# Birds Tree Consultancy

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# ARBORICULTURAL DEVELOPMENT IMPACT ASSESSMENT REPORT

Sydney Metro Line Wide Works, Campsie NSW

## **REVISION E**

23rd March 2022

Prepared for Systems Connect

# **Prepared by**

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## **Executive Summary**

This Revision E of the Arboricultural Development Impact Assessment Report has been commissioned by Systems Connect to update our previous Revision C (Commissioned by AMBS Ecology & Heritage Pty Ltd) to report on trees within the site of Sydney Metro Line Wide Works, Campsie NSW. The site is the location of a 33-kilovolt electricity cable that will be part of the infrastructure for the Sydney Metro City & Southwest (SMCSW) Sydenham to Bankstown works. The cable will be required for energy transmission between an existing Ausgrid electrical substation (about one kilometre south of Canterbury Station in Earlwood) and a new traction substation to be located in Campsie. Installation of the cable will generally involve trenching along the alignment. In some places this will require the clearing or trimming of trees or other vegetation. This Report outlines the health, condition and stability of all trees within areas that may be impacted by the proposed development as well as their viability for retention within the context of the proposed works.

This report has been prepared in response to Condition E5 of the Conditions of Approval, which requires that an independent experienced and suitably qualified arborist prepare a comprehensive Tree Report(s) before removing any trees. The report(s) must identify the impacts of the CSSI on trees and vegetation within and adjacent to the Construction footprint. The report(s) must include (in summary):

- (a) a description of the conditions of the tree(s) and its amenity and visual value;
- (b) consideration of all options to avoid tree removal; and
- (c) measures to avoid the removal of trees or minimise damage to existing trees and ensure the health and stability of those trees to be protected.

On the 12th of December 2020, Glenn Bird of Birds Tree Consultancy attended site and inspected the subject trees from the ground. Glenn was accompanied by Systems Connect personnel including Kate Truscott, Wee Tee and Dean Kellet, and ecologist Dr James Schlunke. The entire length of the route was traversed on foot and input was provided regarding minimising adverse impacts on trees and other flora.

On 16<sup>th</sup> of July 2021 This report was revised at the request of Systems Connect to assess the impact of the realignment of the bulk power conduit on Tree 6.

On 23 March 2022 This report was revised at the request of Systems Connect to assess the impact of required construction transport on Tree 97.

A total of 105 trees were assessed. Nine of these will be subject to a major encroachment and will need to be removed. The crown of Tree 97 is impacted by the required construction transport to such extent that this tree is not viable to be retained. An additional tree (Tree 12) has significant decay and cambium damage and is recommended for removal. Four trees subject to a major encroachment may be able to be retained, but only with revisions to design and construction techniques. A number of other trees will be subject to encroachment but could be retained under the supervision of the Site Arborist. Note that "Tree 3" is a grove of small trees or large shrubs that is a planted hedge of *Syzygium paniculatum*. This grove is between 3-4m wide, and trees are planted at approximately 1m centres. This grove consists of approximately 100 individual plants of which between 10-20 will be impacted and required to be removed (with the exact number to be determined once clearing limits are defined on site). Thus, the total number of trees to be removed is ten, plus the 10-20 stems from the hedge.

The Tree Protection Zone (TPZ) of Trees 2, 3, 4, 5, 6, 8, 99, 100, 101 and 102 are encroached by the proposed construction and required earthworks by a major encroachment as defined by

AS4970-2009 Protection of Trees on Development Sites. These trees will not be viable to be retained and are recommended for removal.

The TPZ of Trees 1, 9, 22, 44, 45, 46, 48, 57, 59, 62, 68, 69, 77, 87, 89, 90, 91, 94 will be encroached by the proposed development by greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of the impediment to root development posed by the compacted road base of the existing roadway and these species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, these trees will be viable to be retained under the proposed development with supervision and direction by the Site Arborist.

The Tree Protection Zone (TPZ) of Trees 10, 19, 88 and 95 will be encroached by a major encroachment which has the potential to significantly impact the viability of these trees. The proposed excavation is outside of the Structural Root Zone (SRZ) being the area of root development required for the stability of the tree. The SRZ's for Trees 10, 19, 88 and 95 are an area with a radius of 3.6m, 3.5m, 3.3m and 2.6m, respectively. Revised design and construction methods will be required in order for these trees to be retained. These revisions include:

- 1. Re-alignment of proposed line and trench outside of the TPZ of the tree where possible.
- 2. All excavation within the TPZ to be carried out by non-destructive excavation techniques under the supervision of the Site arborist (minimum qualification AQF Level 5). Approved nondestructive techniques include an Air Knife or, if an Air Knife is not able to be used, a Vacuum truck strictly limited to pressures less than 1000Psi.
- 3. No tree roots greater than 30mm are to be cut within the TPZ and the new cable is to be threaded either through or under the roots.
- 4. Encroachment within the TPZ is to be to the maximum extent shown on the drawings.

If these revised methods are not able to be implemented the viability of these trees will be reduced and we would recommend the removal of these trees.

The crown of Tree 97 will be impacted by the proposed construction traffic. The transformer is required to be transported through this area and the transporter and transformer have dimensions of a height of 5050mm, width of 3800mm. This will result in more than 50% of the crown of this tree impacted. Crown reduction pruning would leave this tree with poor form and unbalanced canopy. We recommend the removal of this tree and replacement with suitable replacement species.

The canopies of Trees 10, 19 and 20 may be impacted by construction machinery during the excavation phase of the works. All works within the canopy of these trees are to be carried out under the supervision of the Site Arborist. Where there is a potential impact on the canopy, canopy reduction pruning is to be carried out by a qualified arborist minimum qualification AQF Level 3 under the supervision of the Site Arborist. All pruning is to be carried out in accordance with AS4373-2007 Pruning of Amenity Trees. There is to be no other impact on the canopy of the subject trees. If further impacts are noted these are to be brought to the attention of the Site Arborist.

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## 1.0 Scope of Works

### 1.1 Background

This Revision E of the Arboricultural Development Impact Assessment Report has been commissioned by Systems Connect to update our previous Revision D to report on trees within the site of Sydney Metro Line Wide Works, Campsie NSW. The site is the location of a 33-kilovolt electricity cable that will be part of the infrastructure for the Sydney Metro City & Southwest (SMCSW) Sydenham to Bankstown works. The cable will be required for energy transmission between an existing Ausgrid electrical substation (about one kilometre south of Canterbury Station in Earlwood) and a new traction substation to be located in Campsie. Installation of the cable will generally involve trenching along the alignment. In some places this will require the clearing or trimming of trees or other vegetation. This Report outlines the health, condition and stability of all trees within areas that may be impacted by the proposed development as well as their viability for retention within the context of the proposed works.

Revision E of this report has been commissioned to include the potential impact of the required construction traffic on Tree 97.

This report has been prepared in response to Condition E5 of the Conditions of Approval, which requires that:

"The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive Tree Report(s) before removing any trees as detailed in the documents listed in Condition A1. The Tree Report may be prepared for the entire CSSI or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must identify the impacts of the CSSI on trees and vegetation within and adjacent to the

Construction footprint. The report(s) must include:

- (a) a description of the conditions of the tree(s) and its amenity and visual value:
- (b) consideration of all options to avoid tree removal, including relocation of services, redesign or relocation of ancillary components (such as substations, fencing etc.) and reduction of standard offsets to underground services; and (c) measures to avoid the removal of trees or minimise damage to existing trees and ensure the health and stability of those trees to be protected. This includes details of any proposed canopy or root pruning, root protection zone, excavation, site controls on waste disposal, vehicular access, storage of materials and protection of public utilities.

A copy of the report(s) must be submitted to the Planning Secretary before the removal or pruning of any trees, including those affected by site establishment Work. All recommendations of the report must be implemented by the Proponent, unless otherwise agreed by the Planning Secretary."

#### 1.2 Methods

On the 12th of December 2019, Glenn Bird of Birds Tree Consultancy attended site and inspected the subject trees from the ground. There was no aerial inspection carried out. A Visual Tree Assessment was undertaken in accordance with Visual Tree Assessment (VTA) guidelines (Mattheck and Breloer, 1994). Tree heights were measured using a Nikon Forestry 550 Heightmeter. Glenn was accompanied by Systems Connect personnel including Kate Truscott, Wee Tee and Dean Kellet, and ecologist Dr James Schlunke. The entire length of the route was traversed on foot and input was provided regarding minimising adverse impacts on trees and other flora.

#### 1.3 Structure

The structure of this report is as follows:

- Sections 3, 4 and 5 respond to Condition E5 (a). Section 3 provides a brief
  description of each tree assessed. Section 4 provides an assessment of the
  Landscape Significance of each tree, based on the standardised rating system
  developed by the Institute of Australian Consulting Arborists, and is a factor of the
  health and condition of the tree, vitality, the form of the tree, environmental, cultural,
  amenity and heritage value. Section 5 provides the Tree Retention Value of each
  tree.
- Sections 6 and 7 respond to Condition E5 (b). Options to avoid tree removal along the proposed route were discussed on-site during the inspection on 12 December. Section 6.1 defines Tree Protection Zones (TPZs) for each tree and assesses the encroachment of the route on the TPZs. Section 6.2 considers the likely impact on each tree and makes recommendations on which trees can be retained and which trees will need to be removed. Section 7 summarises the outcome and makes recommendations regarding revised design and construction methods that may be able to be implemented to protect trees of high retention value.
- Section 8 responds to Condition E5 (c) and provides a range of tree protection measures to be implemented prior to and during construction.

# 2.0 Site Analysis

#### 2.1 Site

The subject site is Sydney Metro Line Wide Works, Campsie NSW. The subject trees are located within or adjacent to the boundaries of this site. The works include the installation of new electrical cables including trenching to the extent shown on drawings.

### 2.2 Topography

Refer to detail survey for greater detail of levels. All of the trees with the exception of trees 1 to 20 are in close proximity to the existing kerbs and roadways.

#### 2.3 Identification

Trees were defined in accordance with the definition provided in the Conditions of Approval, i.e., "Long lived woody perennial plant greater than (or usually greater than) 3m in height with one of relatively few main stems or trunks". Trees are as identified in the attached inspection forms in Appendix C and shown in Tree location Plan A01 in Appendix D.

#### 2.4 Soils

Soil material and horizons were not tested for this report.

#### 2.4 Documentation

This Revision E includes the realignment of the bulk power conduit as defined by Aurecon Design Drawing AN20739 Dated 09/12/2020.

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

#### 3.1. Tree 1. Corymbia maculata

This mature tree is approximately 23m tall with a canopy spread of 13m. It has a single trunk with a diameter at breast height (DBH) of 550mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.2. Tree 2. Banksia integrifolia

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

#### 3.3. Tree 3. Syzygium paniculatum

This is a grove of planted trees with a representative height of approximately 6m tall with a canopy spread of 3m. It has a representative DBH of 120mm. This grove of trees is in good health and condition and consists of approximately 100 individuals that are spaced at approximately 1m centres.

#### 3.4. Tree 4. Banksia integrifolia

This mature tree is approximately 9m tall with a canopy spread of 4m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.5. Tree 5. Banksia integrifolia

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.6. Tree 6. Banksia integrifolia

This mature tree is approximately 7m tall with a canopy spread of 4m. It has a single trunk with a DBH of 220mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.7. Tree 7. Banksia integrifolia

This mature tree is approximately 8m tall with a canopy spread of 5m. It has a single trunk with a DBH of 280mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.8. Tree 8. Casuarina spp

This mature tree is approximately 18m tall with a canopy spread of 8m. It has a single trunk with a DBH of 455mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.9. Tree 9. Casuarina spp

This mature tree is approximately 19m tall with a canopy spread of 13m. It has a single trunk with a DBH of 615mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.10. Tree 10. Eucalyptus grandis

This mature tree is approximately 29m tall with a canopy spread of 21m. It has a single trunk with a DBH of 1255mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.11. Tree 11. Eucalyptus saligna

This mature tree is approximately 18m tall with a canopy spread of 8m. It has a single trunk with a DBH of 380mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.12. Tree 12. Eucalyptus saligna

This mature tree is approximately 14m tall with a canopy spread of 6m. It has a single trunk with a DBH of 310mm. This tree is in fair health and condition with minimal deadwood and epicormic growth. There is evidence of a wound. Damage to the trunk visually appears to be approximately 75% of the cambium. This tree is recommended for removal.

### 3.13. Tree 13. Eucalyptus saligna

This mature tree is approximately 16m tall with a canopy spread of 4m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.14. Tree 14. Casuarina spp

This mature tree is approximately 11m tall with a canopy spread of 6m. It has a single trunk with a DBH of 255mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.15. Tree 15. Tristaniopsis laurina

This mature tree is approximately 5m tall with a canopy spread of 4m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 300mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.16. Tree 16. Syncarpia glomulifera

This mature tree is approximately 8m tall with a canopy spread of 5m. It has a single trunk with a DBH of 310mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.17. Tree 17. Syncarpia glomulifera

This mature tree is approximately 5m tall with a canopy spread of 2m. It has a single trunk with a DBH of 130mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.18. Tree 18. Syncarpia glomulifera

This mature tree is approximately 8m tall with a canopy spread of 4m. It has a single trunk with a DBH of 270mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.19. Tree 19. Eucalyptus robusta

This mature tree is approximately 28m tall with a canopy spread of 18m. It has a single trunk with a DBH of 1035mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.20. Tree 20. Eucalyptus robusta

This mature tree is approximately 28m tall with a canopy spread of 15m. It has a single trunk with a DBH of 915mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.21. Tree 21. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 4m. It has multiple co-dominant trunks from the base with an aggregate DBH of 48mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.22. Tree 22. Melaleuca salicina

This mature tree is approximately 10m tall with a canopy spread of 6m It has twin co-dominant trunks from 1.5m above the base with a DBH of 450mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.23. Tree 23. Elaeocarpus reticulatis

This semi-mature tree is approximately 4m tall with a canopy spread of 1m. It has a single trunk with a DBH of 50mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.24. Tree 24. Elaeocarpus reticulatis

This semi-mature tree is approximately 4m tall with a canopy spread of 2m. It has a single trunk with a DBH of 75mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.25. Tree 25. Elaeocarpus reticulatis

This mature tree is approximately 3m tall with a canopy spread of 1m. It has a single trunk with a DBH of 100mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.26. Tree 26. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 4m. It has a single trunk with a DBH of 205mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.27. Tree 27. Callistemon viminalis

This mature tree is approximately 6m tall with a canopy spread of 6m. It has twin co-dominant trunks from the base with an aggregate DBH of 520mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.28. Tree 28. Callistemon viminalis

This mature tree is approximately 6m tall with a canopy spread of 4m. It has twin co-dominant trunks from the base with an aggregate DBH of 380mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.29. Tree 29. Callistemon viminalis

This mature tree is approximately 4.5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 220mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.30. Tree 30. Callistemon viminalis

This mature tree is approximately 2m tall with a canopy spread of 2m. It has a single trunk with a DBH of 90mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.31. Tree 31. Stenocarpus sinuatus

This mature tree is approximately 4m tall with a canopy spread of 2m. It has a single trunk with a DBH of 110mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.32. Tree 32. Callistemon viminalis

This mature tree is approximately 4.5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 275mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.33. Tree 33. Olea europaea

This mature tree is approximately 4.5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 300mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.34. Tree 34. Callistemon viminalis

This mature tree is approximately 4m tall with a canopy spread of 3m. It has a single trunk with a DBH of 300mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.35. Tree 35. Callistemon viminalis

This mature tree is approximately 4m tall with a canopy spread of 3m. It has multiple co-dominant trunks from the base with an aggregate DBH of 355mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.36. Tree 36. Callistemon viminalis

This mature tree is approximately 6m tall with a canopy spread of 7m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 600mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.37. Tree 37. Callistemon viminalis

This mature tree is approximately 4m tall with a canopy spread of 3m. It has a single trunk with a DBH of 380mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.38. Tree 38. Callistemon viminalis

This mature tree is approximately 4m tall with a canopy spread of 3m It has twin co-dominant trunks from the base with an aggregate DBH of 430mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.39. Tree 39. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 485mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.40. Tree 40. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 4m. It has a single trunk with a DBH of 315mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.41. Tree 41. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 3m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.42. Tree 42. Callistemon viminalis

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.43. Tree 43. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 6m. It has a single trunk with a DBH of 380mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.44. Tree 44. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 5m. It has twin co-dominant trunks from the base with an aggregate DBH of 435mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.45. Tree 45. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 6m. It has a single trunk with a DBH of 490mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.46. Tree 46. Callistemon viminalis

This mature tree is approximately 9m tall with a canopy spread of 6m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 475mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.47. Tree 47. Melaleuca bracteata

This mature tree is approximately 6m tall with a canopy spread of 3m. It has a single trunk with a DBH of 115mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.48. Tree 48. Callistemon viminalis

This mature tree is approximately 10m tall with a canopy spread of 8m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 765mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.49. Tree 49. Tristaniopsis laurina

This mature tree is approximately 5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 200mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.50. Tree 50. Callistemon viminalis

This mature tree is approximately 10m tall with a canopy spread of 7m. It has twin co-dominant trunks from the base with an aggregate DBH of 280mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.51. Tree 51. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 4m. It has twin co-dominant trunks from the base with an aggregate DBH of 190mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.52. Tree 52. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 3m. It has a single trunk with a DBH of 245mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.53. Tree 53. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 6m. It has a single trunk with a DBH of 324mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.54. Tree 54. Olea europaea

This mature tree is approximately 3m tall with a canopy spread of 1m. It has a single trunk with a DBH of 50mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.55. Tree 55. Corymbia ficifolia

This mature tree is approximately 5m tall with a canopy spread of 5m. It has a single trunk with a DBH of 350mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.56. Tree 56. Fraxinus griffithii

This mature tree is approximately 6m tall with a canopy spread of 5m. It has multiple co-dominant trunks from the base with an aggregate DBH of 255mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.57. Tree 57. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 6m. It has multiple co-dominant trunks from the base with an aggregate DBH of 445mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.58. Tree 58. Tristaniopsis laurina

This mature tree is approximately 2m tall with a canopy spread of 2m. It has a single trunk with a DBH of 105mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.59. Tree 59. Tristaniopsis laurina

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 415mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.60. Tree 60. Fraxinus griffithii

This mature tree is approximately 6m tall with a canopy spread of 6m. It has a single trunk with a DBH of 215mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.61. Tree 61. Jacaranda mimosifolia

This mature tree is approximately 8m tall with a canopy spread of 7m. It has a single trunk with a DBH of 400mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.62. Tree 62. Jacaranda mimosifolia

This mature tree is approximately 10m tall with a canopy spread of 8m. It has a single trunk with a DBH of 545mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.63. Tree 63. Tristaniopsis laurina

This mature tree is approximately 9m tall with a canopy spread of 5m. It has a single trunk with a DBH of 430mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.64. Tree 64. Lophostemon confertus

This mature tree is approximately 10m tall with a canopy spread of 7m. It has a single trunk with a DBH of 335mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.65. Tree 65. Lophostemon confertus

This mature tree is approximately 8m tall with a canopy spread of 7m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.66. Tree 66. Lophostemon confertus

This mature tree is approximately 8m tall with a canopy spread of 5m. It has a single trunk with a DBH of 240mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.67. Tree 67. Lophostemon confertus

This mature tree is approximately 7m tall with a canopy spread of 5m. It has a single trunk with a DBH of 280mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.68. Tree 68. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 6m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 465mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.69. Tree 69. Callistemon viminalis

This mature tree is approximately 9m tall with a canopy spread of 7m. It has multiple (3) co-dominant trunks from the base with an aggregate DBH of 420mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.70. Tree 70. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 6m. It has multiple (3) co-dominant trunks from 0.4m above the base

with an aggregate DBH of 410mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.71. Tree 71. Tristaniopsis laurina

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 400mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.72. Tree 72. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 5m. It has a single trunk with a DBH of 275mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.73. Tree 73. Tristaniopsis laurina

This semi-mature tree is approximately 5m tall with a canopy spread of 3m. It has a single trunk with a DBH of 115mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.74. Tree 74. Callistemon viminalis

This mature tree is approximately 9m tall with a canopy spread of 7m. It has a single trunk with a DBH of 370mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.75. Tree 75. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 5m. It has a single trunk with a DBH of 310mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.76. Tree 76. Tristaniopsis laurina

This mature tree is approximately 8m tall with a canopy spread of 6m. It has a single trunk with a DBH of 340mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.77. Tree 77. Callistemon viminalis

This mature tree is approximately 9m tall with a canopy spread of 7m. It has multiple co-dominant trunks from the base with an aggregate DBH of 475mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.78. Tree 78. Callistemon viminalis

This mature tree is approximately 6m tall with a canopy spread of 6m. It has a single trunk with a DBH of 340mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.79. Tree 79. Callistemon viminalis

This mature tree is approximately 8m tall with a canopy spread of 7m. It has a single trunk with a DBH of 350mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.80. Tree 80. Tristaniopsis laurina

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 370mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.81. Tree 81. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 7m. It has a single trunk with a DBH of 400mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.82. Tree 82. Callistemon viminalis

This mature tree is approximately 5m tall with a canopy spread of 4m. It has a single trunk with a DBH of 230mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.83. Tree 83. Lophostemon confertus

This mature tree is approximately 9m tall with a canopy spread of 7m. It has a single trunk with a DBH of 340mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.84. Tree 84. Tristaniopsis laurina

This mature tree is approximately 6m tall with a canopy spread of 4m. It has a single trunk with a DBH of 215mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.85. Tree 85. Tristaniopsis laurina

This mature tree is approximately 8m tall with a canopy spread of 7m. It has a single trunk with a DBH of 290mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.86. Tree 86. Syncarpia glomulifera

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 310mm. This tree is in fair health and condition with a thinning canopy, moderate deadwood and minimal epicormic growth.

### 3.87. Tree 87. Syncarpia glomulifera

This mature tree is approximately 9m tall with a canopy spread of 6m. It has a single trunk with a DBH of 355mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.88. Tree 88. Eucalyptus nicholii

This mature tree is approximately 11m tall with a canopy spread of 9m. It has a single trunk with a DBH of 920mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.89. Tree 89. Liquidambar styraciflua

This mature tree is approximately 11m tall with a canopy spread of 9m. It has a single trunk with a DBH of 550mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.90. Tree 90. Liquidambar styraciflua

This mature tree is approximately 10m tall with a canopy spread of 8m. It has a single trunk with a DBH of 460mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.91. Tree 91. Liquidambar styraciflua

This mature tree is approximately 9m tall with a canopy spread of 8m. It has a single trunk with a DBH of 450mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

### 3.92. Tree 92. Liquidambar styraciflua

This mature tree is approximately 10m tall with a canopy spread of 8m. It has a single trunk with a DBH of 360mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.93. Tree 93. Liquidambar styraciflua

This mature tree is approximately 10m tall with a canopy spread of 8m. It has a single trunk with a DBH of 435mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

## 3.94. Tree 94. Liquidambar styraciflua

This mature tree is approximately 11m tall with a canopy spread of 7m. It has a single trunk with a DBH of 510mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.95. Tree 95. Platanus x hybrida

This mature tree is approximately 16m tall with a canopy spread of 10m. It has a single trunk with a DBH of 535mm. The canopy is unbalanced to the east due to line clearing. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.96. Tree 96. Ulmus parvifolia

This mature tree is approximately 12m tall with a canopy spread of 11m. It has a single trunk with a DBH of 315mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.97. Tree 97. Ulmus parvifolia

This mature tree is approximately 11m tall with a canopy spread of 10m. It has a single trunk with a DBH of 360mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.98. Tree 98. Ficus rubiginosa

This mature tree is approximately 14m tall with a canopy spread of 13m. It has multiple co-dominant trunks from the base with an aggregate DBH of 800mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.99. Tree 99. Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 7m. It has multiple co-dominant trunks from the base with an aggregate DBH of 455mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.100. Tree 100 Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 5m. It has a single trunk with a DBH of 560mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.101. Tree 101 Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 6m. It has a single trunk with a DBH of 330mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.102. Tree 102 Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 7m. It has multiple co-dominant trunks from the base with an aggregate DBH of 370mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.103. Tree 103 Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 7m. It has a single trunk with a DBH of 400mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.104. Tree 104 Callistemon viminalis

This mature tree is approximately 7m tall with a canopy spread of 7m. It has a single trunk with a DBH of 400mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

#### 3.105. Tree 105 Sapium sebiferum

This mature tree is approximately 16m tall with a canopy spread of 9m. It has a single trunk with a DBH of 905mm. This tree is in good health and condition with minimal deadwood and epicormic growth.

# 4.0 Landscape Significance of Trees

### 4.1 Landscape Significance

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

# 4.2 Methodology of Determining Landscape Significance

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

## 4.3 Landscape Significance of Subject Trees

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

Tree no.	Species	Landscape Significance
1.	Corymbia maculata	High
2.	Banksia integrifolia	Medium
3.	Syzygium paniculatum	Medium
4.	Banksia integrifolia	Medium
5.	Banksia integrifolia	Medium
6.	Banksia integrifolia	Medium
7.	Banksia integrifolia	Medium
8.	Casuarina spp	Medium
9.	Casuarina spp	Medium
10.	Eucalyptus grandis	High
11.	Eucalyptus saligna	Medium
12.	Eucalyptus saligna	Medium
13.	Eucalyptus saligna	Medium
14.	Casuarina spp	Medium
15.	Tristaniopsis laurina	Medium
16.	Syncarpia glomulifera	High
17.	Syncarpia glomulifera	Medium
18.	Syncarpia glomulifera	Medium
19.	Eucalyptus robusta	High
20.	Eucalyptus robusta	High
21.	Callistemon viminalis	Medium
22.	Melaleuca salicina	Medium
23.	Elaeocarpus reticulatis	Medium
24.	Elaeocarpus reticulatis	Medium
25.	Elaeocarpus reticulatis	Medium
26.	Callistemon viminalis	Medium
27.	Callistemon viminalis	Medium
28.	Callistemon viminalis	Medium
29.	Callistemon viminalis	Medium
30.	Callistemon viminalis	Medium
31.	Stenocarpus sinuatus	Medium

32. Callistemon viminalis 33. Olea europaea Medium 34. Callistemon viminalis Medium 35. Callistemon viminalis Medium 36. Callistemon viminalis Medium 37. Callistemon viminalis Medium 38. Callistemon viminalis Medium 39. Callistemon viminalis Medium 40. Callistemon viminalis Medium 41. Callistemon viminalis Medium 42. Callistemon viminalis Medium 43. Callistemon viminalis Medium 44. Callistemon viminalis Medium 45. Callistemon viminalis Medium 46. Callistemon viminalis Medium 47. Medium 48. Callistemon viminalis Medium 49. Tristaniopsis laurina Medium 50. Callistemon viminalis Medium 51. Callistemon viminalis Medium 52. Callistemon viminalis Medium 53. Callistemon viminalis Medium 54. Olea europaea Medium 55. Corymbia ficifolia Medium 56. Fraxinus griffithii Medium 57. Callistemon viminalis Medium 58. Tristaniopsis laurina Medium 59. Tristaniopsis laurina Medium 60. Fraxinus griffithii Medium 61. Jacaranda mimosifolia Medium 62. Jacaranda mimosifolia Medium 63. Tristaniopsis laurina Medium 64. Lophostemon confertus Medium 65. Lophostemon confertus Medium 66. Lophostemon confertus Medium 67. Callistemon viminalis Medium 68. Callistemon viminalis Medium 69. Callistemon viminalis Medium 70. Callistemon viminalis Medium 71. Tristaniopsis laurina Medium 72. Callistemon viminalis Medium 73. Tristaniopsis laurina Medium 74. Callistemon viminalis Medium 75. Callistemon viminalis Medium 76. Callistemon viminalis Medium 77. Callistemon viminalis Medium 78. Callistemon viminalis Medium 79. Callistemon viminalis Medium 71. Tristaniopsis laurina Medium 72. Callistemon viminalis Medium 73. Tristaniopsis laurina Medium 74. Callistemon viminalis Medium 75. Callistemon viminalis Medium 76. Callistemon viminalis Medium 77. Callistemon viminalis Medium 78. Callistemon viminalis Medium 79. Callistemon viminalis Medium 71. Tristaniopsis laurina Medium 72. Callistemon viminalis Medium			
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46. Callistemon viminalis Medium  47. Melaleuca bracteata Medium  48. Callistemon viminalis Medium  50. Callistemon viminalis Medium  51. Callistemon viminalis Medium  52. Callistemon viminalis Medium  53. Callistemon viminalis Medium  54. Olea europaea Medium  55. Corymbia ficifolia Medium  57. Callistemon viminalis Medium  58. Tristaniopsis laurina Medium  59. Tristaniopsis laurina Medium  60. Fraxinus griffithii Medium  61. Jacaranda mimosifolia Medium  62. Jacaranda mimosifolia Medium  63. Tristaniopsis laurina Medium  64. Lophostemon confertus Medium  65. Lophostemon confertus Medium  66. Lophostemon confertus Medium  67. Lophostemon confertus Medium  68. Callistemon viminalis Medium  69. Callistemon viminalis Medium  70. Callistemon viminalis Medium  71. Tristaniopsis laurina Medium  72. Callistemon viminalis Medium  73. Tristaniopsis laurina Medium  74. Callistemon viminalis Medium  75. Callistemon viminalis Medium  76. Callistemon viminalis Medium	44.	Callistemon viminalis	Medium
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48. Callistemon viminalis  49. Tristaniopsis laurina  50. Callistemon viminalis  51. Callistemon viminalis  52. Callistemon viminalis  53. Callistemon viminalis  54. Olea europaea  55. Corymbia ficifolia  56. Fraxinus griffithii  57. Callistemon viminalis  58. Tristaniopsis laurina  60. Fraxinus griffithii  61. Jacaranda mimosifolia  62. Jacaranda mimosifolia  63. Tristaniopsis laurina  64. Lophostemon confertus  66. Lophostemon confertus  67. Lophostemon confertus  68. Callistemon viminalis  Medium  69. Callistemon viminalis  Medium  61. Jocaranda mimosifolia  Medium  62. Jacaranda mimosifolia  Medium  63. Tristaniopsis laurina  Medium  64. Lophostemon confertus  Medium  65. Lophostemon confertus  Medium  67. Lophostemon confertus  Medium  68. Callistemon viminalis  Medium  70. Callistemon viminalis  Medium  71. Tristaniopsis laurina  Medium  72. Callistemon viminalis  Medium  73. Tristaniopsis laurina  Medium	46.	Callistemon viminalis	Medium
49. Tristaniopsis laurina  50. Callistemon viminalis  51. Callistemon viminalis  52. Callistemon viminalis  53. Callistemon viminalis  54. Olea europaea  55. Corymbia ficifolia  56. Fraxinus griffithii  57. Callistemon viminalis  58. Tristaniopsis laurina  60. Fraxinus griffithii  61. Jacaranda mimosifolia  62. Jacaranda mimosifolia  63. Tristaniopsis laurina  64. Lophostemon confertus  66. Lophostemon confertus  67. Lophostemon confertus  68. Callistemon viminalis  Medium  69. Callistemon viminalis  Medium  70. Callistemon viminalis  Medium  71. Tristaniopsis laurina  Medium	47.	Melaleuca bracteata	Medium
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52. Callistemon viminalis  53. Callistemon viminalis  54. Olea europaea  Medium  55. Corymbia ficifolia  Medium  56. Fraxinus griffithii  Medium  57. Callistemon viminalis  Medium  58. Tristaniopsis laurina  Medium  60. Fraxinus griffithii  Medium  61. Jacaranda mimosifolia  Medium  62. Jacaranda mimosifolia  Medium  63. Tristaniopsis laurina  Medium  64. Lophostemon confertus  Medium  65. Lophostemon confertus  Medium  66. Lophostemon confertus  Medium  67. Lophostemon confertus  Medium  68. Callistemon viminalis  Medium  70. Callistemon viminalis  Medium  71. Tristaniopsis laurina  Medium  72. Callistemon viminalis  Medium  73. Tristaniopsis laurina  Medium	50.	Callistemon viminalis	Medium
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57. Callistemon viminalis  58. Tristaniopsis laurina  59. Tristaniopsis laurina  60. Fraxinus griffithii  61. Jacaranda mimosifolia  62. Jacaranda mimosifolia  63. Tristaniopsis laurina  64. Lophostemon confertus  65. Lophostemon confertus  66. Lophostemon confertus  67. Lophostemon confertus  68. Callistemon viminalis  69. Callistemon viminalis  70. Callistemon viminalis  71. Tristaniopsis laurina  Medium  Medium  72. Callistemon viminalis  Medium  73. Tristaniopsis laurina  Medium	55.	Corymbia ficifolia	Medium
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67. Lophostemon confertus  68. Callistemon viminalis  69. Callistemon viminalis  70. Callistemon viminalis  71. Tristaniopsis laurina  72. Callistemon viminalis  73. Tristaniopsis laurina  74. Callistemon viminalis  Medium  Medium  Medium  Medium	65.	, ,	
68. Callistemon viminalis  69. Callistemon viminalis  70. Callistemon viminalis  71. Tristaniopsis laurina  72. Callistemon viminalis  73. Tristaniopsis laurina  74. Callistemon viminalis  Medium  Medium  Medium  Medium	66.	Lophostemon confertus	
69. Callistemon viminalis  70. Callistemon viminalis  71. Tristaniopsis laurina  72. Callistemon viminalis  73. Tristaniopsis laurina  74. Callistemon viminalis  Medium  Medium  Medium	67.	, ,	
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77. Callistemon viminalis  78. Callistemon viminalis  79. Callistemon viminalis  80. Tristaniopsis laurina  81. Callistemon viminalis  82. Callistemon viminalis  83. Lophostemon confertus  84. Tristaniopsis laurina  85. Tristaniopsis laurina  86. Syncarpia glomulifera  87. Syncarpia glomulifera  88. Eucalyptus nicholii  89. Liquidambar styraciflua  90. Liquidambar styraciflua  91. Liquidambar styraciflua  92. Liquidambar styraciflua  93. Liquidambar styraciflua  94. Liquidambar styraciflua  95. Platanus x hybrida  96. Ulmus parvifolia  97. Ulmus parvifolia  98. Ficus rubiginosa  99. Callistemon viminalis  100. Callistemon viminalis  101. Callistemon viminalis  Medium  Medium	76.	Tristaniopsis laurina	Medium
79. Callistemon viminalis Medium  80. Tristaniopsis laurina Medium  81. Callistemon viminalis Medium  82. Callistemon viminalis Medium  83. Lophostemon confertus Medium  84. Tristaniopsis laurina Medium  85. Tristaniopsis laurina Medium  86. Syncarpia glomulifera Medium  87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  106. Callistemon viminalis Medium  107. Callistemon viminalis Medium	77.	Callistemon viminalis	Medium
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81. Callistemon viminalis  82. Callistemon viminalis  83. Lophostemon confertus  84. Tristaniopsis laurina  85. Tristaniopsis laurina  86. Syncarpia glomulifera  87. Syncarpia glomulifera  88. Eucalyptus nicholii  89. Liquidambar styraciflua  90. Liquidambar styraciflua  91. Liquidambar styraciflua  92. Liquidambar styraciflua  93. Liquidambar styraciflua  94. Liquidambar styraciflua  96. Ulmus parvifolia  97. Ulmus parvifolia  98. Ficus rubiginosa  99. Callistemon viminalis  100. Callistemon viminalis  101. Callistemon viminalis  103. Callistemon viminalis  Medium	79.	Callistemon viminalis	Medium
82. Callistemon viminalis  83. Lophostemon confertus  84. Tristaniopsis laurina  85. Tristaniopsis laurina  86. Syncarpia glomulifera  87. Syncarpia glomulifera  88. Eucalyptus nicholii  89. Liquidambar styraciflua  90. Liquidambar styraciflua  91. Liquidambar styraciflua  92. Liquidambar styraciflua  93. Liquidambar styraciflua  94. Liquidambar styraciflua  96. Ulmus parvifolia  97. Ulmus parvifolia  98. Ficus rubiginosa  99. Callistemon viminalis  100. Callistemon viminalis  101. Callistemon viminalis  102. Callistemon viminalis  103. Callistemon viminalis  Medium	80.	Tristaniopsis laurina	Medium
83. Lophostemon confertus Medium  84. Tristaniopsis laurina Medium  85. Tristaniopsis laurina Medium  86. Syncarpia glomulifera Medium  87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  95. Platanus x hybrida High  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  106. Callistemon viminalis Medium	81.	Callistemon viminalis	Medium
84. Tristaniopsis laurina Medium  85. Tristaniopsis laurina Medium  86. Syncarpia glomulifera Medium  87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium	82.	Callistemon viminalis	Medium
85. Tristaniopsis laurina Medium  86. Syncarpia glomulifera Medium  87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  95. Platanus x hybrida High  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium  107. Callistemon viminalis Medium  108. Callistemon viminalis Medium	83.	Lophostemon confertus	Medium
86. Syncarpia glomulifera Medium  87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  95. Platanus x hybrida High  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium  107. Callistemon viminalis Medium	84.	Tristaniopsis laurina	Medium
87. Syncarpia glomulifera Medium  88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  95. Platanus x hybrida High  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium  107. Callistemon viminalis Medium  108. Medium  109. Callistemon viminalis Medium	85.	Tristaniopsis laurina	Medium
88. Eucalyptus nicholii Medium  89. Liquidambar styraciflua Medium  90. Liquidambar styraciflua Medium  91. Liquidambar styraciflua Medium  92. Liquidambar styraciflua Medium  93. Liquidambar styraciflua Medium  94. Liquidambar styraciflua Medium  95. Platanus x hybrida High  96. Ulmus parvifolia Medium  97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium  107. Callistemon viminalis Medium  108. Callistemon viminalis Medium  109. Callistemon viminalis Medium	86.	Syncarpia glomulifera	Medium
89. Liquidambar styraciflua Medium 90. Liquidambar styraciflua Medium 91. Liquidambar styraciflua Medium 92. Liquidambar styraciflua Medium 93. Liquidambar styraciflua Medium 94. Liquidambar styraciflua Medium 95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Callistemon viminalis Medium 108. Callistemon viminalis Medium 109. Callistemon viminalis Medium	87.	Syncarpia glomulifera	Medium
90. Liquidambar styraciflua Medium 91. Liquidambar styraciflua Medium 92. Liquidambar styraciflua Medium 93. Liquidambar styraciflua Medium 94. Liquidambar styraciflua Medium 95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium	88.	Eucalyptus nicholii	Medium
91. Liquidambar styraciflua Medium 92. Liquidambar styraciflua Medium 93. Liquidambar styraciflua Medium 94. Liquidambar styraciflua Medium 95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Callistemon viminalis Medium 108. Callistemon viminalis Medium 109. Callistemon viminalis Medium 109. Callistemon viminalis Medium	89.	Liquidambar styraciflua	Medium
92. Liquidambar styraciflua Medium 93. Liquidambar styraciflua Medium 94. Liquidambar styraciflua Medium 95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Callistemon viminalis Medium 108. Callistemon viminalis Medium 109. Callistemon viminalis Medium 100. Callistemon viminalis Medium	90.	Liquidambar styraciflua	Medium
93. Liquidambar styraciflua Medium 94. Liquidambar styraciflua Medium 95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Medium 108. Callistemon viminalis Medium 109. Callistemon viminalis Medium 109. Callistemon viminalis Medium	91.	Liquidambar styraciflua	Medium
94. Liquidambar styraciflua  95. Platanus x hybrida  96. Ulmus parvifolia  97. Ulmus parvifolia  98. Ficus rubiginosa  99. Callistemon viminalis  100. Callistemon viminalis  101. Callistemon viminalis  102. Callistemon viminalis  103. Callistemon viminalis  104. Callistemon viminalis  Medium	92.	Liquidambar styraciflua	Medium
95. Platanus x hybrida High 96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Callistemon viminalis Medium 108. Callistemon viminalis Medium	93.	Liquidambar styraciflua	Medium
96. Ulmus parvifolia Medium 97. Ulmus parvifolia Medium 98. Ficus rubiginosa Medium 99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium 105. Callistemon viminalis Medium 106. Callistemon viminalis Medium 107. Callistemon viminalis Medium	94.	Liquidambar styraciflua	Medium
97. Ulmus parvifolia Medium  98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium  105. Callistemon viminalis Medium  106. Callistemon viminalis Medium	95.	Platanus x hybrida	High
98. Ficus rubiginosa Medium  99. Callistemon viminalis Medium  100. Callistemon viminalis Medium  101. Callistemon viminalis Medium  102. Callistemon viminalis Medium  103. Callistemon viminalis Medium  104. Callistemon viminalis Medium	96.	Ulmus parvifolia	Medium
99. Callistemon viminalis Medium 100. Callistemon viminalis Medium 101. Callistemon viminalis Medium 102. Callistemon viminalis Medium 103. Callistemon viminalis Medium 104. Callistemon viminalis Medium	97.	Ulmus parvifolia	Medium
100.Callistemon viminalisMedium101.Callistemon viminalisMedium102.Callistemon viminalisMedium103.Callistemon viminalisMedium104.Callistemon viminalisMedium	98.	Ficus rubiginosa	Medium
101.Callistemon viminalisMedium102.Callistemon viminalisMedium103.Callistemon viminalisMedium104.Callistemon viminalisMedium	99.	Callistemon viminalis	Medium
102.Callistemon viminalisMedium103.Callistemon viminalisMedium104.Callistemon viminalisMedium	100.	Callistemon viminalis	Medium
103. Callistemon viminalis Medium 104. Callistemon viminalis Medium	101.	Callistemon viminalis	Medium
104. Callistemon viminalis Medium	102.	Callistemon viminalis	Medium
	103.	Callistemon viminalis	Medium
105. Sapium sebiferum Medium	104.	Callistemon viminalis	Medium
	105.	Sapium sebiferum	Medium

Table 1 - Landscape Significance

# 5.0 Subject Tree Retention Value

## 5.1 Tree Retention Value Methodology

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

# 5.2 Retention Value of Subject Trees

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

Tree no.	Species	Retention Value
1.	Corymbia maculata	High
2.	Banksia integrifolia	Medium
3.	Syzygium paniculatum	Medium
4.	Banksia integrifolia	Medium
5.	Banksia integrifolia	Medium
6.	Banksia integrifolia	Medium
7.	Banksia integrifolia	Medium
8.	Casuarina spp	Medium
9.	Casuarina spp	Medium
10.	Eucalyptus grandis	High
11.	Eucalyptus saligna	Medium
12.	Eucalyptus saligna	Medium
13.	Eucalyptus saligna	Medium
14.	Casuarina spp	Medium
15.	Tristaniopsis laurina	Medium
16.	Syncarpia glomulifera	High
17.	Syncarpia glomulifera	Medium
18.	Syncarpia glomulifera	Medium
19.	Eucalyptus robusta	High
20.	Eucalyptus robusta	High
21.	Callistemon viminalis	Medium
22.	Melaleuca salicina	Medium
23.	Elaeocarpus reticulatis	Medium
24.	Elaeocarpus reticulatis	Medium
25.	Elaeocarpus reticulatis	Medium
26.	Callistemon viminalis	Medium
27.	Callistemon viminalis	Medium
28.	Callistemon viminalis	Medium
29.	Callistemon viminalis	Medium
30.	Callistemon viminalis	Medium
31.	Stenocarpus sinuatus	Medium
32.	Callistemon viminalis	Medium
33.	Olea europaea	Medium
34.	Callistemon viminalis	Medium
35.	Callistemon viminalis	Medium
36.	Callistemon viminalis	Medium
37.	Callistemon viminalis	Medium

38.	Callistemon viminalis	Medium
39.	Callistemon viminalis	Medium
40.	Callistemon viminalis	Medium
41.	Callistemon viminalis	Medium
42.	Callistemon viminalis	Medium
43.	Callistemon viminalis	Medium
44.	Callistemon viminalis	Medium
45.	Callistemon viminalis	Medium
46.	Callistemon viminalis	Medium
47.	Melaleuca bracteata	Medium
48.	Callistemon viminalis	Medium
49.	Tristaniopsis laurina	Medium
50.	Callistemon viminalis	Medium
51.	Callistemon viminalis	Medium
52.	Callistemon viminalis	Medium
53.	Callistemon viminalis	Medium
54.	Olea europaea	Medium
55.	Corymbia ficifolia	Medium
56.	Fraxinus griffithii	Medium
57.	Callistemon viminalis	Medium
58.	Tristaniopsis laurina	Medium
59.	Tristaniopsis laurina	Medium
60.	Fraxinus griffithii	Medium
61.	Jacaranda mimosifolia	Medium
62.	Jacaranda mimosifolia	Medium
63.	Tristaniopsis laurina	Medium
64.	Lophostemon confertus	Medium
65.	Lophostemon confertus	Medium
66.	Lophostemon confertus	Medium
67.	Lophostemon confertus	Medium
68.	Callistemon viminalis	Medium
69.	Callistemon viminalis	Medium
70.	Callistemon viminalis	Medium
71.	Tristaniopsis laurina	Medium
72.	Callistemon viminalis	Medium
73.	Tristaniopsis laurina	Medium
74.	Callistemon viminalis	Medium
75.	Callistemon viminalis	Medium
76.	Tristaniopsis laurina	Medium
77.	Callistemon viminalis	Medium
78.	Callistemon viminalis	Medium
79.	Callistemon viminalis	Medium
80.	Tristaniopsis laurina	Medium
81.	Callistemon viminalis	Medium

82.	Callistemon viminalis	Medium
83.	Lophostemon confertus	Medium
84.	Tristaniopsis laurina	Medium
85.	Tristaniopsis laurina	Medium
86.	Syncarpia glomulifera	Medium
87.	Syncarpia glomulifera	Medium
88.	Eucalyptus nicholii	Medium
89.	Liquidambar styraciflua	Medium
90.	Liquidambar styraciflua	Medium
91.	Liquidambar styraciflua	Medium
92.	Liquidambar styraciflua	Medium
93.	Liquidambar styraciflua	Medium
94.	Liquidambar styraciflua	Medium
95.	Platanus x hybrida	High
96.	Ulmus parvifolia	Medium
97.	Ulmus parvifolia	Medium
98.	Ficus rubiginosa	Medium
99.	Callistemon viminalis	Medium
100.	Callistemon viminalis	Medium
101.	Callistemon viminalis	Medium
102.	Callistemon viminalis	Medium
103.	Callistemon viminalis	Medium
104.	Callistemon viminalis	Medium
105.	Sapium sebiferum	Medium

Table 2 - Tree Retention Value

# 6.0 Impact of Development

### 6.1 Tree Protection Zone

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

Tree no.	Species	TPZ Radius (m)	Encroachment (%)
1.	Corymbia maculata	6.6	15
2.	Banksia integrifolia	3	100
3.	Syzygium paniculatum	2	100

4.	Banksia integrifolia	2.88	100
5.	Banksia integrifolia	2.88	100
6.	Banksia integrifolia	2.64	100
7.	Banksia integrifolia	3.36	0
8.	Casuarina spp	5.46	100
9.	Casuarina spp	7.38	15
10.	Eucalyptus grandis	15.06	25
11.	Eucalyptus saligna	4.56	0
12.	Eucalyptus saligna	N/A	N/A
13.	Eucalyptus saligna	2.88	0
14.	Casuarina spp	3.06	0
15.	Tristaniopsis laurina	3.6	0
16.	Syncarpia glomulifera	3.72	0
17.	Syncarpia glomulifera	2	0
18.	Syncarpia glomulifera	3.24	0
19.	Eucalyptus robusta	12.42	30
20.	Eucalyptus robusta	10.98	8
21.	Callistemon viminalis	2	0
22.	Melaleuca salicina	5.4	12
23.	Elaeocarpus reticulatis	2	0
24.	Elaeocarpus reticulatis	2	0
25.	Elaeocarpus reticulatis	2	0
26.	Callistemon viminalis	2.46	0
27.	Callistemon viminalis	6.24	0
28.	Callistemon viminalis	4.56	0
29.	Callistemon viminalis	2.64	0
30.	Callistemon viminalis	2	0
31.	Stenocarpus sinuatus	2	0
32.	Callistemon viminalis	3.3	0
33.	Olea europaea	3.6	0
34.	Callistemon viminalis	3.6	0
35.	Callistemon viminalis	4.26	0
36.	Callistemon viminalis	7.2	0
37.	Callistemon viminalis	4.56	0
38.	Callistemon viminalis	5.16	0
39.	Callistemon viminalis	5.82	0
40.	Callistemon viminalis	3.78	0
41.	Callistemon viminalis	2.88	0
42.	Callistemon viminalis	2.88	0
43.	Callistemon viminalis	4.56	10
44.	Callistemon viminalis	5.22	15
45.	Callistemon viminalis	5.88	18
46.	-		
	Callistemon viminalis	5.7	18 0

48.	Callistemon viminalis	9.18	30
49.	Tristaniopsis laurina	2.4	0
50.	Callistemon viminalis	3.36	0
51.	Callistemon viminalis	2.28	0
52.	Callistemon viminalis	2.94	0
53.	Callistemon viminalis	3.888	0
54.	Olea europaea	2	0
55.	Corymbia ficifolia	4.2	10
56.	Fraxinus griffithii	3.06	0
57.	Callistemon viminalis	5.34	12
58.	Tristaniopsis laurina	2	0
59.	Tristaniopsis laurina	4.98	10
60.	Fraxinus griffithii	2.58	0
61.	Jacaranda mimosifolia	4.8	0
62.	Jacaranda mimosifolia	6.54	10
63.	Tristaniopsis laurina	5.16	8
64.	Lophostemon confertus	4.02	10
65.	Lophostemon confertus	2.88	0
66.	Lophostemon confertus	2.88	0
67.	Lophostemon confertus	3.36	0
68.	Callistemon viminalis	5.58	22
69.	Callistemon viminalis	5.04	16
70.	Callistemon viminalis	4.92	10
71.	Tristaniopsis laurina	4.8	0
72.	Callistemon viminalis	3.3	0
73.	Tristaniopsis laurina	2	0
74.	Callistemon viminalis	4.44	0
75.	Callistemon viminalis	3.72	0
76.	Tristaniopsis laurina	4.08	0
77.	Callistemon viminalis	5.7	20
78.	Callistemon viminalis	4.08	10
79.	Callistemon viminalis	4.2	10
80.	Tristaniopsis laurina	4.44	10
81.	Callistemon viminalis	4.8	10
82.	Callistemon viminalis	2.76	0
83.	Lophostemon confertus	4.08	10
84.	Tristaniopsis laurina	2.58	0
85.	Tristaniopsis laurina	3.48	10
86.	Syncarpia glomulifera	3.72	10
87.	Syncarpia glomulifera	4.26	15
88.	Eucalyptus nicholii	11.04	33
89.	Liquidambar styraciflua	6.6	20
90.	Liquidambar styraciflua	5.52	15
91.	Liquidambar styraciflua	5.4	15

92.	Liquidambar styraciflua	4.32	10
93.	Liquidambar styraciflua	5.22	10
94.	Liquidambar styraciflua	6.12	15
95.	Platanus x hybrida	6.42	30
96.	Ulmus parvifolia	3.78	0
97.	Ulmus parvifolia	4.32	50
98.	Ficus rubiginosa	9.6	10
99.	Callistemon viminalis	5.46	30
100.	Callistemon viminalis	6.72	30
101.	Callistemon viminalis	3.96	33
102.	Callistemon viminalis	4.44	42
103.	Callistemon viminalis	4.8	0
104.	Callistemon viminalis	4.8	0
105.	Sapium sebiferum	10.86	0

## 6.2 Development Impact

Tree that have been identified in 6.1 as impacted by the proposed works are as follows:

### 6.2.1. Tree 1. Corymbia maculata

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

## 6.2.2. Tree 2. Banksia integrifolia

The Tree Protection Zone (TPZ) of this tree in accordance with *AS* 4970-2009 Protection of Trees on Development Sites will be totally encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.3. Tree 3. Syzygium paniculatum

The Tree Protection Zone (TPZ) of this tree in accordance with *AS* 4970-2009 Protection of Trees on Development Sites will be totally encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.4. Tree 4. Banksia integrifolia

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be totally encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.5. Tree 5. Banksia integrifolia

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be totally

encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.6. Tree 6. Banksia integrifolia

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be totally encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.7. Tree 8. Casuarina spp

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be totally encroached by the proposed development. This tree will not be viable to be retained under the proposed development.

#### 6.2.8. Tree 9. Casuarina spp

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 6.2.9. Tree 10. Eucalyptus grandis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 25% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development without design and construction method revisions.

#### **6.2.10.** Tree 12. Eucalyptus saligna

This tree is recommended for removal.

#### Tree 19. **6.2.11.** Eucalyptus robusta

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development without design and construction method revisions.

#### **6.2.12.** Tree 20. Eucalyptus robusta

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 8% which is less than the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.13. Tree 22. Melaleuca salicina

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 12% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.14. Tree 43. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 3.2.15. Tree 44. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.16. Tree 45. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 18% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.17. Tree 46. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 18% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.18. Tree 48. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of the impediment to root development posed by the compacted road base of the existing roadway and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development with supervision and direction by the Site Arborist.

#### **5.2.19.** Tree 55. Corymbia ficifolia

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.20. Tree 57. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 12% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.21. Tree 59. Tristaniopsis laurina

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.22. Tree 62. Jacaranda mimosifolia

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.23. Tree 63. Tristaniopsis laurina

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 8% which is less than the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

## 5.2.24. Tree 64. Lophostemon confertus

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.25. Tree 68. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of the impediment to root development posed by the compacted road base of the existing roadway and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development with supervision and direction by the Site Arborist.

#### 5.2.26. Tree 69. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 16% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.27. Tree 70. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.28. Tree 78. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.29. Tree 79. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.30. Tree 80. Tristaniopsis laurina

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.31. Tree 81. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

## 5.2.32. Tree 83. Lophostemon confertus

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.33. Tree 85. Tristaniopsis laurina

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.34. Tree 86. Syncarpia glomulifera

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.35. Tree 87. Syncarpia glomulifera

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

### 5.2.36. Tree 88. Eucalyptus nicholii

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 33% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the

proposed development without design and construction method revisions.

## 5.2.37. Tree 89. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 20% which is significantly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of the impediment to root development posed by the compacted road base of the existing roadway and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development with supervision and direction by the Site Arborist.

#### 5.2.38. Tree 90. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.39. Tree 91. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.40. Tree 92. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.41. Tree 93. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.42. Tree 94. Liquidambar styraciflua

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 15% which is slightly greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of existing structures and this species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, this tree will be viable to be retained under the proposed development.

#### 5.2.43. Tree 95. Platanus x hybrida

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development without design and construction method revisions.

#### 5.2.44. Tree 97. Ulmus parvifolia

The crown of Tree 97 will be impacted by the proposed construction traffic. The transformer is required to be transported through this area and the transporter and transformer have dimensions of a height of 5050mm, width of 3800mm. This will result in more than 50% of the crown of this tree impacted. Crown reduction pruning would leave this tree with poor form and unbalanced canopy. This tree is not viable for retention.

#### 3.2.45. Tree 98. Ficus rubiginosa

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 10% which is equal to the minor encroachment as defined by AS 4970-2009. This tree will be viable to be retained under the proposed development.

#### 5.2.46. Tree 99. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development.

#### 5.2.47. Tree 100. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 30% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development.

#### 5.2.48. Tree 101. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 33% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development.

#### 5.2.49. Tree 102. Callistemon viminalis

The Tree Protection Zone (TPZ) of this tree in accordance with AS 4970-2009 Protection of Trees on Development Sites will be encroached by the proposed development by 42% which is significantly greater than the minor encroachment as defined by AS 4970-2009. This tree will not be viable to be retained under the proposed development.

#### 7.0 Recommendations

Tree 12 has significant decay and cambium damage to the trunk which places this tree at increased risk of failure. In consideration of the future development and the number of targets and therefore increased hazard posed, this tree is recommended for removal.

The Tree Protection Zone (TPZ) of Trees 2, 3, 4, 5, 6, 8, 99, 100, 101 and 102 are encroached by the proposed construction and required earthworks by a major encroachment as defined by *AS4970-2009 Protection of Trees on Development Sites*. These trees will not be viable to be retained and are recommended for removal.

Tree 3 is a grove of small trees or large shrubs that is a planted hedge of *Syzygium paniculatum*. This grove is between 3-4m wide, and trees are planted at approximately 1m centres. This grove consists of approximately 100 individual plants of which between 10-20 will be impacted and required to be removed.

The TPZ of Trees 1, 9, 22, 44, 45, 46, 48, 57, 59, 62, 68, 69, 77, 87, 89, 90, 91, 94 will be encroached by the proposed development by greater than the minor encroachment as defined by AS 4970-2009. Based on consideration of the impediment to root development posed by the compacted road base of the existing roadway and these species tolerance to root disturbance in accordance with clause 3.3.4 of AS 4970-2009, these trees will be viable to be retained under the proposed development with supervision and direction by the Site Arborist.

The Tree Protection Zone (TPZ) of Trees 10, 19, 88 and 95 will be encroached by a major encroachment which has the potential to significantly impact the viability of these trees. The proposed excavation is outside of the Structural Root Zone (SRZ) being the area of root development required for the stability of the tree. The SRZ's for Trees 10, 19, 88 and 95 are an area with a radius of 3.6m, 3.5m, 3.3m and 2.6m respectively. Revised design and construction methods will be required in order for these trees to be retained. These revisions include:

- 1. Re-alignment of proposed line and trench outside of the TPZ of the tree where possible.
- 2. All excavation within the TPZ to be carried out by non-destructive excavation techniques under the supervision of the Site arborist (minimum qualification AQF Level 5). Approved nondestructive techniques include an Air Knife or, if an Air Knife is not able to be used, a Vacuum truck strictly limited to pressures less than 1000Psi.
- 3. No tree roots greater than 30mm are to be cut within the TPZ and the new cable is to be threaded either through or under the roots.
- 4. Encroachment within the TPZ is to be to the maximum extent shown on the drawings.

If these revised methods are not able to be implemented the viability of these trees will be reduced and we would recommend the removal of these trees.

The crown of Tree 97 will be impacted by the proposed construction traffic. The transformer is required to be transported through this area and the transporter and transformer have dimensions of a height of 5050mm, width of 3800mm. This will result in more than 50% of the crown of this tree impacted. Crown reduction pruning would leave this tree with poor form and unbalanced canopy. We recommend the removal of this tree and replacement with suitable replacement species.

The canopies of Trees 10, 19 and 20 may be impacted by construction machinery during the excavation phase of the works. All works within the canopy of these trees are to be carried out under the supervision of the Site Arborist. Where there is a potential impact on the canopy, canopy reduction pruning is to be carried out by a qualified arborist minimum qualification AQF Level 3 under the supervision of the Site Arborist. All pruning is to be carried out in accordance with AS4373-2007 Pruning of Amenity Trees. There is to be no other impact on the canopy of the subject trees. If further impacts are noted these are to be brought to the attention of the Site Arborist.

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

Recommendations for tree retention or removal are summarised as follows:

Tree no.	Species	Recommendations	Comments
1.	Corymbia maculata	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist. Tree Protection Fencing to be installed in accordance with 8.3.
2.	Banksia integrifolia	Remove	Not viable to be retained due to encroachment by the proposed works.
3.	Syzygium paniculatum	Remove	Not viable to be retained due to encroachment by the proposed works.
4.	Banksia integrifolia	Remove	Not viable to be retained due to encroachment by the proposed works.
5.	Banksia integrifolia	Remove	Not viable to be retained due to encroachment by the proposed works.
6.	Banksia integrifolia	Remove	Not viable to be retained due to encroachment by the proposed works.
7.	Banksia integrifolia	Retain	Tree Protection Fencing to be installed in accordance with 8.3.
8.	Casuarina spp	Remove	Not viable to be retained due to encroachment by the proposed works.
9.	Casuarina spp	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist. Tree Protection Fencing to be installed in accordance with 8.3.
10.	Eucalyptus grandis	Retain if possible	Viable to be retained with revised design and construction methods in accordance with section 7.0 of this report. Tree Protection Fencing to be installed in accordance with 8.3.

11.	Eucalyptus saligna	Retain	Tree Protection Fencing to be
			installed in accordance with 8.3.
12.	Eucalyptus saligna	Remove	Damage to cambium to
			approximately 75% of trunk.
13.	Eucalyptus saligna	Retain	Tree Protection Fencing to be installed in accordance with 8.3.
4.4	Constant	Distrib	Tree Protection Fencing to be
14.	Casuarina spp	Retain	installed in accordance with 8.3.
15.	Tristaniopsis laurina	Retain	Tree Protection Fencing to be
	·		installed in accordance with 8.3.  Tree Protection Fencing to be
16.	Syncarpia glomulifera	Retain	installed in accordance with 8.3.
17.	Syncarpia glomulifera	Retain	Tree Protection Fencing to be
	Syncarpia giornanjera	rtetairi	installed in accordance with 8.3.
18.	Syncarpia glomulifera	Retain	Tree Protection Fencing to be installed in accordance with 8.3.
			Viable to be retained with revised
		Retain if	design and construction methods in
19.	Eucalyptus robusta	possible	accordance with section 7.0 of this
			report. Tree Protection Fencing to be installed in accordance with 8.3.
			Tree Protection Fencing to be
20.	Eucalyptus robusta	Retain	installed in accordance with 8.3.
21.	Callistemon viminalis	Retain	
			Excavation within the TPZ to be
22.	Melaleuca salicina	Retain	carried out under the direction and supervision of the Site Arborist.
23.	Elaeocarpus reticulatis	Retain	supervision of the Site Alborist.
24.	Elaeocarpus reticulatis	Retain	
25.	Elaeocarpus reticulatis	Retain	
26.	Callistemon viminalis	Retain	
27.	Callistemon viminalis	Retain	
28.	Callistemon viminalis	Retain	
29.	Callistemon viminalis	Retain	
30.	Callistemon viminalis	Retain	
31.	Stenocarpus sinuatus	Retain	
32.	Callistemon viminalis	Retain	
33.	Olea europaea	Retain	
34.	Callistemon viminalis	Retain	
35.	Callistemon viminalis	Retain	
36.	Callistemon viminalis	Retain	
37.	Callistemon viminalis	Retain	
38.	Callistemon viminalis	Retain	
39.	Callistemon viminalis	Retain	
40.	Callistemon viminalis	Retain	
41.	Callistemon viminalis	Retain	
42.	Callistemon viminalis	Retain	
43.	Callistemon viminalis	Retain	

			Excavation within the TPZ to be
44.	Callistemon viminalis	Retain	carried out under the direction and
			supervision of the Site Arborist.
			Excavation within the TPZ to be
45.	Callistemon viminalis	Retain	carried out under the direction and
			supervision of the Site Arborist.
4.0	Calling and a starting	Detelo	Excavation within the TPZ to be
46.	Callistemon viminalis	Retain	carried out under the direction and
47.	Melaleuca bracteata	Retain	supervision of the Site Arborist.
47.	Welaleaca Di acteata	Retain	Excavation within the TPZ to be
48.	Callistemon viminalis	Retain	carried out under the direction and
			supervision of the Site Arborist.
49.	Tristaniopsis laurina	Retain	
50.	Callistemon viminalis	Retain	
51.	Callistemon viminalis	Retain	
52.	Callistemon viminalis	Retain	
53.	Callistemon viminalis	Retain	
54.	Olea europaea	Retain	
55.	Corymbia ficifolia	Retain	
56.	Fraxinus griffithii	Retain	
	3 33		Excavation within the TPZ to be
57.	Callistemon viminalis	Retain	carried out under the direction and
			supervision of the Site Arborist.
58.	Tristaniopsis laurina	Retain	
			Excavation within the TPZ to be
59.	Tristaniopsis laurina	Retain	carried out under the direction and
60.	Fraxinus griffithii	Retain	supervision of the Site Arborist.
61.	Jacaranda mimosifolia	Retain	
01.	Jucurunuu miimosijonu	Retain	Excavation within the TPZ to be
62.	Jacaranda mimosifolia	Retain	carried out under the direction and
02.	sacaranaa mmesiyena	rtotani	supervision of the Site Arborist.
63.	Tristaniopsis laurina	Retain	
64.	Lophostemon confertus	Retain	
65.	Lophostemon confertus	Retain	
66.	Lophostemon confertus	Retain	
67.	Lophostemon confertus	Retain	
	,		Excavation within the TPZ to be
68.	Callistemon viminalis	Retain	carried out under the direction and
			supervision of the Site Arborist.
60	Callintana	D. C.	Excavation within the TPZ to be
69.	Callistemon viminalis	Retain	carried out under the direction and
70.	Callistemon viminalis	Retain	supervision of the Site Arborist.
70.	Tristaniopsis laurina	Retain	
72.	Callistemon viminalis	Retain	
73.		Retain	
73.	Tristaniopsis laurina Callistemon viminalis	Retain	
/4.	Canistemon virninalis	Retain	

75.	Callistemon viminalis	Retain	
76.	Tristaniopsis laurina	Retain	
77.	Callistemon viminalis	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
78.	Callistemon viminalis	Retain	
79.	Callistemon viminalis	Retain	
80.	Tristaniopsis laurina	Retain	
81.	Callistemon viminalis	Retain	
82.	Callistemon viminalis	Retain	
83.	Lophostemon confertus	Retain	
84.	Tristaniopsis laurina	Retain	
85.	Tristaniopsis laurina	Retain	
86.	Syncarpia glomulifera	Retain	
87.	Syncarpia glomulifera	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
88.	Eucalyptus nicholii	Retain if possible	Viable to be retained with revised design and construction methods in accordance with section 7.0 of this report.
89.	Liquidambar styraciflua	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
90.	Liquidambar styraciflua	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
91.	Liquidambar styraciflua	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
92.	Liquidambar styraciflua	Retain	
93.	Liquidambar styraciflua	Retain	
94.	Liquidambar styraciflua	Retain	Excavation within the TPZ to be carried out under the direction and supervision of the Site Arborist.
95.	Platanus x hybrida	Retain if possible	Viable to be retained with revised design and construction methods in accordance with section 7.0 of this report.
96.	Ulmus parvifolia	Retain	
97.	Ulmus parvifolia	Remove	Not viable to be retained due to encroachment by the proposed works.
98.	Ficus rubiginosa	Retain	
99.	Callistemon viminalis	Remove	Not viable to be retained due to encroachment by the proposed works.
100.	Callistemon viminalis	Remove	Not viable to be retained due to encroachment by the proposed works.

101.	Callistemon viminalis	Remove	Not viable to be retained due to encroachment by the proposed works.
102.	Callistemon viminalis	Remove	Not viable to be retained due to encroachment by the proposed works.
103.	Callistemon viminalis	Retain	
104.	Callistemon viminalis	Retain	
105.	Sapium sebiferum	Retain	

#### 8.0 Pre-Construction Tree Protection Measures

#### 8.1 General

All tree protection works shall be carried out before excavation, grading and site works commence. Tree protection works shall be inspected and approved by a Consulting Arborist meeting AQF Level 5 prior to construction works commencing in accordance with 5.4 of AS4970-2009 Protection of Trees on Development Sites.

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

#### 8.2 Identification

All trees that are designated to be retained and protected shall be clearly identified and all TPZs surveyed.

#### 8.3 Protective Fence

Tree protection fencing is to be erected to protect Trees 1, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 20. This fencing is to be erected prior to any materials being brought on site or before any site, civil works or construction works commence. The fence shall enclose a sufficient area so as to prevent damage to the TPZ as defined on Appendix D Tree Protection Plan and as defined in 5.1 above. Fence to comprise 1800mm high chain wire mesh fixed to 50mm diameter Galvanised steel posts. Panels should be securely fixed top and bottom to avoid separation. No storage of building materials, tools, paint, fuel or contaminants and the like shall occur within the fenced area.

It is not practical to install fencing to all trees along the alignment as the majority of the trees are street trees.

#### 9.0 Site Management Issues

#### 9.1 Soil Compaction

Plant and pedestrian traffic during the construction period has the potential to cause soil compaction. Compaction of the soil within the TPZ will reduce the voids between soil peds or particles therefore will reduce the gaseous exchange capacity of the root

system and water percolation. No pedestrian or plant access is permissible to the TPZ. This is particularly critical around trees 1 - 20. No work is to be carried out within the TPZ during wet weather or when soil is wet.

#### 9.2 Site Access

Sufficient access is required to enable efficient construction. It is essential to delineate access zones or corridors which will provide suitable access without damaging the existing trees to be retained or causing compaction to the root zone. All construction traffic, both vehicular and pedestrian will be diverted outside of the Tree Protection Zones by Tree Protection Fencing to the trees defined in 8.3.

#### 9.3 Excavation within Tree Protection Area

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

#### 9.4 Possible Contamination / Storage of Materials

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

#### 10.0 Tree Protection Measures During Construction

#### 10.1 Possible Contaminants

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

#### 10.2 Physical Damage

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

#### 10.3 Compaction

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

#### 10.5 Trenching

Trenching is necessary within the TPZs of trees as defined in 6.1. All trenching works within TPZ's is to be carried out under the supervision of the AQF Level 5 qualified Site Arborist.

#### 10.6 Site Sheds / Amenities/ Storage

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

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

#### 11.0 References

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

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

#### 12.0 Disclaimer

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

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

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

#### Appendix A Landscape Significance

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

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

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

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

#### **Tree Significance - Assessment Criteria**

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#### 1. High Significance in landscape

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

#### 2. Medium Significance in landscape

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

#### 3. Low Significance in landscape

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

#### **Environmental Pest / Noxious Weed Species**

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

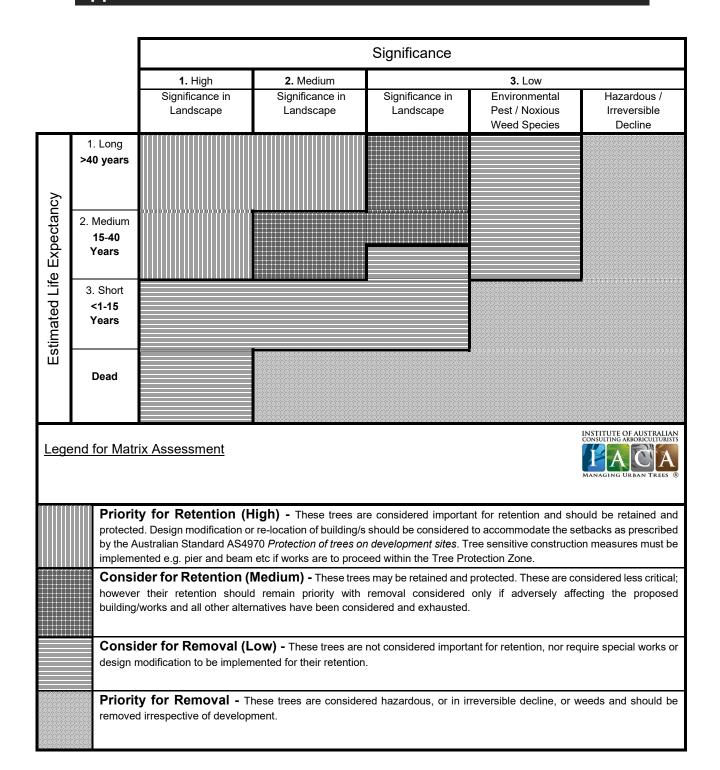
#### **Hazardous/Irreversible Decline**

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

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

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

#### **Appendix B** Tree Retention Values



#### **REFERENCES**

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

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

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

Appendix C - Tree Inspection Data

Consulting Arborist• Project Management • Horticultural Consultancy • Landscape Management

Inspection Data 10-Jan-20

Cam	nsie		

Campsie	2																											_
							Trunk																					
							(single,																			Env. &		
					TPZ		twin,											Overall					Pest		Life	Landcape		
		Sp	pread(m DB	BH	Radius		multiple	Trunk	Form/Cro	Branching	Crown	Distortion		Branching	Pruning			Health &	Canopy		Deadwoo	Epicormic	Infestatio		expectano	significan	Retention	
Tree no	Species	Height (m)	(m	ım)	(m)	Maturity	@)	lean	wn shape	Habit	Distribution	Due	Stability	Structure	History	Defects	Damage	Vigour	Density	Foliage	d	Growth	n	Disease	у	ce	Value	Notes/Comments
	Corymbia														No								No	No				
	maculata	23	13	550	6.6	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	High	High	
	Banksia						- ŭ								No								No	No				
	integrifolia	11	5	250	3	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Syzygium						- ŭ								No								No	No				
	paniculatum	6	3	120	2	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40v	Medium	Medium	
	Banksia						- ŭ								No								No	No				
4	integrifolia	9	4	240	2.88	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Banksia														No								No	No				
į	integrifolia	9	6	240	2.88	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Banksia						Ŭ								No								No	No				
	integrifolia	7	4	220	2.64	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Banksia														No								No	No				
	integrifolia	8	5	280	3.36	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
								1				İ			No	İ	İ	İ	İ		İ		No	No	· ·	İ		
8	Casuarina spp	18	8	455	5.46	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
				İ											No								No	No				
9	Casuarina spp	19	13	615	7.38	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Eucalyptus														No								No	No				
10	grandis	29	21	1255	15.06	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	High	High	
	Eucalyptus			İ											No								No	No				
1:	saligna	18	8	380	4.56	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
																	Damage											
																	to											
	Eucalyptus														No	Evidence	cambium							No				Damage to cambium to
13	saligna	14	6	310	3.72	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	of decay	, Wound	Fair	Normal	Normal	<5%	<5%	Borers	evidence	5-15y	Medium	Medium	approximately 75% of trunk. Remove
	Eucalyptus														No								No	No				
13	saligna	16	4	240	2.88	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
															No								No	No				
14	Casuarina spp	11	6	255	3.06	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
							Multiple																					
	Tristaniopsis						(3) @								No								No	No				
1!	laurina	5	4	300	3.6	Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Syncarpia														No								No	No				
16	glomulifera	8	5	310	3.72	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	40y+	High	High	
	Syncarpia														No								No	No				
1	glomulifera	5	2	130	2	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Syncarpia										1				No								No	No				
18	glomulifera	8	4	270	3.24	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Eucalyptus										1				No								No	No				
19	robusta	28	18	1035	12.42	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	High	High	
	Eucalyptus														No								No	No				
20	robusta	28	15	915	10.98	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	High	High	
															Topped,													
	Callistemon						Multiple				1.			L	Line	l	l							No		1 .		
2:	viminalis	5	4	48	2	Mature	@ base	NIL	Normal	Normal	Balanced		Stable	Stable	clearance	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Melaleuca						Twin @				1				No								No	No				
			61	450	5.4	Mature	1500	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
22	salicina	10	٠	450	5.4				<del> </del>		1																	
	Elaeocarpus	10	- 0			Semi-									No			<u>.</u> .					No	No		L		
	Elaeocarpus reticulatis	4	1	50		Semi- mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%		evidence	No evidence	40y+	Medium	Medium	
2:	Elaeocarpus	4	1		2	Semi- mature Semi-		NIL NIL			Balanced Balanced			Stable Stable	1			Good		Normal Normal			evidence No	No			Medium Medium	

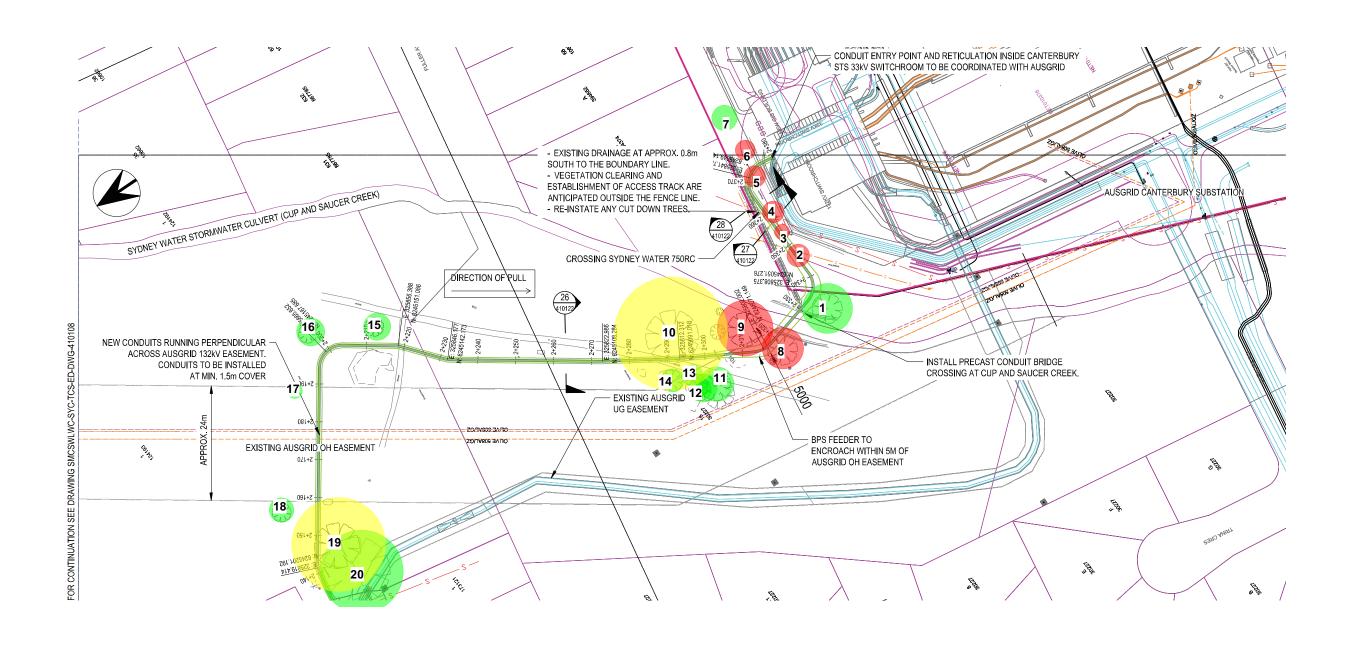
						Trunk																					
						(single,																			Env. &		
				TPZ		twin,											Overall					Pest		Life	Landcape		
		Spread(m	DBH	Radius	5	multiple	Trunk	Form/Cro	Branching	Crown	Distortion		Branching	Pruning			Health &	Canopy		Deadwoo	Epicormic	Infestatio		expectanc	significan	Retention	
Tree no. Species	Height (m)	)	(mm)	(m)	Maturity	@)	lean	wn shape	Habit	Distribution	Due	Stability	Structure	History	Defects	Damage	Vigour	Density	Foliage	d	Growth	n	Disease	у	ce	Value	Notes/Comments
Elaeocarpus														No								No	No				
25 reticulatis	3	1	100		2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1	evidence	40v+	Medium	Medium	
Callistemon	1		100	1	Ziviatarc	Jiligic	INIL	IVOITIIGI	IVOITIIdi	Dalaricca		Stabic	Stable	No	IVIII	14	0000	IVOITIIdi	IVOITIIdi	1370	1370	No	No	40y1	IVICUIUIII	iviculum	
26 viminalis	.	4	205		2.46 Mature	Singlo	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Niil	Nil	Good	Normal	Normal	<5%	<5%	· .	evidence	15 404	Medium	Medium	
Callistemon	3	4	203	, ,	2.40 Iviature	Single	INIL	NOTITIAL	INUITITAL	balaticeu		Stable	Stable	-	INII	INII	Good	INUITITAL	INUITITAL	N370	N370		No	13-40y	Mediuiii	Mediuiii	
			F20			Twin @	ļ			B. I I		CL-1-1	CL-1-1-	No	N.::1			N	N	.50/	.50/	No	INO	45.40		NA . dt	
27 viminalis	Ь	ь	520	,	6.24 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	INII	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	iviedium	
Callistemon		ا	200		4.56.84.1	Twin @	ļ			B. I I		CL-1-1	CL-1-1-	No	N.::1			N	N	.50/	.50/	No	NO	45.40		NA . dt	
28 viminalis	ь	4	380	) 4	4.56 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	NII	Nil	Good	Normal	Normal	<5%	<5%	evidence		15-40y	Medium	ivieaium	
Callistemon						L	l	l	l	L				No		l	L .	l	l			No	No	l			
29 viminalis	4.5	3	220	) 2	2.64 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
Callistemon				.]			l	L	<u>.</u> .	<u> </u>		s		No		ļ		l	L			No	No				
30 viminalis	2	2	90	ار	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
Stenocarpus					_[	I				1.		l	l	No	1	1				l .		No	No				
31 sinuatus	4	2	110	7	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
Callistemon														No								No	No				
32 viminalis	4.5	3	275	5	3.3 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
														No								No	No				
33 Olea europaea	4.5	3	300	P	3.6 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon														No								No	No				
34 viminalis	4	3	300	ס	3.6 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon						Multiple								No								No	No				
35 viminalis	4	3	355	5 4	4.26 Mature	@ base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
						Multiple								No													
Callistemon						(3) @								evidence,								No	No				
36 viminalis	6	7	600	o	7.2 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	Topped	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon														No								No	No				
37 viminalis	4	3	380	) 4	4.56 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon						Twin @							İ	No								No	No				
38 viminalis	4	3	430	) !	5.16 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon													İ	No								No	No				
39 viminalis	5	3	485	5 5	5.82 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon														No								No	No				
40 viminalis	5	4	315	5 3	3.78 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon				1		† - T	1		1		1	1		No	1	1	1	1	1		1	No	No				
41 viminalis	7	3	240	ol 2	2.88 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40v	Medium	Medium	
Callistemon	1					† <u> </u>								No		1		<u> </u>				No	No				
42 viminalis	9	6	240	ol :	2.88 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	_	evidence	15-40v	Medium	Medium	
Callistemon	1 1	Ť		1	1	1 3.5				1		1		No			1		1			No	No	,			
43 viminalis	8	6	380	ا ا	4.56 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1	evidence	15-40v	Medium	Medium	
Callistemon	<del>                                     </del>	Ĭ	550			Twin @	1	1	1					No	1	† · · ·	1	1	1.2		1	No	No	,			
44 viminalis	7	5	435	5 6	5.22 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1 -	evidence	15-40v	Medium	Medium	
Callistemon	<del>                                     </del>		.00	<del>                                     </del>		1	† ··-		1					No	† ·	† · ·	1	1	1	1	1	Na	No	,			
45 viminalis	7	6	490	، ار	5.88 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1		15-40v	Medium	Medium	
.5	<del>                                     </del>		-130	<del>'</del>	2.30	Multiple	+		1		+	3.00.10		- COLUCTION	+	†	1	1		1.0,0	-5,0	2		-5 .5,	cululli	cululli	
Callistemon						(3) @								No								No	No				
46 viminalis		6	475		5.7 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	l -	15-40v	Medium	Medium	
Melaleuca		0	4/3	1	J./ Iviature	Susc	IVIL	AGIIII	INOTITIAL	Dalariceu	+	JUDIC	Junic	No	1.4	1.4	3000	INOTITIAL	Normal	-3/0	13/0	No	No	13 70y	ivicululli	Miculuiii	
47 bracteata		2	115	<u>.</u>	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1	evidence	15-40v	Medium	Medium	
47 bracteata	"	3	113	⁴—	Ziviature	Multiple	INIL	NUITII	INUITIGI	Dalaticeu	+	JLabie	Stanie	evidence	(NIII	INII	3000	INOTITIAL	Normal	\J/0	\J/0	evidence	CVIUEIICE	13-40y	ivicululli	MEGILIII	
Callistemon						(3) @								No								No	No				
48 viminalis	10	٥	765	، ا	9.18 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence		15-404	Medium	Medium	
40 VIIIIIIIIII	10	8	/05	1 :	2.10 INIGIUIE	กลระ	INIL	NOIIIIdi	INUITIM	Dalaticeu	1	Stable	Stable	eviderice	INII	INII	doou	INUITII	NUITII	N3/0	N3/0	evidence	evidence	13-40y	ivieululli	ivieululli	

·																												
							Trunk																					
					TD7		(single,																D			Env. &		
			Spread(m	DRU	TPZ Radius		twin,	Trunk	Form/Cro	Dranching	Crown	Distortion		Branching	Druning			Overall Health &	Canany		Deadwoo	Enicormic	Pest		Life	Landcape	Dotontion	
Tree no	Spacies	Height (m)	Spreau(iii	(mm)	(m)	Maturity	1	Trunk lean	wn shape	Branching		Distortion Due	Stability	Branching Structure	Pruning History	Defects	Damage		Canopy Density	Foliage		Growth	n	Disease	expectant	significan		Notes/Comments
Tree no.		rieight (iii)	1	(111111)	(111)	iviaturity	@)	icaii	wii siiape	Habit	Distribution	Due	Stability	Structure	-	Defects	Dailiage	Vigour	Delisity	Tollage	u	Growth	Na		У	ce	value	Notes/ Comments
40	Tristaniopsis Iaurina	_	,	200	,	4 Mature	Singlo	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	No evidence	15-40v	Medium	Medium	ı
	Callistemon	3	3	200	2.	4 Iviature	Single Twin @	INIL	INOTITIAL	INOTITIAL	Balanceu		Stable	Stable	No	INII	INII	Good	Normal	INOTITIAL	<3%	<3%	No	No	15-40y	ivieulum	iviedium	<del></del>
	viminalis	10	7	280	3 3	6 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1	evidence	15-40y	Medium	Medium	ı
-	Callistemon	10	<del>`</del>	200	3.3	o iviatare	Twin @	1412	Itorriiai	Itomiai	Dalaricca		Stubic	Stubic	No		14	0000	Ivorrinar	Itorrilai	1370	1370	No	No	15 409	Wicalam	Micaiaiii	
	viminalis	5	4	190	2.2	8 Mature	base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40v	Medium	Medium	ı
	Callistemon														No								No	No	,			
52	viminalis	8	3	245	2.9	4 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	ı
	Callistemon														No								No	No				
53	viminalis	8	6	324	3.88	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
							L		l .		l			l	No	l		l	Ι.				No	No				
	Olea europaea	3	1	. 50	1 -	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Corymbia	_	_	350	] .	1,4-4	Cim all	<b></b>	Name -	Name -	Delener d		Chable	Ctable	No	l NIII	NI:I	Cara	News	Name -	450/	4E0/	No	NO	15.40	Nand'	Mand: ··	
55	ficifolia	5	5	350	4	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
56	Fraxinus griffithii	6		255	3 0	6 Mature	Multiple @ base	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	evidence	15-40v	Medium	Medium	
-	Callistemon	+ - 0	, ,	233	3.0	IVIALUIE	Multiple	I.VIL	Nonniai	Nominal	Dalariceu		Stabic	Junic	No	1.4.11	1411	3000	INGITIAL	Normal	-370	-370	No	No	13 70y	ivicululli	ivicululli	
	viminalis	8	6	445	5.3	4 Mature	@ base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40v	Medium	Medium	
	Tristaniopsis		-			1	C								No				1				No	No				
58	laurina	2	. 2	105		2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	ı
	Tristaniopsis														No								No	No				
59	laurina	9	6	415	4.9	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Fraxinus														No								No	No				ı
60	griffithii	6	6	215	2.5	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Jacaranda						l								No				l .				No	No				ı
61	mimosifolia	8	7	400	4.	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
63	Jacaranda mimosifolia	10		545	6.5	4 Matura	Cinalo	NIII.	Normal	Normal	Dalancod		Stable	Ctable	No	NI:I	NI:I	Cood	Normal	Normal	-E0/	~E0/	No	NO ovidones	15 40.	Madium	Madium	ı
02	Tristaniopsis	10	•	343	0.5	4 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence No	INII	Nil	Good	Normal	Normal	<5%	<5%	evidence No	evidence	15-40y	Medium	Medium	<del></del>
63	laurina	٩	5	430	5.1	6 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
03	Lophostemon	1	1	7 730	3.1	oliviatare	Jiligic	IVIL	Ivormai	Ivormai	Dalariceu		Stabic	Stable	No	I VIII	1411	Good	Ivoimai	IVOITII	1370	1370	No	No	13 40y	Wicalaili	Micalaini	
64	confertus	10	7	335	4.0	2 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Lophostemon						1	1							No	i			1				No	No	<i>'</i>			
65	confertus	8	7	240	2.8	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Lophostemon														No								No	No				
66	confertus	8	5	240	2.8	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable		Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Lophostemon							<b> </b>		L	<u>.</u>		s		No	ļ			L			50/	No	No				
67	confertus	7	5	280	3.3	6 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Callistamar						Multiple								No								No	No				
	Callistemon viminalis		ے	465	5 5	8 Mature	(3) @ base	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	evidence	15-404	Medium	Medium	
08	viillialis	•	-	403	3.3	iviature	Multiple	INIL	NUITII	NUITIAI	Dalaticeu		Stable	Stanic	cviuence	1411	1411	3000	ivoiillai	NUITIAI	\J/0	\J/0	cvidence	evidence	13-40y	ivicululli	IVICUIUIII	
	Callistemon						(3) @								No								No	No				
	viminalis	9	7	420	5.0	4 Mature	1	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40v	Medium	Medium	
	Callistemon						Multiple	1							No	İ							No	No	-,		-	
70	viminalis	8	6	410	4.9	2 Mature	(3) @ 400	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
	Tristaniopsis														No								No	No				
71	laurina	9	6	400	4.3	8 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
	Callistemon							ļ			<u>.</u>		s	6	No				L			50/	No	No				
72	viminalis	7	5	275	3.	3 Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	<u>,</u>

	1				1	Trunk											1				1						
						(single,																			Env. &		
			TF	PZ		twin,											Overall					Pest		Life	Landcape		
		Spread(m DB		adius			Trunk	Form/Cro	_		Distortion		_	Pruning	- ·		Health &	1 ''	- "		Epicormic			expectan	significan		
Tree no. Species	Height (m)	) (m	im) (n	n)	Maturity	@)	lean	wn shape	Habit	Distribution	Due	Stability	Structure	-	Defects	Damage	Vigour	Density	Foliage	d	Growth		Disease	У	ce	Value	Notes/Comments
Tristaniopsis 73 laurina	5	3	115	2	Semi- mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1 - 1	No evidence	15-40v	Medium	Medium	
Callistemon														No				1		-		No	No	100,000			
74 viminalis	9	7	370	4.44	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon 75 viminalis	7	5	310	2 72	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	No evidence	15-40v	Medium	Medium	
Tristaniopsis	,	3	310	3.72	iviature	Siligie	INIL	NOTITIAL	NOTITIAL	balanceu		Stable	Stable	No	INII	INII	Good	NOTITIAL	INOTITIAL	<b>\</b> 3/0	<3/	No	No	13-40y	ivieuluiii	Medium	
76 laurina	8	6	340	4.08	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon			475			Multiple				D. I I		Ct - b l -	CL-1-1-	No	A 111		C I			.50/	-50/	No	No	45.40	NA . d'	NA . dt	
77 viminalis Callistemon	9	/	475	5.7	Mature	@ base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence No	NII	Nil	Good	Normal	Normal	<5%	<5%	evidence No	No	15-40y	Medium	Medium	
78 viminalis	6	6	340	4.08	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1 - 1	evidence	15-40y	Medium	Medium	
Callistemon														No								No	No				
79 viminalis	8	7	350	4.2	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Tristaniopsis 80 laurina	9	6	370	4.44	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	evidence	15-40v	Medium	Medium	
Callistemon														No				1		-		No	No	100,000			
81 viminalis	7	7	400	4.8	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon 82 viminalis	_	4	230	2.76	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	No	15-40v	Medium	Medium	
Lophostemon	3	4	230	2.70	iviature	Siligle	INIL	NOTITIAL	INOTITIAL	Dalaticeu		Stable	Stable	No	INII	INII	Good	INOTITIAL	NOTITIAL	<3/0		No	No	13-40y	ivieuluiii	Medium	
83 confertus	9	7	340	4.08	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Tristaniopsis														Line								No	No				
84 laurina Tristaniopsis	6	4	215	2.58	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	clearance	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence No	evidence	15-40y	Medium	Medium	
85 laurina	8	7	290	3.48	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%		evidence	15-40y	Medium	Medium	
Syncarpia														No								No	No				
86 glomulifera	9	6	310	3.72	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Fair	Thinning	Normal	15%	<5%	evidence	evidence	15-40y	Medium	Medium	
Syncarpia 87 glomulifera	٥	6	355	1 26	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	No evidence	15-40v	Medium	Medium	
Eucalyptus	,		333	4.20	Iviatare	Jiligic	IVIL	Normal	Normal	Dalaricca		Stabic	Stable	No	1411	14.11	Good	IVOITIIdi	Ivorritai	1370	1370	No	No	13 409	IVICUIUIII	iviculum	
88 nicholii	11	9	920	11.04	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Liquidambar					<b>.</b>	6. 1						S	s	No				ļ				No	No	1.5.40			
89 styraciflua Liquidambar	11	9	550	6.6	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence No	NII	Nil	Good	Normal	Normal	<5%	<5%	evidence No	No	15-40y	Medium	Medium	
90 styraciflua	10	8	460	5.52	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable		Nil	Nil	Good	Normal	Normal	<5%	<5%	'	evidence	15-40y	Medium	Medium	
Liquidambar														No								No	No				
91 styraciflua Liquidambar	9	8	450	5.4	Mature	Single	NIL	Normal	Normal	Balanced	-	Stable	Stable	evidence No	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence No	evidence	15-40y	Medium	Medium	
92 styraciflua	10	8	360	4.32	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	1 - 1	evidence	15-40v	Medium	Medium	
Liquidambar														No				1		-			No	100,000			
93 styraciflua	10	8	435	5.22	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Liquidambar 94 styraciflua	11	7	510	6 12	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	No	15-40v	Medium	Medium	
Platanus x	11	<del>                                     </del>	310	0.12	Matale	JIIIBIC	INIL	Homilai	. voi iiiai	Dalariceu	1	Stable	Junic	Line	. 411	1.4	3000	INOTITIO	TVOITIGI	-5/0	-3/0	No	No	13 40y	iviculuiii	Miculaini	
95 hybrida	16	10	535	6.42	Mature	Single	NIL	Normal	Normal	SE	Pruning	Stable	Stable	clearance	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	High	High	
06/11/11 15 15 15		_ [_	24-	2 = 0		Cim - I -	ļ	Nac ·····	Nav	Delegand		Chalili	Carle!	No	NII	NIII	C	N	Na	4504	-E0/	No	No	15 40	NA11	N41-	
96 Ulmus parvifolia	12	11	315	3.78	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence No	NII	Nil	Good	Normal	Normal	<5%	<5%	evidence No	evidence	15-40y	Medium	iviedium	
97 Ulmus parvifolia	11	10	360	4.32	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
						Multiple								No								No	No				
98 Ficus rubiginosa	14	13	800	9.6	Mature	@ base	NIL	Normal	Normal	Balanced	-	Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon 99 viminalis	7	7	455	5.46	Mature	Multiple @ base	NIL	Normal	Normal	Balanced		Stable	Stable	No evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	No evidence	evidence	15-40v	Medium	Medium	
Callistemon	, 	<del>                                     </del>	.55	3.40		Multiple	1							No		ļ						No	No				
100 viminalis	7	5	560	6.72	Mature	@ base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon	_		220	2.00	Mature	Cinala	NIII	Normal	Normal	Palancod		Ctable	Ctable	No	Niil	Niil	Cood	Norm-!	Normal	~E0/	∠E0/	No	No	15 40.	Madi	Modium	
101 viminalis  Callistemon	/	р	330	3.96	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence No	IVIII	Nil	Good	Normal	Normal	<5%	<5%	evidence No	No	13-40y	Medium	ivieulum	
102 viminalis	7	7	370	4.44	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	
Callistemon						Multiple								No								No	No				
103 viminalis  Callistemon	7	7	400	4.8	Mature		NIL	Normal	Normal	Balanced	-	Stable	Stable	evidence No	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence No	evidence	15-40y	Medium	Medium	
104 viminalis	7	7	400	4.8	Mature	Multiple @ base	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40v	Medium	Medium	
Sapium	<u> </u>	<del>                                     </del>	- 100	0		2 2300								No	***		1					No	No	,			
105 sebiferum	16	9	905	10.86	Mature	Single	NIL	Normal	Normal	Balanced		Stable	Stable	evidence	Nil	Nil	Good	Normal	Normal	<5%	<5%	evidence	evidence	15-40y	Medium	Medium	

### Appendix D Tree Location Plans

Tree Protection Plans



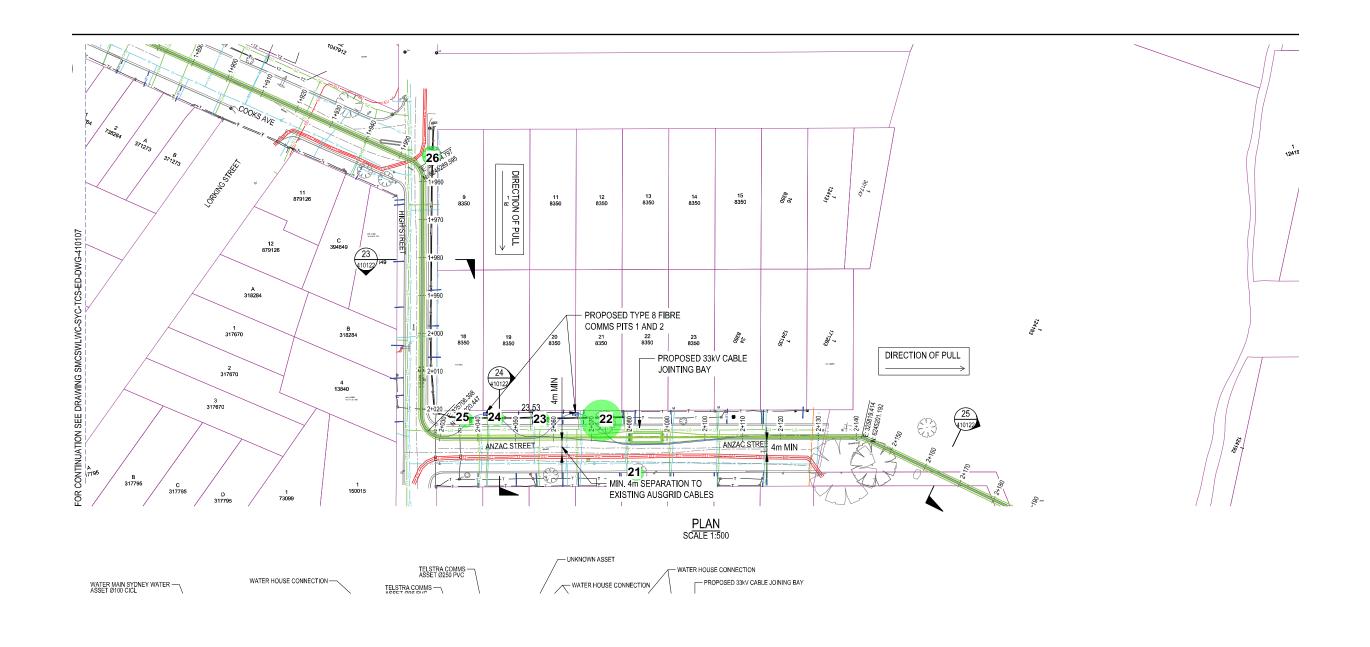


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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A01 REV E

Plan: Tree Location Plan 01





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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A02 REV E

Plan: Tree Location Plan 02



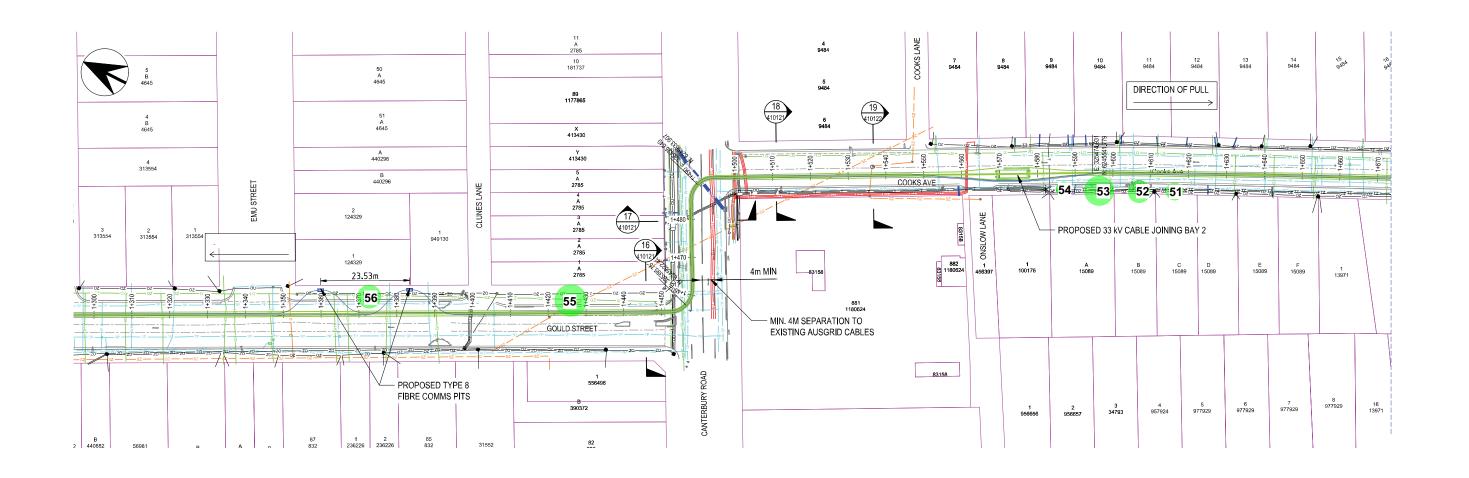


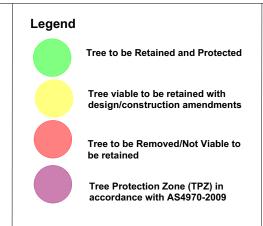
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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A03 REV E

Plan: Tree Location Plan 03



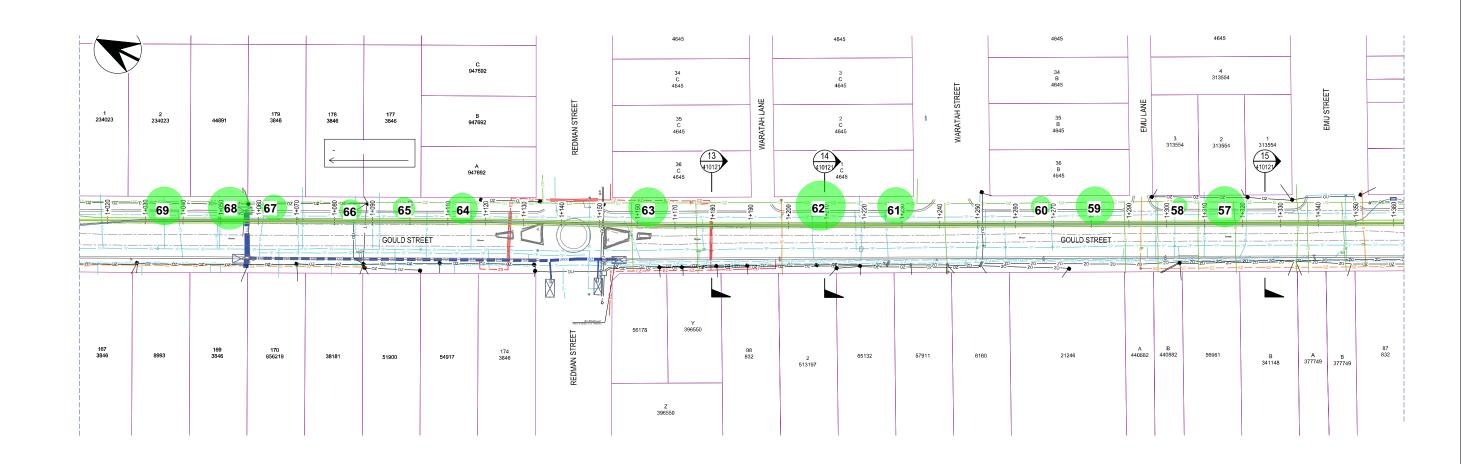


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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A04 REV E

Plan: Tree Location Plan 04



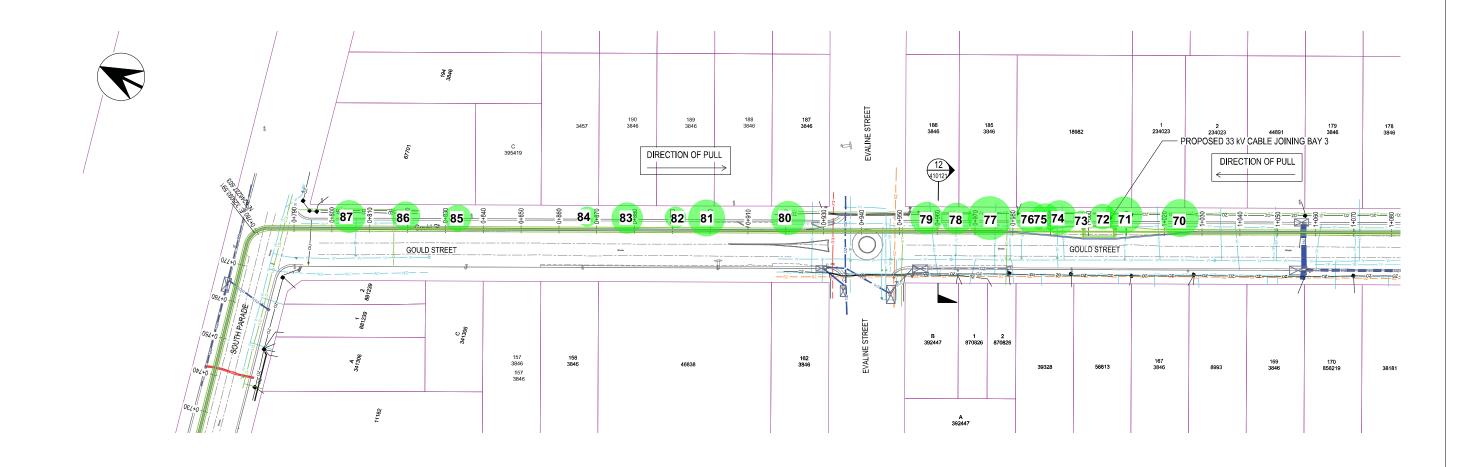


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A05 REV E

Plan: Tree Location Plan 05



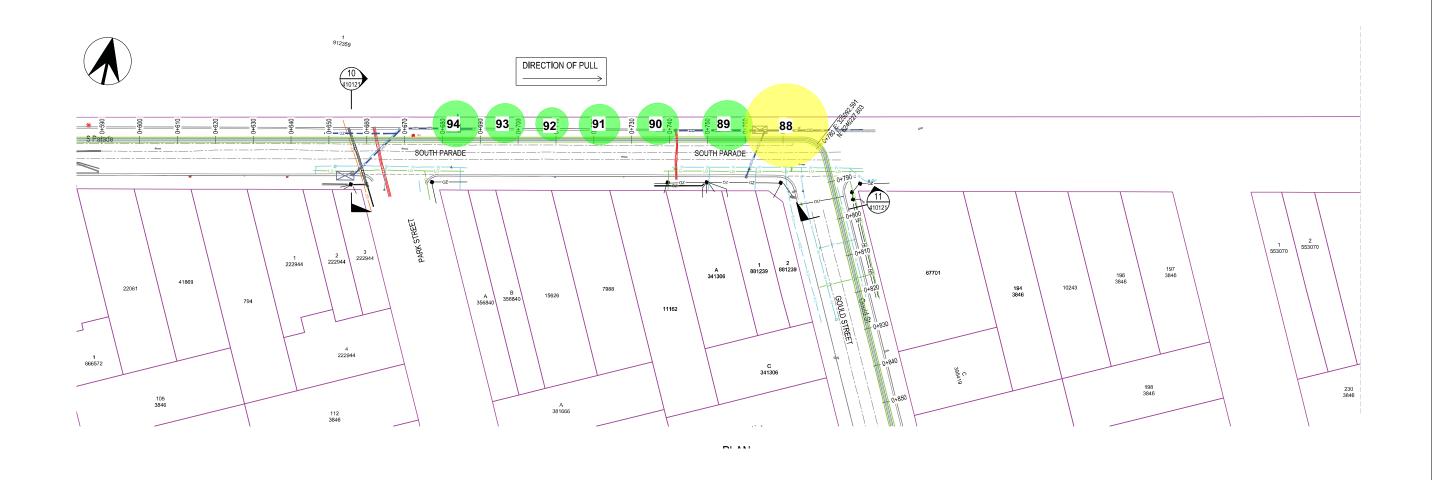


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A06 REV E

Plan: Tree Location Plan 06



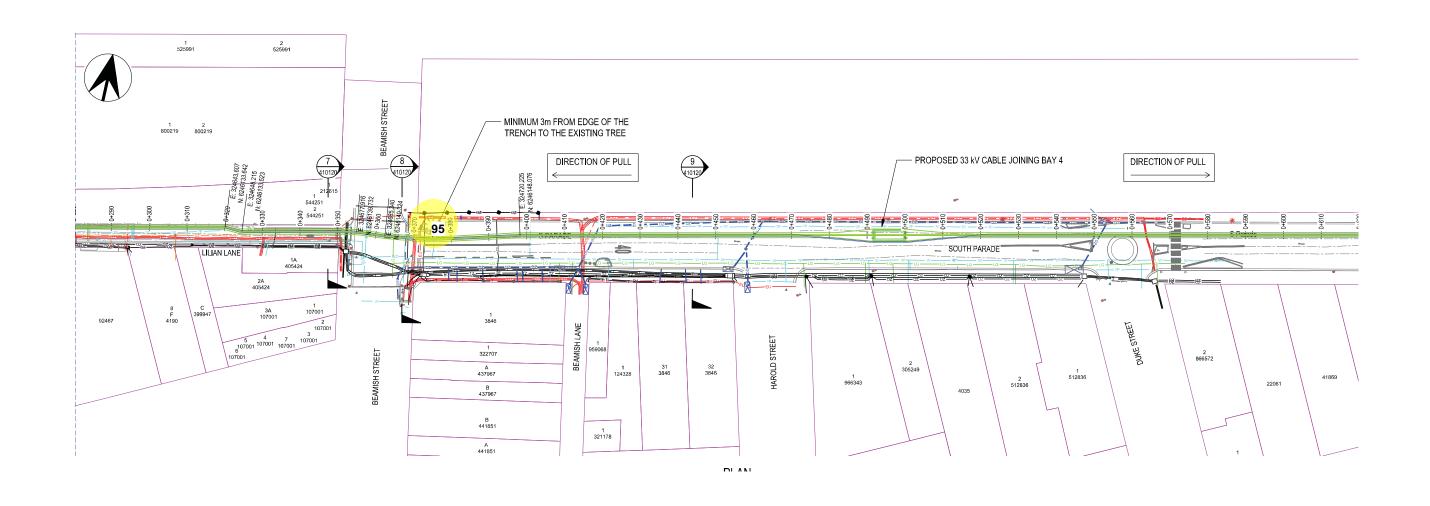


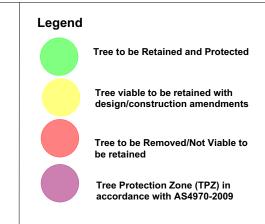
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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A07 REV E

Plan: Tree Location Plan 07



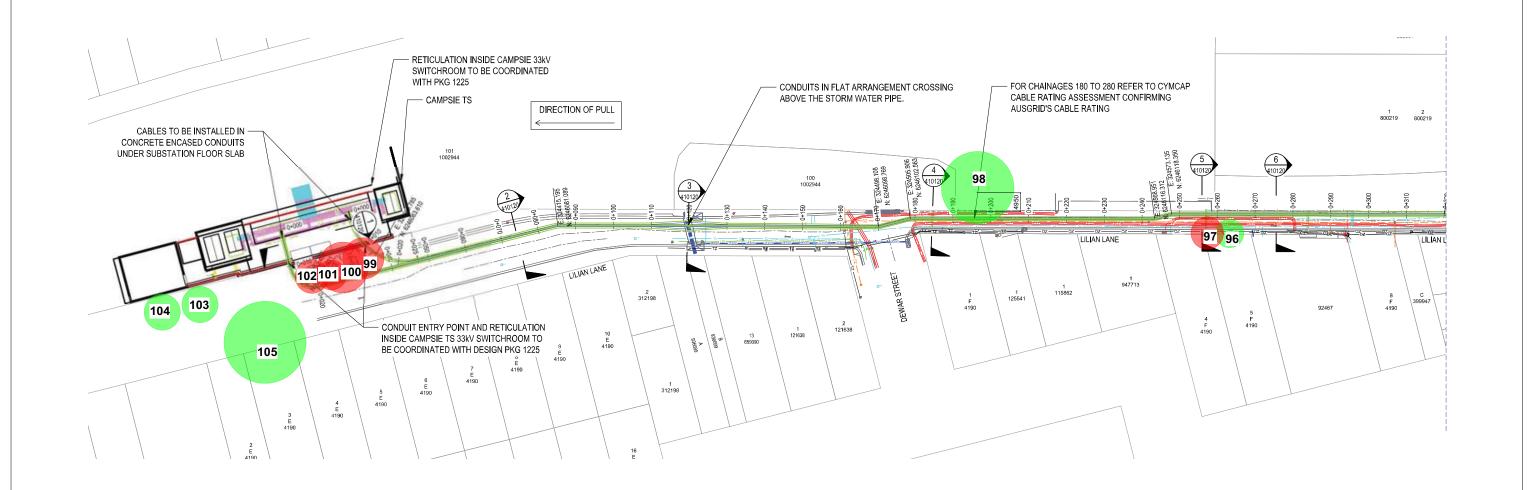


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A08 REV E

Plan: Tree Location Plan 08

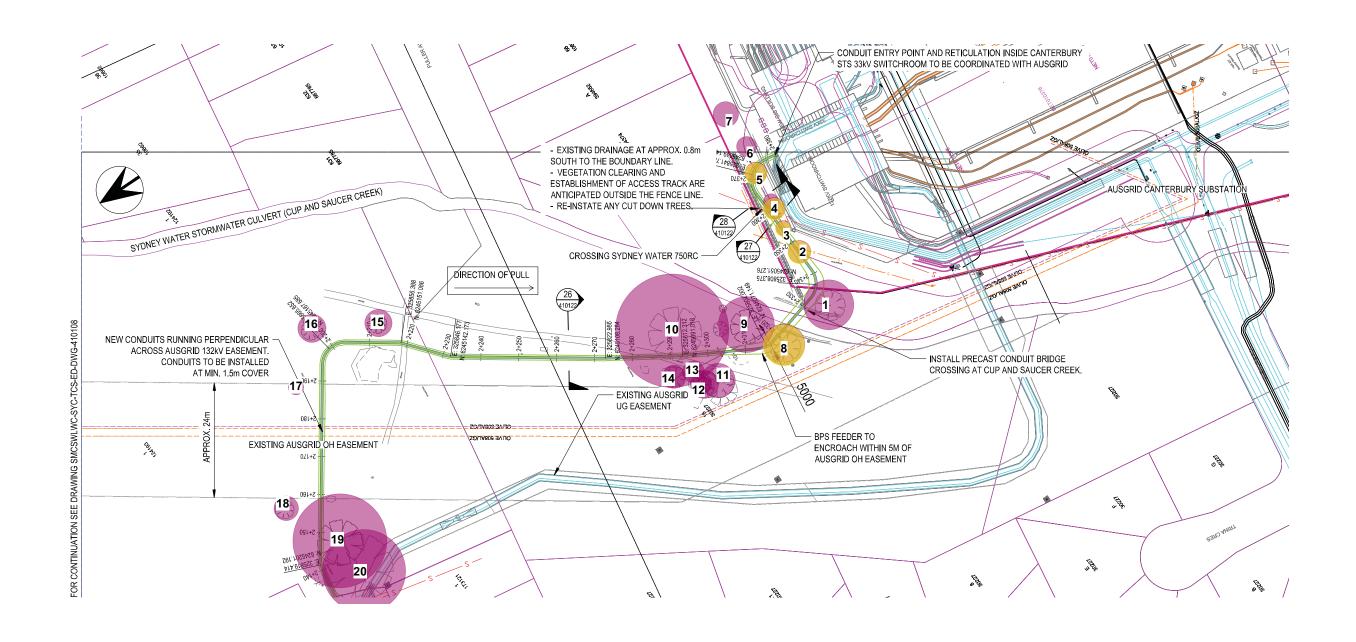




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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A09 REV E Plan: Tree Location Plan 09



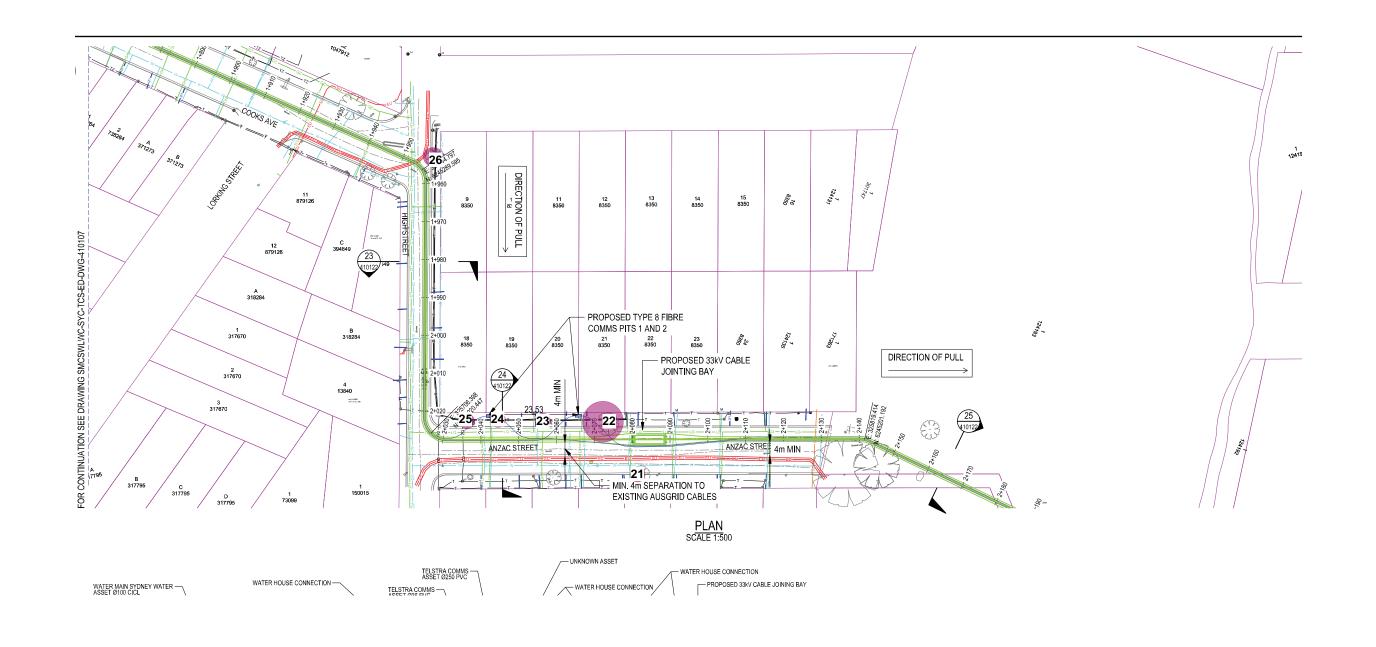


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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A10 REV E

Plan: Tree Protection Zone Plan 01





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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A11 REV E

Plan: Tree Protection Zone Plan 02 Date: 23 Mar 2022 Scale: 1:1000 @ A3



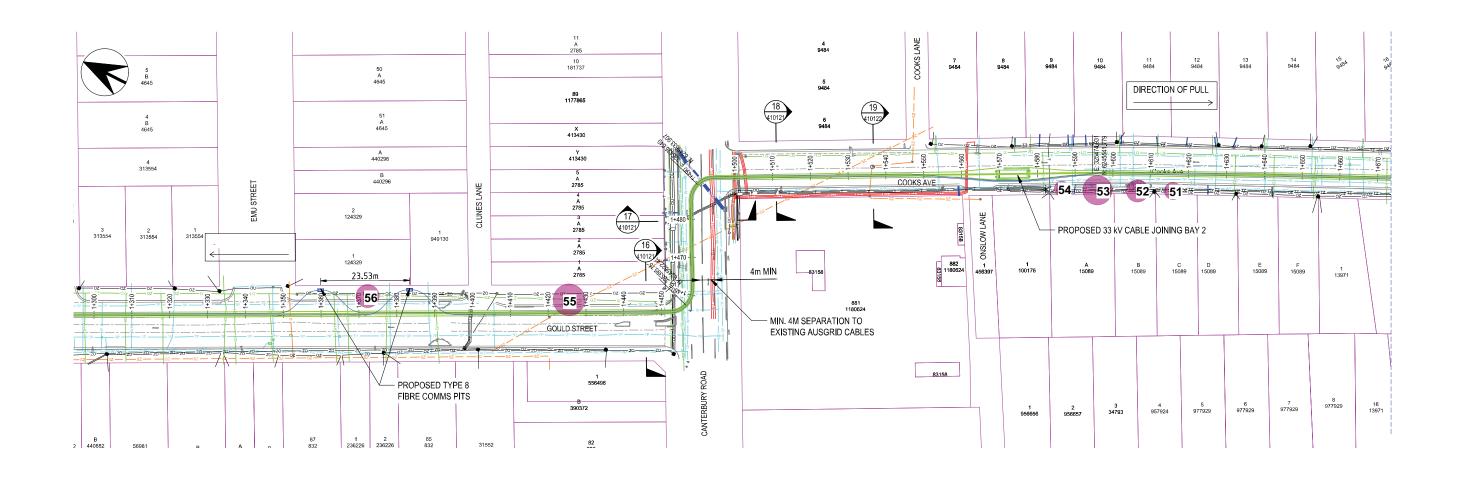


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A12 REV E

Plan: Tree Protection Zone Plan 03 Date: 23 Mar 2022 Scale: 1:1000 @ A3



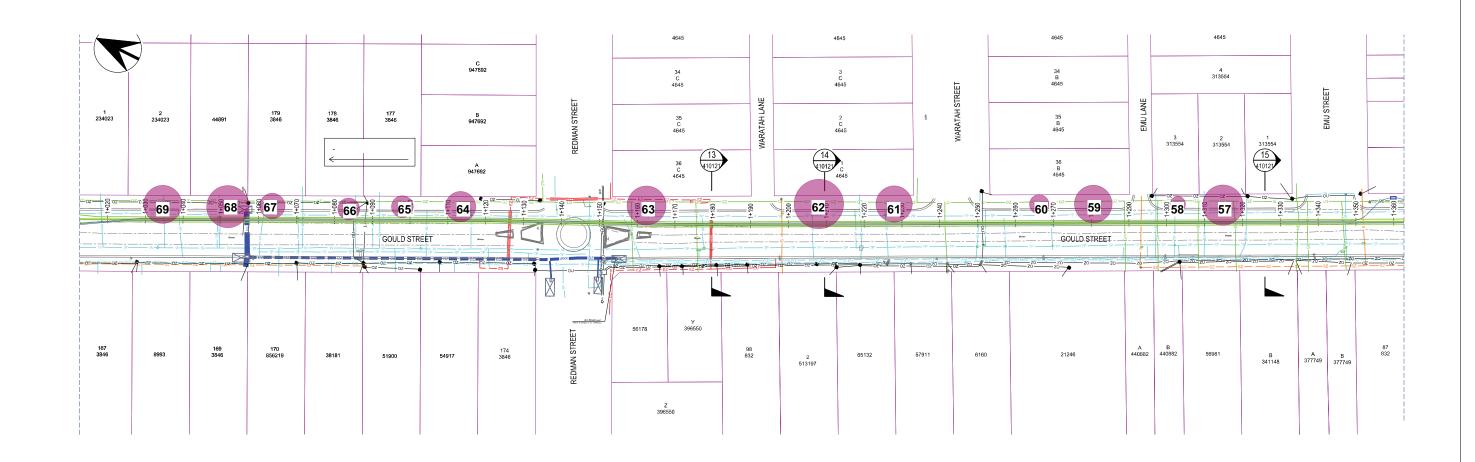


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Project: Campsie - Sydney Metro Line

Client: Systems Connect DWG: A13 REV E

Plan: Tree Protection Zone Plan 04 Date: 23 Mar 2022 Scale: 1:1000 @ A3



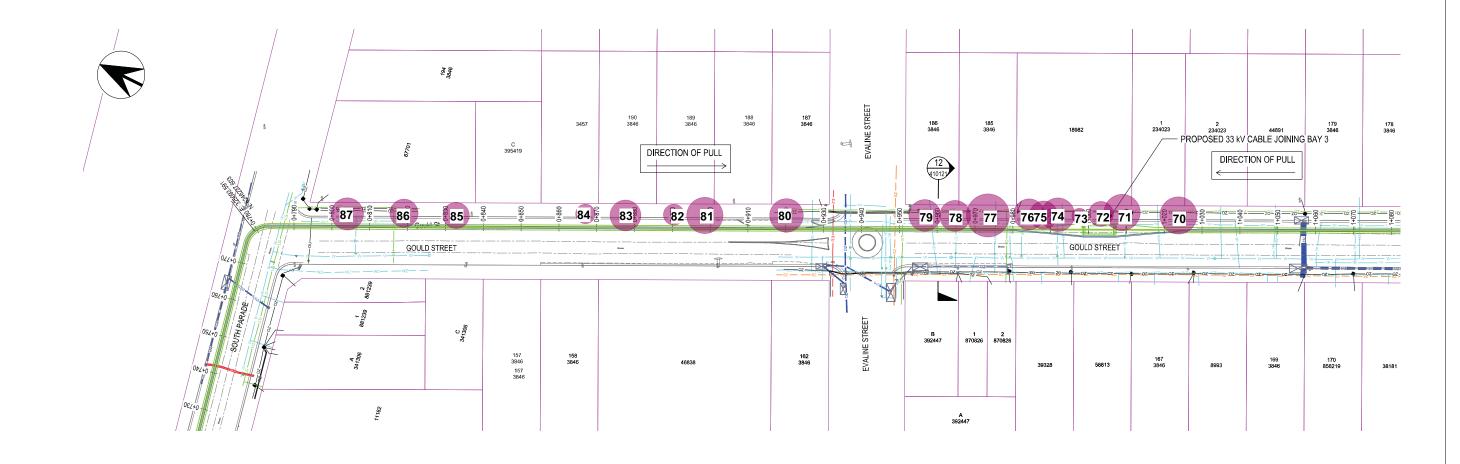


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A14 REV E

Plan: Tree Protection Zone Plan 05 Date: 23 Mar 2022 Scale: 1:1000 @ A3





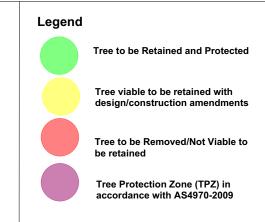
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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A15 REV E

Plan: Tree Protection Zone Plan 06



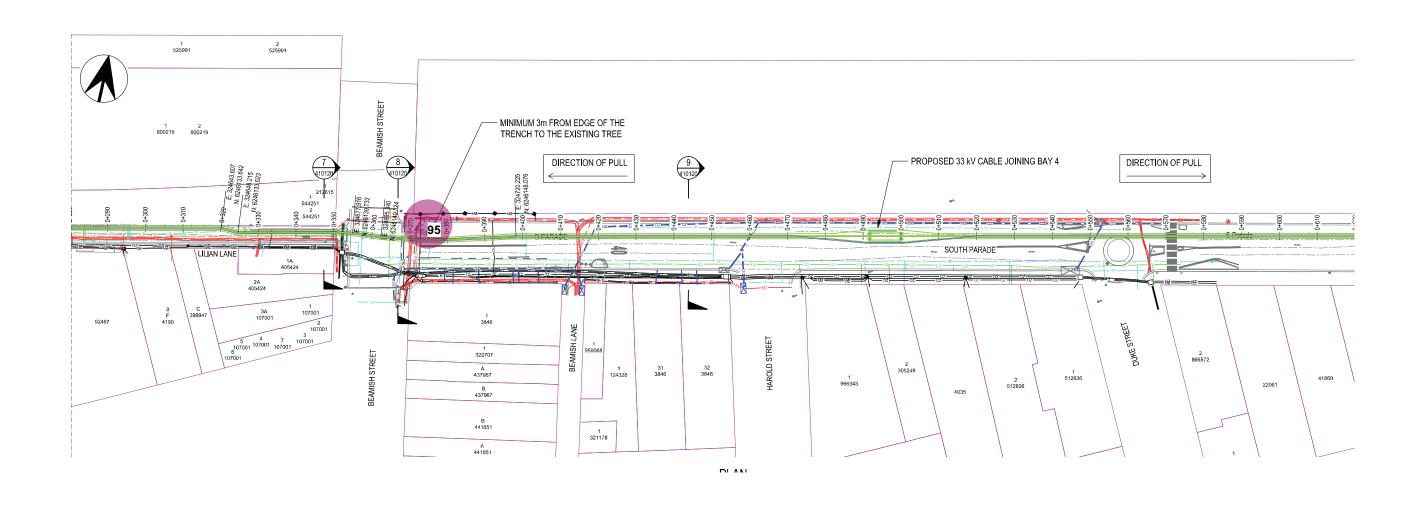


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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A16 REV E

Plan: Tree Protection Zone Plan 07 Date: 23 Mar 2022 Scale: 1:1000 @ A3



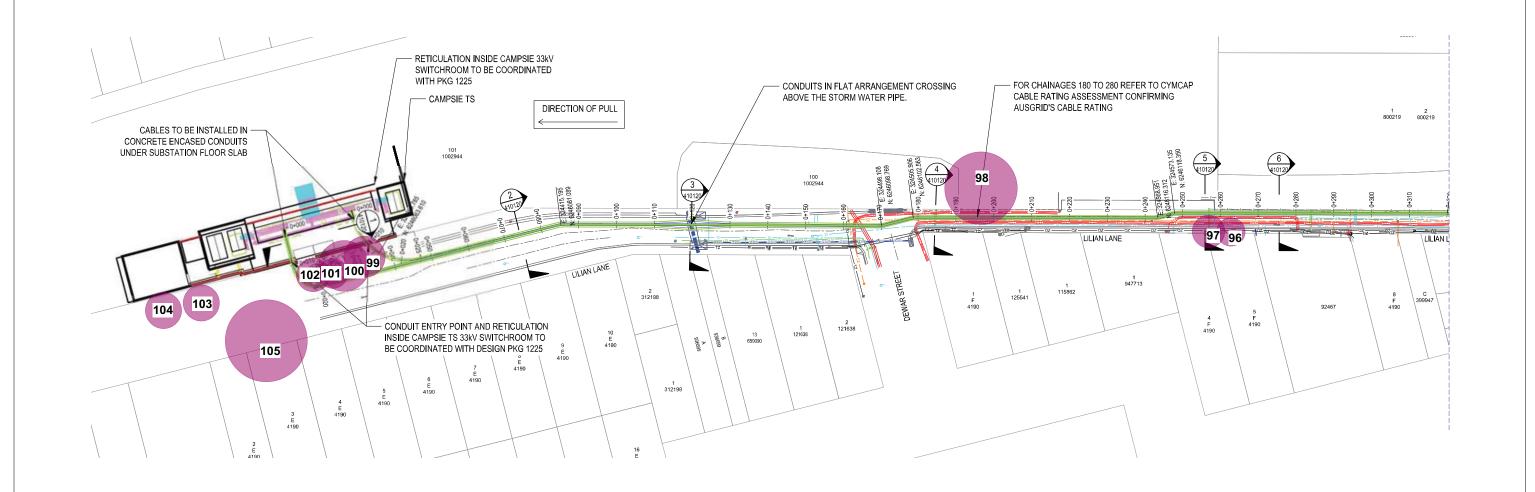


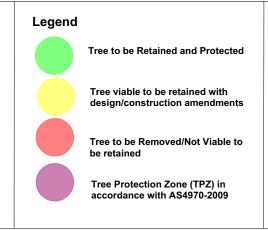
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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A17 REV E

Plan: Tree Protection Zone Plan 08 Date: 23 Mar 2022 Scale: 1:1000 @ A3





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Project: Campsie - Sydney Metro Line Client: Systems Connect

DWG: A18 REV E

Plan: Tree Protection Zone Plan 09 Date: 23 Mar 2022 Scale: 1:1000 @ A3