

TREE MANAGEMENT PLAN

Digital Signage Princess Highway Loftus

Princess Highway Yarrawarrah - Lot 2 DP1183944

INTRODUCTION

This Tree Management Plan (TMP) sets out general principles that must be followed when working within a Tree Protection Zone (TPZ). The purpose of this guidance is to demonstrate to Council that the tree protection issues have been properly considered and to provide a written record of how they will be implemented. This TMP must be kept onsite, and form part of the site-specific induction. All contractors and site workers must be briefed on these specifications prior to commencing work on-site. All individuals operating on site, and specifically those working within Tree Protection Zones (TPZ) must be supervised by the Project Arborist, and are expected to receive a comprehensive briefing based on this guidance.

What is a Tree Protection Zone (TPZ)?

A TPZ is the area surrounding trees where disturbance must be minimised if they are to be successfully retained. All TPZs close to the construction area are illustrated within this TMP. Damage to roots or degradation of the soil through compaction and/or excavation within TPZs is likely to cause serious damage. Any work or operations within a TPZ must be carried out with great care if trees are to be successfully retained. As described within Australian Standard 4970 'Protection of Trees on Development Sites 2009' (AS-4970). The TPZ is a combination of the root area and crown area requiring protection. A TPZ is calculated by multiplying the diameter at breast height by twelve (12). This result is a setback distance radially from the trunk. The TPZ is an area isolated from construction disturbance, so that the tree remains viable. In some cases, it may be possible to encroach into or make variations to the theoretical TPZ.

What is an encroachment into the TPZ?

A 'Minor Encroachment' is an encroachment that is less than <10% of the area of the TPZ and remains outside of the SRZ. The area lost to this encroachment should be compensated for elsewhere and be contiguous with the TPZ.

A 'Major Encroachment' is encroachment is greater than >10% of the TPZ or inside the SRZ. In this situation the project arborist must demonstrate that the tree would remain viable. This may require root investigation by non-destructive methods or the use of sensitive construction methods.

TPZ considerations.

- (a) The TPZ is not less than 2m nor greater than 15m (Except where crown protection is required).
- (b) The TPZ incorporates the structural root zone (SRZ).
- (c) The TPZ of palms, monocots, cycads, and tree ferns should be not less than 1m outside the crown projection.

What is a Structural Root Zone (SRZ).

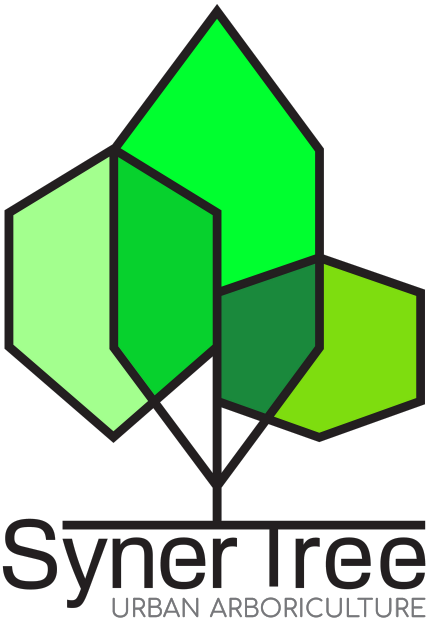
The SRZ is described in AS-4970 is the area around the base of a tree required for the tree's stability in the ground. A larger area is required to maintain a viable tree. Severance of structural roots within the SRZ must be avoided, as it may lead to the destabilisation and/or demise of the tree. The SRZ only needs to be calculated when a major encroachment into a TPZ is proposed. There are many factors that affect the size of the SRZ (e.g., tree height, crown area, soil type and soil moisture). The SRZ may also be influenced by natural or built structures, such as rocks and footings. An indicative SRZ radius can be determined from the trunk diameter measured immediately above the root buttress.

SRZ Considerations.

- (a) R(srz) is the structural root zone radius.
- (b) The SRZ for trees less than 0.15m diameter is 1.5m.
- (c) The SRZ formula does not apply to palms, other monocots, cycads, and tree ferns.
- (d) This does not apply to trees with an asymmetrical root plate.

Drawing List

- TMP-00 Cover Page
- TMP-01 Tree Survey (TreeAZ).
- TMP-02 Tree Schedule.
- TMP-03 Impact Appraisal.
- TMP-04 Tree Protection Plan.
- TMP-05 Tree Protection Method Statement.
- TMP-06 Tree Protection Specifications.
- TMP-07 Landscape Plan



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PROJECT

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CLIENT

J C Decaux Australia
Level 11, 189 George Street Sydney NSW 2000

DATE

26/03/2025

SCALE @ A3

N/A

DRAWING

Cover Page

DRAWING NO.

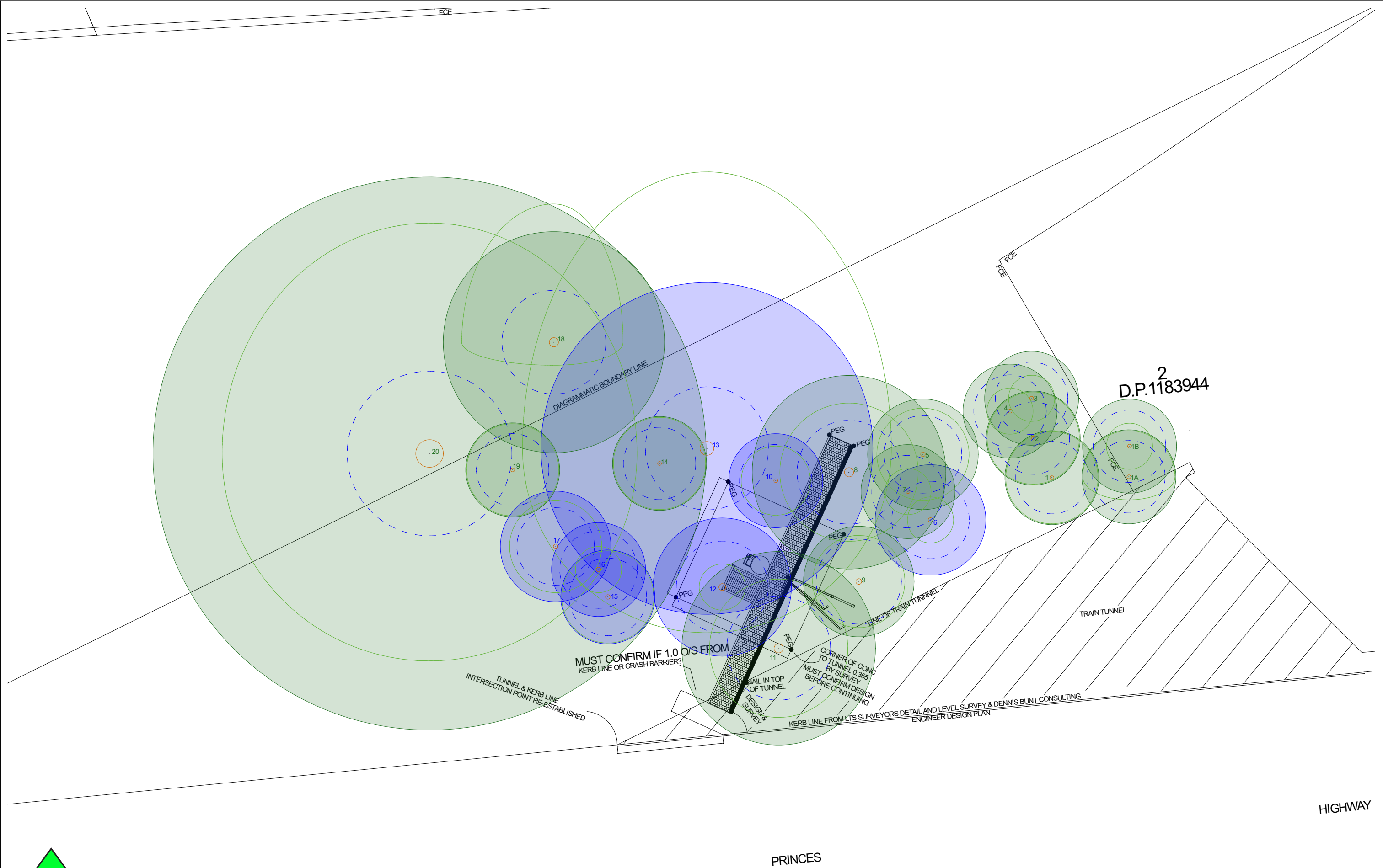
TMP-00

NORTH



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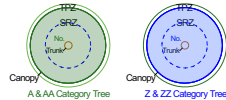


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LEGEND (TreeAZ)



NOTE (TreeAZ)

The TreeAZ method of assessing trees is a method of tree assessment that determines the retention value of trees in the planning process. Simplistically, trees assessed as potentially important are categorised as 'A' and those assessed as less important are categorised as 'Z'. In the context of a new development, all the 'Z' category trees are discounted as a material constraint in the layout design. All the 'A' category trees are potentially important, and they dictate the design constraints. This simple categorisation of trees is suitable for use by the Architect to optimise the retention of the best trees in the context of other material considerations. Further explanation of TreeAZ can be found in Appendix 2, and at www.treaz.com.

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1:150

DRAWING
Tree Survey

DRAWING NO.
TMP-01

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Tree No.	Genus Species (Common Name)	Stem DIA at Buttress	Trunk DIA (DBH)	Canopy (N,S,E,W)	Height (m)	Condition	Vigour	E.L.E	Age Class	SRZ	TPZ	Tree AZ Category	Arborist Notes	Encroachment %	Impact Assessment Result
1A	Homalanthus populifolius (Native poplar)	0.17	0.17	2,1,2,2	5-10	GOOD	GOOD	15>40	MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Specimen east of fenc growing against chain-link fence.	0.00%	Proposed to be removed for line of sight & construction Access.
1B	Eucalyptus botryoides (Bangalay)	0.17	0.17	1,1,1,1	5-10	GOOD	GOOD	15>40	SEMI MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Specimen east of fenc growing against chain-link fence.	0.00%	Proposed to be removed for line of sight & construction Access.
1	Allocasuarina torulosa (forest she-oak)	0.17	0.17	2,2,2,2	5-10	GOOD	GOOD	15>40	SEMI MATURE	1.6	2.0	A1 No significant defects and could be retained with minimal remedial care		0.00%	Proposed to be removed for line of sight & construction Access.
2	Eucalyptus botryoides (Bangalay)	0.17	0.17	2,2,2,2	5-10	GOOD	GOOD	15>40	SEMI MATURE	1.6	2.0	A1 No significant defects and could be retained with minimal remedial care		0.00%	Proposed to be removed for line of sight & construction Access.
3	Eucalyptus botryoides (Bangalay)	0.17	0.17	1,1,1,1	5-10	GOOD	GOOD	15>40	SEMI MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees		0.00%	Proposed to be removed for line of sight & construction Access.
4	Eucalyptus botryoides (Bangalay)	0.17	0.17	1,1,1,1	5-10	GOOD	GOOD	15>40	SEMI MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees		0.00%	Proposed to be removed for line of sight & construction Access.
5	Eucalyptus punctata (Large Fruited Grey Gum)	0.2	0.2	2,2,2,2	5-10	GOOD	GOOD	15>40	MATURE	1.7	2.4	A1 No significant defects and could be retained with minimal remedial care		0.00%	Proposed to be removed for line of sight & construction Access.
6	Eucalyptus species (Gum Tree)	0.2	0.2	1,1,1,1	5-10	DEAD	DEAD	DEAD	OVER MATURE	1.7	2.4	Z4 Dead, dying, diseased or declining	Tree has xpired, twigs still attached within crown.	0.00%	Proposed to be removed for line of sight & construction Access.
7	Toona ciliata (Red Cedar)	0.17	0.17	1,1,1,1	5-10	FAIR	GOOD	15>40	MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Codominant at base.	0.00%	Proposed to be removed for line of sight & construction Access.
8	Eucalyptus punctata (Large Fruited Grey Gum)	0.4	0.35	3,3,3,3	10-15	GOOD	GOOD	15>40	MATURE	2.3	4.2	A1 No significant defects and could be retained with minimal remedial care		31.70%	Within footprint of billboard.
9	Eucalyptus botryoides (Bangalay)	0.25	0.2	2,2,2,2	5-10	GOOD	GOOD	15>40	MATURE	1.8	2.4	A1 No significant defects and could be retained with minimal remedial care		13.80%	Within footprint of footing & billboard.
10	Percea americana (Avocado)	0.17	0.17	1.5,,15,,15,,15	5-10	GOOD	LOW	15>40	MATURE	1.6	2.0	Z3 Species that cannot be protected for other reasons, i.e. scheduled noxious weeds, out of character in a setting of acknowledged importance, etc	Leaf consistant with sharwill and Sheapard varities.	32.00%	Proposed to be removed, within footprint of footing & billboard.
11	Acacia longifolia (Sydney Golden Wattle)	0.4	0.35	3,3,3,3	<5	GOOD	GOOD	<1-15	MATURE	2.3	4.2	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Top of embankment, against tunnel wall.	34.90%	Proposed to be removed, within footprint of footing & billboard.
12	Pittosporum undulatum (Sweet Pittosporum)	0.3	0.25	1,1,1,1	<5	POOR	LOW	<1-15	OVER MATURE	2.0	3.0	Z4 Dead, dying, diseased or declining	5% live crown, specimen declining down to lower branches within crown.	65.10%	Proposed to be removed, within footprint of footing & billboard.
13	Eucalyptus botryoides (Bangalay)	0.6	0.6	12, 8,8,8	10-15	FAIR	GOOD	15>40	MATURE	2.7	7.2	Z4 Dead, dying, diseased or declining	The tree assessment identifies a co-dominant trunk with a compression fork and bark inclusion at its base. Habitat boxes are strategically positioned at 3m and 5m, while a habitat deadwood log is securely attached to the First Order Branch on the western side of the trunk. A significant wound on the northern dominant leader hosts multiple fungal brackets, characteristic of Fomitiporia robusta, a wood-decaying pathogen linked to white rot. These brackets, measuring between 40mm and 150mm in radius, are broadly attached to the heartwood at a height of 4-6m. Additionally, a 100mm diameter deadwood above contains a similar fungal bracket. Despite the lower compression fork, the upper crown appears unaffected by internal decay.	17.50%	Proposed to be removed, within footprint of footing & billboard.
14	Acacia longifolia (Sydney Golden Wattle)	0.17	0.17	2,2,2,2	<5	GOOD	GOOD	15>40	MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees		0.00%	Retain & Protect
15	Ligustrum lucidum (Broad-leafed Privet)	0.2	0.17	2,2,2,2	5-10	GOOD	GOOD	15>40	MATURE	1.7	2.0	Z3 Species that cannot be protected for other reasons, i.e. scheduled noxious weeds, out of character in a setting of acknowledged importance, etc	Scheduled noxious (NSW WEED Wise) weed, exempt under DCP.	0.00%	Retain & Protect
16	Pittosporum undulatum (Sweet Pittosporum)	0.2	0.17	1,1,1,1	<5	DEAD	DEAD	DEAD	OVER MATURE	1.7	2.0	Z4 Dead, dying, diseased or declining	Poor specimen, declining crown.	0.00%	Retain & Protect
17	Pittosporum undulatum (Sweet Pittosporum)	0.2	0.2	2,2,2,2	5-10	POOR	LOW	<1-15	OVER MATURE	1.7	2.4	Z4 Dead, dying, diseased or declining	Poor specimen, declining crown.	0.00%	Retain & Protect
18	Eucalyptus botryoides (Bangalay)	0.4	0.4	6,1,3,4	10-15	FAIR	GOOD	15>40	MATURE	2.3	4.8	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Crown form suppressed by Tree 20.	0.00%	Retain & Protect
19	Pittosporum undulatum (Sweet Pittosporum)	0.17	0.17	2,2,2,2	<5	FAIR	LOW	<1-15	OVER MATURE	1.6	2.0	A2 Minor defects that could be addressed by remedial care and/or work to adjacent trees	Poor specimen, declining crown.	0.00%	Retain & Protect
20	Eucalyptus botryoides (Bangalay)	1.2	1	10,9,9,9	10-15	GOOD	GOOD	15>40	MATURE	3.6	12.0	A1 No significant defects and could be retained with minimal remedial care	Dominant specimen of the site, unlike Tree 13, the specimen is free of disease with a good structure. Habitat boxes have been installed at 3m and 4m.	0.00%	Retain & Protect



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N/A

DRAWING

Tree Schedule

DRAWING NO.

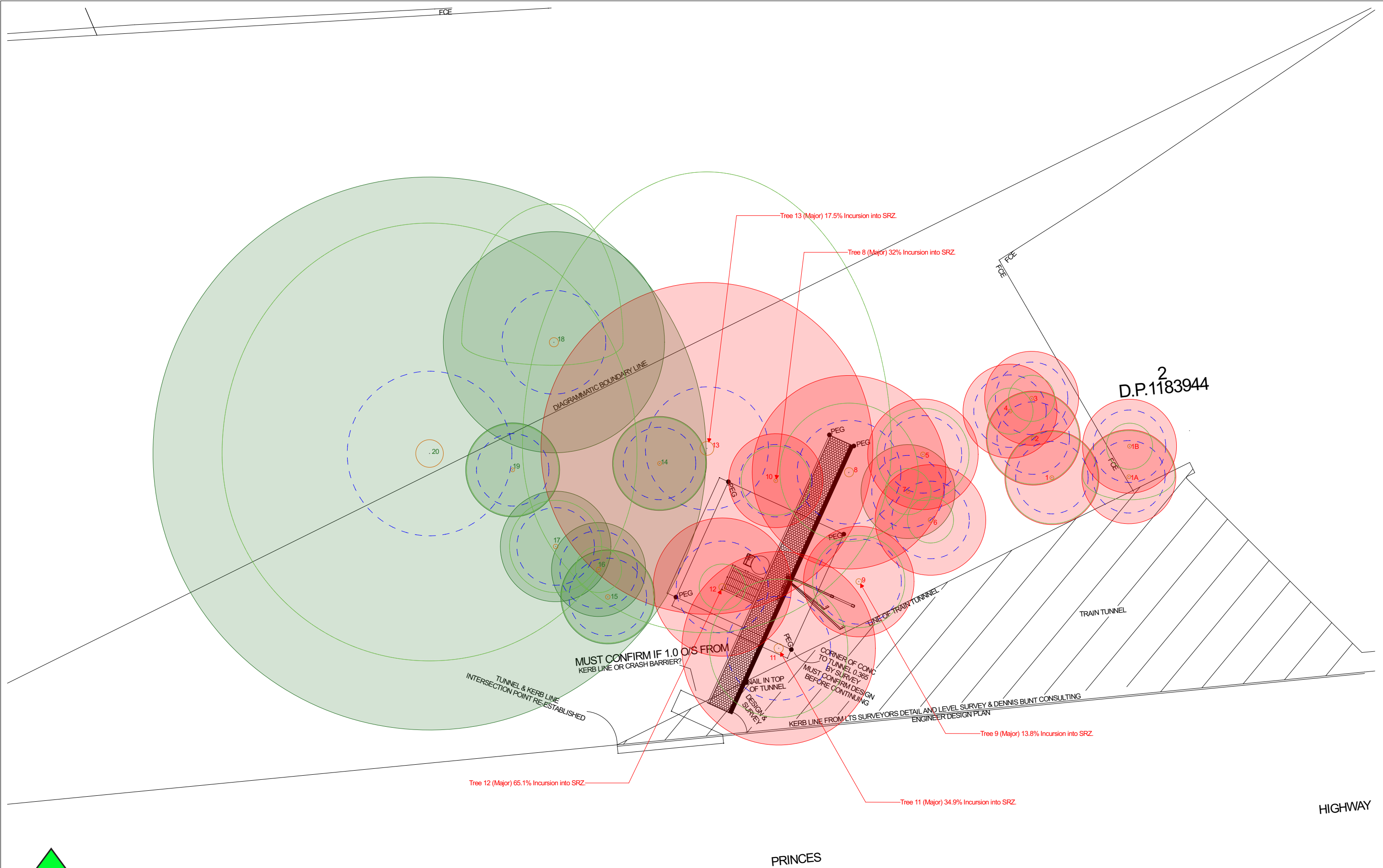
TMP-02

NORTH



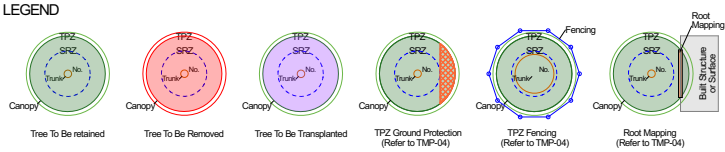
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DRAWING
Impact Appraisal

DRAWING NO.
TMP-03

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