaleuca quinquenervia</i> (Broad Leaved Paperbark)	10	3	200	2	18	1.8	Fair	Good	Semi-mature	5-15	Moderate	Consider for Retention	Small (<25mm $\emptyset$ ) epicormic growth in high volumes. Pavement over roots.	No Encroachment (Retain)
68	<i>Pistacia chinensis</i> (Chinese Pistachio)	7	4	125	2	13	1.5	Fair	Good	Mature	5-15	Low	Consider for Removal	Small (<25mm $\emptyset$ ) epicormic growth in moderate volumes. Limited crown clearance. Structures within SRZ. Phototrophic lean, moderate.	No Encroachment (Retain)
69	<i>Pistacia chinensis</i> (Chinese Pistachio)	10	5	215	3	21	1.8	Fair	Good	Mature	5-15	Low	Consider for Removal	Crown density 50-75%. Small (<25mm $\emptyset$ ) deadwood in moderate volumes. Limited crown clearance. Structures within SRZ.	No Encroachment (Retain)
70	<i>Morus sp.</i> (Mulberry tree)	9	5	0	2	0	1.5	Good	Poor	Late Mature	5-15	Low	Consider for Removal	Small (<25mm $\emptyset$ ) epicormic growth in high volumes. Co-dominant inclusions, major. Bark inclusion(s), major. Wound(s), early signs of decay. Limited crown clearance. Structures within SRZ.	No Encroachment (Retain)
71	<i>Melaleuca quinquenervia</i> (Broad Leaved Paperbark)	7	4	250	3	28	1.9	Good	Good	Mature	5-15	Moderate	Consider for Retention	Small (<25mm $\emptyset$ ) deadwood in moderate volumes. Co-dominant inclusions, minor. Pavement over roots.	57.3% (Retain)
72	<i>Tristaniopsis laurina</i> (Water gum)	4	4	100	2	13	1.5	Fair	Fair	Semi-mature	5-15	Low	Consider for Removal	Crown density 50-75%. Order branch cavity, minor. Structures within SRZ. Pavement over roots.	8.8% (Retain)
76	<i>Corymbia maculata</i> (Spotted Gum)	19	8	500	6	113	2.6	Good	Good	Mature	15-40	High	Priority for Retention	Medium (25-75mm $\emptyset$ ) deadwood in low volumes. Mechanical damage to exposed surface roots.	6.5% (Retain)
77	<i>Corymbia maculata</i> (Spotted Gum)	10	5	250	3	28	1.9	Good	Good	Semi-mature	5-15	Moderate	Consider for Retention	Wound(s), no visible sign of decay.	No Encroachment (Retain)

Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m <sup>2</sup> )	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
78	<i>Corymbia maculata</i> (Spotted Gum)	12	5	350	4	55	2.2	Good	Fair	Mature	15-40	Moderate	Consider for Retention	Co-dominant inclusions, minor. Bark inclusion(s), minor. Wound(s), early signs of decay. Borer.	9.2% (Retain)
102	<i>Corymbia maculata</i> (Spotted Gum)	18	8	325	4	48	2.1	Fair	Good	Mature	15-40	High	Priority for Retention	Crown density 50-75%. Small (<25mm $\emptyset$ ) epicormic growth in moderate volumes. Trunk cavity(s), minor. Structures within SRZ.	12.3% (Retain)
103	<i>Corymbia maculata</i> (Spotted Gum)	18	8	550	7	137	2.7	Fair	Poor	Late Mature	5-15	High	Consider for Retention	Crown density 50-75%. Co-dominant inclusions, major. Bark inclusion(s), major. Wound(s), early signs of decay. Trunk cavity(s), major. Structures within SRZ.	Within Development Footprint (Remove)
104	<i>Eucalyptus nicholii</i> (Small Leaved Peppermint)	12	5	300	3.6	40.7	2.1	Good	No access to base. No rating.	Mature	5-15	Moderate	Consider for Retention	Small (<25mm $\emptyset$ ) deadwood in moderate volumes. Structures within SRZ.	Within Development Footprint (Remove)
137	<i>Corymbia maculata</i> (Spotted Gum)	18	8	350	4	55	2.2	Fair	Good	Mature	15-40	High	Priority for Retention	Crown density 75-95%. Small (<25mm $\emptyset$ ) deadwood in low volumes. Wound(s), no visible sign of decay.	No Encroachment (Retain)
138	<i>Corymbia maculata</i> (Spotted Gum)	18	8	475	6	102	2.5	Good	Fair	Mature	15-40	High	Priority for Retention	Crown density 75-95%. Small (<25mm $\emptyset$ ) deadwood in low volumes. Co-dominant inclusions, minor. Adaptive growth.	0.6% (Retain)



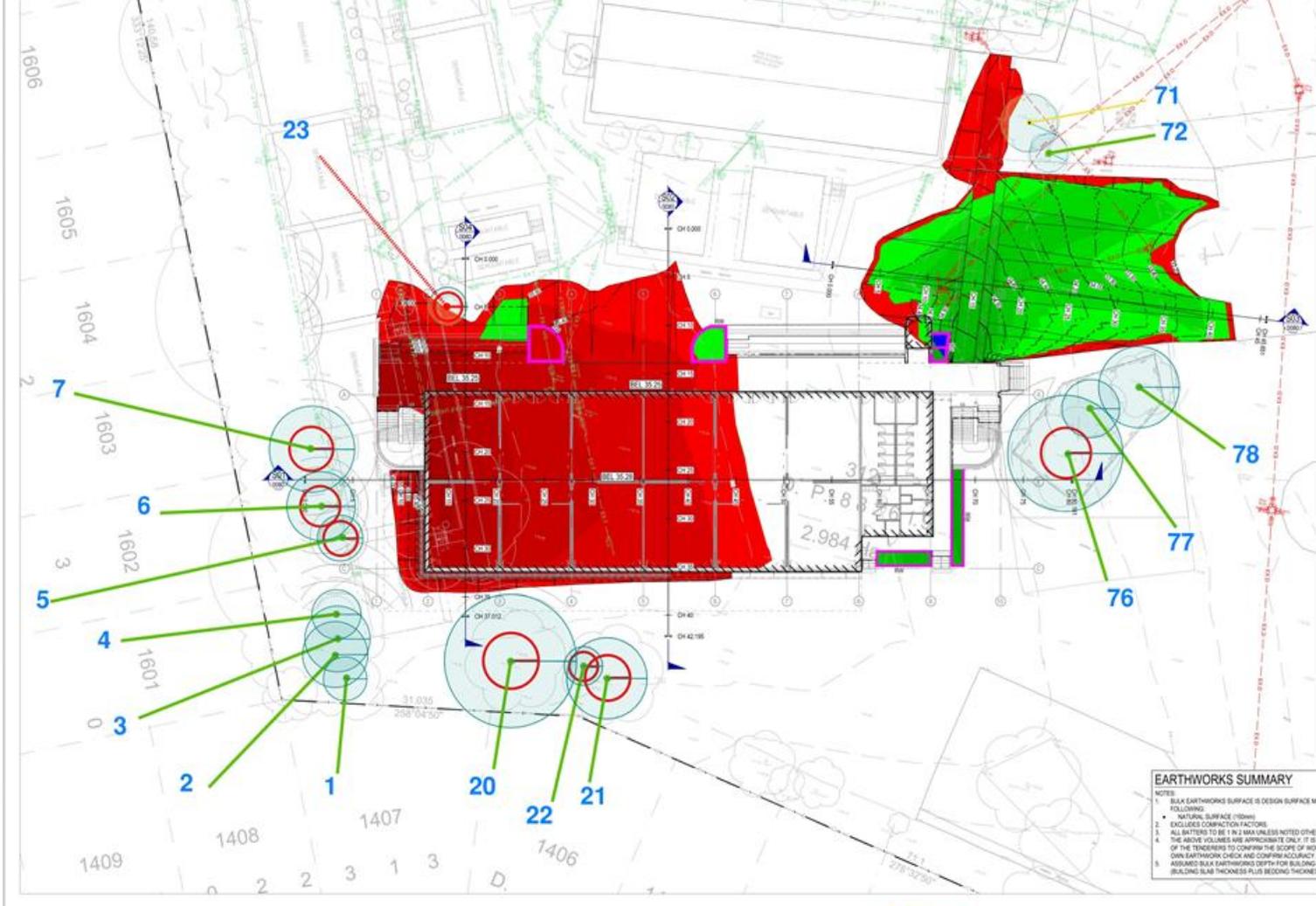
9.0 APPENDIX 4 | ARBORICULTURAL IMPACT ASSESSMENT PLANS



**Impact Assessment**

**L&Co Legend**

- Major Encroachment Tree removal may be required
- TPZ
- TPZ encroachment
- Tree removal required



**LEGEND**

ITEM	DESCRIPTION
10.0	EXISTING SURFACE CONTOURS
10.1	PROPOSED SURFACE CONTOURS
10.2	EXISTING SURFACE SPOT LEVELS
10.3	TITLE BOUNDARY
10.4	EXISTING STORMWATER DRAIN
10.5	EXISTING STORMWATER PIT
10.6	EXISTING STORMWATER PIT TO BE MODIFIED
10.7	PROPOSED RETAINING WALL
10.8	EXISTING SEWER
10.9	EXISTING GAS
10.10	EXISTING WATER
10.11	EXISTING RECYCLED WATER
10.12	EXISTING ELECTRICITY
10.13	EXISTING OVERHEAD ELECTRICITY
10.14	EXISTING LOW VOLTAGE ELECTRICITY
10.15	EXISTING HIGH VOLTAGE ELECTRICITY
10.16	EXISTING TELECOM CABLE
10.17	EXISTING FIBRE OPTIC CABLE
10.18	EXISTING NBN COAXIAL CABLE
X	EXISTING FEATURES TO BE REMOVED

**EARTHWORKS QUANTITIES**

150mm STERILISED FILL: 3.32M<sup>3</sup>

TOTAL CUT VOLUME: 42M<sup>3</sup>

TOTAL FILL VOLUME: 76M<sup>3</sup>

NET EARTHWORKS: 34M<sup>3</sup>

150mm LOCAL FACTORY PRODUCE 30mm & VOLUMES TO BE REDUCED FROM SITE

**BULK EARTHWORKS**

ID	MIN. ELEVATION	MAX. ELEVATION	COLOUR
1	-3.000	-1.800	Orange
2	-1.000	-1.400	Red
3	-1.400	-1.200	Dark Red
4	-1.200	-1.000	Red
5	-1.000	-0.800	Red
6	-0.800	-0.600	Red
7	-0.600	-0.400	Red
8	-0.400	-0.200	Red
9	-0.200	0.000	Red
10	0.000	0.200	Light Green
11	0.200	0.400	Light Green
12	0.400	0.600	Light Green
13	0.600	0.800	Light Green
14	0.800	1.000	Light Green
15	1.000	1.200	Light Green
16	1.200	30.000	Light Blue

**EARTHWORKS SUMMARY**

NOTES:

- BULK EARTHWORKS SURFACE IS DESIGN SURFACE MINUS THE FOLLOWING:
  - NATURAL SURFACE (150mm)
  - EXCLUDED COMPACTION FACTORS
- ALL BATTERS TO BE 1 IN 2 UNLESS NOTED OTHERWISE.
- THE ABOVE VOLUMES ARE APPROXIMATE ONLY. IT IS RESPONSIBILITY OF THE TENDERER TO OBTAIN THE SCOPE OF WORKS, CONDUCT OWN EARTHWORKS CHECK AND CONFIRM ACCURACY ASSUMING BULK EARTHWORKS DEPTH FOR BUILDING IS 250mm (BUILDING SLAB THICKNESS PLUS BEDDING THICKNESS).

**BEFORE YOU DIG**

**WARNING PROPOSED SERVICES**

THE LOCATION AND DEPTH OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORIZED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS.

**WARNING BEWARE OF UNDERGROUND SERVICES**

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

NO.	REVISION	DATE	BY	CHECKED	SCALE
1	ISSUE FOR TENDER	12/11/2024	...	...	1:200
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...



**MEINHARDT**  
 Meinhardt Infrastructure and Environment PTY. LTD.  
 A/CN 20 167 50

**NSW**  
 School Infrastructure NSW

PROJECT: DALMENY PUBLIC SCHOOL  
 129 DALMENY DRIVE, PRESTONS, NSW 2170

TITLE: BULK EARTHWORKS PLAN

STATUS: SCHEMATIC DESIGN  
 NOT TO BE USED FOR CONSTRUCTION

DRWN	DESIGN	CHKD	APPROVED	DATE	SCALE
JLB	GLP	PJC	-	1/200	...

PROJECT: 132563 DAPS-MHT-00-00-DR-C-0070 P4

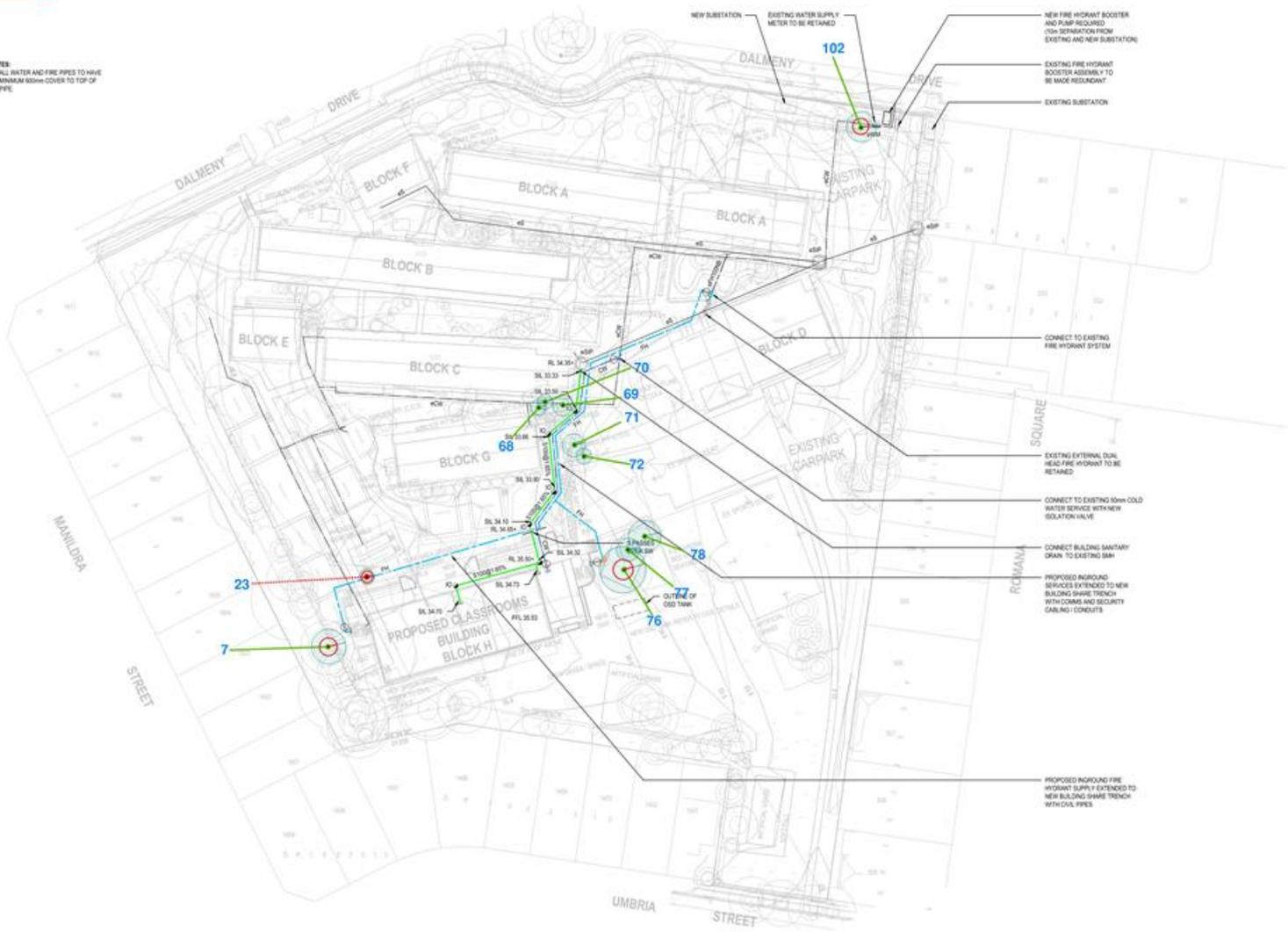




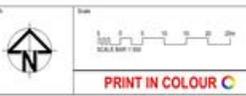
**Impact Assessment**

- L&Co Legend**
- SRZ
  - TPZ
  - TPZ encroachment
  - Tree retained

**NOTES:**  
 1. ALL WATER AND FIRE PIPES TO HAVE MINIMUM 800mm COVER TO TOP OF PIPE.



Rev	Description	Date	By	App'd
1	ISSUE FOR PERMIT	18/12/24	MS	RE
2	REVISED PERMIT	18/12/24	MS	RE
3	REVISED PERMIT	18/12/24	MS	RE
4	REVISED PERMIT	18/12/24	MS	RE
5	REVISED PERMIT	18/12/24	MS	RE



**PRINT IN COLOUR**

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 SURRY HILLS NSW 2010  
 T: 02 8363 5151 E: [info@fultontrouter.com.au](mailto:info@fultontrouter.com.au)



**ACOR Consultants Pty Ltd**  
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 T: +61 2 9438 5099

**SCHOOL INFRASTRUCTURE NSW**  
 DALMENY PUBLIC SCHOOL  
 1612 DALMENY DRIVE, PRESTONS NSW

Drawn	Design	C.A. Check	C.A. Date	Scale	Block
MS	RE	RE	18/12/24	1:300	C

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# Impact Assessment

**L&Co Legend**

- Callout
- Major Encroachment Tree removal may be required
- SRZ
- TPZ
- TPZ encroachment
- Tree removal required
- Tree retained



**STAGING PROVISIONS**

EXISTING POWER AND COMMUNICATIONS SERVICES REQUIRED TO REMAIN TO EXISTING DESKTOPS DURING CONSTRUCTION. SURVEILLANCE AND SECURITY SERVICES TO BE DISCONNECTED AND REMOVED POST CONSTRUCTION. CONCRETE TO BE DEMONSTRATED IN-CHARGE.

NEW CONDUITS TO BE PROVIDED FOR POWER, COMMUNICATIONS AND SECURITY SERVICES. THIS TO BE PROVIDED EVERY 30M OR IN CHANGE OF DIRECTION.

INDUCTIVE RETICULATION ROUTE SHOWN ALLOW TO COORDINATE SHOWN TRENCHING ROUTE ON SITE.

**BUILDING COMMUNICATIONS ROOM**

PROPOSED NEW 1000mm x 1000mm COMMUNICATIONS ROOM ARRANGEMENT FOR DETAILS.

**ELECTRICAL DISTRIBUTION BOARDS (EDB)**

PROPOSED NEW 1000mm x 1000mm COMMUNICATIONS ROOM ARRANGEMENT FOR DETAILS. TO BE SUPPLIED FROM NEW MAIN. NORMAL LOCATION OF SURNAME ENTRY POINT TO BLOCK H SHOWN.

**COVERED WALKWAY LIGHTING**

PROPOSED NEW LIGHTING TO BE PROVIDED ALONG THE ENTIRE LENGTH OF THE NEW EXTERNAL WALKWAY.

**AUTHORITY SUBSTATION - ALTERNATIVE OPTION**

PROPOSED NEW AUTHORITY SUBSTATION TO BE LOCATED ON DALMENY DRIVE ON SCHOOL PROPERTY WITH DIRECT ACCESS FROM STREET. EXISTING SUBSTATION TO BE DEMOLISHED. NEW ASSETMENT REQUIRED. NO SERVICES TO BE LOCATED WITHIN 5M OF THE PERIMETER OF SUBSTATION. FIRE AND NOISE RESTRICTIONS APPLY FROM 2.5M TO THE PERIMETER OF SUBSTATION. EXACT LOCATION SUBJECT TO COORDINATION WITH OTHER SERVICES AND AGENCIES.

NEW CONSUMER MAINS TO SCHOOL MAIN TO BE PROVIDED GENERALLY IN LOCATION SHOWN.



**AUTHORITY SUBSTATION (200V/4V) - PREFERRED OPTION**

EXISTING TO BE MODIFIED. EXISTING SUBSTATION TO BE UPGRADED. PENDING CONFIRMATION FROM ENDSUR ENERGY THE STRUCTURAL CAPACITY OF PLINCH TO SUPPORT TRANSFORMER UPGRADE. EXISTING CONSUMER MAINS TO BE DEMONSTRATED AND REMOVED. NEW CONSUMER MAINS TO BE PROVIDED TO NEW MAIN IN LOCATION SHOWN.



**MAIN SWITCHBOARD (MSB)**

PROPOSED NEW MAIN SWITCHBOARD IS TO BE PROVIDED FROM NEW SUBSTATION. NEW MAIN SWITCHBOARD TO PROVIDE CONNECTIONS TO EXISTING LOADS AND NEW LOADS.



**MAIN SWITCHBOARD (MSB)**

EXISTING TO BE RETAINED. THE EXISTING MSB IS TO BE RETAINED AND BACK FEED FROM NEW MAIN SWITCHBOARD.

TO BE RELABELLED AS MAIN DISTRIBUTION BOARD. EXISTING MAINS, INCLUDING BATTERY BANKS TO BE DISCONNECTED AND REMOVED.

RELABELLING TO BE UPDATED SIGNAGE TO REFLECT NEW ELECTRICAL DISTRIBUTION APPROXIMATION.



**NSW Education School Infrastructure**

FOR REPLACEMENT OF THE 200V/4V ASSET KIT OF PARTS FOR THE FOLLOWING:

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**RP INFRASTRUCTURE**

Generating energy for healthy

REV	BY	DATE	DESCRIPTION
1	NDY	01/08/2024	ISSUE FOR PERMIT
2	NDY	01/08/2024	ISSUE FOR PERMIT
3	NDY	01/08/2024	ISSUE FOR PERMIT
4	NDY	01/08/2024	ISSUE FOR PERMIT
5	NDY	01/08/2024	ISSUE FOR PERMIT
6	NDY	01/08/2024	ISSUE FOR PERMIT

**PROJECT NAME:** DALMENY PUBLIC SCHOOL UPGRADE - 100 DALMENY DR, NORTH SYDNEY NSW 2060

**PROJECT NO:** 759-6730-004151-0001

**SCALE:** SCHEMATIC DESIGN

**DATE:** 01/08/2024

**BY:** NDY

**CHK:** NDY

**APP:** NDY

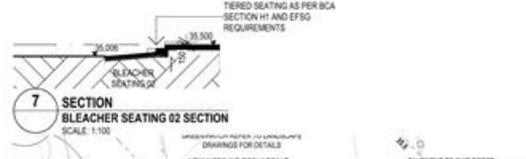
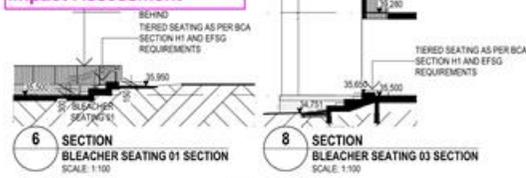
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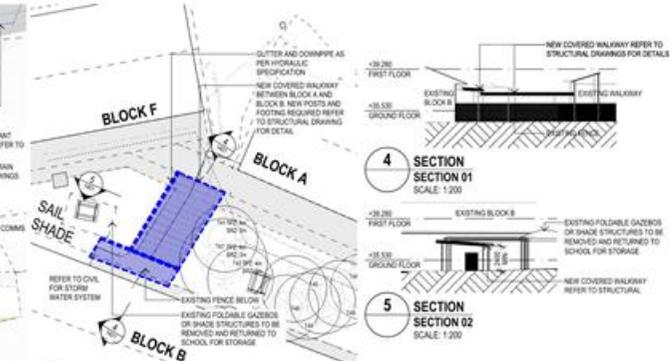
**ISSUED BY:** NDY

**DATE:** 01/08/2024

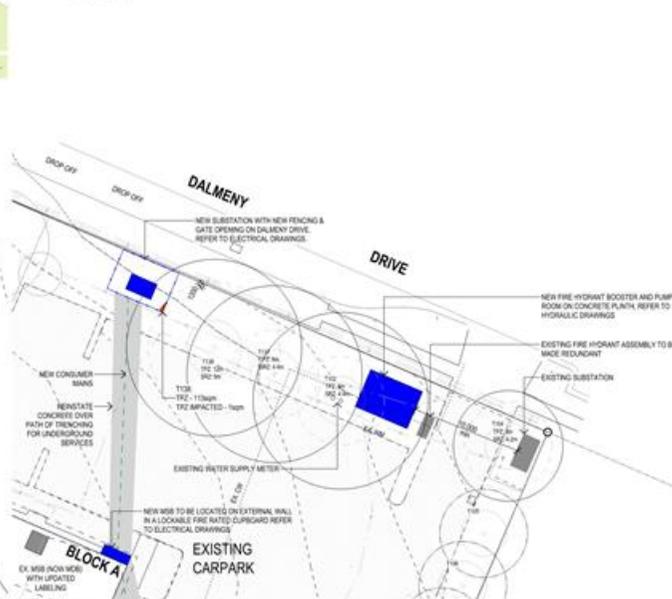
**Impact Assessment**



**1 PLAN PROPOSED EXTERNAL WORKS PLAN**  
SCALE: 1:200



**3 PLAN PROPOSED EXTERNAL WORKS PLAN**  
SCALE: 1:200



**2 PLAN PROPOSED EXTERNAL WORKS PLAN**  
SCALE: 1:200

**PROPOSED SITE PLAN LEGEND**

[Pattern]	EXISTING ARTIFICIAL GRASS	[Pattern]	EXISTING BUILDINGS	[Pattern]	PROPOSED EXTENT OF LANDSCAPE WORKS	[Pattern]	NEW FH SHAVED TRENCH
[Pattern]	EXISTING CONCRETE PAVING	[Pattern]	PROPOSED GUN FOOTPRINT	[Pattern]	PROPOSED CONCRETE PAVING	[Pattern]	NEW COLD WATER TRENCH
[Pattern]	EXISTING STORMWATER PIT	[Pattern]	PROPOSED CIRCULATION - WALKWAY, VERANDAH, LIFT AND STAIRS	[Pattern]	EX UNDERGROUND WATER SERVICE	[Pattern]	NEW SANITARY DRAIN
[Pattern]	EXISTING SOFT LANDSCAPING	[Pattern]	PROPOSED AMENITIES AND SERVICES	[Pattern]	EX UNDERGROUND SEWER / SEWER INSPECTION PIT	[Pattern]	NEW CONSUMER MANS
[Pattern]		[Pattern]		[Pattern]	EX UNDERGROUND COMES LINE	[Pattern]	

NO	DESCRIPTION	DATE	BY	CHECKED
01	FOR REVISION	12/01/2019	MR	
02	FOR CONSTRUCTION	12/01/2019	MR	
03	FOR 100% SUBMITTAL DESIGN	12/01/2019	MR	
04	FOR 100% SUBMITTAL DESIGN	12/01/2019	MR	
05	FOR 100% SUBMITTAL DESIGN	12/01/2019	MR	
06	FOR 100% SUBMITTAL DESIGN	12/01/2019	MR	
07	FOR 100% SUBMITTAL DESIGN	12/01/2019	MR	
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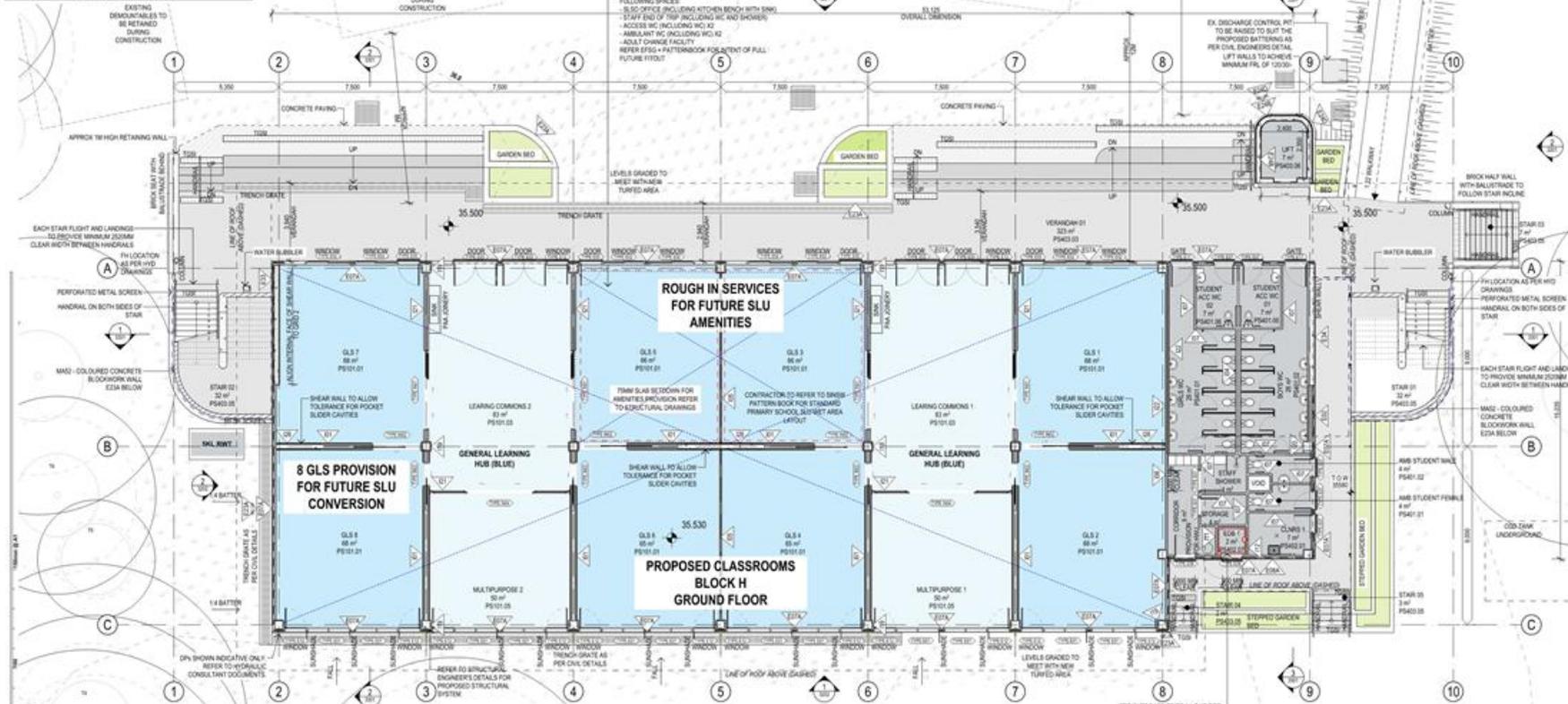
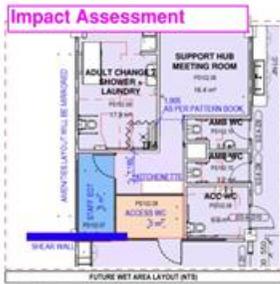
**SCHEMATIC DESIGN**  
NSW DEPARTMENT OF EDUCATION

**DALMENY PUBLIC SCHOOL**  
1612 DALMENY DRIVE, PRESTONS, NSW

**PROPOSED SITE WORKS PLAN**

PROJECT NUMBER: 7068DA01  
DIRECTOR: JW

DAPS-FTA-00-00-DR-A-1401 **04**



1 PLAN FLOOR PLAN GROUND FLOOR SCALE: 1:500

**NOTE:**  
 1. FINISHES APPLYING TO THIS BUILDING ARE SCHEME 1 AND SCHEME 3, UNLESS SPECIFICALLY NOTED OTHERWISE, REFER TO SPECIFICATION SCHEDULE AND MATERIAL SCHEDULE DRAWING FOR SELECTIONS.  
 2. CERAMIC TILES TO WET AREA WALLS MUST EXTEND 2400MM HIGH.

**PLAN LEGEND**

	DOOR LABEL
	WINDOW LABEL
	EXTERNAL WALL TYPE LABEL
	INTERNAL WALL TYPE LABEL

10	FOR REVISED 10% SCHEMATIC DESIGN	14/05/2018	MR
11	FOR REVISED 10% SCHEMATIC DESIGN	18/05/2018	MR
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**SCHEMATIC DESIGN**  
 NSW DEPARTMENT OF EDUCATION  
 DALMENY PUBLIC SCHOOL  
 1612 DALMENY DRIVE, PRESTONS, NSW

**PROPOSED GROUND FLOOR PLAN**

PROJECT NUMBER: 7068DA01  
 DRAWING NUMBER: 13  
 DAPS-FTA-800H-GF-DR-A-2101

Impact Assessment



- LEGEND**
- 0.000 FINISHED FLOOR LEVEL
  - +0.000 EXISTING SPOT LEVEL
  - +1.000 PROPOSED SPOT LEVEL
  - +7.000 TOP OF WALL LEVEL
  - SITE BOUNDARY
  - PROPOSED FENCE TO ARCHITECT'S DETAILS
  - TREE PROTECTION LINE
  - LINE OF BUILDING OVERLAP
  - ELEMENTS DEMOLISHED PRIOR TO CONSTRUCTION
  - ELEMENTS RETAINED DURING CONSTRUCTION AND PAVED OUT AFTER
  - EXISTING CURBS
  - PROPOSED APPROVED PLANT CONTROL LINE FOR SPOT/FLOOR LEVELS
  - GARDEN BEDS
  - REFER TO RELEVANT PLANT CONTROL OR COVER PAGE FOR INDICATIVE SPECIES LIST
  - NATURAL FURN
  - EXISTING ARTIFICIAL FURN
  - STRIPMARKER BY ELEMENTS DETAILS
  - EXISTING TREES TO BE RETAINED
  - EXISTING TREES TO BE REMOVED
  - PROPOSED TREES TO BE PLANTED (CHECK ON DRAWING DATE 04-09-20 OR 1-2024 FOR TREE SPECIES)

EXISTING TREE SCHEDULE

ID	BOTANICAL NAME (COMMON NAME)	EXISTING HEIGHT	PROPOSED ACTION
11	EUCALYPTUS TERNstroemia FOREST RED GUM	17M	RETAINED
12	EUCALYPTUS TERNstroemia FOREST RED GUM	18M	RETAINED
13	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED
14	CORYMBIA MACULATA (SPOTTED GUM)	16M	RETAINED
15	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED
16	EUCALYPTUS TERNstroemia FOREST RED GUM	17M	RETAINED
17	EUCALYPTUS TERNstroemia FOREST RED GUM	20M	RETAINED
18	EUCALYPTUS TERNstroemia FOREST RED GUM	17M	RETAINED
19	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED
20	EUCALYPTUS TERNstroemia FOREST RED GUM	17M	RETAINED
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156	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED
157	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED
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200	EUCALYPTUS TERNstroemia FOREST RED GUM	16M	RETAINED

LANDSCAPE ARCHITECT  
**GROUND INK**  
 LANDSCAPE ARCHITECTS  
 SUITE 19, 54 HERBERT ST, CONFIDENTIAL NORTH SYDNEY, NSW 1585  
 02 9550 0000  
 www.groundink.com.au

**NOTE**

VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FINISH DIMENSIONS TO BE GIVEN IN PRECEDENCE TO SCALED DIMENSIONS. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE. LOCATION OF UNDERGROUND SERVICES TO BE PROVIDED ON SITE AND PROTECTED BY SIGNAGE PRIOR TO CONSTRUCTION. DIMENSIONS TO USE PLANT SPECIES AND QUANTITIES SHOWN ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGES BASED ON FUTURE PROJECT REQUIREMENTS.

NO.	DATE	DESCRIPTION	DESIGN	CHECKED	DRAWING TITLE
1	18/12/23	SCHEMATIC DESIGN	AK	AK	
2	19/12/23	SCHEMATIC DESIGN	AK	AK	
3	19/12/23	SCHEMATIC DESIGN	AK	AK	
4	19/12/23	SCHEMATIC DESIGN	AK	AK	

LANDSCAPE PLAN

DRAWING NUMBER  
**DAPS-GL-00-00-DR-L-3001**

PROJECT  
**DALMENY PUBLIC SCHOOL UPGRADE**  
 165 DALMENY DRIVE, PRESTONS, NSW 2157

SCALE 1:100 @ 1/4" = 1'-0"

BY  
 E

**L&C**  
 CONSULTANCY  
 ARBORICULTURE  
 PLANT PATHOLOGY

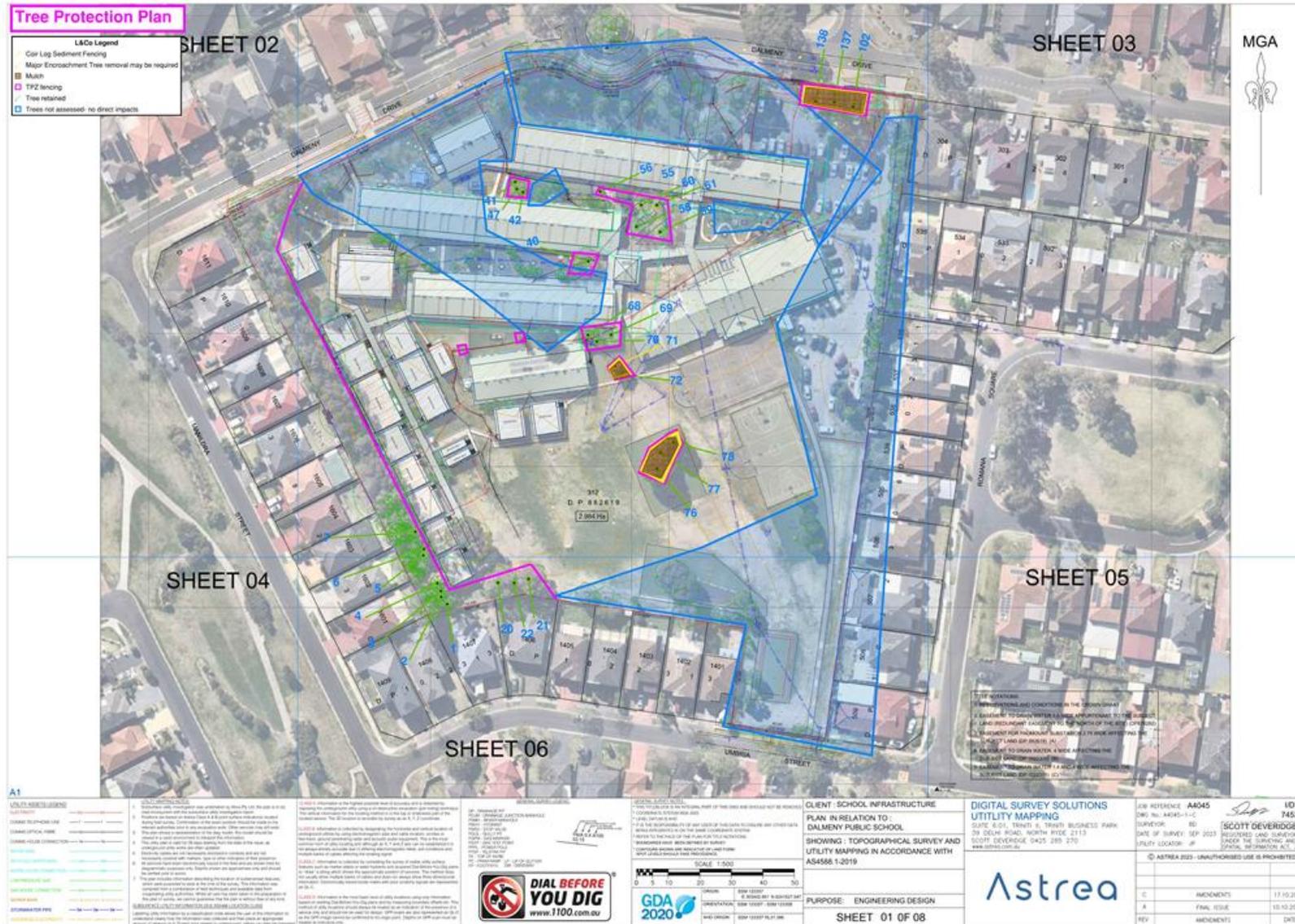
10.0 APPENDIX 5 | TREE RETENTION/REMOVAL PLAN

Tree Retention/Removal Plan

- L&Co Legend**
- x Tree already removed
  - Tree removal required
  - Tree retained

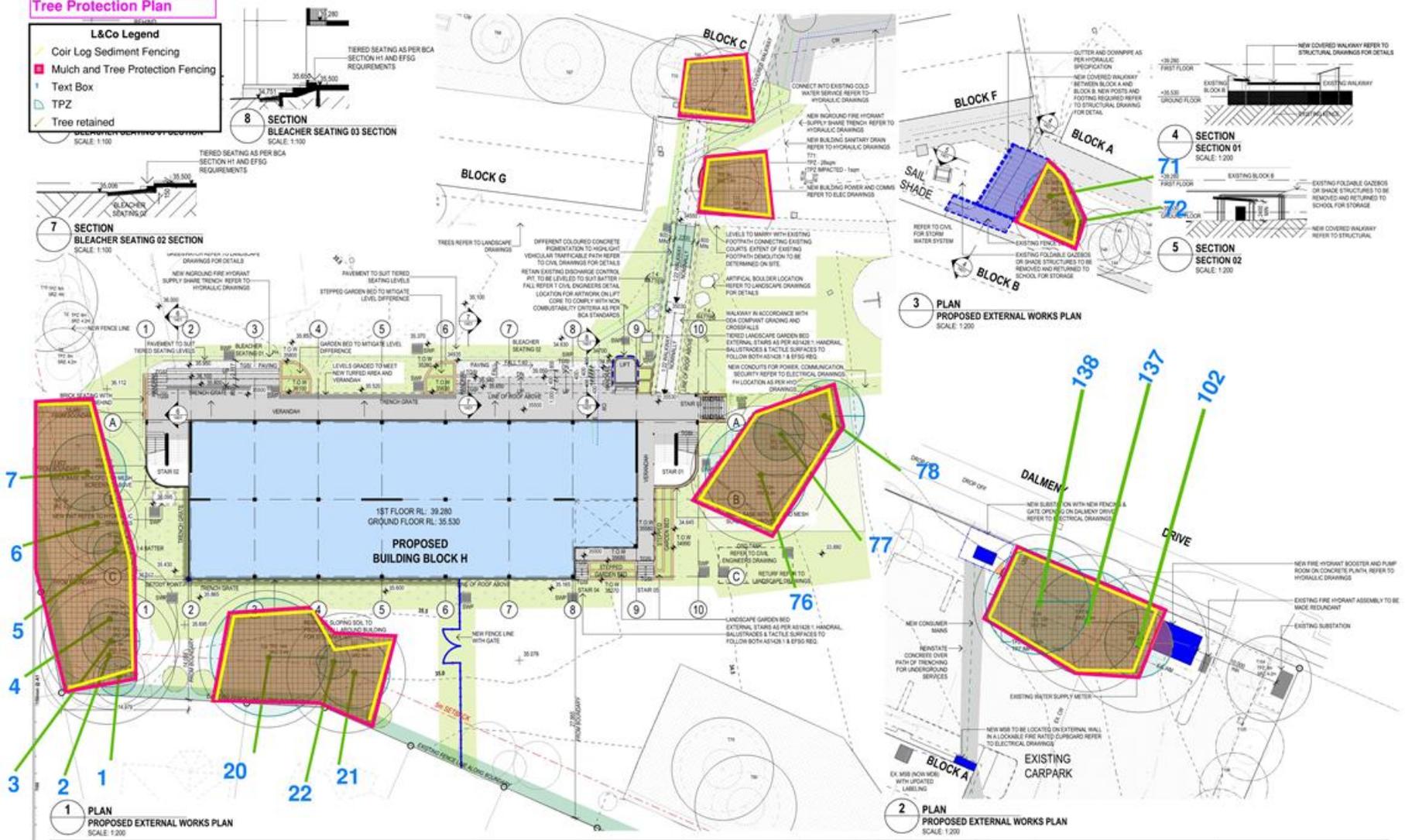


11.0 APPENDIX 6 | TREE PROTECTION PLAN



**Tree Protection Plan**

- L&Co Legend**
- Coir Log Sediment Fencing
  - Mulch and Tree Protection Fencing
  - Text Box
  - TPZ
  - Tree retained



**PROPOSED SITE PLAN LEGEND**


NO	DESCRIPTION	DATE	BY	CHECKED
01	FOR REVISION	15/02/2024	MR	MR
02	FOR REVISION	15/02/2024	MR	MR
03	FOR REVISION	15/02/2024	MR	MR
04	FOR REVISION	15/02/2024	MR	MR
05	FOR REVISION	15/02/2024	MR	MR
06	FOR REVISION	15/02/2024	MR	MR
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**fulton trotter**  
ARCHITECTS BRISBANE SYDNEY  
www.fultontrrotter.com.au

PROJECT: 1612 DALMENY DRIVE PRESTONS NSW 2031  
DATE: 15/02/2024  
DRAWING NO: 7068DA01

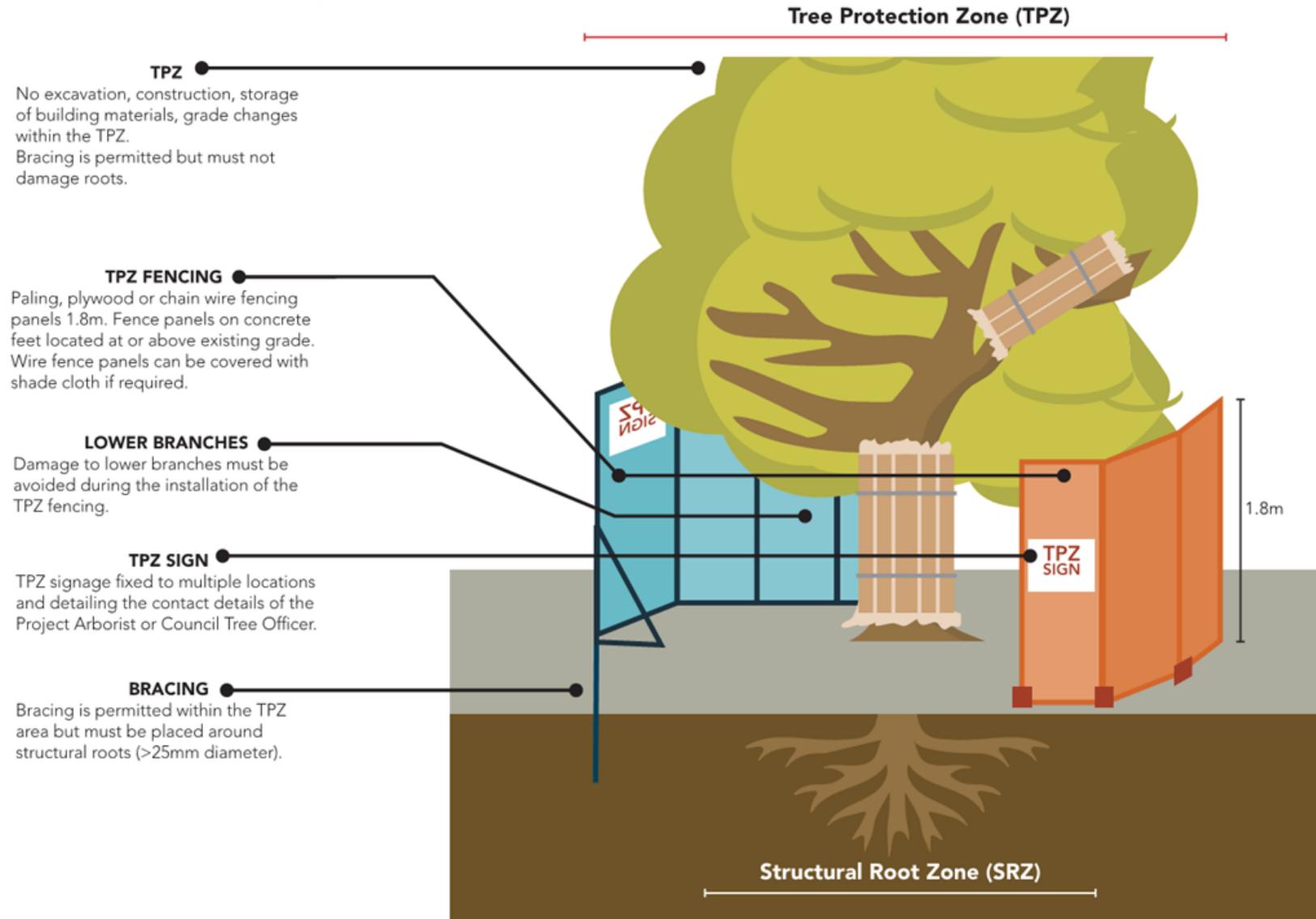
**SCHMATIC DESIGN**  
NSW DEPARTMENT OF EDUCATION  
DALMENY PUBLIC SCHOOL  
1612 DALMENY DRIVE, PRESTONS, NSW

**PROPOSED SITE WORKS PLAN**

PROJECT NUMBER: 7068DA01  
DIRECTOR: JW  
DRAWING NUMBER: 7068DA01  
CHECKED: [Signature]  
REVISION: 04

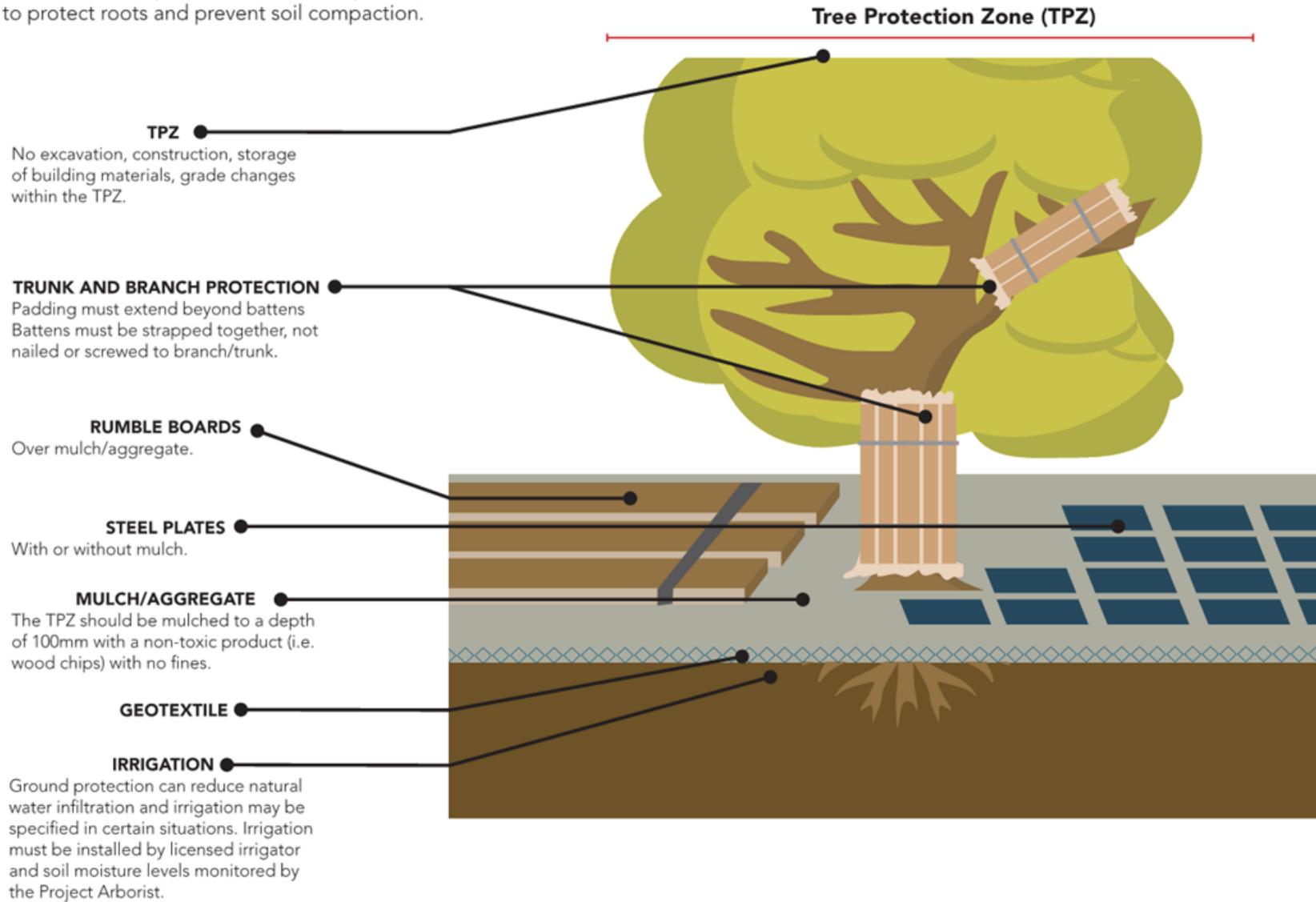
## 12.0 APPENDIX 7 | TYPICAL TREE PROTECTION DETAIL

### Tree Protection Detail - TPZ Fencing

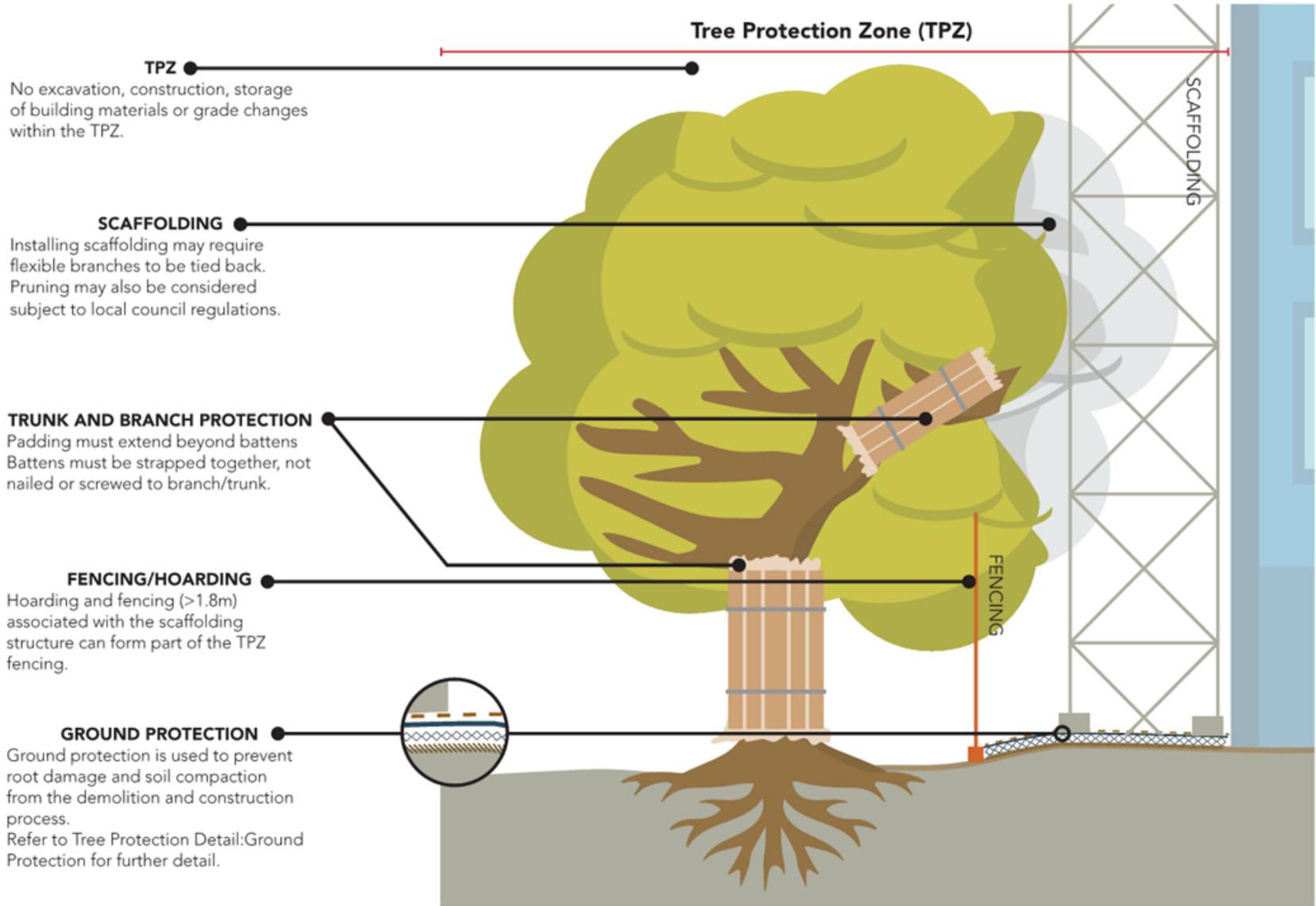


### Tree Protection Detail - Ground Protection

Required if temporary access for machinery is required within the TPZ to protect roots and prevent soil compaction.



**Tree Protection Detail - Scaffolding within TPZ**



## 13.0 APPENDIX 8 | TREE PROTECTION SPECIFICATION

### 13.1 Appointment of Project Arborist

13.1.1 Prior to commencement of works a Project Arborist should be engaged to monitor compliance with the protection measures. The Project Arborist will inspect tree protection measures and prepare a compliance certification for the principal certifying authority prior to the release of compliance certification. Contractors and site workers are to receive these specifications at least 3 days prior to commencing works. Contractors and site workers working within the TPZ should sign the site log confirming they have read and understood these specifications prior to commencing works.

### 13.2 Compliance

13.2.1 The Project Arborist will conduct regular site visits to certify the works are compliant with this specification. A compliance document will be prepared by the Project Arborist following each site inspection. The compliance document will include evidence of compliance with the tree protection measures detailed in this specification.

### 13.3 Tree & Vegetation Removal

13.3.1 Tree and vegetation removal will be undertaken prior to installation of tree protection measures. Tree removal works should be undertaken in accordance with the *Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016)*.

13.3.2 Tree and vegetation removal must not damage trees to be retained.

### 13.4 Tree Protection Zone

13.4.1 Trees that are to be retained must be protected prior to and during construction from works that could negatively impact their health and structural integrity. The following works should not occur within the TPZ unless authorised by the Project Arborist:

- Modification of existing soil levels, excavations and trenching
- Mechanical removal of vegetation
- Movement of naturally occurring rock
- Storage of materials, plant/equipment and building of sheds
- No signage or hoarding shall be fixed to the trees
- Preparation of building materials, refuelling or disposal of waste materials and chemicals
- No lighting of fires
- No pedestrian or vehicular traffic
- Temporary or permanent location of services, or works required for their installation
- Any other activities that may damage the tree

### 13.6 **Tree Protection Fencing**

13.6.1 The TPZ fencing must be positioned at the perimeter of the TPZ and may be combined to form a single area where the TPZs of multiple trees overlap. The approximate location of the TPZ fencing is outlined in the Arboricultural Impact Assessment with the exact location determined by consultation between the Principal Contractor/Project Manager and the Project Arborist prior to the commencement of works. Fencing may be setback to allow for demolition/construction access and for the installation of pavements only where appropriate ground protection is installed and approved by the Project Arborist. The TPZ fencing must be at least 1.8m above grade and made of wire mesh panels that are supported by concrete feet and fastened together to prevent sideways movement. Tree damage, including any low branches, must be avoided during the installation of the tree protection fencing. The TPZ fencing must include signage to identify the TPZ fencing and include the Project Arborist contact details.

### 13.7 **Site Management**

13.7.1 Materials, waste storage and temporary services should not be located within the TPZ.

### 13.8 **Works within the Tree Protection Zones**

13.8.1 In certain situations, works within the TPZ may be authorised by the determining authority. These works must be supervised by the Project Arborist. When working within the TPZ, special care should be taken to avoid damage to the tree's root system, trunks and lower branches.

13.8.2 If roots (>25mmØ) are encountered during excavation, demolition and construction works, these roots must be retained undamaged and advice sought from the Project Arborist. The design and final levels must remain flexible to enable the retention of roots >25mmØ where deemed necessary by the Project Arborist.

### 13.9 **Ground Protection**

13.9.1 The movement of machinery should be restricted to existing paved areas or in areas with temporary ground protection (i.e. steel road plates, ground mats) when deemed necessary by the Project Arborist.

13.9.2 Ground protection should be installed as per AS4970 and Appendix 7- *Typical Tree Protection Detail*.

13.9.3 If irrigation is considered necessary, it should be installed first and by a licensed irrigator under the supervision of the Project Arborist with no trenching.

13.9.4 The irrigation should be covered with a layer of geotextile and mulched to a depth of 100mm with a non-toxic product (i.e. woodchips) with no fines.

13.9.5 Once the irrigation, geotextile and mulch are in place then the ground protection boards (steel plates or rumble boards) can in be installed.

13.9.6 Boards should remain in place for the entire build.

### 13.10 **Trunk & Branch Protection**

13.10.1 If trunk protection is required it should be installed by wrapping the trunk and first order branching with padding (i.e. carpet underlay or 10mm thick geotextile) to a minimum height of 2m. Timber battens (90 x 45mm), spaced at 150mm centres should be strapped together and placed over the padding (Refer to AS4970 for further details).

13.10.2 Branch protection should be installed when considered necessary by the Project Arborist.

13.10.3 Branches should be wrapped with padding (i.e. Ableflex) to provide protection. Where possible, branches should be tied back and construction works to take place around branches (with appropriate branch protection installed as required). If pruning is unavoidable it should be in accordance with AS4373 and supervised by the Project Arborist.

### 13.11 **Structure & Pavement Demolition**

13.11.1 The Project Arborist should supervise the demolition of existing structures/pavement within the TPZ. Machinery is to be excluded from the TPZ unless operating from existing slabs, pavements or areas of ground protection. Machinery should not contact the tree's roots, trunks, branches and crown.

13.11.2 Existing pavement should be hand lifted to minimise disturbance to the existing sub-base and to prevent damage to tree roots. Wherever possible, the existing sub-base material should remain in situ.

13.11.3 When removing slab sections within the TPZ, machinery must work from the tree outwards to ensure the machinery always remains on the un-demolished section of slab. Wherever possible, footings or elements below grade should be retained to minimise disturbance to the tree's roots.

13.11.4 Structures must be shattered with hand-operated pneumatic/electric breaker before removal when considered necessary by the Project Arborist.

13.11.5 If roots (>25mmØ) are encountered during excavation, demolition and construction works these roots must be retained undamaged and advice sought from the Project Arborist. Exposed roots must be protected from direct sunlight, drying out and extremes of temperature by using 10mm thick jute geotextile fabric. This fabric should be kept moist at all times.

13.11.6 Where the Project Arborist determines that the tree is using underground elements (i.e. footings, pipes, rocks etc.) for support, these elements should be left *in situ*.

### 13.12 **Pavement/Kerb Installation**

- 13.12.1 Installation of pavements and sub-base within the TPZ must be supervised by the Project Arborist. New surfaces and sub-base materials should be placed above grade to minimise excavations and retain roots (unless prior root mapping has determined that there are no roots within the area of construction).
- 13.12.2 If roots (>25mmØ) are encountered during the installation of the new sub-base and surfaces these roots must be retained undamaged and advice sought from the Project Arborist. The design and final levels must remain flexible to enable the retention of roots >25mmØ where deemed necessary by the Project Arborist.
- 13.12.3 Compaction of the ground prior to the installation of fill is not permitted.
- 13.12.4 New sub-base material should be a 20mm no-fines road base (i.e. Benedict Sand & Gravel- Product Code 20NF/RB or similar). Recycled concrete aggregates should not be used to avoid raising soil pH levels.
- 13.12.5 If required, bedding sand should be washed river sand (no crushed paving blends). The bedding sand should be consolidated with a pedestrian operated plate compactor only. If possible, pavement material should be permeable.
- 13.12.6 Kerbs within the TPZ should be modified to bridge roots (>25mmØ) unless root pruning is approved and undertaken by the Project Arborist.
- 13.13 **Underground Services**
- 13.13.1 The installation of underground services should be located outside of the TPZ. Where this is not possible they should be installed around or below roots (>25mmØ) using either hydrovac or hand excavation and supervised by the Project Arborist.
- 13.13.2 Boring methods may be used for the installation of services 800mm below grade. Excavations for starting and receiving pits for the boring equipment should be located outside of the TPZ or located to avoid roots (>25mmØ, or determined by the Project Arborist).
- 13.13.3 Excavations, Root Protection & Root Pruning
- 13.13.4 Excavations and root pruning within the TPZ must be supervised by the Project Arborist and should be avoided where possible.
- 13.13.5 No over-excavation, battering, or benching should be undertaken beyond the footprint of any structure unless approved by the Project Arborist. Hand excavation and root pruning along the excavation line should be completed prior to the commencement of mechanical excavation to prevent tearing and shattering damage to the roots.
- 13.13.6 Roots >25mmØ should be pruned by the Project Arborist only. Roots <25mmØ may be pruned by the Principal Contractor. Root pruning should be undertaken with clean, sharp secateurs or a pruning saw to ensure a smooth wound face, free from tears.
- 13.13.7 Damaged roots should be pruned behind the damaged tissues with the final cut made to the undamaged part of the root.

14.0 APPENDIX 9 | PLATES



a-b) Showing Tree 19 with borer damage to trunk. c) Showing Trees 103 & 104 from Dalmeny Drive. d) Showing Tree 103. e) Showing Trees L&Co 3 & 4. f) Showing Trees 76.77 & 78.

## 15.0 APPENDIX 10 | MITIGATION MEASURES

Mitigation Number/ Name	When is Mitigation Measure to be complied with	Mitigation Measure	Reason for Mitigation Measure
Project Arborist	Engage at start of construction prior to CC.	Project Arborist to oversee tree protection measures and ensure compliance.	Ensure compliance with tree protection measures to retain trees.
Tree Removal	Prior to demolition	Removal works should be carried out by a practising arborist. The practising arborist should hold a minimum qualification equivalent (using Australian Qualifications Framework) of Level 3 or above in arboriculture or its recognised equivalent. The practising arborist should have a minimum of 3 years of practical experience. Removal works should be undertaken in accordance with the Australian Standard 4373: Pruning of Amenity Trees (2007), Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016) and other applicable legislation and codes.	Safe removal of correct trees.
Tree Protection Fencing & sediment control	Prior to demolition	TPZ fencing should be installed parallel to the proposed building line prior to any site works (including demolition) and remain in place for the duration of the construction. Coir logs should be installed inside of the TPZ fencing to prevent material runoff into the TPZ. Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist. The tree protection measures must be inspected by the Project Arborist prior to the start of site works, including demolition.	Retain trees and mitigate construction impacts.
Hand excavation	During Construction	Where possible, electrical trenching should be conducted manually within TPZ area with conduits placed around large structural roots.	Retain trees and mitigate construction impacts.
Replacement Trees	Post construction	Replacement tree planting should be provided when trees are removed. Replacement trees should be supplied as advanced size stock to help offset the loss of amenity resultant from the tree removals. Replacement planting should be supplied in accordance with Australian Standard 2303: Tree Stock for Landscape Use (2015).	Replace the loss of amenity

## 16.0 APPENDIX 11 | LIMITATIONS & DISCLAIMERS

- 16.1 Subject trees were assessed from the ground only and for providing an Arboricultural Impact Assessment and Tree Protection Specification.
- 16.2 All recommendations in this Arboricultural Impact Assessment and Tree Protection Specification report are based on the observations made on the days of inspection (03.02.2023, 3.11.23, 25.10.25 & 20.2.25). There is no warranty, expressed or implied, that problems or deficiencies relating to the subject trees, or the subject site may not arise in the future.
- 16.3 Laurence & Co Consultancy takes care to obtain information from reliable sources. However, Laurence & Co Consultancy can neither guarantee nor be responsible for the accuracy of information provided by others. Plans, diagrams, graphs and photographs in this Arboricultural Impact Assessment and Tree Protection Specification report are visual aids only and are not necessarily to scale. This report provides recommendations relating to tree management only. Advice should be sought from appropriately qualified consultants regarding design/construction/ecological/heritage etc. issues.
- 16.4 This report has been prepared for exclusive use by the client. This report should not be viewed by others or for any other reason outside its intended target or without the prior written consent of Laurence & Co Consultancy. Unauthorised alteration or separate use of any section of the report invalidates the report.
- 16.5 Many factors may contribute to tree failure and cannot always be predicted. Laurence & Co Consultancy takes care to accurately assess tree health and structural condition. However, a tree's internal structural condition may not always correlate to visible external indicators.
- 16.6 **Limitation of Liability.** Laurence & Co Consultancy shall be liable only for direct damages that result from negligence or wilful misconduct in the performance of its services. Under no circumstances shall Laurence & Co Consultancy be liable for indirect, consequential, special, or punitive damages, or for damages caused by the client's failure to perform its obligations under law or contract. Laurence & Co Consultancy shall not be liable for and Client shall indemnify Laurence & Co Consultancy from and against all claims, demands, liabilities and costs (including attorneys' and expert fees) arising out of or in any way related to our performance or non-performance of services, including all on-site activities except to the extent caused by Laurence & Co Consultancy's negligence or wilful misconduct. In no event shall Laurence & Co Consultancy's liability exceed the amount paid to Laurence & Co Consultancy by the Client for our professional services (net of reimbursable expenses) and Client specifically releases Laurence & Co Consultancy for any damages, claims, liabilities and costs in excess of that amount.
- 16.7 Reference should be made to any relevant legislation including Tree Management Controls. All recommendations contained within this report are subject to approval from the relevant Consent Authority.