

# Arboricultural Tree Protection Management Report

Site location

**ADVERTISED**

**5 Seymour Street,  
Seville**

Prepared by

**Sherrin Bishop**  
Cert. Horticulture  
Adv. Cert. Arboriculture

The English Gardener  
ABN 80 902 938 963  
3 Kelly Crt  
Kinglake West, 3757  
Mobile: 0411 962 365

**Location:** 5 Seymour Street, Seville

**Report prepared by:** Sherrin Bishop  
Certificate in Horticulture  
Advanced Certificate in Arboriculture

**Report commissioned by:** James Nathan, Andrea Henderson, Simon O'Donnell

**Date:** 13<sup>th</sup> March 2023

### 1. Objectives:

To provide a tree protection management plan to Australian Standard AS4970 to recommended measures to be taken to ensure that the trees are maintained and protected appropriately during proposed works. The assessments have been based on the plans in this report. A project Arborist must be appointed to implement the tree management plan.

### 2. Background:

It is proposed that the proerpty is sub-divided and that 4 dwellings are constructed on the site. A tree protection management plans to Australian Standard AS4970 has been requested to recommended measures to be taken to protect any trees that are recommended to be retained during the proposed building works.

### 3. Procedure:

I inspected the site on the 1<sup>st</sup> August 2019 and the 2<sup>nd</sup> February 2023.  
The tree health and structure were assessed visually from the ground.  
Assessment was limited only to parts of the tree that were visible from ground level within the subject site.  
The height and canopy spread of the trees were estimated.  
A diameter tape was used to determine the trunk dimensions of the tree and rounded up to the nearest whole number. The trunk dimensions of neighbours trees were estimated due to site access restrictions.

4. Trees to be retained:

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
1	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	12	40	4.8	45	2.36	119	Semi-Mature	8yrs	Tree located in neighbour property	High	Good	Good	Tree is located in the neighbouring property. It is located 9.1m from the eastern boundary and 20m from the southern boundary. Proposed dwelling 4 will be 21m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
2	<i>Eucalyptus species</i> Eucalyptus	Native Aust	8	8	30	3.6	35	2.12	89	Mature	8yrs	Tree located in neighbour property	High	Good	Fair	Tree is located in the neighbouring property. It is located 4m from the eastern boundary and 1.6m from the southern boundary. Proposed dwelling 4 will be 33m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
3	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	6	72	8.64	70	2.84	214	Mature	8yrs	Tree located on nature strip of neighbour property	High	Good	Fair	Tree is located on the nature strip of the neighbouring property. It is located 2.5m from the eastern boundary and 5.8m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth in the canopy. Proposed dwelling 4 will be 37.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
4	<i>Eucalyptus species</i> Eucalyptus	Native Aust	11	6	60	7.2	60	2.66	178	Mature	8yrs	Tree located on nature strip of neighbour property	High	Fair	Fair	Tree is located on the nature strip of the neighbouring property. It is located 5.8m from the eastern boundary and 5.8m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth in the canopy. There is some dieback at the tips of the branches. Proposed dwelling 4 will be 40m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour/Health	Structure/Form	Comments	Arborists' recommendations	Permit required for tree removal pursuant SOL22
5	<i>Eucalyptus species</i> Eucalyptus	Native Aust	11	12	46	5.52	46	2.38	136	Dead	0yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip. It is located 8.3m from the eastern boundary and 0.3m from the southern boundary. Tree is bifurcated at 4m. Tree is located 13.7m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
6	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	14	40	4.8	40	2.24	118	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. It is located 9.1m from the eastern boundary and 0.8m from the southern boundary. Tree is bifurcated at 3m. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is located 13.5m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
7	<i>Leptospermum species</i> Tea tree	Native Aust	4	3	12	2	12	1.5	35	Mature	6yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip. It is located 8.3m from the eastern boundary and 0.6m from the southern boundary. Canopy of tree is lopsided due to it being crowded out by neighbouring trees. Tree is located 12.9m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
8	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	18	40	4.8	40	2.24	119	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. It is located 12.5m from the eastern boundary and 4.1m from the southern boundary. Tree is growing on a lean to the north. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is located 15.5m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
9	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	14	12	35	4.2	35	2.12	104	Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 13m from the eastern boundary and 0.4m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is located 12m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
10	<i>Pittosporum undulatum</i> Sweet pittosporum	Native Aust	3	3	10	2	10	1.5	29	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 13m from the eastern boundary and 0.6m from the southern boundary. Tree is located 12m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
11	<i>Photonia davidiana</i> Photonia	Exotic	3	3	10	2	10	1.5	29	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 16.6m from the eastern boundary and 3m from the southern boundary. Tree is located 12.5m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
12	<i>Acacia speciosa</i> Wattle Tree	Native Aust	5	8	30	3.6	30	1.99	89	Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 22.5m from the eastern boundary and 3m from the southern boundary. Tree is located 12.2m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
13	<i>Hakea speciosa</i> Hakea	Native Aust	4	4	16	2	16	1.5	47	Mature	8yrs	Tree located on mature strip	High	Good	Fair	Tree is located on the nature strip. It is located 25.8m from the eastern boundary and 3.3m from the southern boundary. Canopy of tree is lop-sided due to it being crowded out by neighbouring trees. Tree is located 13.3m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
14	<i>Pittosporum undulatum</i> Sweet Pittosporum	Native Aust	3	3	18	2	18	1.5	53	Semi-Mature	8yrs	Tree located on mature strip	High	Good	Good	Tree is located on the nature strip. It is located 28m from the eastern boundary and 5.8m from the southern boundary. Canopy of tree is lop-sided due to it being crowded out by neighbouring trees. Tree is located 14.4m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
15	<i>Cotoneaster fridigius</i> Cotoneaster	Exotic	4	4	18	2	18	1.5	53	Mature	8yrs	Tree located on mature strip	High	Fair	Poor	Tree is located on the nature strip. It is located 28.3m from the eastern boundary and 1.6m from the southern boundary. Tree consists of epicormic growth from an old stump. Tree is located 8.3m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
16	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	3	1	3	2	3	1.5	8	Young	8yrs	Tree located on mature strip	High	Good	Fair	Tree is located on the nature strip. It is located 33m from the eastern boundary and 2.5m from the southern boundary. Tree is located 7.9m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
17	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	16	65	7.8	60	2.66	194	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. It is located 36.6m from the eastern boundary and 3m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is located 9.1m from the existing dwelling and construction will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
18	<i>Pitiosporum undulatum</i> Sweet Pitiosporum	Native Aust	2	4	18	2	18	1.5	52	Semi-Mature	8yrs	Tree located on nature strip	High	Fair	Poor	Tree is located on the nature strip. It is located 39m from the eastern boundary and 4m from the southern boundary. Tree consists of epicormic growth from an old stump. Proposed driveway for existing dwelling will be 12.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
19	<i>Eucalyptus species</i> Eucalyptus	Native Aust	7	8	35	4.2	35	2.12	104	Senescent	1yrs	Tree located on nature strip	High	Fair	Poor	Tree is located on the nature strip. It is located 41.6m from the eastern boundary and 3.3m from the southern boundary. Tree is bifurcated at the base into 3 leaders. One leader is dead, one leader has failed structurally and one leader is living. There is decay in the trunk of the tree and a high risk of structural failure. Proposed driveway for existing dwelling will be 10m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
20	Unknown	Exotic	4	4	18	2	18	1.5	53	Dead	0yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip. It is located 50m from the eastern boundary and 1.6m from the southern boundary. Tree is dead. Proposed driveway for existing dwelling will be 8.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
21	<i>Eucalyptus species</i> Eucalyptus x 2 <i>Acacia species</i> Wattle Tree x 2	Native Aust	6	3	10	2	10	1.5	28	Semi-Mature	4yrs	Trees located on nature strip	High	Good	Poor	Trees are located on the nature strip. They are located 35m from the western boundary and 1.6m from the southern boundary. Trees consists of epicormic growth from an old stump. Proposed driveway for existing dwelling will be 10m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	4 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
22	<i>Eucalyptus species</i> Eucalyptus	Native Aust	5	8	20	2.4	20	1.66	58	Dead	0yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip. It is located 30m from the western boundary and 0.8m from the southern boundary. Tree is dead. Proposed retaining wall and dwelling 1 will be 7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
23	<i>Eucalyptus species</i> Eucalyptus x 4	Native Aust	10	8	34	4.08	34	2.09	100	Mature	8yrs	Trees located on nature strip	High	Good	Fair	Trees are located on the nature strip. They are located 27.5m from the western boundary and 5.8m from the southern boundary. 2 of the trees are bifurcated at the base. Proposed retaining wall and dwelling 1 will be 14.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	4 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
24	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	16	60	7.2	72	2.86	179	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. It is located 20.8m from the western boundary and 3.3m from the southern boundary. Tree is bifurcated at 10m. Proposed retaining wall and dwelling 1 will be 13.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A



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25	<i>Eucalyptus specioses</i> Eucalyptus x 2	Native Aust	9	5	25	3	25	1.8	74	Semi-Mature	8yrs	Trees located on nature strip	High	Fair	Fair	Trees are located on the nature strip. They are located 20m from the western boundary and 5m from the southern boundary. There is some deadwood and some epicormic growth in the canopies of the trees. Proposed retaining wall and dwelling 1 will be 12.1m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	4 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
26	<i>Eucalyptus specioses</i> Eucalyptus	Native Aust	8	5	18	2	18	1.5	52	Semi-Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip. It is located 14m from the western boundary and 5.8m from the southern boundary. Tree is bifurcated at 3m. There is die back at the tips of the branches. Proposed retaining wall and dwelling 1 will be 14.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
27	<i>Eucalyptus specioses</i> Eucalyptus	Native Aust	8	5	18	2	18	1.5	52	Semi-Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip. It is located 13m from the western boundary and 1.6m from the southern boundary. Tree is bifurcated at 0.5m. There is some deadwood and some epicormic growth in the canopy. There is decay in the trunk of the tree. Proposed retaining wall and dwelling 1 will be 9.9m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
28	<i>Pinus radiata</i> Monterey Pine	Exotic	18	8	32	3.84	33	2.07	94	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 11.6m from the western boundary and 5.8m from the southern boundary. Proposed retaining wall and dwelling 1 will be 7.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour/Health	Structure/Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
29	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	5	44	5.28	46	2.38	131	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. It is located 10m from the western boundary and 6.6m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth in the canopy. Proposed retaining wall and dwelling 1 will be 15.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
30	<i>Eucalyptus species</i> Eucalyptus	Native Aust	7	0.3	14	2	18	1.5	41	Dead	0yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip. It is located 9.1m from the western boundary and 5.8m from the southern boundary. Tree is dead. Proposed retaining wall and dwelling 1 will be 14.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
31	<i>Eucalyptus species</i> Eucalyptus	Native Aust	11	10	43	5.16	53	2.53	128	Senescent	1yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip. It is located 7.5m from the western boundary and 5.8m from the southern boundary. There is extensive die back at the tips of the branches and very little foliage in the canopy of this tree. The health of this tree is declining and it will not recover. Proposed retaining wall and dwelling 1 will be 13.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
32	<i>Allocasuarina species</i> She Oak	Native Aust	6	8	31	3.72	31	2	92	Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 5.8m from the western boundary and 3.3m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed retaining wall and dwelling 1 will be 12.1m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour/Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
33	<i>Eucalyptus species</i> Eucalyptus	Native Aust	5	1	8	2	8	1.5	23	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip. It is located 1.6m from the western boundary and 6.6m from the southern boundary. Proposed retaining wall and dwelling 1 will be 18.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
34	<i>Eucalyptus species</i> <i>Eucalyptus x4</i>	Native Aust	7	2	10	2	10	1.5	29	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Trees are located on the nature strip. They are located 0.8m from the western boundary and 6.6m from the southern boundary. Proposed retaining wall and dwelling 1 will be 18.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
35	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	5	30	3.6	31	2	87	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 2.5m from the western boundary and 6.6m from the southern boundary. There is some deadwood and some epicormic growth in the canopy. Canopy is concentrated at top one third of the tree. Proposed retaining wall and dwelling 1 will be 17.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
36	<i>Eucalyptus species</i> Eucalyptus	Native Aust	16	10	48	5.76	48	2.42	143	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and 6.6m from the southern boundary. Tree is bifurcated at 12m. There is some deadwood and some epicormic growth in the canopy. Canopy is concentrated at top one third of the tree. Proposed retaining wall and dwelling 1 will be 21m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
37	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	6	28	3.36	30	1.99	83	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and 4.1m from the southern boundary. Tree is bifurcated at 11m. There is some deadwood and some epicormic growth in the canopy. Canopy is concentrated at top one third of the tree. There is some decay in the trunk of the tree. Proposed retaining wall and dwelling 1 will be 17.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
38	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	10	32	3.84	33	2.04	94	Senescent	1yrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 6.6m from the western boundary and 3.3m from the southern boundary. There is very little foliage in the canopy of the tree indicating that the health of this tree is in decline and it will not recover. There is some decay in the trunk of the tree. Proposed retaining wall and dwelling 1 will be 17.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
39	<i>Eucalyptus species</i> Eucalyptus	Native Aust	10	10	49	5.88	53	2.53	145	Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 2.4m from the western boundary and 1.6m from the southern boundary. There is decay in the trunk of the tree and this tree is growing on a lean towards the south. Canopy is concentrated at top one third of the tree. Proposed retaining wall and dwelling 1 will be 14.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
40	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	12	44	5.28	45	2.36	131	Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 2.4m from the western boundary and 0.3m from the southern boundary. Proposed excavations and retaining wall for dwelling 1 will be 10.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
41	<i>Allocasuarina speciosa</i> She Oak	Native Aust	8	10	30	3.6	30	1.99	88	Mature	8yrs	Tree located on mature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and on the southern boundary. Proposed excavations and retaining wall for dwelling 1 will be 13.75m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
42	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	8	2	18	2	18	1.5	52	Dead	0yrs	Tree located on mature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 4.1m from the western boundary and 0.3m from the southern boundary. This tree is dead. Proposed excavations and retaining wall for dwelling 1 will be 12m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
43	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	16	18	44	5.28	49	2.45	131	Senescent	1yrs	Tree located on mature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 7.5m from the western boundary and 3.3m from the southern boundary. Central leader is dead and there is very little foliage in the canopy of this tree. The health of this tree is declining and will not recover. Proposed excavations and retaining wall for dwelling 1 will be 12.9m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
44	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	16	8	40	4.8	49	2.45	118	Mature	8yrs	Tree located on mature strip	High	Fair	Good	Tree is located on the nature strip on Howard Street. It is located 4.1m from the western boundary and 3.3m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. The foliage is sparse in the canopy. Proposed excavations and retaining wall for dwelling 1 will be 11.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
45	<i>Prunus speciosa</i> Cherry Plum	Exotic	6	7	30	3.6	30	1.99	88	Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 1.2m from the western boundary and 5.8m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed excavations and retaining wall for dwelling 1 will be 7.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
46	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	22	16	84	10	95	3.23	251	Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 2.5m from the western boundary and 10.8m from the southern boundary. There is some deadwood and some decay at the base of the tree. Canopy is concentrated at one third of the tree. Proposed excavations and retaining wall for dwelling 1 will be 8.75m from the trunk of the tree entering the TPZ by 1.25m but not entering the SRZ. Construction works will enter 8.7m <sup>2</sup> , 2.7% of the total TPZ which is 31.4m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
47	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	14	12	70	8.4	80	3	209	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 4.1m from the western boundary and 11.6m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed excavations and retaining wall for dwelling 1 will be 10.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
48	<i>Eucalyptus speciosa</i> Eucalyptus x 2	Native Aust	18	12	63	7.56	63	2.72	187	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Trees are located on the nature strip on Howard Street. They are located 13m from the western boundary and 6.6m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. There is some decay at the base of the tree. Proposed excavations and retaining wall for dwelling 1 will be 26.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
49	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	8	32	3.84	32	2.04	94	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 5m from the southern boundary. Tree is bifurcated at 6m. Proposed excavations and retaining wall for dwelling 1 will be 24.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
50	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	18	80	9.6	80	3	238	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 15.8m from the western boundary and 3.3m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed excavations and retaining wall for dwelling 1 will be 27.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
51	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	6	25	3	25	1.8	73	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 2.5m from the southern boundary. Tree is bifurcated at 6m. Proposed excavations and retaining wall for dwelling 1 will be 26.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
52	<i>Eucalyptus species</i> Eucalyptus	Native Aust	10	4	25	3	25	1.8	73	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 14m from the western boundary and 0.8m from the southern boundary. There is a small eucalyptus tree growing approximately 0.5m from the trunk of this tree. Proposed excavations and retaining wall for dwelling 1 will be 24.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
53	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	16	50	6	55	2.57	148	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 18.3m from the western boundary and on the southern boundary. Tree is growing on a lean towards the west. Proposed excavations and retaining wall for dwelling 1 will be 24.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
54	<i>Pinus radiata</i> Monterey Pine	Exotic	18	16	55	6.6	55	2.57	164	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 17.5m from the western boundary and on the southern boundary. Tree is bifurcated at 5m. Proposed excavations and retaining wall for dwelling 1 will be 24.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
55	<i>Eucalyptus species</i> Eucalyptus	Native Aust	11	6	20	2.4	1.66	58	58	Senescent	lyrs	Tree located on nature strip	High	Fair	Poor	Tree is located on the nature strip on Howard Street. It is located 15m from the western boundary and on the southern boundary. There is very little foliage in the canopy of this tree indicating that this health is declining. The health of this tree will not recover. Proposed excavations and retaining wall for dwelling 1 will be 22.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
56	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	4	8	2	8	1.5	23	Senescent	lyrs	Tree located on nature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 13m from the western boundary and 2.5m from the southern boundary. The central leader of this tree is dead and there is only one living limb on this tree. The health of this tree will not recover. Proposed excavations and retaining wall for dwelling 1 will be 21.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A



Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
57	<i>Eucalyptus speciosa</i> Eucalyptus x 2	Native Aust	11	2	20	2.4	20	1.66	58	Dead	0yrs	Tree located on mature strip	High	Poor	Poor	Trees are located on the nature strip on Howard Street. They are located 19m from the western boundary and 2.5m from the southern boundary. These trees are dead. Proposed excavations and retaining wall for dwelling 1 will be 2.4-4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
58	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	18	8	40	4.8	40	2.24	118	Dead	0yrs	Tree located on mature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 15.8m from the western boundary and 4m from the southern boundary. Tree is dead. Proposed excavations and retaining wall for dwelling 1 will be 2.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
59	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	18	6	38	4.56	38	2.2	112	Senescent	1yrs	Tree located on mature strip	High	Poor	Poor	Tree is located on the nature strip on Howard Street. It is located 13.3m from the western boundary and 5m from the southern boundary. There is very little foliage in the canopy of this tree. The health of this tree will not recover. Proposed excavations and retaining wall for dwelling 1 will be 2.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
60	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	18	12	50	6	55	2.57	148	Mature	8yrs	Tree located on mature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 15m from the western boundary and 13.3m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed excavations and retaining wall for dwelling 1 will be 2.4-4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour/Health	Structure/Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
61	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	10	30	3.6	30	1.99	88	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 16m from the southern boundary. Tree is growing on a lean towards the north. Proposed excavations and retaining wall for dwelling 1 will be 24.4m from the trunk of the tree and proposed driveway will be 18.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
62	<i>Eucalyptus species</i> Eucalyptus x 3 <i>Acacia species</i> Wattle tree	Native Aust	8	8	16	2	16	1.5	47	Semi-Mature	8yrs	Trees located on nature strip	High	Fair	Fair	Trees are located on the nature strip on Howard Street. They are located 14m from the western boundary and 17m from the southern boundary. The <i>Acacia</i> species is dead. Proposed driveway for dwelling 1 will be 16.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	4 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
63	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	8	18	2	18	1.5	52	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 14m from the western boundary and 17m from the southern boundary. Proposed driveway for dwelling 1 will be 18.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
64	<i>Eucalyptus species</i> Eucalyptus	Native Aust	8	6	10	2	10	1.5	29	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 20m from the southern boundary. Tree is growing on a lean towards the north. Proposed driveway for dwelling 1 will be 17.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retemion Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
65	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	18	10	45	5.4	45	2.36	134	Senescent	1yrs	Tree located on nature strip	High	Fair	Poor	Tree is located on the nature strip on Howard Street. It is located 12.5m from the western boundary and 26.6m from the southern boundary. Some decay in upper canopy trunk. Some deadwood and some epicormic growth in canopy. Fungal bract on southern side of the trunk of the tree at 2m. High risk of structural failure at this point. Health is this tree is declining and will not recover. Proposed driveway for dwelling 1 will be 13.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
66	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	12	6	30	3.6	32	2.04	88	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 14m from the western boundary and 30m from the southern boundary. Proposed driveway for dwelling 1 will be 15.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
67	<i>Unknown</i>	Exotic	8	10	22	2.64	25	1.8	64	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 30.8m from the southern boundary. Proposed driveway for dwelling 1 will be 17.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
68	<i>Acacia speciosa</i> Wattle tree x 2	Native Aust	7	7	30	3.6	30	1.99	89	Semi-Mature	8yrs	Trees located on nature strip	High	Good	Good	Trees are located on the nature strip on Howard Street. They are located 1.4m from the western boundary and 36.6m from the southern boundary. There is some deadwood in the canopies. Proposed driveway for dwelling 1 will be 20m from the trunk of the tree and proposed dwelling 2 will be 25.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	4 x Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
69	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	7	22	2.64	2.5	1.8	63	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on the nature strip on Howard Street. It is located 18m from the western boundary and 48m from the southern boundary. Proposed excavations and retaining wall for dwelling 2 will be 30m from the trunk of the tree and proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
70	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	3	10	2	1.5	1.5	29	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 16.6m from the western boundary and 48m from the southern boundary. Tree is growing on a lean towards the east. Proposed excavations and retaining wall for dwelling 2 will be 28.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
71	<i>Eucalyptus species</i> Eucalyptus	Native Aust	12	8	20	2.4	20	1.66	58	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and 45m from the southern boundary. Proposed excavations and retaining wall for dwelling 2 will be 16.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
72	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	10	105	12.6	122	3.59	313	Mature	8yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and 41.6m from the southern boundary. Tree has lost central leader at 1.4m. There are dead canopy limbs. Tree is a old remnant tree. Proposed dwelling 2 will be 15m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
73	<i>Acer species</i> Maple	Exotic	8	12	30	3.6	30	1.99	88	Semi-Mature	6yrs	Tree located on mature strip	High	Good	Poor	Tree is located on the nature strip on Howard Street. It is located 0.8m from the western boundary and 43.3m from the southern boundary. Tree consists of epicormic growth from an old stump. Proposed dwelling 2 will be 11.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
74	<i>Eucalyptus species</i> Eucalyptus	Native Aust	8	4	8	2	8	1.5	23	Senescent	2yrs	Tree located on mature strip	High	Fair	Poor	Tree is located on the nature strip on Howard Street. It is located 5.8m from the western boundary and 39m from the southern boundary. The central leader of this tree is dead and there is only one living limb on the tree. There is a dead stump located next to this tree. Proposed dwelling 2 will be 14.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
75	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	18	78	9.36	116	3.52	233	Mature	6yrs	Tree located on mature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 7.5m from the western boundary and 35m from the southern boundary. Tree is bifurcated at 1m and there is decay in the trunk of the tree. The two leaders have been removed. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is an old remnant tree. Proposed dwelling 2 will be 16.25m from the trunk of the tree and proposed driveway will be 10.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
76	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	16	70	8.4	70	2.84	209	Mature	6yrs	Tree located on mature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 6.6m from the western boundary and 30.8m from the southern boundary. Tree has lost central leader at 16m and there is some decay in the trunk of the tree. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is an old remnant tree. Proposed driveway will be 8.3m from the trunk of the tree entering the TPZ by 0.1m but not entering the SRZ. Construction works will enter 0.01m <sup>2</sup> , 0.04% of the total TPZ which is 222m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined in section 4.3, 4.7, 4.8, 4.10. Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
77	<i>Eucalyptus species</i> Eucalyptus	Native Aust.	16	12	52	6.24	52	2.5	154	Mature	6yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on the nature strip on Howard Street. It is located 2.5m from the western boundary and 30.8m from the southern boundary. Tree is bifurcated at 2m and one leader is dead. The living leader overhangs the boundary fence. Proposed driveway will be 4.5m from the trunk of the tree entering the TPZ by 1.75m but not entering the SRZ. Construction works will enter 3.8m <sup>2</sup> , 3.1% of the total TPZ which is 122.5m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
96	<i>Eucalyptus species</i> Eucalyptus	Native Aust.	16	18	50	6	50	2.47	148	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on the nature strip. The existing boundary fence does not run along the true property boundary and the survey indicates that this tree is located on the nature strip. It is located 1.4m from the eastern boundary and on the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Tree is bifurcated at 4m and is growing on a lean towards the north. Proposed dwelling 4 will be 2.75m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
101	<i>Eucalyptus species</i> Eucalyptus	Native Aust.	11	6	16	2	18	1.5	46	Semi-Mature	8yrs	None	High	Good	Fair	Tree is located 0.8m from the eastern boundary and 7m from the southern boundary. Canopy of tree is concentrated at top one third of the tree. Proposed dwelling 4 will be 20.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	No, circumference under 0.5m
103	<i>Photonia davidiana</i> Photonia x 3	Exotic	4	4	30	3.6	30	1.99	88	Mature	8yrs	Trees located in neighbour property	High	Good	Good	Trees are located in neighbouring property. The existing boundary fence does not run along the true property boundary and the survey indicates that these trees are located in the neighbouring property. They are located 1.4m on the eastern boundary and 12.5m from the southern boundary. Proposed dwelling 4 will be 15.8m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	3 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
104	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	1.2	52	6.24	61	2.68	154	Mature	8yrs	None	Medium	Good	Good	Tree is located on the eastern boundary and 20m from the southern boundary. Proposed dwelling 4 will be 11.25m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7,4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
105	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	1.6	11.5	13.8	110	3.44	340	Mature	8yrs	None	Medium	Good	Fair	Tree is located 5m from the eastern boundary and 23.5m from the southern boundary. Tree is bifurcated at 1m. Tree is located 11.6m from dwelling 4 and its driveway entering the TPZ by 2.4m but not entering the SRZ. Construction works will enter 29.7m <sup>2</sup> , 4.9% of the total TPZ while it is 599.3m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7,4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
134	<i>Callistemon viminalis</i> Weeping Bottlebrush	Native Aust	4	4	20	2.4	18	1.5	59	Mature	8yrs	None	Medium	Good	Fair	Tree is located 0.5m from the eastern boundary and 62m from the southern boundary. Canopy of tree is lop-sided due to it being crowded out by neighbouring trees. Proposed dwelling 4 will be 15.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7,4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
136	<i>Cedrus deodara</i> Deodara	Exotic	16	1.2	60	7.2	69	2.84	178	Semi-Mature	10yrs	None	Medium	Good	Fair	Tree is located 7.9m from the eastern boundary and 73.7m from the southern boundary. There is one lower limb that is developing into a smaller leader. Proposed dwelling 4 will be 19.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7,4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
137	<i>Acacia species</i> Wattle Tree	Native Aust	8	8	18	2	26	1.85	53	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Tree is located in Warburton Rail Trail. It is located 1.6m from the western boundary and 5.4m from the southern boundary. Proposed dwelling 2 will be 17.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
138	<i>Leptospermum species</i> Tea tree	Native Aust	4	3	10	2	15	1.5	29	Mature	6yrs	Tree located in Warburton Rail Trail	High	Fair	Fair	Tree is located in Warburton Rail Trail. It is located 2m from the western boundary and 5.5m from the southern boundary. Proposed dwelling 2 will be 17.9m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
139	<i>Eucalyptus species</i> Eucalyptus	Native Aust	16	6	20	2.4	20	1.66	58	Mature	6yrs	Tree located on Nature strip	High	Fair	Fair	Tree is located on nature strip on Howard Street. It is located 0.8m from the western boundary and 42.5m from the southern boundary. Proposed dwelling 2 will be 10.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
140	<i>Eucalyptus species</i> Eucalyptus	Native Aust	16	4	20	2.4	40	2.24	58	Mature	6yrs	Tree located on Nature strip	High	Fair	Fair	Tree is located on nature strip on Howard Street. It is located 0.8m from the western boundary and 41.5m from the southern boundary. Tree is bifurcated at the base. One leader is dead and the canopy of this tree is lop-sided. Proposed dwelling 2 will be 10.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A



Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
141	<i>Leptospermum speciosum</i> Tea tree x 5	Native Aust	3	3	10	2	10	1.5	29	Mature	6yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Trees are located in Warburton Rail Trail. They are located 16.6m from the western boundary and 59.5m from the southern boundary. Proposed dwelling 2 will be 12m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	5 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
142	<i>Leptospermum speciosum</i> Tea tree x 3	Native Aust	4	3	16	2	16	1.5	47	Mature	6yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Trees are located in Warburton Rail Trail. They are located 39.5m from the western boundary and 67m from the southern boundary. Proposed dwelling 2 will be 19.5m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	3 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
143	<i>Hakea speciosa</i> Hakea	Native Aust	4	3	10	2	15	1.5	28	Mature	6yrs	Tree located in Warburton Rail Trail	High	Fair	Fair	Tree is located in Warburton Rail Trail. It is located 42.5m from the western boundary and 68.3m from the southern boundary. Proposed dwelling 2 will be 19m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
144	<i>Hakea speciosa</i> Hakea	Native Aust	3	2	10	2	15	1.5	28	Dead	0yrs	Tree located in Warburton Rail Trail	High	Poor	Poor	Tree is located in Warburton Rail Trail. It is located 40m from the western boundary and 69.5m from the southern boundary. This tree is dead. Proposed dwelling 2 will be 20.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
145	<i>Fraxinus speciosa</i> Ash Tree x 2	Exotic	4	3	10	2	15	1.5	29	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Trees are located in Warburton Rail Trail. They are located 39.5m from the eastern boundary and 71.6m from the southern boundary. Proposed dwelling 3 will be 21.2m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	2 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
146	<i>Hakea speciosa</i> Hakea	Native Aust	3	3	10	2	10	1.5	29	Dead	0yrs	Tree located in Warburton Rail Trail	High	Poor	Poor	Tree is located in Warburton Rail Trail. It is located 37.9m from the eastern boundary and 72.9m from the southern boundary. This tree is dead. Proposed dwelling 3 will be 26.6m from the trunk of the tree and proposed dwelling 4 will be 27.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
147	<i>Leptospermum speciosum</i> Tea Tree	Native Aust	5	3	10	2	10	1.5	29	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located 42.5m from the eastern boundary and 71.25m from the southern trunk of the tree will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
148	<i>Eucalyptus speciosa</i> Eucalyptus	Native Aust	14	10	45	5.4	47	2.4	134	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located 29.5m from the eastern boundary and 76.6m from the southern trunk of the tree and proposed dwelling 4 will be 27.9m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
149	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	10	45	5.4	60	2.66	134	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Tree is located in Warburton Rail Trail. It is located 22.9m from the eastern boundary and 77.9m from the southern boundary. Tree is bifurcated at 3m. Proposed dwelling 4 will be 27.5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
150	<i>Fraxinus species</i> Ash Tree	Exotic	5	3	8	2	8	1.5	23	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located 23.7m from the eastern boundary and 73.3m from the southern boundary. Proposed dwelling 4 will be 21.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
151	<i>Pittosporum tenuifolium</i> James Siring Pittosporum	Exotic	5	4	18	2	18	1.5	53	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located 20m from the eastern boundary and 74.5m from the southern boundary. Proposed dwelling 4 will be 21.2m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
152	<i>Leptospermum species</i> Tea Tree x 6	Native Aust	6	4	15	2	15	1.5	44	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Trees are located in Warburton Rail Trail. They are located 18.7m from the eastern boundary and 78.7m from the southern boundary. Proposed dwelling 4 will be 25.8m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	6 x Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
153	<i>Fraxinus species</i> Ash Tree	Exotic	8	6	14	2	18	1.5	41	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Fair	Tree is located in Warburton Rail Trail. It is located 15m from the eastern boundary and 84m from the southern boundary. Proposed dwelling 4 will be 31m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
154	<i>Allocasuarina species</i> She Oak	Native Aust	9	6	18	2	18	1.5	53	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located 8.3m from the eastern boundary and 83m from the southern boundary. Proposed dwelling 4 will be 31m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
155	<i>Ligustrum species</i> Privet	Exotic	4	6	10	2	10	1.5	28	Semi-Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Good	Tree is located in neighbouring property in the Warburton Rail Trail. It is located 0.5m from the eastern boundary and 80.8m from the southern boundary. Proposed dwelling 4 will be 32m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
156	<i>Eucalyptus species</i> Eucalyptus	Native Aust	11	10	35	4.2	37	2.57	104	Semi-Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Fair	Tree is located in neighbouring property in the Warburton Rail Trail. It is located 1.6m from the eastern boundary and 89m from the southern boundary. Proposed dwelling 4 will be 40m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
157	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	18	36	4.32	43	2.3	106	Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Good	Tree is located in neighbouring property in the Warburton Rail Trail. It is located 5m from the eastern boundary and 90.8m from the southern boundary. There is some deadwood and some epicormic growth in the canopy. Proposed dwelling 4 will be 40m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
158	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	10	30	3.6	30	1.99	58	Semi-Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Good	Tree is located in neighbouring property in the Warburton Rail Trail. It is located 5m from the eastern boundary and 89m from the southern boundary. Proposed dwelling 4 will be 40m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
159	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	16	40	4.8	40	2.24	118	Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Good	Tree is located in neighbouring property in the Warburton Rail Trail. It is located 8m from the eastern boundary and 89m from the southern boundary. Proposed dwelling 4 will be 43.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
160	<i>Eucalyptus species</i> Eucalyptus x 6	Native Aust	16	10	30	3.6	30	1.66	89	Semi-Mature	8yrs	Tree located in neighbour property in Warburton Rail Trail	High	Good	Good	Trees are located in neighbouring property in the Warburton Rail Trail. They are located 7.5m from the eastern boundary and 90m from the southern boundary. Proposed dwelling 4 will be 43.3m from the trunk of the trees and will not enter the TPZ or SRZ of these trees. Therefore the proposed construction works will not cause the health or stability of these trees to decline.	6 x Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
161	<i>Eucalyptus species</i> Eucalyptus	Native Aust	10	8	30	3.6	30	1.99	88	Mature	8yrs	None	Medium	Good	Good	Tree is located 49m from the eastern boundary and 99m from the southern boundary. Proposed dwelling 4 will be 52m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
162	<i>Eucalyptus species</i> Eucalyptus	Native Aust	4	6	40	4.8	40	2.24	117	Mature	8yrs	None	Medium	Fair	Fair	Tree is located 35.8m from the eastern boundary and 112.5m from the southern boundary. Tree is bifurcated base some canopy limbs have been lopped. Proposed dwelling 4 will be 64.4m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
163	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	20	80	9.6	80	3	238	Mature	8yrs	None	Medium	Good	Good	Tree is located 46.6m from the eastern boundary and 110m from the southern boundary. Proposed dwelling 3 will be 63.3m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes
164	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	18	80	9.6	80	3	238	Mature	8yrs	None	Medium	Fair	Fair	Tree is located 12.5m from the western boundary and 83m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree, there is also some dieback at the tips of the branches. Proposed dwelling 2 will be 36.6m from the trunk of the tree and proposed driveway for Lot 6 will be 13.75m and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline. Canopy of this tree can be pruned so it is 5m from neighbouring trees.	Tree to be retained. Protection methods outlined (section 4.3, 4.7, 4.8, 4.9) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL22
165	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	18	96	11.5	96	3.25	286	Mature	8yrs	Tree located in Warburton Rail Trail	High	Fair	Fair	Tree is located in Warburton Rail Trail. It is located 9m from the western boundary and 7.5m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of the tree. There is die back at the tops of the canopy and ivy growing up the trunk of the tree. Proposed dwelling 2 will be 30.8m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Proposed driveway for Lot 6 will be 10m from the trunk of the tree entering the TPZ by 1.5m but not entering the SRZ. Construction works will enter 3.5m2, 0.84% of the total TPZ which is 416.2m2, less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
166	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	10	40	4.8	40	2.24	119	Semi-Mature	8yrs	Tree located in Warburton Rail Trail	High	Good	Good	Tree is located in Warburton Rail Trail. It is located on the western boundary and 70.8m from the southern boundary. Proposed dwelling 2 will be 29.5m from the trunk of the tree and proposed driveway for Lot 6 will be 8.1m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
167	<i>Eucalyptus species</i> Eucalyptus	Native Aust	4	3	4	2	4	1.5	11	Young	10yrs	Tree located on nature strip	High	Good	Good	Tree is located on nature strip on Howard Street. It is located 1.6m from the western boundary and 63m from the southern boundary. Proposed dwelling 2 will be 26.2m from the trunk of the tree and proposed driveway for Lot 6 will be 15.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
168	<i>Eucalyptus species</i> Eucalyptus	Native Aust	8	4	10	2	10	1.5	29	Semi-Mature	10yrs	Tree located on nature strip	High	Good	Good	Tree is located on nature strip on Howard Street. It is located 4m from the western boundary and 70.8m from the southern boundary. Proposed dwelling 2 will be 31.6m from the trunk of the tree and proposed driveway for Lot 6 will be 8.75m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL2.2
169	<i>Eucalyptus species</i> Eucalyptus	Native Aust	9	10	30	3.6	30	1.99	89	Mature	6yrs	Tree located on nature strip	High	Fair	Good	Tree is located on nature strip on Howard Street. It is located on the western boundary and 75m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed dwelling 2 will be 33.7m from the trunk of the tree and proposed driveway for Lot 6 will be 3.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
170	<i>Eucalyptus species</i> Eucalyptus	Native Aust	13	10	35	4.2	35	2.12	104	Mature	6yrs	Tree located on nature strip	High	Fair	Good	Tree is located on nature strip on Howard Street. It is located 5m from the western boundary and 75m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed dwelling 2 will be 37m from the trunk of the tree and proposed driveway for Lot 6 will be 3.1m from the trunk of the tree entering the TPZ by 1.1m but not entering the SRZ. Construction works will enter 5m <sup>2</sup> , 9% of the total TPZ which is 55.5m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
171	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	14	80	9.6	82	3.04	238	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on nature strip on Howard Street. It is located 9m from the western boundary and 71m from the southern boundary. Tree is bifurcated at the base. There is some deadwood and some epicormic growth into canopy of this tree. Proposed dwelling 2 will be 37.7m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Proposed driveway for Lot 6 will be 3.04m from the trunk of the tree entering the TPZ by 6.45m but not entering the SRZ. Construction works will enter 19m <sup>2</sup> , 6.5% of the total TPZ which is 290m <sup>2</sup> , less than 10%. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
172	<i>Eucalyptus species</i> Eucalyptus	Native Aust	20	16	58	6.96	60	2.66	173	Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on nature strip on Howard Street. It is located 15.8m from the western boundary and 60m from the southern boundary. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed dwelling 2 will be 34.6m from the trunk of the tree and proposed driveway for Lot 6 will be 16.25m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10). Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A



Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SKZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL2.2
173	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	16	75	9	76	2.94	223	Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on nature strip on Howard Street. It is located 15.8m from the western boundary and 66.6m from the southern boundary. Tree is bifurcated at the base into 4 leaders. There is some deadwood and some epicormic growth in the canopy of this tree. Proposed dwelling 2 will be 38.8m from the trunk of the tree and proposed driveway for Lot 6 will be 10.6m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
174	<i>Eucalyptus species</i> Eucalyptus	Native Aust	14	6	18	2	18	1.5	53	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Fair	Tree is located on nature strip on Howard Street. It is located 15.8m from the western boundary and 70.8m from the southern boundary. Tree is bifurcated at the base. Proposed dwelling 2 will be 44.4m from the trunk of the tree and proposed driveway for Lot 6 will be 6.25m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
175	<i>Eucalyptus species</i> Eucalyptus	Native Aust	18	12	40	4.8	40	2.24	118	Mature	6yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on nature strip on Howard Street. It is located 11.6m from the western boundary and 75.8m from the southern boundary. Tree is growing on a lean towards the west. Proposed dwelling 2 will be 44.4m from the trunk of the tree and proposed driveway for Lot 6 will be 6.25m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A
176	<i>Acacia species</i> Wattle tree	Native Aust	16	8	18	2	18	1.5	53	Semi-Mature	8yrs	Tree located on nature strip	High	Good	Good	Tree is located on nature strip on Howard Street. It is located 16m from the western boundary and 72.5m from the southern boundary. Proposed dwelling 2 will be 47.7m from the trunk of the tree and proposed driveway for Lot 6 will be 5m from the trunk of the tree and will not enter the TPZ or SRZ of this tree. Therefore the proposed construction works will not cause the health or stability of this tree to decline.	Tree to be retained. Protection methods outlined (section 4.3, 4.7.4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	N/A

Tree No.	Botanical Name Common Name	Origin	Height (m)	Crown Spread diameter (m)	DBH (cm)	TPZ (m)	D (cm)	SRZ (m)	Circum at 1m (cm)	Age Class	SULE	Location Relevance	Retention Value	Vigour /Health	Structure /Form	Comments	Arborist's recommendations	Permit required for tree removal pursuant SOL2.2
177	<i>Acacia species</i> Wattle tree	Native Aust	12	8	35	4.2	35	2.12	112	Mature	5yrs	Tree located on nature strip	High	Fair	Fair	Tree is located on nature strip on Howard Street. It is located 2m from the western boundary and 84m from the southern boundary. There is deadwood in the canopy and some dieback at the tips of the branches. There is also a large broken canopy limb. This tree is naturally reaching the end of its safe useful life expectancy. Proposed driveway for Lot 6 will be 2.13m from the trunk of the tree entering the TPZ by 2.07m but not entering the SRZ. Construction works will enter 8.5m <sup>2</sup> , 15.3% of the total TPZ which is 55.5m <sup>2</sup> , more than 10%. Therefore it is recommended that where the proposed driveway enters the TPZ of this tree that it is constructed using alternative construction methods. It must be constructed above existing grade level. There must be no grade changes within the TPZ (no excavations and no soil fill) and no roots are to be cut or damaged during any part of the construction process. However, if excavations or soil fill are required for the driveway, then root investigation will be required to establish if any significant roots will be damaged by the proposed earth works. If significant roots or a large percentage of fine fibrous roots are discovered then proposed driveway must be redesigned around these roots.	Tree to be retained. Alternative construction methods outlined (section 4.3, 4.4, 4.6, 4.7, 4.8, 4.10) Tree to be protected during proposed construction works. Protection measures outlined in Tree Management Plan (section 5.1, 5.2, 5.3)	Yes

**Tree protection methods:**

**4.3** Changes to soil conditions for landscaping shall be avoided within TPZ of trees, all landscaping must be above existing grade level. There must be no grade changes within the TPZ and no roots are to be cut or damaged during any part of the construction process. If excavations or fill are required for approved landscaping works then root investigation must be carried out to establish if any significant root will be damaged. (Tree roots with a diameter large than 20mm are significant roots) Root investigation will allow the location and distribution of the root to be determined through non-destructive methods like pneumatic, hydraulic, hand digging or ground penetrating radar. Any approved excavations or fill are to be carried out manually within the TPZ of the tree. Mechanical digging is not permitted. This includes excavations for paths. Any root severance within the TPZ must be approved by the Responsible Authority and undertaken by the project Arborist to their satisfaction.

**4.4** Where proposed driveway, carport surface, paths or paving for landscaping enters the TPZ of this tree, all constructed must be above existing grade level. There must be no grade changes within the TPZ (no excavations and no soil fill) and no roots are to be cut or damaged during any part of the construction process. It is also recommended that the driveway/path/paving surface must be constructed using porous materials approved by the Responsible Authority. The driveway/path/paving surface treatment must allow water to penetrate through the surface and into the soil profile.

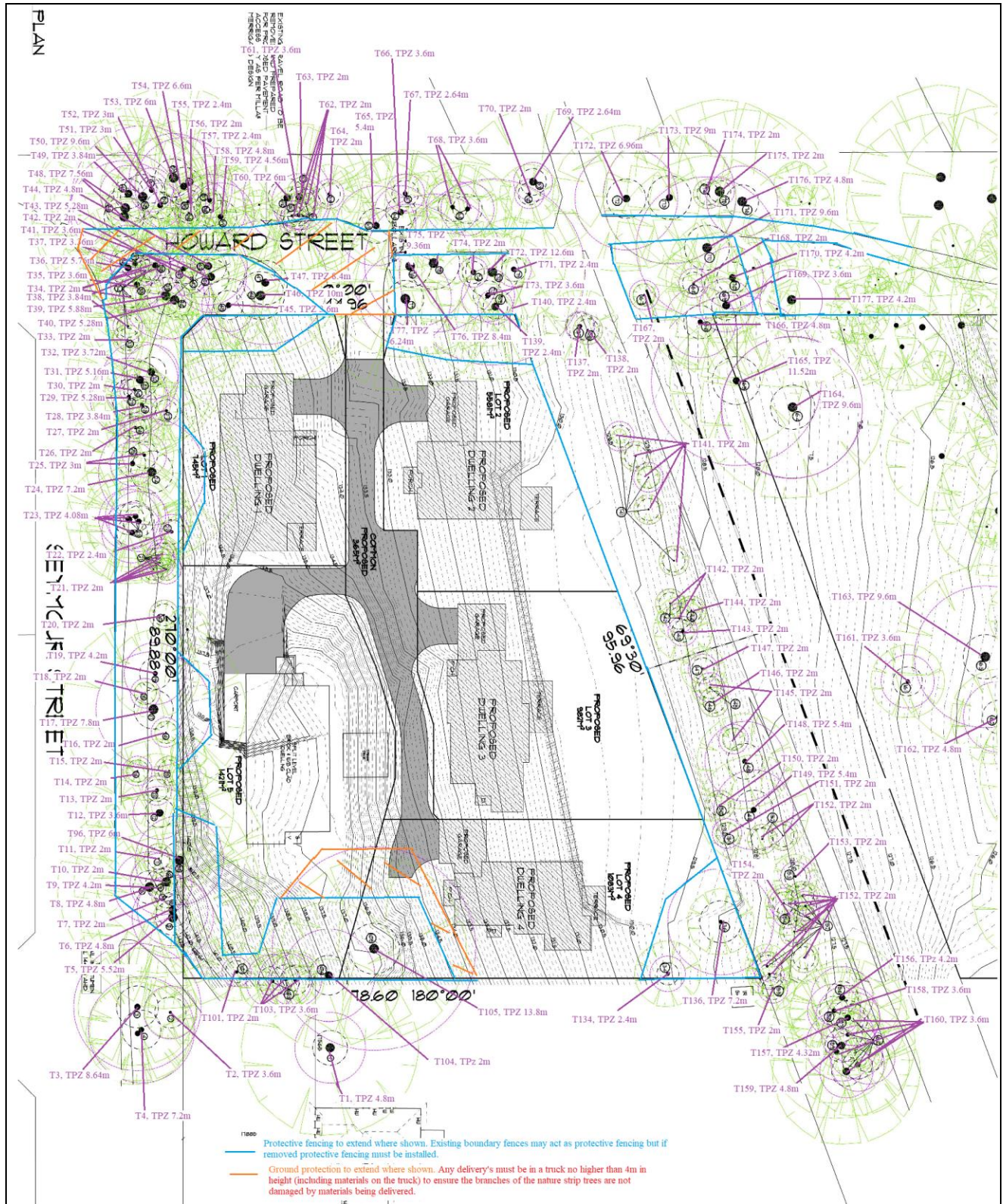
**4.7** Any holes for posts for new or replacement boundary fences or retaining walls within the TPZ of this tree must be excavated manually and re positioned around significant roots (tree roots with a diameter large than 20mm are significant roots) if required. No roots larger than 20mm in diameter and must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.

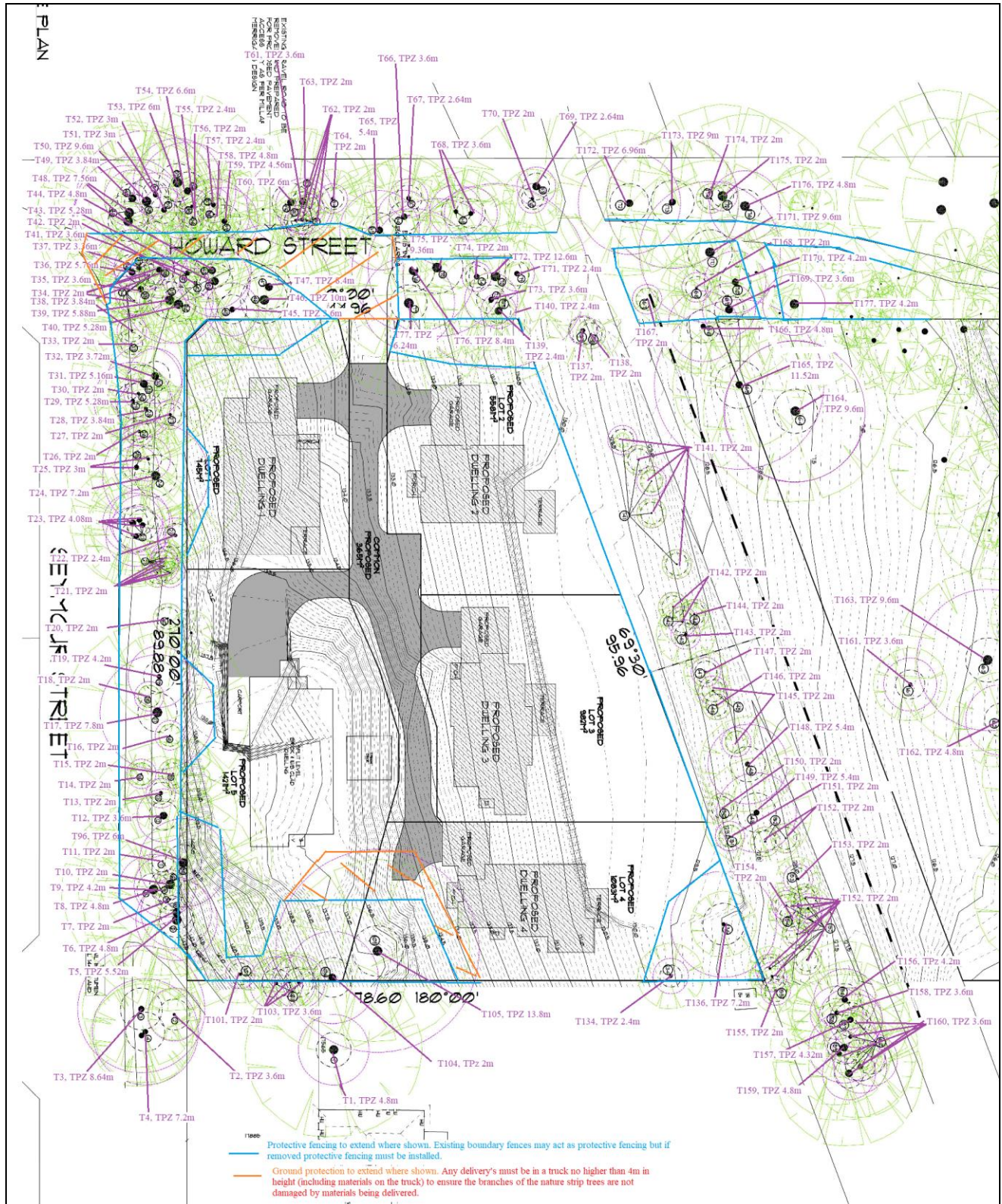
**4.8** All services and pits must be routed outside the TPZ's of the trees. If underground services must be routed within the TPZ, they must be installed by boring under the tree protection zone or installed using hydro excavation under the supervision of the project arborist. The direct drilling bore must be at least 600mm deep. The project arborist must be advised that the work is going to be carried out and present if roots larger than 20mm are to be cut or damaged. Any root pruning must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.

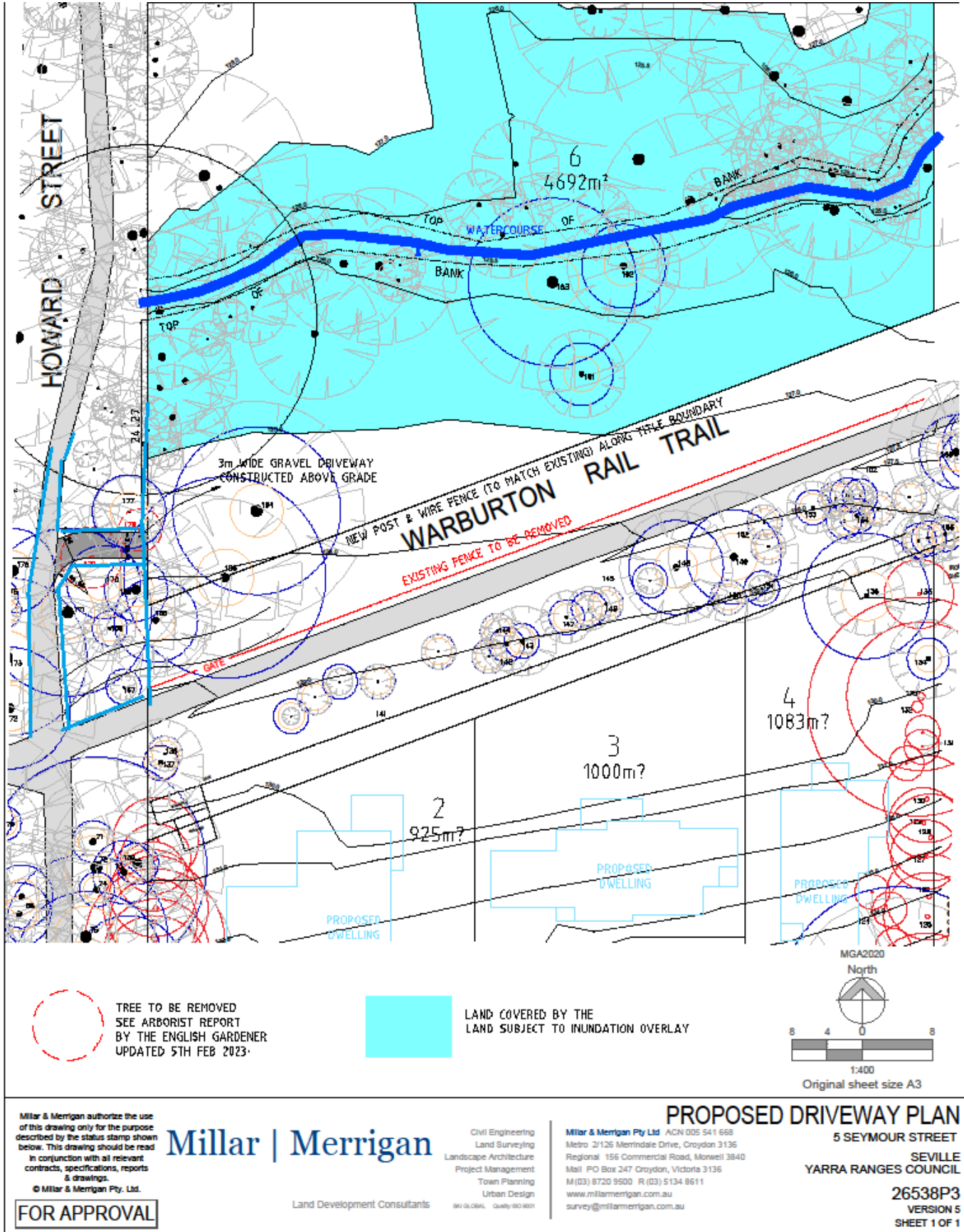
**4.9** The lower limbs of any tree to be retained maybe lifted to ensure that they are not damaged. Any pruning to be carried out before any excavation/construction works begin to ensure that the tree is not damaged by machinery. This work must be carried out by a qualified Arborist to Australian Standards AS 4373 and no limbs with a diameter larger than 10 centimeters are to be cut.

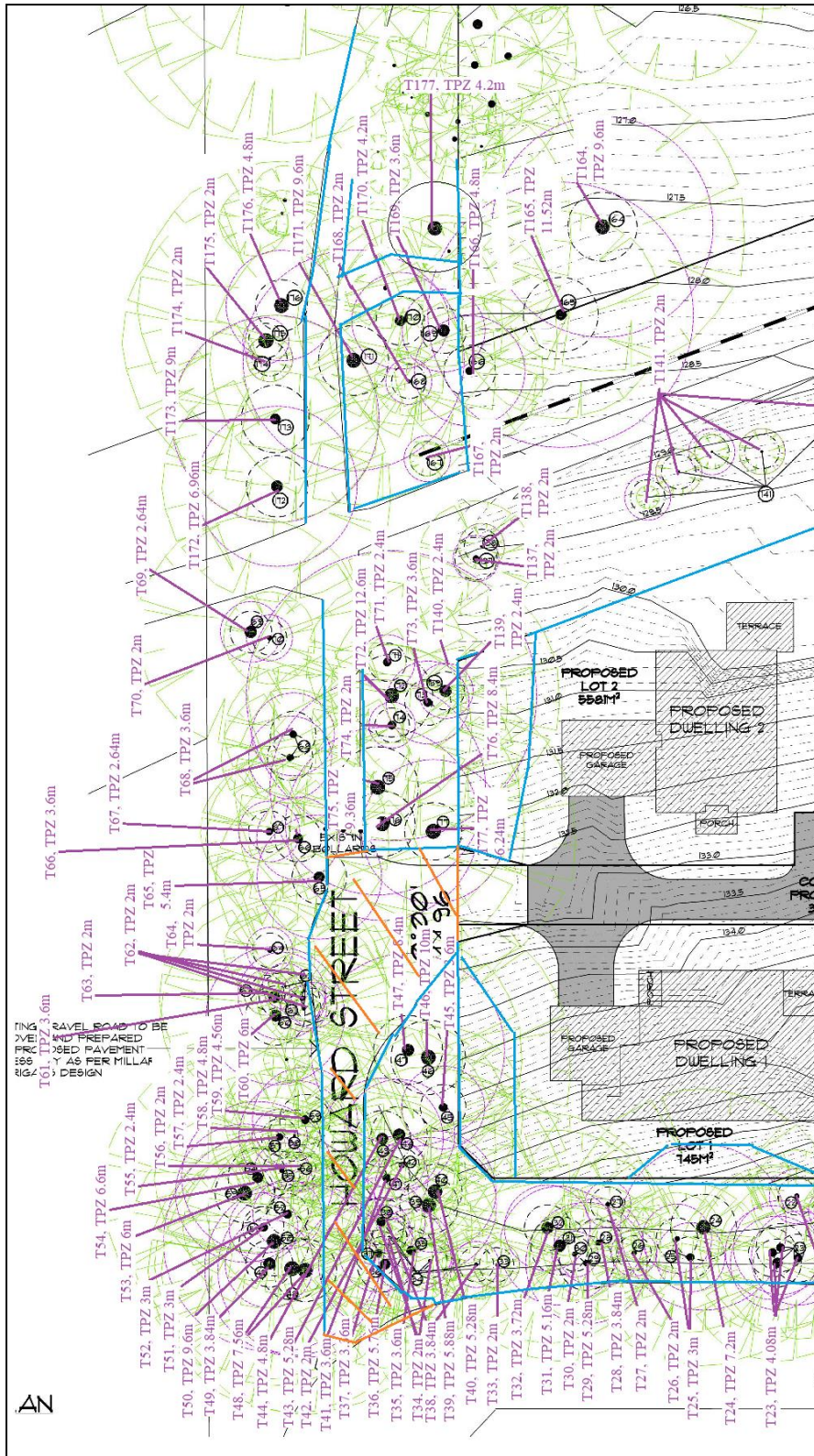
**4.10** No pruning of any limbs of any tree to be retained is to occur.

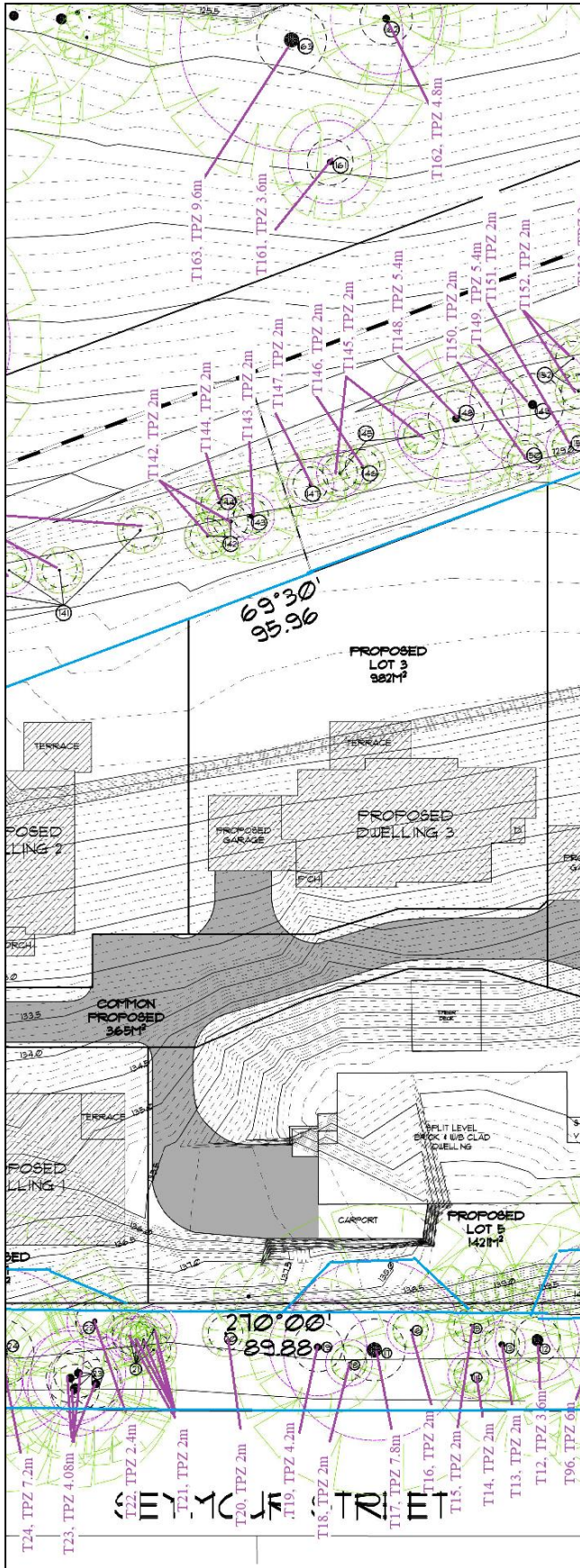
### 5. Tree protection measures/tree management plan



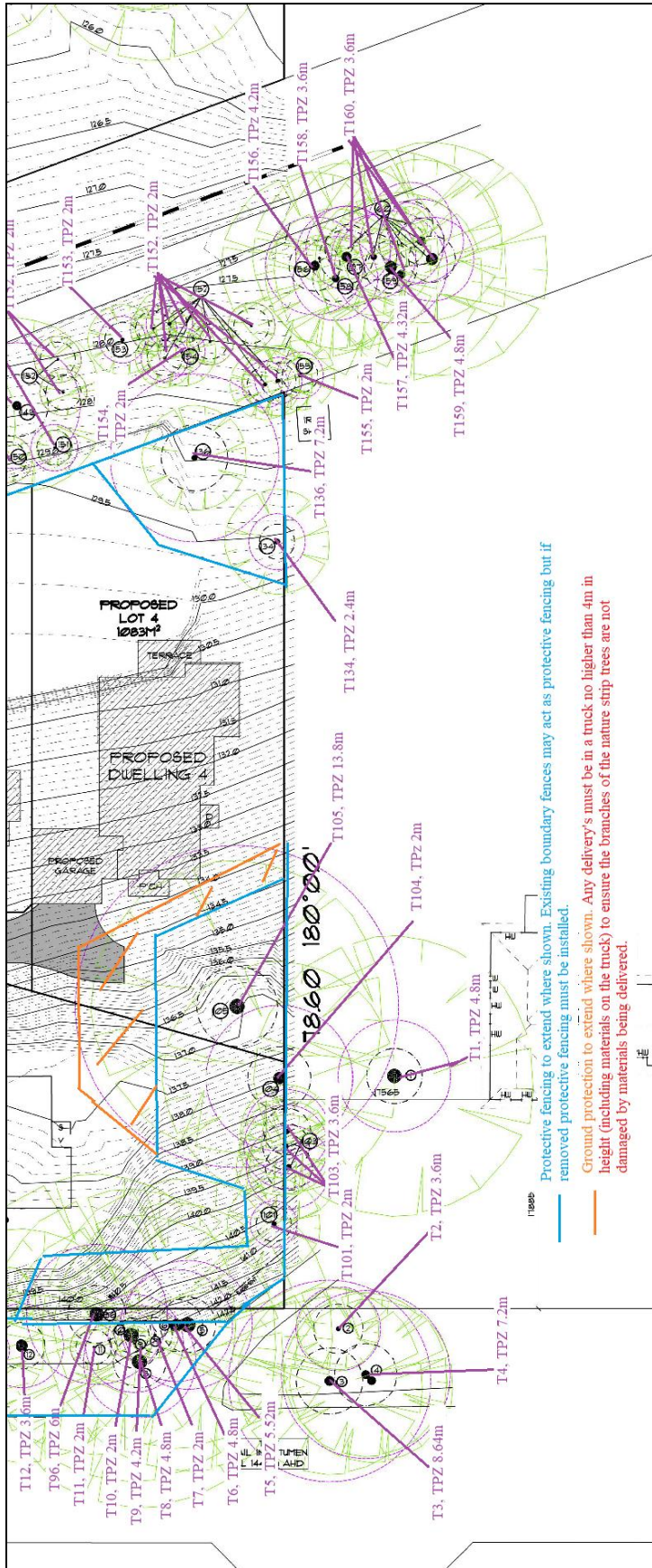












The tree protection guidelines are to ensure that the health and stability of retained trees does not decline as a direct result of the proposed construction works and to minimize the risk of decline or structural deterioration of retained trees following development.

The main function of roots are to take up water and nutrients, anchorage, storage of sugar reserves and the production of some plant hormones required by the shoots. In order for the roots to function, they must be provided with oxygen from the soil. A root system consists of three main parts. The structural woody roots and the lower order roots for anchorage, storage and transports or water and nutrients. And the non-woody roots for absorption of water and nutrients, extensions, synthesis of amino acids and growth regulators. Most of the tree roots are found at the very top of the soil and the vast majority of these roots are small non-woody roots. This delicate, non-woody system is very vulnerable to damage due to its close proximity to the surface.

The root system of a tree can be damaged in many ways. Excavation works, building up of soil, trenching, chemical contamination, laying of pavements, changes in drainage patterns and changes in water availability. However, the major cause of damage to the root system of tree on development sites is soil compaction. Soil compaction is the loss of the large pore spaces within the soil. These pore spaces are essential for aeration, the exchange of gases between the soil air and the atmosphere and drainage, the removal of excess water from the soil. Soil compaction is caused the stress forces applied by foot and vehicle traffic and the storage of materials. The degree of the soil compaction will depend upon the weight of vehicles, number of vehicles, soil moisture levels and clay content.

The loss of the pore spaces results in reduced aeration, loss of root growth, reduced infiltration of water, increased water run-off, reduced availability of plant nutrients and a reduction in the number and diversity of beneficial soil organisms. Damage to the root system of a tree can also result in the loss of structural woody roots, which will leave the tree unstable, reduce water and nutrient uptake which results in the eventual loss of leaves, reduced photosynthesis and thus sugar production. There will also be decay developing as a result of wounding and the exposure to soil borne pathogens. It may take many years for the health of the tree to decline and for the tree to eventually die from root damage.

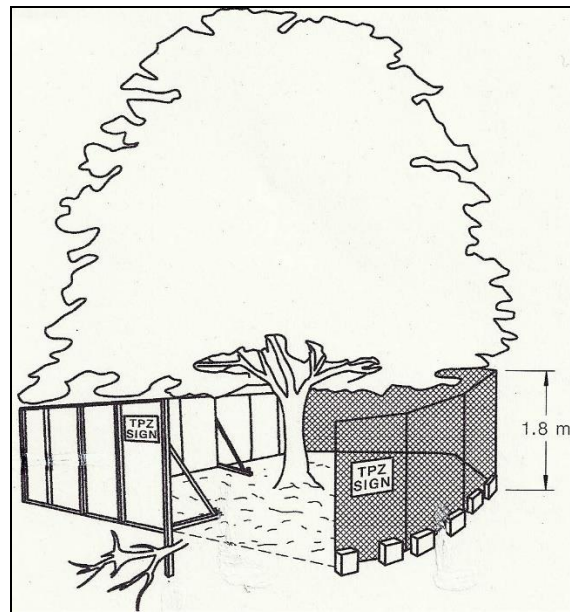
Therefore, it is essential that the TPZ of this tree is protected prior to the commencement of any site works including demolition, excavations, delivery of materials etc.

## 5.1 Pre-construction

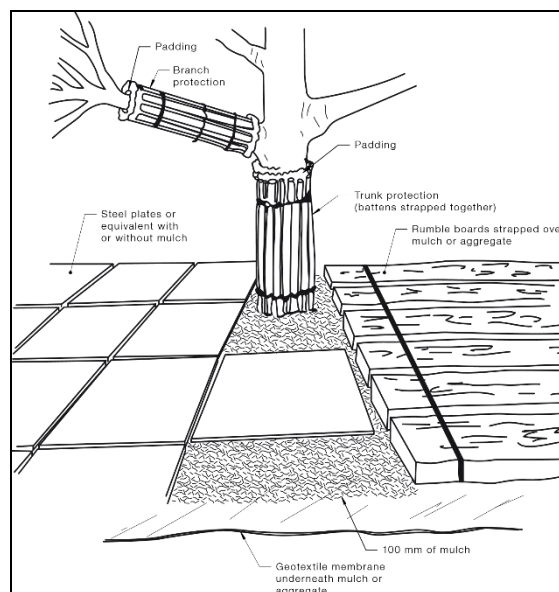
- **Contractors to be advised of trees to be retained** The owner and occupier of the site must ensure that, prior to the commencement of demolition, buildings and works, all contractors and tradespersons operating on the site are advised of the status of trees to be retained as detailed in the tree protection management plan and are advised of any obligations in relation to the protection of those trees.
- **Any delivery's must be in truck no higher than 4m in height (including materials on the trunk) to ensure the branches of nature strip trees are not damaged by materials being delivered.**
- If any canopies, trunk or root system of trees recommended to be retained are damaged at any stage of demolition/construction this damage must be reported to the consulting arborist immediately. All works must stop around the tree immediately. The damage must be assessed by the consulting arborist. The responsible authority must be notified by the consulting arborist to establish the appropriate action to be taken.

- The tree protection measures must be installed in the location shown on the tree protection plan prior to demolition works, excavation works, and delivery of goods etc. occurring. The protection fencing and ground protection systems are inspected by project arborist prior to construction activities within the site. The temporary repositioning of tree protection fencing/ground protection as may be required to provide access in situations where this relocation, both in terms of its repositioning and its purpose, are approved and supervised by the project's arborist, and the approved fencing position/ ground protection reinstated immediately following any such access.
- **PROTECTIVE FENCING:** Must be chain wire mesh panels, high wire mesh fencing or high wire reinforced para-web mesh with reinforcing fencing wire to a height of 1.8m, held in place with concrete feet or 1.8m star pickets every 3-4m. Alternatively plywood or wooden paling fence panels to a height of 1.8m may be used. If excavation is required for the insertion of supports posts for the fencing it must not involve the severance of any roots greater than 20mm in diameter and must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.
- The protective fencing must not be removed or altered without approval of the responsible authority and must remain in place until all construction is completed. Existing perimeter fencing and other structures may be suitable as part of the protective fencing. No temporary services, wires, nails, screws or any other fixing device to be attached to the tree. Signs identifying the TPZ should be placed around all sides of the TPZ and be visible from within the development site. The lettering on the sign must comply with Australian standard AS1319.





- GROUND PROTECTION:** If temporary access is required within the TPZ ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Measures may include a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rock below rumble boards. For trunk and branch protection use boards and padding that will prevent damage to bark. Boards are to be strapped to trees, not nailed or screwed. Rumble boards should be of a suitable thickness to prevent soil compaction and root damage
- Ground protection must not be removed or altered without approval of the responsible authority and must remain in place until all construction is completed.



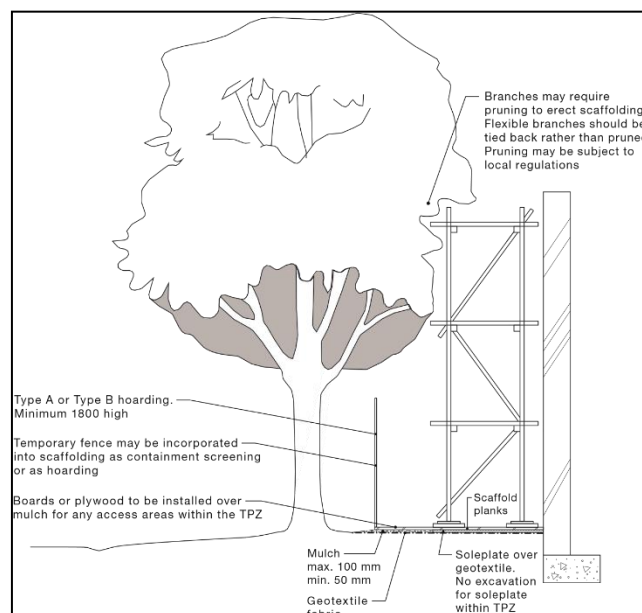
- Stumps to be removed from within a TPZ must be removed in a manner that avoid damaging or disturbing roots of trees to be retained before protective fencing/ground protection is installed.

## 5.2 During Construction

- Any works within the Tree Protection Zone of any tree, whether the zone is fully enclosed by Tree protection fencing/Ground protection or not, MUST comply with tree protection measures described in section 4.
- Temporary irrigation - A manually operated surface/drip irrigation system should be used to water the root zones of the trees within TPZ's during dry spells and after construction works have been completed. The watering regime and its duration to be established when root protection measures are installed and based upon the time of the year and soil moisture levels at the time by the consultant arborist. Early morning watering to the outer areas of the root zone once a week when there is no rain, to provide 30-50mm of water, will meet the needs of most trees. Such a system should be installed beneath mulch and should only be operated in compliance with any relevant water restrictions
- Excavation work must be carried out manually within the TPZ of the tree. No roots larger than 20mm in diameter are to be cut and the project arborist must be advised that the work is going to be carried out and present if roots are to be cut or damaged.
- Any holes for post within the TPZ of tree for new or replacement boundary fences or replacement retaining walls must be excavated manually and re positioned around significant roots (tree roots with a diameter large than 20mm are significant roots). No roots larger than 20mm in diameter are to be cut and the project arborist must be advised that the work is going to be carried out and present if roots are to be cut or damaged. If tree roots must be cut inside or outside the TPZ any pruning must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.
- All services and pits must be routed outside the TPZ's of the trees. If underground services must be routed within the TPZ, they must be installed by boring under the tree protection zone or installed using hydro excavation under the supervision of the project arborist. The direct drilling bore must be at least 600mm deep. The project arborist must be advised that the work is going to be carried out and present if roots larger than 20mm are to be cut or damaged. Any root pruning must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.
- Where roots are left exposed by excavations, temporary root protection must be installed to prevent them drying out. Jute mesh or hessian sheeting must be placed in multiple layers over exposed roots and the excavations soil profile to the full depth of the root zone. The protective sheeting is to be pegged down and kept moist during for the periods of time that the roots are left exposed. The watering regime and its duration to be established when root protection measures are installed and based upon the time of the year and soil moisture levels at the time by the consultant arborist.

- No persons, vehicles or machinery to enter TPZ without written consent of the responsible authority. No excavations, soil trenching, construction activity, grade changes, surface treatment or storage of materials permitted within the TPZ. No fuel, oil dumps, waste or chemicals are allowed in or are to be stored within TPZ and the servicing of equipment or vehicles should be carried out away from the TPZ. No temporary buildings or waste to be stored within the TPZ.
- The area within the TPZ must be mulched with organic woodchip mulch within the designated TPZ that is recommended to be protected. The mulch must be maintained to a depth of 50-100mm using material that complies with AS4454. Where the existing landscape within the TPZ is to remain unaltered (e.g. garden beds or turf) mulch may not be required.
- All weeds that grow during construction works within the designated protected TPZ must be removed by hand without soil disturbance or controlled with appropriate use of non-residual herbicide.
- **SCAFFOLDING:** Where scaffolding is required by the building contractor or sub-contractor or OH&S regulations it must be erected outside the TPZ. Where it is essential for scaffolding to be erected within the TPZ, the tree trunk and branched must be avoided. This can be achieved by designing scaffolding to avoid the tree trunk and branches.

Ground below the scaffolding must be protected by boarding (e.g. scaffold board or plywood sheeting). Where access is required, a board walk or other surface material must be installed to minimize soil compaction. Boarding must be placed over a layer of mulch and impervious sheeting to prevent soil contamination. The boarding must be left in place until the scaffolding is removed. Excavation required for the insertion of support posts for tree protection fencing must not involve the severance of any roots greater than 20 mm in diameter and must be carried out by the project Arborist, and they must be pruned with a final cut to undamaged wood. Pruning cuts must be made with a sharp secateurs, pruners, handsaw or chainsaw. Pruning cuts must NOT be treated with dressings or paints. No roots to be pruned with machinery such as backhoes or excavators.



- Removal of protection measures and cessation of the tree management plan must be authorized by the responsible authority.
- **LANDSCAPING WORKS:** Where the landscaping works enter the TPZ of the trees the changes to soil condition shall be avoided wherever possible. Where unavoidable in order to carry out approved works the maximum depth of excavations or fill to be 100mm within the TPZ of this tree. Any excavations or fill must be carried out manually within the TPZ of the tree. No roots larger than 20mm in diameter are to be cut and any root severance with the TPZ must be approved by the Responsible Authority and undertaken by the project Arborist to their satisfaction.  
Also, any holes for post or foundations for decks or retaining walls within the TPZ of this tree must be excavated manually and reposition around significant roots if required (tree roots with a diameter large than 20mm are significant roots) and the project arborist must be advised that the work is going to be carried out and present if roots are to be cut or damaged. No roots greater than 20mm in diameter are to be cut and any root severance with the TPZ must be approved by the Responsible Authority and undertaken by the project Arborist to their satisfaction.  
And any planting holes for new trees and shrubs must be excavated manually and reposition around significant roots if required (tree roots with a diameter large than 20mm are significant roots) and the project arborist must be advised that the work is going to be carried out and present if roots are to be cut or damaged. No roots greater than 20mm in diameter are to be cut and any root severance with the TPZ must be approved by the Responsible Authority and undertaken by the project Arborist to their satisfaction.  
The removal of any protective fencing to allow for landscaping works must be approved by the Responsible Authority and undertaken by the project Arborist to their satisfaction.

### 5.3 Time Table for monitoring of trees by project arborist

- **Demolition:** The trees recommended for retention will need to be monitored at the pre-construction stage which is prior to demolition works to ensure that the tree protection measures have been installed correctly by the responsible authority. The owner of the property is responsible for the installation and retention of the tree protection measures.
- **Pre-construction:** The trees recommended for retention will need to be monitored at the pre-construction stage which is prior to excavation works, and delivery of goods etc. occurring to ensure that the tree protection measures have been installed correctly by the responsible authority. The owner of the property is responsible for the installation and retention of the tree protection measures. **Any delivery's must be in truck no higher than 4m in height (including materials on the trunk) to ensure the branches of nature strip trees are not damaged by materials being delivered.**
- **Construction works:** The building site to be inspected a minimum of every 4 weeks by project arborist. The project arborist to be present during excavations with TPZ of trees to be retained and is to undertake any root severance within the TPZ of trees recommended to be retained. The Project arborist is to ensure that the tree protection measures have been installed correctly by the responsible authority. The owner of the property is responsible for the installation and retention of the tree protection measures.
- **Landscaping works:** The trees recommended for retention will need to be monitored at the pre-landscaping stage which is prior to excavation works, and delivery of goods etc to ensure that the tree protection measures have been installed correctly by the responsible authority. The owner of the property is responsible for the installation and retention of the tree protection measures. The project arborist may need to approve removal of protective measures to allow for landscaping works. Project arborist to supervise works with the TPZ.
- **Practical completion** These trees will need to be inspected by consulting arborist when all the construction works are completed to assess the condition of the trees and to certify that the completed works have been carried out in compliance with the permit condition and specifications for tree protection and to approve the removal of protective measures.
- **Post Construction/Final Certification:** Project arborist will confirm if all inspections carried out at all stages of construction works and attached copies of the inspection reports. They will comment if actions were required as part of inspections and if action required that it was rectified in accordance with tree management plan. That all works and recommendations were undertaken in accordance with tree management plan and that any alterations to the tree management plan were approved in writing by local responsible authority. They will provide a statement on condition of the retained trees and details of deviations from the tree protection management plan and the impact upon tree if any. A detail report maybe required if significant deviation form tree manamegtm plan or significant damage to trees.
- If any canopies, trunk or root system of trees recommended to be retained are damaged at any stage of construction this damage must be reported to the consulting arborist immediately. All works must stop around the tree immediately. The damage must be assessed by the consulting arborist. The responsible authority must be notified by the consulting arborist to establish the appropriate action to be taken.



## 6. Explanation of Terms

**Air Knife:** To reduce the damage to the root system of this tree it is recommended that the soil excavated for the services within the optimum tree protection zone of this tree is cleared away with an air knife. This will allow the roots to be exposed without damaging them. This work is to be carried out by a qualified Arborist to recommended Australian Arboricultural standards. Where possible the pipes for the services to the proposed units must be placed under the tree roots and tree roots may only be cut by a qualified Arborist.

### Age Class:

- Young 80% of life expectancy remaining
- Semi-Mature 60% of life expectancy remaining
- Mature 40% of life expectancy remaining
- Senescent 10% of life expectancy remaining
- Dead 0% of life expectancy remaining

**Bifurcated:** Bifurcations are where two or more stems arise near or at the same position on a trunk. As a result of these stems growing simultaneously they do not develop layers of supporting wood which is normally associated with branch development. This point of attachment is further weakened by included bark, which is the result of the bark of the internal faces of the stem becoming enclosed. There is also a risk of failure at this point due to the weight and leverage of these branches in relation to the strength of their attachment. This risk increases as this tree matures the branches spread, further increasing the stress on this point of attachment.

**Building up of soil:** The build-up of soil around the base of the tree will result in serious structural problems in the future. The building up of soil around the base of trees smothers the root system. Most of the trees woody transport roots and fine absorption roots, which absorb and transport water and nutrients are found in the top 150mm of soil. The loss of these roots will result in a decline in the health of the tree. The build-up of soil around the trunk of the tree also encourages diseases and causes the trunk of the tree to rot, resulting in an increased risk of structural failure.

**Central leader:** The main stem of the tree.

**Cracks in outer bark of trees:** the crack/splits due to irregular watering. The cracks/splits are a result of the trunk of the tree swelling as it takes up water after a period of drought. These crack/splits do not weakening the structure of the tree but deep cracks can create wounds that are vulnerable to decay and diseases.

**Crowded out by neighbouring trees:** As a result of this tree being crowded out by neighbouring trees there are few lateral branches. The lateral branches in the canopy of this tree concentrated at the top of the tree. An ideal branch distribution would centre the wind load acting on the tree at about two thirds of the total height. Ideally, one-half or more of the foliage should be on branches originating on the lower two-thirds of the trunk, and one-half or less should originate on the upper one-third. Pruning will not improve the shape or stability of this tree, nor will it reduce the potential of limb failure.

**D=** trunk diameter, in cm, measured above the root buttress.

**Dead tree:** This tree is dead, there is no foliage on this tree and the bark is starting to peel off the trunk and canopy limbs. The health of this tree will not recover. This tree has died due to old age and a lack of water.

**Deadwood:** Branch or stem bearing no live tissue

**Decay:** The process of degradation of woody tissue by fungi or bacteria through decomposition. The decomposition of woody tissue had an effect upon the health and structural integrity of trees.

**Decline due to old age:** The health of this tree is in decline due to the natural process of old age. Trees slow in growth as they approach maximum age, and become more vulnerable to disease and wind. The indicators that the health of a tree is in decline are the die back of the branches at the tips and the epicormic growth in the canopy.

**Dieback:** The progressive death of small branches generally from the tip of the branch to the base.

**DBH (Diameter at Breast Height):** The diameter of the trunk (DBH) of the tree is calculated at approximately 1.4 meters above ground level or calculated from the total stem area if the tree was multi-stemmed at that height.

**Epicormic growth:** Epicormic growth are shoots that arise from latent buds on mature branches. When a mature tree is stressed by drought, nutrient deficiency, old age, or disease, inside branches are exposed to more light due to the loss of foliage. Higher light intensity causes many low vigour epicormic shoots to sprout along the upper sides of the main branches to replace the loss of foliage and to increase photosynthesis. These epicormic shoots have a high risk of failure as they are only attached to the outside of the stem they grow from. As an epicormic shoot increases in size there is a high risk that it will fail at the point of attachment, as it is not strong enough to support its weight.

**Fungal Bract:** The fungal bracts are an indicator of fungal disease in the tree. Airborne fungal spores enter a tree through wounds and will have entered this tree through the wound in the trunk of the tree. Fungal diseases infect and decompose the heartwood in the centre of trees; they break down the cell walls and reduce the structural strength of the tree. The wood in the center of a tree trunk is not living tissue, so a tree continues to look and function normally until the disease is quite advanced. When you see bracts, the tree has probably been infected for several years. The fungi destroy the internal framework of the tree and in advanced stages, splits; cavities and cracks develop in the trunk and branches.

The number, location and size of the fungal bracts are indicative of the extent of fungal disease in the tree. The large number of the fungal bracts on this tree indicates that the disease is active. This disease has weakened the tree's structure; it will cause the failure of limbs, failure of the trunk of the tree at the point where the fungal bracts are located and it will eventually kill the tree. The health of this tree will decline in the future as a direct result of the fungal disease. There is a very high risk of limb and structural failure due to the fungal disease in trees and this poses an immediate threat to life and property.

**Genus/Species:** The identification of the tree is based upon visual characteristics and given that the key identifying features of a tree are not often available the accuracy of identification cannot be guaranteed. Where the species of any tree is not known, sp. is used.

**Height and Spread:** The height and crown spread were estimated from the ground level.

**Included Bark:** Pattern of development at branch junction where bark is turned inwards rather than pushed out.

**Location relevance:**

- **Landmark** Tree is a significant tree that forms a landmark for the surrounding area
- **Screen** Tree provides a screen for property or neighbouring properties

**Lopping:** The removal of the crown or several of the major canopy limbs. This method of pruning leaves large wounds exposed vulnerable to attack by decay fungus. It also promotes the growth of new shoots from epicormic buds. These new shoots have a high risk of failure as they are only attached to the outside of the stem they grow from. As a shoot increases in size there is a high risk that it will fail at the point of attachment, as it is not strong enough to support its weight.

**Native/Exotic:** Native. Original origin of that Genus/Species is Australia  
Exotic. Original origin of that Genus/Species is not Australia

**Noxious weed:** This tree is classified as a noxious weed due to its ability to self-seed prolifically and it's potential to displace indigenous vegetation.

**Root damage:** Tree roots cause movement in the soil as they take up water and nutrients; and this results in cracks and movement in structures. There are two types of damage trees may cause to property, namely direct (through physical contact) and indirect (subsidence). Direct damage is the result of pressure that may be exerted by a tree's roots or trunk. This pressure can affect lightly loaded structures such as garden walls, driveways and paved surfaces but rarely affect heavily loaded structures such as houses. And indirect damage that is the result of tree roots extracting moisture and nutrients from the soils and this results in subsidence and cracks appearing in the building.

**Retention Value:**

- **High Retention Value.** The tree must be retained and the design must accommodate its long term retention.
- **Medium Retention Value.** The tree may be retained if it does not hamper the design intent.
- **Low Retention Value.** The tree is recommended for removal.

**Soil Compaction:** Soil compaction is the loss of the large pore spaces within the soil. These pore spaces are essential for aeration, the exchange of gases between the soil air and the atmosphere and drainage, the removal of excess water from the soil. Soil compaction is caused by the stress forces applied by foot and vehicle traffic and the storage of materials. The degree of the soil compaction will depend upon the weight of vehicles, number of vehicles, soil moisture levels and clay content.

The loss of the pore spaces results in reduced aeration, loss of root growth, reduced infiltration of water, increased water run-off, reduced availability of plant nutrients and a reduction in the number and diversity of beneficial soil organisms. Damage to the root system of a tree can also result in the loss of structural woody roots, which will leave the tree unstable, reduce water and nutrient uptake which results in the eventual loss of leaves, reduced photosynthesis and thus sugar production. It may take many years for the health of the tree to decline and for the tree to eventually die from root damaged caused by soil compaction.

**Structure:**

- **Excellent** Tree has an excellent defined and balanced canopy. Good branch union with no defects visible. No defect visible in the trunk. Tree is considered to be an excellent example of that species.
- **Good** Tree has a well defined and balanced canopy. Good branch unions with little or no defects visible. Little or no defects visible in the trunk.
- **Fair** Tree has minor defaults in crown. Maybe unbalanced or some branch unions may show minor faults. Defects in trunk, bifurcated, leaning, wounds or decay.
- **Poor** Tree has significant faults with canopy or trunk. Poor branch unions with visible defects. Visible defects in trunk. The tree may have suffered significant root damage.

**Structural Root Zone:** The structural root zone (SRZ) is the area required for tree stability. The SRZ only needs to be calculated when encroachment of larger than 10 % is proposed into a TPZ. The radius of the SRZ is calculated for each tree by the formula.

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

D= trunk diameter, in m, measured above the root buttress.

**S.U.L.E (Safe Useful Life Expectancy);**

- **0 yrs** The tree is dead or almost dead and constitutes a hazard or has structural faults that poses a real threat to life and property.
- **5 yrs** The tree's health is in decline and unlikely to recover or has structural faults that poses a real threat to life and property.
- **5-15yrs** The health of the tree is likely to decline during the next 15 years. This may be due to it being a short lived species. It also may require high levels of maintenance after 15 years.
- **15-25 yrs** The health and structure of the tree are likely to decline in the next 15-25 years. This may be due to it being a short lived species. It also may require high levels of maintenance after 15 years.
- **25-50yrs** The health and structure of the tree are likely to still be in good condition in the next 25-50 years. It may require a moderated level of maintenance after 25 years.
- **>50yrs** The health and structure of the tree are likely to still be in good condition in the next 50 years. It may require a low level of maintenance after 50 years.

**Tree Protection Zone:** The tree protection zone (TPZ) is the principal means of protecting trees on development sites. The TPZ is a combination of the root area and the crown area requiring protection. It is an area isolated from construction disturbance, so that the tree remains viable. The TPZ incorporates the structural root zone (SRZ). The radius of the TPZ is calculated for each tree by multiplying its DBH x 12.

**Vigor/Health:**

- **Excellent** Crown full with full foliage density. Good new leaf and shoot growth with no dieback. Less than 30% deadwood. Tree is considered to be an excellent example of that species.
- **Good** Crown full with good foliage density. Average new leaf and shoot growth with little or no dieback. Less than 30% deadwood.
- **Fair** Crown foliage density below average. Less than average new leaf and shoot growth with minor dieback. More than 30% deadwood.
- **Poor** Poor new leaf and shoot growth. Extensive dieback and epicormic growth. Pathogens may be present. More than 30% deadwood.
- **Dead** Tree is dead.

**Windrow Tree:** Trees that have grown close together are largely protected from wind forces by adjacent trees. However, they must also compete for light, space, soil area, water and nutrients and unless evenly spaced some trees will outperform other adjacent trees and will suppress the weaker trees. Weak performing trees may grow asymmetrically, with poor stem taper, little canopy and lack a well-developed root system. It is also essential in situations where trees are growing in close proximity to one another and where their canopies and root systems are intertwined that they are removed at the same time. Also, removing just one tree or just several trees resulted in the remaining trees becoming vulnerable to failure as they are now exposed to the elements. Furthermore, as this tree is growing in close proximity to neighbouring trees that are to be retained and it is recommended that stump grinding is not undertaken as to avoid root damage to adjacent trees that are to be retained.

# Terms and Conditions

This Report has been prepared in accordance with and is provided subject to the Terms and Conditions hereinafter contained and/or endorsed

1. Reference in this Report to-  
“**The English Gardener**” or “**TEG**” means and includes all principals, partners or other proprietors, employees, agents, licensees, sub-contractors, consultants and representatives of The English Gardener  
“**the stipulated constraints**” means a ground level inspection conducted at the Location during day light hours subject to prevailing weather conditions on the day of inspection  
“**special activities**” means climbing, lifting, excavating or use of special equipment  
“**special equipment**” includes a cherry picker, ladder or other apparatus or appliance
2. This Report has been prepared specifically for the personal use and information of the Client. It is not intended for and is not to be relied upon by any third party who should independently verify any relevant aspect of the subject matter hereof. Possession of this report or a copy thereof does not imply right of publication or use of any purpose by anyone but the person to whom it is addressed, without the prior consent of the consultant. Neither all nor part of the contents of this report, nor any copy thereof, shall be used for any purpose by anyone but the person to whom it is address, without the written consent of the consultant, nor shall it be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the written consent of the consultant.
3. The Client warrants to TEG that –
  - 3.1. this Report has neither been commissioned and nor will it be used for or in connection with any legal proceedings and acknowledges that TEG is not compelled to attend or provide evidence before any Court or Tribunal in connection herewith and may rely on this warranty as a fundamental term and bar to any summons or subpoena being issued against or complied with by TEG.
  - 3.2. the Client is the owner or occupier and has a legal right or permission to authorize TEG’s entry upon the Location.
  - 3.3. Any legal description provided to the consultant is assumed to be correct. Any titles and ownership to any property assumed to be good. No responsibility is assumed for matters legal in character. It is assumed that nay property/project is not in violation of any codes, ordinances, statutes or other government regulation.
4. The English Gardener has in accordance with the stipulated constraints exercised due care and skill in conducting an inspection at the Location and preparing this Report. TEG will not and is not obliged in connection therewith to carry out any special activities but recommend the Client engages a specialist contractor where appropriate. Information contained in this report covers only those items that were examined and reflect the condition of those items at the time of inspection. The inspection is limited to visual examination of accessible components without dissection, excavation or probing. There is no warranty or guarantee, expressed or implied that the problems or deficiencies of the plants or property in question may not arise in future.
5. Care has been taken to obtain all information from reliable sources. All data has been verified in so far as possible; however the consultant can neither guarantee nor be responsible for the accuracy of the information provided by others.

6. Sketches, diagrams, graphs and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys.
7. Loss or alteration of any part of this report invalidates the entire report.
8. The Client acknowledges having been provided with a copy of both read and understood these Terms and Conditions prior to engaging the services of TEG.
9. TEG's terms of payment are (unless otherwise stated in writing) 7 days nett upon issue of Invoice. An administration charge of \$1.00 applies per day and accrues calendar monthly commencing 14 days from the date of TEG's invoice.

The English Gardener  
ABN 80 902 938 963  
3 Kelly Crt  
Kinglake West, 3757  
Mobile: 0411 962 365

## **Expertise to report**

### **Qualification & Experience**

- Advanced Certificate in Arboriculture
- Certificate in Horticulture
- 16 years experience in Arboriculture
- 4 years in private sector as a consultant Arborist
- 3 years at Daryl's Tree Care & Surgery, as a crew member and consulting Arborist
- 4 years at City of Banyule, as apprentice Gardener/Arborist
- 5 years at The Hurlingham Club, London, England, as Senior gardener

### **Expertise to report**

Australian Standards AS 4970, 1.4.4 Project Arborist

The person responsible for carrying out the tree assessment, report preparation, consultation with designer, specifying tree protection measures, monitoring and certification. The project arborist will be suitably experienced and competent in arboriculture, having acquired through training, qualifications (minimum Australian Qualification Framework (AQF) Level 5, Diploma of Horticulture (Arboriculture) and/or **equivalent experience, the knowledge and skills enabling that person to perform the tasks required by this standard.**

I have been a qualified Arborist for 17 years and have been writing tree reports for the past 10 Years. Therefore, I am qualified to write tree report to Australian standards As4970 based upon '**or equivalent experience, the knowledge and skills enabling that person to perform the tasks required by this standard.**'

The English Gardener  
ABN 80 902 938 963  
3 Kelly Crt  
Kinglake West, 3757  
Mobile: 0411 962 365