

Lifestyle and opportunity @ your doorstep

ATTACHMENTS FOR: AGENDA NO. 15/12 Extraordinary Council Meeting

Meeting Date:	Tuesday 21 August 2012
Location:	Council Chambers, Level 6, Civic Centre, 1 Devlin Street, Ryde
Time:	7.30pm

ATTACHMENTS FOR EXTRAORDINARY COUNCIL MEETING

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Page

1 DEFERRED REPORT: DRAFT DEVELOPMENT CONTROL PLAN 2010 - PART 9.6 TREE PRESERVATION - SUBMISSIONS

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Issue - the maps of urban bushland corridors which support the document do not appear attached to the DCP

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ATTACHMENT 1

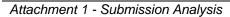
art 1: Submission Summary

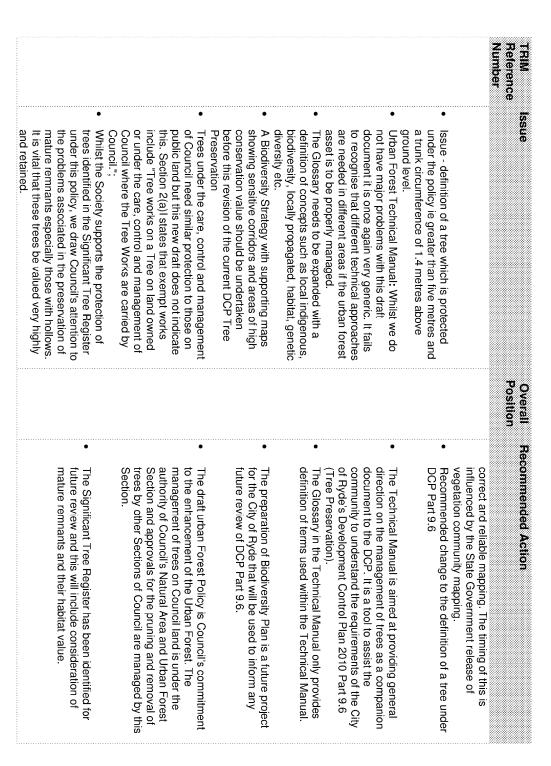
draft Urban Forest Policy Attachment One - Submission Table - Revised DCP 2010 Part 9.6 Tree Preservation, Technical Manual and

Community Groups D12/32537 • What drives the need now to replace Part 9.6 when the Ryde LEP 2012, and presumably a revised DCP which will follow, have both not been finalized

Maintained a lengthy and complicated assessmen and approval processes that included a slow and inconsistent review process for tree management applications.

The current urban bushland mapping is inconsistent and does not fully encapsulate the extent of critical vegetation areas across the City. It is a priority that this mapping be updated and following this, a revision of the DCP can be made to ensure reference is made to





ATTACHMENT 1



ATTACHMENT 1

TRIM L Reference Number		D12/31562	• •	•	D12/31593	•
		The DCP does not cover noxious weeds.	 What defines a heritage tree? What is the scope of the Street Tree Masterplan? 	Will Council remove all trees that have been determined unsuitable?	What defines a heritage tree and has happens if a noxious weed is within a heritage area?	 Definition of a tree should be altered to be "where a tree has a height of 5m or a stem circumference of 450mm"
Overall Position		Neutral			Opposition	
Recommended Action	 Action: That the definition of a tree in the Development Control Plan Part 9.6 Tree Preservation be amended to: trees as defined in Part 10 Dictionary of DCP 2010 where the tree has a height of 5 metres <u>or</u> a stem circumference of 450mm at a height of 1.4 metres above ground level. This includes palm trees; and trees described as "major", "substantial" and "significant" in other Parts of DCP 2010. 	 Noxious weeds are defined and regulated under the NSW Noxious Weeds Act 1993. Their listing in the DCP is not required as they are exempt under State Legislation. 	 The DCP Part 9.6 does not define heritage trees, rather identifies the Heritage Conservations Areas as defined under the Local Environmental Plan. The preparation of the Street Tree Masterplan has recently commenced and the Masterplan will encompass the whole City and will be a precinct based Masterplan 	 Council is working towards a proactive tree management program where trees that are unsuitable will be removed and replaced with suitable species. Action: No further action required 	 The DCP Part 9.6 does not define heritage trees, rather identifies the Heritage Conservations Areas as defined under the Local Environmental Plan. Noxious weeds are managed under the NSW Noxious Weeds Act 1993 and approval to remove is not required. 	 Recommended change to the definition of a tree under DCP Part 9.6.



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ATTACHMENT 1

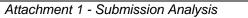
D12/31858 •	Others D12/39719 •		•	•	Number •	. Ç
Replace trees where ever possible	Suggested change to the definition of an Arborist to be based on qualification and not on membership to professional Associations.		The replacement tree may not reach maturity if it is not correctly planted or maintained i.e. if the tree was planted in the pot and not be able to reach maturity before if it was correctly planted and was removed after a period before it reached 3 metres in height and came under regulations.	to these categories of trees" The words "exempt Works" for these noxious plants is confusing.	Exempt works wording should be modified from "approval from Council is not required to carry out Tree Works etc" and lists various categories which are protected. We believe it should indicate that "no tree works can be carried out	
Support	Neutral					Position
Action:	Action: That the <i>Technical Manual</i> be amended to define and Arborist as: <i>Australian Qualification Framework level 5 or</i> <i>equivalent in Horticulture (Arboriculture).</i>	 Action: That the definition of a tree in the Development Control Plan Part 9.6 Tree Preservation be amended to: trees as defined in Part 10 Dictionary of DCP 2010 where the tree has a height of 5 metres <u>or</u> a stem circumference of 450mm at a height of 1.4 metres above ground level. This includes palm trees; and trees described as "major", "substantial" and "significant" in other Parts of DCP 2010. 	 In replacement planting agreements, it is specified that the tree must be maintained until it reaches the height of a tree that is protected under the DCP. 	 Noxious weeds are defined and regulated under the NSW Noxious Weeds Act 1993. Their listing in the DCP is not required as they are exempt under State Legislation 	 All tree works that are not covered by the Exempt Controls require approval prior to undertaking any tree works. I 	



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I HIM I Reference Number	 Supporter of the Significant tree Register 	Overall Position	Recommended Action No further action required
•	 Supporter of the Significant tree Register 		No further action required
D12/31309	 Concern the Policy does not adequately respect the community's right to manage their own trees. 	Opposition	 The DCP togther with the other Urban Forest Management documents reinforces the Council position that the City's Urban Forest must be sustainability managed and the DCP controls are just one approach to ensuring that the removal of trees within the City is considered and controlled.
• •	 Concerns with the concept that a tree that is 5 metre is no longer the owners properly and permission is needed to do anything to the tree or risk a penalty. The original planter of the tree should be able to do what ever they want to the tree without penalty. 		 A tree located on private property remains under the ownership of the property owner and the purpose of the DCP's controls is to ensure in the preservation of trees greater than 5 metres in height. This suggestion is impractical as Council cannot retain records on who planted trees on private land.
•	 The Policy will only encourage smaller trees and bushes to be planted. 		• The Urban Forest Policy is focussed on planting the right tree in the right place and in many circumstances this will result in planting smaller trees. However, trees of all sizes contribute to the Urban Forest and the community is encouraged to plant suitable trees in their private gardens.
			Action: No further action required
D12/32372 •	 Section 2- Exempt works; the following are exempt works should be included for clarity and 	Neutral	Recommended change to the DCP
	consistency with other exempt works noted in the draft document. "Works required under the provisions of Section 48 of the Electricity Supply Act 1995".		Action: Include the following under Exempt Tree Works required under the prov the Electricity Supply Act 1995
D12/32463 •	 Comments on the DCP That the following paragraph be REMOVED from proposed (DCP) Section 2.0 a. ii: This exemption does not apply to a Tree on 	Opposition	 Residents can only apply of conduct tree works on trees located on their land.



•	D12/32516 •		• 0	•	Reference Number
and birds. The Council should respond quickly to reports of trees that have been trimmed or removed by residents in case they have been removed without a permit from the Council. Council	I think that strict guidelines should be given to people who have a development proposal next to or within two streets of bushland areas (eg Field of Mars) as to trees that are NOT suitable to be planted in these areas. There is a danger that seeds from invasive plants such as palms will be carried into these sensitive areas by bats		 Comments on the Policy The policy needs to be made more balanced by recognising that trees in some circumstances may need to be pruned (or in a few cases removed) for other reasons such as: damage, or potential to cause damage to sewer pipes, driveways etc, due to position; b) causing extreme and excessive shading. (i.e. such shade as would be disallowed if a proposed building or building extension would cause it). 	adjoining land. The Tree and the dwelling house or other structure referred to above must both be on the same land for the exemption to apply. To add an exemption for minor pruning, carried out by or with the consent of the property owner, which does not threaten the health or safety of the tree, of no more than 5% of the tree canopy, of branches no more than 150mm in diameter.	
	Neutral				Position
 Council will become increasingly proactive in the actioning of breeches of the DCP 	 The Technical Manual provides additional guidelines on how to protect trees on development sites. This is additional information that was not previously provided in the management of the Urban Forest. Also included in the Technical Manual is a listing of undesirable tree species. 	Action: No further action required	• The assessment for the pruning of removal of a tree considers many factors that include the following – safety, environmental factors (such as habitat value, species), landscape amenity factors (such as privacy, noise abatements), health of the tree (such as pest and disease infestations), structural condition of the tree, safety and damage considerations.	 This approach would be very difficult and costly to administer. 	







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ATTACHMENT 1

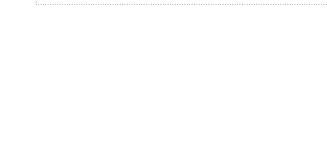
 	• I the dev	• The see fau	• I w an) ext ent	• I w in t cor nat cor	TRIM Issue Reference Number
	tunds for bush regeneration work to be done in the Ryde Council area. I think the Council should ensure that more trees should be preserved on sites where a development is to occur	intentions presented in the Urban Forest Policy. There are a number of small parks that have only one or two trees in them. I would like to see the Council planting a lot more native trees so provide shade for the people who use those areas as well as providing a safe area for native fauna.	number of councils in the Sydney area. I would not like to see ANY trees removed for any project related to capital improvements. For example, I understand that the Council is considering the removal of trees from the entrance to the Field of Mars so a carpark can be constructed. I believe this is contrary to the	people who have removed trees from their property without a permit. I would like to see more suitable trees planted in the streetscape that will not be butchered by tree-trimming contractors for the power supply companies. These trees should be indigenous to the area so they can provide a haven for native birds and animals. Maybe the Council could encourage planting in the verges for community gardens, as has been done in a	
					Overall Position
Action: No furth	•	•	•	•	Rec
Action: No further action required	The Technical Manual provides additional guidelines on how to protect trees on development sites. This is additional information that was not previously provided in the management of the Urban Forest	Council has an annual park and street tree planting program that includes the planting of trees in parks.	The removal or pruning of trees as a part of capital projects may be necessary. Replacement planting is mandatory under the Urban Forest Policy.	A Street Tree Masterplan is currently being prepared for the City that will guide the species selection and positioning of street tree. Considerations in the development of the Masterplan include corridors, environmental conditions (such as wind, water, soils etc) and urban infrastructure (such as wires, pipes, roads, pathways etc).	Recommended Action



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D19/307// - D00	D12/32786 • Endt			mat	 Anot replation 	• "An in ar publ priva requ	 Tree trees whe privation 	TRIM Issue Reference Number
Recommendation 1: Attempt to review value of participation effort during as well as after the	Endorsement of the Ryde Hunters Hill Flora and Fauna Preservation Society Submission			mature trees.	a list supplied. Another point is that Council requires that replacement trees must be grown to NATSPEC	"An inappropriate tree species or a tree growing in an unsuitable location on either private or public land can create problems in the urban environment" We would like to comment on private land i.e. the suburban garden. Council requires that replacement trees be chosen from	Tree Protection "The City of Ryde will manage trees throughout the City irrespective of whether they are located in streets, parks or private properties" What does "manage" mean in relation to private properties?	
Neutral	Opposition							Overall Position
•	•	Ţ	(Actio That (•	•	•	Re
Observations and recommendations on the public	Please refer to the assessment of the Ryde Hunters Hill Flora and Fauna Preservation Society Submission (D12/32537)	That Section 6.4 of <i>Technical Manual</i> be amended to state: <i>The City of Ryde recommends that tree stock</i> <i>planted within the City should comply with the</i> <i>NATSPEC document Specifying Trees – A guide to</i> <i>assessment of tree quality by Ross Clark (2003).</i>	The City of Ryde recognises the importance of trees in the urban environment and for that reason it will manage and or regulate trees throughout the City irrespective of whether they are located in streets, parks or on private properties.	Action: That Section 1.0 of the Urban Forest Policy be amended to state.	Comment noted and modification to the Technical Manual recommended (see below)	No reference is made to a Council specific list for replacement planting in the Urban Forest Policy. For guidelines on species section, go to Section 2.0 of the Policy.	Comment noted and modification to the Urban Forest Policy recommended (see below)	Recommended Action



		-	TRIM Reference Number
 Recommendation 5: Employ Australian- compatible version of i-Tree Eco application, introduced at the 2011 ISA Conference in Parramatta. Investigate and support plans for further development. (Information available on <i>i-Tree Newsletter</i> - February 2012) 	 Recommendation 4: Explore means of prevention rather than after-the-fact prosecution for tree damage. 	 Recommendations 2-3: Be mindful that Council has the same right as private citizens to submit objections and/or suggest improvements to a State Government proposal. To some degree worthy of exploration, this right applies to even a project designated as State Significant Development. Prepare for situations entailing damage at Bundara and numerous other Ryde locations where Government activity is likely to exert an adverse impact on trees and other threatened flora and fauna. For example, facilitate active involvement in liaison activities during constructions. In most cases, the lead proponents of a project actively look for ways to demonstrate cooperation with the local community. There is no reason to be afraid of giving constructive criticism and practical advice. 	Issue
			Overall Position
 Council will be embarking on an audit of the City's Urban Forest that will include measuring the canopy. I-Tree is one of many software applications that can assist Council with this project. 	• Enforcement of the DCP is a vital component to the realisation of the objectives of DCP Part 9.6. As a key step in the implementation of the DCP, the Natural Areas and Urban Forest Section will have delegated responsibilities to warn and fine people who are not complying with the controls of the DCP.	 The management of open space with the City is guided by the Integrated Open Space Plan and the role of DCP Part 9.6 is to outline the provisions for the preservation and management of trees within the City of Ryde. 	Recommended Action

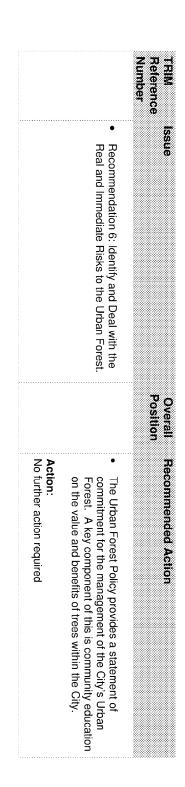
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ATTACHMENT 1





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City of Ryde

Tree Preservation

Part 9.6

ITEM 1 (continued)



Development Control Plan 2010



FOR ADOPTION



9.6

ATTACHMENT 2

Tree Preservation

Translation

Part

ENGLESH

B you do not understand this document places come to Byde Gois Centre, 1 Devin Street, Ryde Monday to Friday & Stance on 4.34 Man and ask an interpreter to contact the City of Byde for you on 8852 8222.

ARABIC

إذا تمغر عليك فهم محتميان هذه للوشفة، يرجو للحضور إلى مركز بلعبة وام المراجعة Devin Greez, Rygle 1، المحولة Devin Greez, Rygle 6 من الاتي إلى الجمعة بين الساعة 30 8 صباحاً والساعة 4.0 مد الطهر، أو الاتمال يمكنه خدمان الترجمة على الرقم 131 14 اكن عامل من أحد المترجمين الاتمال بمجاس مدينة رايد، على الرقم 2028 1329 ميابة صاد

ARIMENIAM

երծ տար գրութիշնը չէր հատկատը, ինայինք եկերք Բուրը Սիվիթ Անդոր, 1 Տեղվի վաղութ, Բապե, իծրու Շատ, Շատ, 1 Սշնա Suest, Յրուշ Դրվոշությվեն Ռերոսչուլների, Տեշտեսյի 8:30 – կե ժաղորհանութնան Ապատավարչնանք 131.450, եւ ինայիչիր ալ բայունանը, ո՞ր Գայր Թուրաստերարիսինի հետ իսայի հաղորում, ձեպի համար, հետածույնելով՝ 8952.6322 դիս/ծ

CHINEGE

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te non capite il preservic «youmento, siete pregati di rivolger» il Ryde Chris Centre al x, 1 di Devlin Street, Ryde, dalle 8.30 ille 16.30, dal Pined al venerdi; oppure potete chianare i falaphone Translation and Interpreting Service al 131 450 e hisdore all'Asservate di contattare a vostro nome il Municipio di Syde preservi il 2462 65.2

KOPEAN,

FARS

이 문서가 주손 의대인지 모르십 중 주에는 1 Devin Sireet, Ryde 이 있는 Ryde C* ~ Centre 로 오시가(~) ~일 ~ 금, 오전 8:30 -으 ~ 4:30), 관계 13: 460 번으로 전화 등에서비스에 연락하셔서 등에서 약가 이렇게 대신 Ryde 시청에 전화 9362 8222 번으로 연락은 부탁 이십시오.

Amend. No.	Date approved	Effective date	Subject of amendment
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ITEM 1 (con	tinued)		ATTACHMENT 2					
1	Part Tree Preservation	Contents	9.6					
Conte	nts							
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Development Control Plan 2010

FOR ADOPTION



ATTACHMENT 2

1.0 Introduction

1.0 INTRODUCTION

1.1 Preservation of the Urban Forest

Individually and collectively, trees have environmental, economic and social value. The benefits of trees include amenity, visual quality, enhanced streetscape, native fauna habitat, soil conservation, enhanced microclimatic conditions, solar access control and improved air quality. Collectively all the individual trees form the Urban Forest canopy of the City of Ryde. This Urban Forest is a combination of street trees, park trees (including bushland) and trees on private property.

Effective management of trees as a natural resource and as part of the urban infrastructure of the City of Ryde depends upon the long term retention of existing trees, appropriate tree maintenance, protection of trees on development sites, and in relation to replacement trees, suitable tree location and considered species selection.

1.2 Land to which this Part applies

This Part applies to all lands within the City Of Ryde.

1.3 Purpose of this Part

This Part outlines the provisions for the preservation and management of trees within the City of Ryde.

1.4 Objectives of this Part

The objectives of this Part are:

- 1. To maximise a sustainable Urban Forest canopy across the City of Ryde.
- 2. To conserve trees of ecological, heritage, aesthetic and cultural significance.
- 3. To protect and manage individual trees as an important community asset.
- 4. To establish the procedural framework and requirements governing the pruning, removal and subsequent replacement of trees within the City of Ryde.
- 5. To ensure all new development considers existing trees on the development site and provides opportunity for the healthy growth of large trees.

1.5 How to use this Part

- 1. This Part is to be read in conjunction with:
 - The City of Ryde Urban Forest Technical Manual (**Technical Manual**) and Application Guide (**Guide**) which provide instructions on:
 - i. requirements for arboriculture and other technical reports;
 - ii. technical arboricultural information;
 - iii. requirements as to the protection of trees on development sites;
 - iv. how to make an application under this Part; and
 - v. dealing with trees on adjoining properties.

Development Control Plan 2010

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ATTACHMENT 2

1.0 Introduction

Both documents can be viewed at: (insert weblink)

- Clause 5.9 Preservation of Trees or Vegetation of the City of Ryde Local Environment Plan 2010 (LEP 2010).
- 2. The controls in this Part, to the extent of any inconsistency in relation to trees, take precedence over the controls in other Parts of the City of Ryde Development Control Plan 2010 (**DCP 2010**).
- All references to Acts, Regulations, Codes, Australian Standards, Plans, policies, the Technical Manual and the Guide are to those documents as amended from time to time.
- 4. This Part has 4 sections:
 - Section 1 Introduction
 - Section 2 Exempt Works
 - Explains which Tree Works do not require a permit or Development Application approval.
 - Section 3 Tree Permits
 - Explains which Tree Works require a Tree Permit and sets out the controls for these works.
 - Section 4 Development Applications
 - Explains when a Development Application must be submitted and approved under this Part and sets out the controls for these Development Applications.

1.6 Meaning of words

. In this Part:

Crown means the portion of the tree consisting of branches and leaves and any part of the stem from which branches arise.

Deadwood means dead branches within the crown of a tree.

Stem means the part of the tree which supports branches, leaves, flowers and fruit and is also called "the trunk".

Tree means:

- a. trees as defined in Part 10 Dictionary of DCP 2010 where the tree has a height of 5 metres or a stem circumference of 450mm at a height of 1.4 metres above ground level. This includes palm trees; and
- b. trees described as "major", "substantial" and "significant" in other Parts of DCP 2010.

Tree Protection Zone means a specified area above and below ground calculated in accordance with AS 4970 - 2009 *Protection of trees on development sites* and is a radial distance from the centre of the stem set aside for the protection of a tree's roots and crown to provide for the viability and stability of the tree. Refer to section 3 of the Technical Manual for TPZ calculation guidelines.

Tree Works means:

a. any pruning of the crown of a Tree (except for deadwood in accordance with Section 2 of this Part);

b. any removal of a Tree;

c. any pruning or removal of roots (greater than 40mm in diameter) from a Tree inside it's Tree Protection Zone; and/or

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ATTACHMENT 2

 any alteration (excavation or fill) to the soil level within the Tree Protection Zone of a Tree on the land or on adjoining land.

Urban Forest means all trees and vegetation (both naturally occurring and planted) that occur within or near urban areas.

2. Where the meaning of a term is not set out in Section 1.6 (1) above, the term will have the same meaning as set out (in order of precedence) in Part 10 Dictionary, LEP 2010, and the Environmental Planning and Assessment Act 1979 (EP&A Act) and Regulations.

1.7 Application of Australian Standards

All pruning work must be carried out in accordance with Australian Standard 4373 - 2007 *Pruning of amenity trees.*

The provisions of Australian Standard 4970 – 2009 *Protection of trees on development sites* must be fully complied with on all development sites upon which trees are located.

The Technical Manual sets out how these Australian Standards must be applied.

1.8 Enforcement

1. The following activities are prohibited: ringbarking, cutting down, topping, lopping, removing, injuring or wilfully destroying any Tree without a Tree Permit or Development Application approval issued by Council in accordance with this Part.

Note: A person will "injure" a tree if they damage the tree including (but not limited to) by:

- poisoning, applying herbicides or other toxic chemicals to a tree, spilling chemicals, washing off or directing water contaminated by chemicals (eg. oil, petroleum, paint, cement or mortar) within the Tree Protection Zone;
- tearing, breaking or snapping off the stem, branches and roots;
- damaging the root zone by compaction, excavation, filling and stockpiling materials within the Tree Protection Zone;
- wounding the stem with machinery (eg lawn mowers), fixing objects (eg. signs) to the stem or branches by nails, staples or wire, using tree climbing spikes in healthy trees to be retained (except for access to an injured tree worker), fastening materials around the stem or branches that circle and restrict the normal vascular function of the stem or branches.

2. Failure to comply with this Part is a breach of section 126 of the EP&A Act for which pecuniary penalties apply. The court dealing with the offence may, in addition to or in substitution for any pecuniary penalty, direct a person to plant new trees and vegetation, maintain those trees and vegetation to mature growth, and provide security for the performance of that obligation.

Development Control Plan 2010

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ATTACHMENT 2

2.0 Exempt Works

2.0 EXEMPT WORKS

Introduction

This section explains when approval from Council (either by Tree Permit or by Development Application) is **not** required to carry out Tree Works including the removal or pruning of a Tree.

This section does not apply to any Tree which:

- is listed on the City of Ryde Significant Tree Register;
- is or is located on a site classified as being part of a vulnerable, threatened or endangered ecological community or provides or has the potential to provide habitat for native fauna or fauna classified as vulnerable or threatened under the *Threatened Species Conservation Act 1995* (NSW) or the *Environmental Protection and Biodiversity Conservation Act 1999* (Cth);
- is or forms part of a heritage item; or
- is within one of the five heritage conservation areas within the City of Ryde.

Trees classified as being part of a vulnerable, threatened or endangered ecological community within the City of Ryde include the following tree species: Turpentine (*Syncarpia glomulifera*), Grey Gum (*Eucalyptus punctata*), Grey Ironbark (*Eucalyptus paniculata*), Thin-leaved Stringybark (*Eucalyptus eugenioides*), Sydney Blue Gum (*Eucalyptus saligna*), Blackbutt (*Eucalyptus pilularis*), Forest Oak (*Allocasuarina torulosa*) and Sydney Red Gum (*Angophora costata*). To identify if any of these classifications apply to your Tree please view: (insert weblink).

To identify if your Tree or land has heritage significance please view: (insert weblink).

Controls

- a. The following are exempt works:
 - i. Removal of deadwood provided the work is carried out in accordance with Australian Standard 4373 – 2007 *Pruning of amenity trees* and NSW WorkCover *Code of Practice: Amenity Tree Industry 1998.*
 - ii. Tree Works on a Tree where the stem of the Tree at ground level is within 3 metres of:
 - the outside enclosing wall of a legally constructed dwelling or outbuilding of over 20 square metres;
 - the outside edge of the footings of a carport; and/or
 - the outside edge of the coping of a legally constructed swimming pool.

This exemption does **not** apply to a Tree on adjoining land. The Tree and the dwelling house or other structure referred to above must both be on the same land for the exemption to apply.

Note: The term "legally constructed" means built in compliance with environmental and planning legislation and instruments in force within the City of Ryde at the time of construction.

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- iii. Tree Works on a Tree on land owned or under the care, control and management of Council where the Tree Works are carried out by Council.
- iv. Tree Works carried out on a Tree by the State Emergency Service or Rural Fire Service in response to an emergency or severe natural event.
- v. Tree Works on a Tree on land owned by the Macquarie University or the State Government.
- vi. Tree Works required under the provisions of Section 48 of the Electricity Supply Act 1995".
- vii. Tree Works on any Tree on the following list:

Botanical Name	Common Name
Ailanthus altissima	Tree of Heaven
Alnus jorulensis	Evergreen Alder
Arecastrum romanzoffianum (syn. Syagrus romanzoffianum)	Cocos Palm
Bambusa spp.	Rhizomatous Bamboo
Cinnamomum camphora	Camphor Laurel
Erythrina crista-galli	Cockscomb Coral Tree
Erythrina x sykesii	Indian Coral Tree
Ficus benjamina	Weeping Fig
Ficus elastica	Rubber tree
Lagunaria patersonii	Norfolk Island Hibiscus
Ligustrum lucidum	Broad leaf Privet
Ligustrum sinense	Narrow leaf Privet
Nerium oleander	Oleander
Olea europaea africana	African Olive
Populus spp.	Poplars
Salix spp.	Willows
Schefflera actinophylla	Umbrella tree
Tamarix aphylla	Athel tree
Toxicodendron spp.	Rhus tree

All edible fruit and nut trees except *Acmena* spp. (Lilly Pilly), *Syzygium* spp. (Lilly Pilly), *Elaeocarpus* spp. (Blueberry Ash) or *Macadamia* spp. (Macadamia Tree).

Development Control Plan 2010

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ATTACHMENT 2

3. Tree Permits

3.0 TREE PERMITS

Introduction

This section explains when a Tree Permit is required to carry out Tree Works. Trees on private land are critical to the Urban Forest within the City of Ryde and accordingly Council wishes to preserve and protect these trees.

If you are applying for a Complying Development Certificate under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 you need to obtain a Tree Permit to carry out any Tree Works to a Tree on your land.

If a Development Application has been approved for the removal of a Tree, a Tree Permit is not required for that Tree.

Controls

- a. A Tree Permit must be obtained before any Tree Works are carried out on a Tree other than works requiring a Development Application under Section 4 of this Part. An arboricultural report, and other reports and information may be required to be submitted as part of the Tree Permit assessment process. Requirements for arboricultural reports are set out in section 4 of the Technical Manual.
- b. A Tree Permit must be obtained for any pruning: a) of the crown of a Tree, (including deadwood) and / or b) pruning or removal of roots (greater than 40mm in diameter) from a Tree inside its Tree Protection Zone that is or forms part of a heritage item or is within one of the five heritage conservations areas within the City of Ryde.
- c. All Tree Works must be carried out in accordance with the NSW WorkCover *Code of Practice: Amenity Tree Industry 1998* and, in relation to pruning, Section 5 of the Technical Manual.
- d. Trees removed as a consequence of approval by a Tree Permit must be replaced, in accordance with section 6 of the Technical Manual, to effectively maintain the Urban Forest canopy.

Note: If a Tree is considered to be:

- dead;
- dying; or
- posing an imminent risk to human life or property,

a Tree Permit Application is required to be submitted to Council for the removal of that Tree.

If Council is satisfied that the tree is dead, dying or posing an imminent risk to human life or property, it will issue a letter confirming that the Tree is exempt from the requirement for a Tree Permit and Tree Works may be undertaken.

Note: If you want to remove a Tree which is is or forms part of a heritage item or is within one of the five heritage conservations areas within the City of Ryde you must apply for a Development Application under Section 4 of this Part

FOR ADOPTION



ATTACHMENT 2

4.0 Development Applications

4.0 DEVELOPMENT APPLICATIONS

Introduction

The City of Ryde contains a number of areas with heritage significance. On land within these areas, Development Application approval must be obtained before carrying out Tree Works on any Tree regardless of whether any other development is proposed for that land. This section explains when Development Application approval under this Part must be obtained.

Requirements relating to Trees on development sites are set out in section 2 of the Technical Manual.

Controls

- a. A Development Application approval must be obtained before any removal of a Tree if either the Tree or the site upon which the Tree is located:
 - is or forms part of a heritage item. Heritage items are identified in Schedule 5 of LEP 2010 and are shown on the Heritage Map (Insert weblink)
 - is within one of the five heritage conservation areas within the City of Ryde. You
 can check whether your property is within one of these areas by looking at the
 Heritage Map (Insert weblink)
- b. Trees removed as a consequence of Development Application approval must be replaced, in accordance with section 6 of the Technical Manual, to effectively maintain the Urban Forest canopy.

Development Control Plan 2010



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ATTACHMENT 3

ITEM 1 (continued)



Urban Forest Technical Manual

A tool to assist the Ryde community to understand the requirements for the protection of trees within the City of Ryde.



City of Ryde

Lifestyle and opportunity @ your doorstep





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SINENI CONTROL	F	
NAME	ISSUE DATE	PURPOSE
9	20 February 2012	Council Report
BLIC EXHIBITION	8 March 2012	For Public Exhibition
OPTION	15 June 2012	For Adoption

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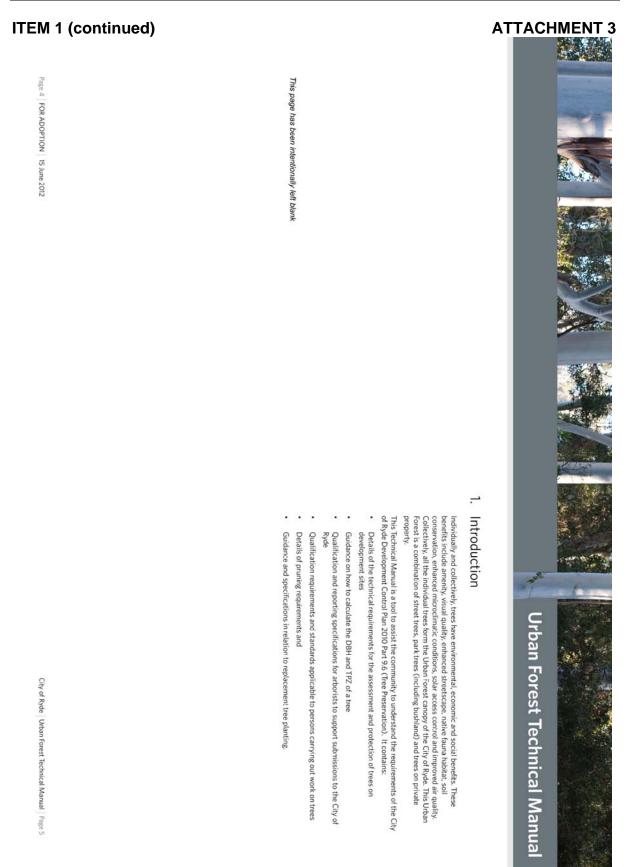
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design



neritage and environmental value of each tree. Step 2: Assess the landscape significance of the tree. This is calculated by considering the amenity

Step 3: Consider sustainability and landscape significance together to determine the retention

value

therefore not considered to be a constraint on development medium retention value should be considered for retention. Both must be considered as constraints on development. Trees given a low or very low retention value can usually be removed and are Trees shall be categorised as having a high, medium, low or very low retention value. The City of Ryde considers trees with a high retention value as a priority for retention on a site and trees with a

2.3 Design for the retention of trees

All developments should be designed to enable the preservation and the long term ongoing viability of trees categorised as having a high or medium retention value. Alternative design options shall be considered prior to recommending tree removal including (but not limited to) the following:

- altering the building footprint ;
- altering the development layout; and/or
- altering hard surface design and the extent of hard surfacing, and using permeable materials

2.4 Tree sensitive construction techniques

Construction techniques which avoid or minimise the adverse impact of the development on trees should be used in all developments within the City of Ryde. These include (but are not limited to).

- Pier and beam footings;
- Localised pier footings;
- Cantilevered building sections; Suspended slabs;
- Screw piles; and
- Contiguous piling.

Replacement planting

2.5

to be planted. Section 6 below applies to all replacement planting. If trees on the development site cannot be retained, the City of Ryde shall require replacement trees

2.6 **Tree protection measures**

Standard 4970 - 2009 Protection of trees on development sites. The Tree Protection Zone shall be calculated in accordance with section 3 and not be less than that area. All tree protection measures must be in place prior to the excavation or earthworks) and before any machinery or materials Tree protection on all development sites within the City of Ryde must comply with Australian of constr are taken onto the site. demolition,

Page 8 FOR ADOPTION 15 June 2012

> tree protection measures shall then be removed All tree protection measures must be maintained in good condition during the construction works and kept in place until the completion of works or as otherwise advised by the Project Arborist. All

Details of requirements relating to Project Arborists are set out in section 4.

The following tree protection measures are mandatory on all development sites within the City:

Each Tree Protection Zone shall: shall be secure and fastened to prevent movement. The fencing shall have a lockable opening for access. Roots greater than 40mm in diameter shall not be pruned, damaged be enclosed by a 1.8m high fully supported chainmesh protective fencing. The fencing

or destroyed during the installation or maintenance of the fencing.

- of the Project Arborist. Signs shall be attached facing outwards in prominent positions at 10 metre intervals or closer where the fence changes direction. The signs shall be be moved, altered or removed without the approval of the Project Arborist; Each sign shall be a minimum size of 600mm x 500mm and the name and contact details have a minimum of two signs that include the words "Tree Protection Zone - Keep Out" The fencing shall not
- be kept free of weeds and, except where the existing surface is grass, grass. Weeds shall be removed by hand; and visible within the site;
- unless the existing surface is grass, have mulch installed and maintained to a depth of 75mm.
- N Where the Project Arborist determines that tree protection fencing cannot be installed, (as approved and supervised by the Project Arborist) Protection Zone is necessary or where work will be carried out within the Tree Protection Zone tree protection fencing needs to be removed temporarily, access within or through the Tree , the
- the stem and branches of trees to be retained shall be protected, as follows:
- two layers of carpet underlay (or other padding approved by the Project Arborist) shall be installed around the stem and branches. Stem protection shall cover the stem from ground level; and
- stem or branch, secured together with galvanised wire or strapping. Boards shall or branch shall be positioned over the padding and next to each other around the hardwood or treated pine timbers (100mm x 50mm) the same length as the stem secured to the tree not be nailed or screwed into the stem or branch. No part of the protection shall be
- of 75mm and then placing boarding (scaffolding board, plywood sheeting or similar material) on top. The geotextile fabric and mulch shall be kept clear of tree stems by at geotextile fabric on the ground surface, covering this with a layer of mulch to a depth The ground surface within the Tree Protection Zone shall be protected by placing east 50mm

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- The following activities shall not be carried out within any Tree Protection Zone:
- disposal of chemicals and liquids (including concrete and mortar slurry, solvents, paint fuel or oil);
- stockpiling, storage or mixing of materials;
- refueling, parking, storing, washing and repairing tools, equipment, machinery and vehicles;
- disposal of building materials and waste;
- The following activities shall not be carried out within any Tree Protection Zone unless under the supervision of the Project Arborist:
- increasing or decreasing soil levels (including cut and fill);
- soil cultivation, excavation or trenching;
- placing offices or sheds;
- erection of scaffolding or hoardings; and/or
- any other act that may adversely affect the vitality or structural condition of the tree.
- All work undertaken within or above a Tree Protection Zone shall be supervised by the Project Arborist.
- Excavation within the Tree Protection Zone of any tree to be retained shall:

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- a. be undertaken using non-destructive methods (eg. an Airspade or by hand) to ensure no roots greater than 40mm in diameter are damaged, pruned or removed. All care shall be taken to preserve and avoid damaging roots;
- not occur within the Structural Root Zone.
- The City of Ryde shall only give approval for minor pruning works. All pruning works shall be specified by the Project Arborist. All pruning shall be carried out in accordance with section 5 and by an arborist qualified in accordance with section 4.
- Written approval from the City of Ryde shall be obtained prior to removing or pruning any street tree. All street trees not approved for removal shall be protected in accordance with the tree protection measures set out above.

The City of Ryde may include additional tree protection requirements as conditions of Development Application approval.

2.7 Arboricultural reports

If any part of the proposed development will encroach into the Tree Protection Zone of any Tree or the site, on adjoining land or any street tree, the City of Ryde may require an arboricultural report to be submitted as part of the Development Application process. The City of Ryde Planning and Environment team shall specify the type of arboricultural report required and any issues they wish to be addressed in the report. The requirements for arboricultural reports are set out in section 4.

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Effects of development on Trees

All parts of a tree may be damaged by development, as follows:

- Crown damage: Leaf area can be lost through pruning or from mechanical damage caused by construction machinery. Poor pruning techniques can cause wounds that are susceptible to infection by wood decay organisms. Damage to foliage reduces the level of photosynthesis, production of sugars, and consequently the tree's ability to withstand stress and respond to wounds.
- Trunk damage: Mechanical damage from construction machinery causes wounds which lead to decay. Damage may also interfere with the transport of water, sugar and nutrients throughout the tree reducing the tree's ability to function normally.
- 3. Root damage: The roots of a tree can be 4 to 7 times larger than the crown area and most roots are found in the top of the soil. Roots can be damaged or severed, the soil compacted, root space lost, soil levels changed (eg. by stripping the soil surface, excavation and cut and fill), soil hydrology altered and surface, sealed. Damage to roots may lead to a loss of tree stability, reduction in water and nutrient uptake adversely affecting tree vitality, and decay as a result of wounding.

These take years to grow but can be injured or killed in a very short time. It is usually not possible to repair trees stressed or injured through construction damage. The ability of all trees to tolerate construction impacts depends on a number of factors:

- Tree age, health and vigour. Healthy, vigorous trees are better able than non-vigorous trees to tolerate adverse impacts because they have more energy reserves to recover from injury. In general, mature and over-mature trees are less able to tolerate construction impacts and adapt to environmental changes than young or semi-mature trees.
- 2. Tree species. Some species of tree are more tolerant of site changes than others.
- The cumulative impact of construction throughout the construction process. Mature trees on a site may have already been affected by past construction activities (eg. excavation, compaction and fill when the original building work was carried out).

Trees may respond to construction impacts in a variety of ways. Common symptoms of tree stress from construction injury are slower growth, smaller leaves and poor foliage colour, thin foliage, wilting, twig and branch dieback, decay at wounds caused by mechanical damage, attack by stressrelated pests such as borers and tree death.



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3.4 Encroachment into a Tree Protection Zone

must be determined by the Project Arborist who should consider the factors listed in clause 3.3.4 of AS 4970-2009 Protection of trees on development sites. If the encroachment is outside the Structural Root Zone of the tree, the City of Ryde will generally not require detailed root compensated for elsewhere and contiguous with the Tree Protection Zone Such encroachments than 10% of the area of the Tree Protection Zone area are generally considered minor and may be however the Clty of Ryde recognises that this is sometimes unavoidable. Encroachments of less Encroachment (eg. excavation, trenching or fill) of the Tree Protection Zone should be avoided

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nvestigation to be carried out.

occur, advice shall be sought from the Project Arborist who must determine if the tree will remain viable. The area lost to the encroachment must be compensated for elsewhere and contiguous with is required (refer to section 4 for Project Arborist qualification requirements and responsibilities). the Tree Protection Zone. The Project Arborist shall determine whether detailed root investigation generally considered to be major. If this, or an encroachment into the Structural Root Zone will Encroachment into the Tree Protection Zone greater than 10% into the Tree Protection Zone is

to be changed to satisfy the requirements of AS 4970-2009 Protection of trees on development may be conditioned as part of a Development Application approval or Tree Permit sites. Tree sensitive design and construction options can reduce the impact of encroachment and Depending on the site constraints and the tree's tolerance for root loss, the development may need

3.5 How to calculate a Tree Protection Zone

Figures 3.1 and 3.2 illustrate how to calculate the Tree Protection Zone

If you are unsure whether you have calculated the Tree Protection Zone correctly, you can use Tree Protection Zone Calculator on the City of Ryde website at www.ryde.nsw.gov.au If you input your measurements into the calculator it will calculate the Tree Protection Zone for you.

REES WITH ONE STEM The circumference of a tree stem

Figure 3.1

Calculating a Tree Protection Zone (TPZ)

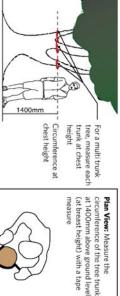
STEP 1 Calculating the circumference of a tree stem

height. tree, measure the trunk at chest chest height Circumference at For a single trunk is the length around it.

tightly. The tape should be wrapped around the stem at 1.4 calculated by wrapping a flexible The circumference can be metres above ground level tape measure around the stem

1400mm

metres above ground level. The formula for calculating the TPZ of trees with multiple stems is complex. Because of this, you should input your measurements into the TPZ Calculator on the City of Ryde website and it will calculate the TPZ for you. The TPZ Calculator can be viewed at TREES WITH MORE THAN ONE STEM Where a tree has more than one stem, a measurement should be taken on each stem at 1.4 /ww.ryde.nsw.gov.au.

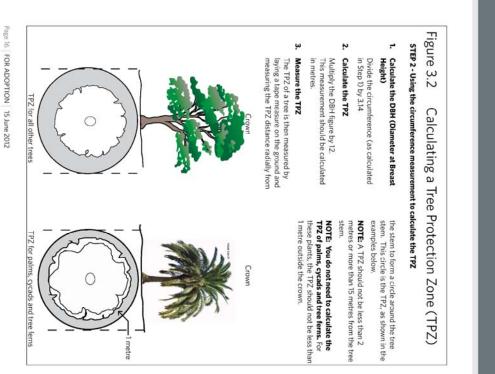


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4 Arborists

4.1 Qualifications

Tree work is technical and inherently dangerous. Therefore it is important that appropriately qualified people are hired to carry out this work. Table 4.1 sets out the qualification requirements for arborists within the City of Ryde.

Table 4.1	Arborist Qualification Requirements	n Requirements
TASK /	TASK / ACTIVITY	MINIMUM QUALIFICATIONS
Assess and carr	Assess and carry out tree pruning	Australian Qualification Framework level 3 or equivalent in Horticulture (Arboriculture).
		Registered as a member of either: Tree Contractors Association Australia
		Arboriculture Australia
All tree assessment and report preparation including:	ient and report uding:	Australian Qualification Framework level 5 or equivalent in Horticulture (Arboriculture).
Tree health a	Tree health and condition assessment	
Tree retention	Tree retention value assessment	
 Arboricultura 	Arboricultural impact assessment	
Tree protection plan	on plan	
 Root mapping 	50	
 Testing with a 	Testing with a sonic tomograph	
 Testing with rechnology 	Testing with resistance drilling technology	
Project Arborist development	Project Arborist in relation to all development	Australian Qualification Framework level 5 or equivalent in Horticulture (Arboriculture).

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4.2 Suitably qualified arborists

Qualified and industry approved arborists can be found by contacting the following organisations:

- Tree Contractors Association Australia
- Web: http://www.tcaa.com.au Telephone: 1300 660 379
- Institute for Australian Consulting Arboriculturists
- Web: http://www.iaca.org.au
- Telephone 1300853 288
- Arboriculture Australia

Web: http://arboriculture.org.au Telephone: 1300 664 374 Before you employ an arborist you should check that they are qualified to carry out the work (in

accordance with Table 4.1) and insured to carry out the type of work proposed. Note: You must obtain a Tree Permit or Development Application approval before you carry out all non exempt Tree Works within the City of Ryde. If you employ a person or company to carry

al non exempt i ree Works within the Lity of Kyde. It you employ a person or company to company to company to conout Tee Works without prior approval you will be in breach of section 126 of the Environmental Planning and Assessment Act (1979) for which pecuniary penalties apply. The City of Ryde maissue penalty infringement notices.

4.3 Arboricultural Reports

Reports prepared by an arborist who does not hold the qualifications specified in Table 4.1 or reports that do not include the minimum information as specified in this Section will not be accepted.

When preparing an arboricultural report, the arborist must not act as an advocate for their client but instead has an overriding duty to assist the City of Ryde in making an impartial decision. All arboricultural reports must provide an objective, balanced assessment of the tree and must reflect the arborist's expert opinion.

The City of Ryde shall consider the level of detail and relevance of the information contained within an arboricultural report. The City of Ryde may:

- require further investigation to be carried out, for example aerial inspection or testing via a sonic tomograph or resistograph.
- disagree with the findings and/or recommendations in the report, and the report may form the basis for refusing an application for tree removal.

Pages 21-25 set out the minimum content requirements for all arboricultural reports. Reports submitted that do not comply with these requirements shall not be accepted.

The City of Ryde may require plans to be submitted in both hard copy and AutoCAD dwg. format.

.4 Project Arborist

A Project Arborist is an arborist appointed by a property owner or development applicant to monitor the vitality and condition throughout the construction process of all trees being retained on the land, and any trees on adjoining land and street trees where the development encroaches into

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the Tree Protection Zone of those trees. Project Arborists must have the qualifications set out in Table 4.1.

Throughout the construction process, the Project Arborist shall be responsible for:

- inspecting and assessing the trees
- supervising any work within the Tree Protection Zone of the trees
- specifying and supervising pruning works
- preparing reports required by the City of Ryde
- specifying and monitoring compliance with tree protection measures
- specifying and certifying remediation works
- providing written statements of compliance (certification) at specific milestones throughout the construction process in accordance with AS 4970 - 2009 Protection of trees on development sites.

The property owner or development applicant should employ the Project Arborist at the initial design stage of the development and prior to the commencement of any construction works (including demolition, excavation or earthworks). The same Project Arborist should be retained throughout the construction process to ensure a consistent approach in the protection and preservation of the trees.

The City of Ryde shall include monitoring and reporting requirements as conditions at development application approval and construction certificate stages.

The City of Ryde shall require the Project Arborist to be involved at pre-determined stages of the development process, as listed in Table 4.2. Reports prepared by the Project Arborist during the development process shall include (as a minimum) the following:

- details of the vitality and structural condition of all trees being retained and their growing environment
- details of any works undertaken within the Tree Protection Zone of each tree
- documentary evidence of compliance with tree protection measures (eg. photographs)
- details of proposed remedial works and the time frame for these works to be completed it:
- the vitality or structural condition of the tree or the growing environment has been adversely affected
- the tree has been damaged in any way
- any tree protection measures are non-compliant
- Confirmation (certification) that remedial works specified in previous reports have been completed.
 Any other information reasonably required by the City of Ryde in relation to the health and
- Any other information reasonably required by the City of Ryde in relation to the health and structural condition of trees being retained. Copies of monitoring documentation may be required

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ATTACHMENT 3

		-				Post-construction Completion of the delects liability period. The Project Arborist shall:	 Practical completion of all construction and landscape works. 	 Completion of building works 	 Works within the Tree Protection Zone of any tree on the site or on adjoining land or any street tree 	Erection of scaffolding	 Installation of footings and slabs 	Installation of services	milestones are typical triggers for the preparation of reports: Completion of site establishment 	Application approval and construction certificate documentation. The following	according to the size of site and size and complexity of the development.	Construction The Project Arborist shall submit reports to the City of Ryde regularly throughout the construction process. The number and timing of reports required will vary	specification.	measures are installed in compliance with the Tree Protection Plan and	Tree protection - the Project Arborist shall certify that all tree protection	 certify all tree pruning, removal and transplanting works on the completion of these works 	 specify all pruning works; and 	 mark all trees for pruning, retention, removal or transplanting on site and check these correspond with those shown on the relevant construction plans; 	Pre-construction Tree removal and pruning - the Project Arborist shall		STAGE OF THE POLE OF PROJECT APROPIST	Table 4.2 Development Stages	
 the stern, branches and foliage. Supporting evidence (eg. photographs and laboratory results). 	the stem, branches and foliage.	 A description of the health, condition and structure of each tree, addressing root system, 	 The arborist's observations and findings: 	e. an estimation of canopy spread to the four cardinal points.	 DBH - trunk diameter at 1.4 metres above ground level 	c. estimation of the height	b. age class	 a. the full botanical name (genus and species) and common name 	 A table showing, for each tree surveyed: 	 Trees on adjoining properties 5 metres or less from the site boundaries. 	 A brief description of any other vegetation on the site 	 The location of the all trees on the site with an individual number given to each tree 	The lot boundaries	 A survey plan of the site, to scale (with scale shown), accurately showing: 	 Methodology used in the inspection. 	The purpose of the report.	 The date(s) when the tree inspection was undertaken. 	 The address of the site where the tree(s) affected by the proposed development are located. 	 The name of the person or business who commissioned the report. 	 Disclosure by the arborist of any pecuniary or non pecuniary interests in the site or development. 	 The qualifications and industry experience of the arborist who prepared the report. 	 Ine name, business address and telephone number of the and/or business who inspected the tree(s) and prepared the report. 	All arboricultural reports submitted to the City of Ryde must include the following information:	MANDATORY REPORT REQUIREMENTS		Minimum content for Arboricultural Reports	

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removal of the tree.



Minimum content for Arboricultural Reports

- The estimated useful life expectancy and an analysis of the landscape amenity and significance of each tree to the site and locality.
- The retention value of each tree using appropriate industry methods (eg. SULE, Tree AZ, Stars or SRIV).
- Recommendations: These must be based on the observations made and any test results. Recommendations made to support a specific development outcome will not be considered. An explanation of why options are recommended or not recommended must be included.
- Sources of references referred to in the report. References not used in the report should not be included.

Root Mapping

Roots must be located and exposed using minimally destructive techniques (e.g. hand digging or Airspade) or non-destructive techniques (e.g. sonic tomograph). Machinery or tools such as mattocks and crow bars must not be used.

in addition to the mandatory report requirements, the report must contain the following information:

- a plan showing the location of all excavation lines including points of reference and orientation details
- a section plan of the excavation showing all material found within the excavated area
- photographs (including points of reference and orientation details)
- a schedule of findings for each individual excavation line including details of:
- total linear distance of the excavated line
- number of roots found
- linear distance along the excavation that roots are located
- depth at which roots were located
- condition of the roots diameter of the roots.

free Hazard Assessments

A tree hazard assessment may be required when an applicant considers a tree to be potentially azardous.

- In addition to the mandatory report requirements, the report must contain the following
- a description of any identified hazards (eg. the extent of decay or basal cavity)
- Page 22 FOR ADOPTION 15 June 2012

Minimum content for Arboricultural Reports

- details of the hazard rating system used
- the hazard rating under that system
- recommendations for hazard abatement. These must be based on the observations made. An explanation of why options are recommended or not recommended must be included.

esistograph Reports

addition to the mandatory report requirements, the report must contain the following formation:

- The reason why the resistograph assessment is being carried out (eg, testing for decay associated with a wound)
- The type of defect being tested for
- Drill depth and resonance setting
- The type or model of resistograph used
- The location of the drill test readings on the tree in relation to the defect
- The failure criteria applicable to the defect
- Photographs of the defect
- A clear copy of the resistograph charts resulting from the test, with the wood quality indicated on the charts by colour coding
- Plotted diagram of the decay
- Assessment as to whether the defect passes or fails the applicable failure criteria (including details of calculations made)
- Recommendations and the reasons for the recommendations

Aboricultural Impact Assessment Reports

Where development is being carried out on a site upon which trees are located or within the Tree Protection zone of a tree on adjoining land or a street tree, an Arboricultural Impact Assessment report may be required by the City of Ryde as part of the Development Application process.

In addition to the mandatory report requirements, the report shall contain the following information:

- Retention values for all trees.
- In accordance with Australian Standard 4970-2009 Protection of trees on development sites, for each tree on the site, and for each tree on adjoining land and street tree where the development will occur within the Tree Protection Zone of those trees.
- stem diameter measured above the root buttress
 recommended Tree Protection Zone (TPZ) and Structural Root Zone (SRZ)

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Minimum content for Arboricultural Reports

- percentage of encroachment into each TPZ and details of any encroachment into any SRZ
- proposed method used to excavate within the TPZ and SRZ.

Note: This information shall be clearly presented in table form

- An accurate and comprehensive assessment of the likely impact of the proposed development on each tree including;
- Details of the proposed development including but not limited to alterations to existing buildings, services, drainage and driveways, and proposed building footprints
- Details of above and below ground constraints on trees to be retained Details of any modifications to existing soli levels on the site (for example, cut, fill and
- The location of proposed sediment controls on the site

excavation)

- The impact of proposed landscape modifications.
- Recommendations as to design modifications and construction methods to minimize the
- adverse impact on trees that should be retained.
 Recommendations on protection measures to ensure the protection of the trees to be retained.
- Details of any pruning required for construction works and the proposed development, and a
- pruning specification setting out the:
- pruning type (classification) in accordance with AS 4373 2007 Pruning of amenity trees
- number of branches to be pruned
- branch orientation
- branch diameter, and
- approximate percentage of live canopy to be removed

Note: All pruning shall be carried out in accordance with section 5.

- A Tree Protection Plan (to scale, with scale shown) showing the TPZ and location and type
 of tree protection measures that will be erected or installed around each tree. This plan
 must include all trees being retained on the site, and trees on adjoining land and street trees
 if development will occur within the TPZ of these trees. The Plan shall include details of
 proceed protection measures thoughout the aprize davelopment and construction process
- proposed protection measures throughout the entire development and construction process (including during the demolition and excavation stages).
- A Tree Removal Plan showing all trees on site and clearly marking all trees proposed to be removed.

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nimum content for Arboricultural Reports

- A Landscape Plan showing:
- All trees that are proposed to be retained and transplanted on the site
- For all replacement tree plantings proposed
- a replacement plant schedule (showing the botanical and common names the expected mature height of the tree with the City of Ryde)
- tree stock specification in accordance with section 6.
- locations of proposed plantings.
- A post-construction tree establishment and maintenance programme. The City of Ryde requires a 52 week establishment and maintenance period and this period shall commence at practical completion.





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Recommend the pruning works only if the tree will not be adversely affected by the pruning

Determine whether pruning is required or not having regard to the criteria set out above.

The arborist must:

tree.

consideration of the impact of the pruning on the health, structure, amenity and stability of the



5.4 Pruning practices

Trees must be pruned to maintain their natural habit. The arborist must aim to remove the smallest possible amount of living tissue when pruning. Lopping, topping, lion's tailing, flush cutting, wound painting and wound filling must not be specified or undertaken within the City of Ryde. Tree pruning should not:

required to remove dead branches, provided the work is carried out:
 by a qualified arborist (in accordance with Table 4.1 in Section 4)

in accordance with:

- result in the premature death of the tree
- create a hazard
- be excessive or indiscriminate
- result in the overall crown shape becoming unbalanced or the tree unstable

All pruning tools must be sharp to ensure clean cuts will be made. Equipment that will wound, penetrate or bruise bark and conductive tissues (including spurs, spikes, hooks, chained platforms and lowering systems) must not be used on or in sections of trees to be retained. When pruning palms all pruning tools must be disinfected in between trees to avoid the spread of disease.

Roots to be pruned shall be located and exposed using minimally destructive techniques (eg. hand digging or by Air-spade) or non-destructive techniques (eg. sonic tomograph).

5.5 Pruning specifications

The City of Ryde's Urban Forest team or the Project Arborist shall specify the type (pruning class) and amount of pruning which may be carried out before any pruning work commences. All pruning shall be undertaken in accordance with these specifications and the provisions of this Section 5.

AS 4373 – 2007 *Pruning of amenity trees* sets out a number of pruning classes. Pruning may maintain or modify the crown of a tree. Crown maintenance does not reduce the volume of the crown and retains the structure and size of the tree. Crown modification changes the form and habit of the tree. The class specified by the Urban Forest team or Project Arborist will depend on the reason for pruning a tree. The specification shall include:

- For deadwooding, the minimum diameter and location of the branches to be removed (refer to the Note below)
- For crown thinning, the percentage of the crown to be removed, and maximum diameter and location of branches to be removed
- For selective pruning, the specific branches to be removed
- For formative pruning of young trees, the specific branches to be removed
- For reduction pruning, the extent of the crown or limb reduction
- For crown lifting, the clearances to be achieved, and the maximum diameter and location of the branches to be removed
- For remedial (restorative) pruning, specific details of pruning and number of pruning stages
- For pruning palms, specific parts (fronds and/or fruit) to be removed.

 Note: Written consent (by way of a Tree Permit or Development Application approval) is not

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vever, prior written approval to remove deadwood from a Tree must be obtained if the Tree

Australian Standard 4373-2007 Pruning of Amenity Trees NSW WorkCover Code of Practice: Amenity Tree Industry 1998.

is within one of the five heritage conservation areas within the City of Ryde.

is or forms part of a heritage item; or









- Desirable features of the tree, eg, weeping habit, flowering, bird attracting, drought tolerant, evergreen or deciduous, native or exotic. The City of Ryde considers both native and exotic trees to be valuable natural assets and does not advocate the planting of native trees only. Ir many urban situations, native trees do not grow as well as exotic species.
- The specific benefits to be achieved or problems to be avoided. Eg, planting a deciduous tree on the northern side of a dwelling house will provide shade to that part of the house in summer and allow light through in winter. Conversely planting a potentially large, evergreen tree to the north of solar panels will cause overshadowing which will adversely affect energy collection.

The mature size of a tree and what it looks like (habit/shape) will vary depending on where it has been planted (soil and climate conditions) and how much care it has received. However, in general, a good way of finding out how big a tree will grow and what it will look like when mature is to look at mature specimens within the City of Ryde. For example in parks, nearby gardens and street trees.

Trees listed in Table 6.1 are considered undesirable and should not be planted within the City

Table 6.1 Undesirable Tree Species

BOTANICAL NAME	COMMON NAME
Ailanthus altissima	Tree of Heaven
Ainus jorulensis	Evergreen Alder
Arecastrum romanzoffianum (syn. Syagrus romanzoffianum)	Cocos Palm
Bambusa spp.	Rhizomatous Bamboo
Cinnamomum camphora	Camphor Laurel
Erythrina x sykesii	Indian Coral Tree
Erythrina crista-galli	Cockscomb Coral Tree
Ficus benjamina	Weeping Fig
Ficus elastica	Rubber Tree
Lagunaria patersonii	Norfolk Island Hibiscus
Ligustrum lucidum	Broad Leaf Privet
Ligustrum sinense	Narrow Leaf Privet
Nerium ofeander	Oleander
Olea europaea africana	African Olive
Populus spp	Poplars
Salix spp.	Willows
Schefflera actinophylla	Umbrella Tree
Tamarix aphylla	Athel Tree

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6.4

Choosing good quality plants

Choosing good quality stock is as important as choosing suitable species, planting location, correct planting and maintenance of the tree. The selection of a good quality plant is essential for the long term success of the tree. In particular, a well developed and well formed root system is critical to the long term health and viability of a tree.

Poor plant selection can cause early death, poor growth, poor vitality and poor form. Most root defects cannot be corrected. A tree with above ground defects will need remedial care. Eg. poor form will need to be corrected by formative punning by an arborist whilst the tree is young or establishing. It is not economical in the long term to buy cheap plants if they are of poor quality.

The City of Ryde recommends that tree stock planted within the City should comply with the NATSPEC document Specifying Trees - A guide to assessment of tree quality by Ross Clark (2003)

The following guidelines are intended to help residents identify good quality stock at the plant nursery/garden centre. They are based on the NATSPEC document.

Tree stock should be assessed for overall balance between the size of the roots below ground and the crown above ground, and for both above ground and below ground characteristics, as follows and as shown in Figure 6.1:

- Balance between the size of the tree above the ground and the size of the rootball/continer. In general, large trees in small containers are likely to have root defects and will need a high level of maintenance (eg frequent watering) when planted. A tree with a moderately sized crown in proportion to the root system is likely to grow more vigorously when planted than a tree with large crown.
- Above ground:
- Does the tree look healthy?
- Is the tree free from pests and disease? Is the tree free from wounds or injury? Are there any recent pruning wounds? Select plants with no or very few wounds. All pruning wounds should be cleanly cut.
- Is the tree self supporting? A tree should be able to stand up without being staked. If the stem of the tree bends when the stake is removed, the tree is not self supporting and should be rejected.
- Does the stem of the tree taper? The circumference of the stem at the base of the tree should be larger than the circumference higher up the stem. This shows that the stem is strong. Often trees that have been staked do not have stem taper.
- Does the tree have a intact (unpruned) central stem?
- Is the crown of the tree symmetrical? Are there branches on all sides of the stem?
- Are all branches smaller in diameter than the stem? The diameter of each branch should be no more than half the diameter of the stem.

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ATTACHMENT 3



ITEM 1 (continued)

odendron

spp

Rhus Tree



- Are the junctions between the stem and branches convex (similar to a wide "U" shape)? Structural problems may occur on some trees if the space between the stem and branches forms a very narrow fork (similar to a narrow "V" shape).
- Is the stem of the tree approximately in the middle of the container?
- Below ground (these characteristics can only be seen if the plant is taken out of the container):
- Root growth should be symmetrical and roots should grow downwards.
- The outside of the rootball should be free of circling or large, sharply bent roots.
- There should be sufficient roots in the por so that when the tree is removed from the pot, the root mass will keep its shape. On shaking or handling the rootball outside of the pot most (at least 90%) of the soil should remain around the roots.
- The root crown (the uppermost roots emerging from the stem) should be at the surface
 of the rootball/potting mix.

The Urban Forest team, arborists and your local plant nursery/garden centre will be able to explain these characteristics to you and give you advice on how to select good quality trees.

6.5 Tree planting

Correctly planting a tree is a very simple process but an important one. Correctly handling the tree when planting, preparing the planting hole and caring for a tree after it has been planted will ensure the survival and optimal growth of the tree.

The best time to plant a tree is during autumn when the soli is still warm and the roots of the tree have time to grow before winter. Trees take up water through their roots. In general, trees require more water when they actively start to grow in spring and during hot summer months. Planting in autumn gives the tree more time to grow new roots and for roots to start growing into the surrounding soil before the increased demand for water starts. However container grown trees can be planted at any time of the year if they are properly cared for after planting.

Handling a tree

Trees should be kept in a sheltered and shady spot before being planted to keep them from wilting Care should be taken not to damage trees when moving them. If the tree must be lifted by its stem, the stem should be wrapped with soft padding (eg. carpet underlay or rubber) and only the padded part of the stem handled. If the tree is large, a soft sling should be placed under the rootaal rather than lifting the tree by its stem.

Watering

- The tree should be well watered a number of times during the planting process:
- prior to planting, whilst the tree is still in the container. The soil in the container should be moist when you plant the tree.
- immediately after planting by watering within the watering berm (see below). This will ensure
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the rootball of the plant receives the water and not the surrounding soil (refer to the Note below and Figure 6.2).

after laying mulch or, if mulch isn't immediately placed around the newly planted tree, both before and after laying the mulch.

The soil should be thoroughly wetted. It is better to give the plant a few long, thorough applications of water rather than a small amount of water frequently.

Note: When the tree is first planted all of its roots are contained inside the potting mix from the container. This is the tree's rootball at this time. The tree will not have any roots in the surrounding soil and therefore there is no need to water the surrounding soil at the time of planting.

Digging the planting hole

Before digging the planting hole, the location of underground services should be ascertained to avoid injury, and interruption or damage to services. The City of Ryde recommends contacting Dial Before you Dig on 100 before you carry out any excavation works. All excavation within 300mm of services should be carried out by hand.

Tree roots need oxygen and generally most fine absorbing roots of trees are to be found in the top 200-300mm of soil. The planting hole should be dug to a depth slightly less than the height of the rootball in the container so that when the tree is placed in the hole the top of the rootball sits up to 20mm above the top of the hole. This is because the weight of the tree will make the tree settle down in the hole over time and eventually the top of the rootball will be level with the top of the surrounding soil.

Root trimming

Root pruning may increase fine root growth within the root ball. Shaving or trimming off the very outermost edge (up to 20mm) of the rootball of a container grown tree will stimulate root division and growth. An increased root system will allow the tree to absorb more water and nutrients, and consequently the tree may establish more quickly. Root trimming can be done when the tree has been placed in the planting hole prior to backfilling.

Backfilling the hole

Backfill the planting hole in layers, gently tamp down the soil in each layer and lightly water to remove any air pockets. Fill the hole with soil and construct a berm (see below). There should be no soil placed over the top of the rootball because this buries the existing tree roots impacting on the tree's ability to absorb oxygen. Flacing soil over the rootball up to the trunk may also cause collar rot.

Constructing a berm

Form a mounded edge of soil approximately 60mm high on top of the rootball just inside the outermost edge of the rootball. This makes a shallow basin around the stem which prevents water run off to lower ground and allows the water to soak into the soil. The tree should be watered within this area until the tree is established.

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6.4.7 Staking

Good quality trees should not require staking.

6.4.8 Mulching

Applying organic mulch over the surface of the soil after planting is beneficial because it:

- adds organic matter (and nutrients) to the soil
- protects the soil surface
- reduces water run-off
- insulates the soil from temperature extremes and
- inhibits weed growth.

Mulch should be placed at an approximate maximum depth of approximately 50mm. If mulch is too deep it can have negative effects such as reducing the amount of surface water reaching the soil and roots. Mulch should be kept well clear of the tree trunk. Mulching up to the trunk may cause collar rot.

6.5 Care after planting

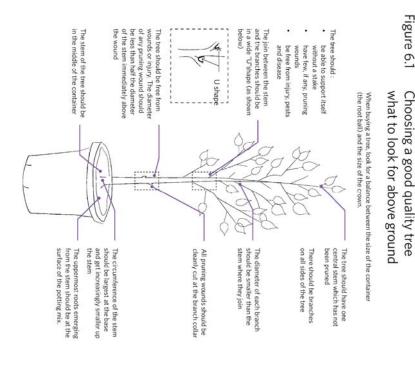
Trees may take up to two years to successfully establish. Care during this period will lead to healthy and vigorously growing trees. The following maintenance practices should be regularly carried out during the establishment period:

- Watering: Water both the rootball and the surrounding soil thoroughly
- Weeding: Remove weeds close to the tree (weeds compete with the tree for water and
- nutrients)
- Fertilising: To maintain healthy growth in accordance with the fertiliser manufacturer's application instructions
- Pest and disease control: inspect to monitor and protect the tree from pests and diseases
- Mulching: Replenish water to keep the mulch depth to approximately 50mm deep.

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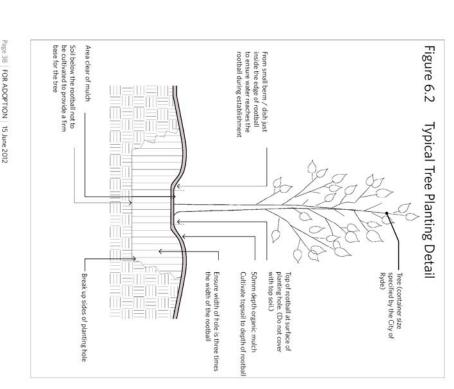
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.7

Urban Forest Technical Manua

References

Australian Standards:

AS 4373 - 2007- Pruning of amenity trees

AS 4970 - 2009 - Protection of trees on development sites

Clark, R 2003, Specifying Trees - A guide to assessment of tree quality, 2nd edn, Sydney NSW Tree supply standards:

Codes of practice:

NSW WorkCover Code of Practice: Amenity Tree Industry 1998

City of Ryde documents:

City of Ryde Local Environment Plan 2010

City of Ryde Development Control Plan 2010

Other references:

Newcastle NSW City of Newcastle 2010, The Newcastle Urban Forest Technical Manual, The City of Newcastle Council,

Harris, RW Clark, JR & Matheny, NP 2004, Arboriculture Integrated Management of Landscape Trees. Shrubs and Vines, 4th edn, Prentice Hall, New Jersey USA



8. Glossary

Branch collar means a swelling around the base of a branch containing defensive chemicals formed by overlapping stem and branch tissue. Crown means the portion of the tree consisting of branches and leaves and any part of the stem from which branches arise.

Crown lifting means the removal of the lower branches of a tree.

Crown thinning means the selective removal of branches that does not alter the overall size of the tree.

DBH means diameter at breast height at 1.4m above ground level.

Deadwooding means the removal of dead branches from a tree. Exotic means a plant introduced or not originating from Australia.

Tush cut means a cut that damages or removes the branch collar or removes the branch and stem issue and is inconsistent with branch attachment as indicated by the branch bark ridge.

Formative pruning means the pruning of young or establishing trees with the aim of directing growth and/or developing a sound structure.

Lion's tailing means the practice of removing branches from the interior of the crown leaving most of the foliage at the ends of branches. This may lead to structural hazards.

opping means the cutting branches or stems between branch unions or internodes.

Native means all plant species indigenous to Australia including all plant species locally indigenous to the City of Ryde.

roject Arborist means an arborist qualified in accordance with section 4.1 who is retained by a property owner or development applicant to carry out the responsibilities set out in section 4.4.

Reduction pruning means the removal of ends of branches to lower internal lateral branches or stems in order to reduce the height and/or spread of the tree.

Remedial (restorative) pruning means the removal of damaged, diseased or lopped branches back to undamaged tissue in order to induce the production of shoots from latent or adventitious buds, from which a new crown will be established.

Stem means the part of the tree which supports branches, leaves, flowers and fruit and is also called "the trunk".

Stuctural Root Zone (SRZ) means an area around the base of a tree required for the tree to be stable. The tree's woody roots and soil cohesion in this area are necessary to hold the tree upright It is a radial distance from the stem calculated in accordance with AS 4970 -2009 Protection of trees on development sites.

Topping means reducing the height of a tree by lopping

Tree Protection Zone (TPZ) means an area above and below ground calculated in accordance with AS 4970 -2009 Protection of trees on development sites. It is a radial distance from the stem set

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Urban Bushland means land designated as Urban Bushland within the City as shown on maps and in documents commissioned by the City of Ryde from time to time. aside for the protection of a tree's roots and crown to provide for the viability and stability of the

tree

ITEM 1 (continued)



ATTACHMENT 4

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Urban Forest Policy

Scope

The City of Ryde urban forest comprises all the trees within the City irrespective of whether the trees are in parks, bushland areas, along road verges and nature strips, or in private gardens.

Trees have many environmental, economic and social benefits. The urban forest is a community asset that needs to be planned for and managed as an important part of the City's public infrastructure system together with other parts of the built environment such as footpaths, roads and buildings. The urban forest should be managed and expanded.

One of the challenges identified in the Ryde 2021 Community Strategic Plan is to "plan and design a growing and liveable city through considered urban renewal and land use, while protecting and enhancing the natural assets ..." This Urban Forest Policy responds to that challenge by promoting a vision of the urban forest for the future and by setting out principles for the management of the urban forest within the City of Ryde.

Purpose

This policy will inform the manner in which the City of Ryde will manage its tree assets and work towards providing a sustainable approach to urban forest management. This policy reflects a shift in approach by the City of Ryde away from dealing with trees on an individual, ad-hoc basis to managing trees as a collective canopy. The aim of this policy is to reinforce the City of Ryde's commitment to the sustainable management of the Urban Forest through the following policy principles:

- recognition of the urban forest as an intergenerational asset within the City that needs to be managed to preserve its value to the community
- recognition of the asset value of trees in an urban environment and a commitment to management strategies that consider this value
- recognition of the need to manage and enhance the urban forest within the City and to proactively respond to pressures on tree resources from population and economic growth, demographic changes and the effects of climate change
- the importance of a framework for forward planning management of the urban forest in both public and private domains and
- continuous collaboration within Council to achieve best outcomes for the City of Ryde's Urban Forest.

This policy applies to all lands within the City of Ryde.

Urban Forest Policy - Council Policy		
Owner: Community Life	Accountability: Manager Open Space	Policy Number: # Provided by Governance
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Guidelines / Procedures

This Urban Forest policy is divided into five key management areas with individual guiding principles for each management area. The areas are:

- 1.0 Tree protection
- 2.0 Tree selection and planting
- 3.0 Tree asset management (including risk management)
- 4.0 Tree removal and replacement and
- 5.0 Community consultation and involvement.

1.0 Tree protection

The City of Ryde recognises the importance of trees in the urban environment and for that reason it will manage and or regulate trees throughout the City irrespective of whether they are located in streets, parks or on private properties. The City of Ryde recognises that trees on public land play a critical role in ensuring the urban forest is an intergenerational asset.

TREE PROTECTION GUIDING PRINCIPLES

Implementation of protection measures

The City of Ryde will protect trees within the City by managing trees on public land and regulating activities relating to trees on private land, in accordance with the following documents:

- Greening Ryde Plan which provides management direction to the planning and management of the Urban Forest across the City by specifying the actions necessary to implement this policy. This Plan's focus is on trees on public lands
- Street Tree Masterplan which directs the protection and maintenance of existing street trees and provides a plan for the planting of additional trees along the City's streets and
- Significant Tree Register which identifies and guides the protection of trees identified as being significant for heritage, cultural or ecological reasons. This single register will be used to promote community awareness and ensure better and consistent methods of protection of the trees in the future.
- City of Ryde Development Control Plan, Part 9.6 Tree Preservation (2010), a regulatory tool which sets out the procedural framework governing the removal, pruning and alteration of soil levels close to trees within the City. In order to ensure the collective loss of trees across the City is balanced by tree replacements Part 9.6 Tree Preservation enables the City of Ryde to condition any tree removal with replacement tree planting
- Urban Forest Technical Manual which specifies requirements for the management and protection of trees on development sites

Development applications under the City of Ryde DCP 2010

The City of Ryde will ensure that the assessment of development applications includes an assessment of the potential impacts of trees in accordance with the Environmental Planning and Assessment Act 1979 and other relevant Federal and State legislation, as amended from time to time.

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City of Ryde Lifestyle and opportunity

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TREE PROTECTION GUIDING PRINCIPLES

Overhead utility/service lines The City of Ryde will reduce conflicts between street trees and overhead service lines through considered tree species selection and partnerships with telecommunications and energy providers.

2.0 Tree selection and planting

The urban forest is measured as a percentage of canopy cover of the total area and an appropriate tree canopy density is necessary for significant benefits to accrue. Replacement and new tree plantings need to take place to offset the gradual loss of the urban forest canopy.

Street trees are the City's green connections between parks and the surrounding National Parks and provide many benefits to residents such as screening, shade over footpaths and car parking. The choice of tree species helps create the character of each suburb.

There are opportunities within parks to plant large trees and parks generally enhance the visual quality of a neighbourhood. Tree planting within parks will be guided by individual Plans of Management and street tree planting by the Street Tree Masterplan.

The conditions of many of the City's existing mature trees are declining due to ageing, prolonged drought and environmental factors as well increased urban development. This decline contributes to the loss of biodiversity through habitat loss and places increased pressures on the City's natural ecosystems.

TREE SELECTION AND PLANTING GUIDING PRINCIPLES

Tree planting

The Ćity of Řyde will maintain and increase the canopy cover within the City through a program of tree planting in considered locations in the City's streets and open spaces while encouraging the community to plant suitable trees in their private gardens.

Street Tree Masterplan

The City of Ryde will plan and manage street trees throughout the City to enhance the quality of streetscapes, amenity and character of neighbourhoods. The City of Ryde recognises that street trees are important for both establishing and improving vegetation and habitat connections between parks and other open space.

Park trees

The City of Ryde recognises that the City's parks and open space are important because:

- they provide space for the planting of large and broad canopy trees
- remnant vegetation located in these areas will be managed
- a diversity of tree and shrub species within these areas attracts wildlife and provide low, medium and high canopy cover for native fauna
- they offer protection for trees and sites classified as being part of a

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TREE SELECTION AND PLANTING GUIDING PRINCIPLES vulnerable, threatened or endangered ecological community they provide and have the potential to provide habitat for native fauna or fauna including that classified as vulnerable or threatened under the Threatened Species Conservation Act 1995 (NSW) or the Environmental Protection and Biodiversity Conservation Act 1999 (Cth) and they form part of wildlife habitat corridor networks across the City. Tree selection and supply The City of Ryde values both native and exotic tree species and recognises that different tree species are suited to a different environmental conditions. The City of Ryde will incorporate ecologically sustainable design principles in the selection of species for replacement and new tree plantings and will plan to select the trees suitable for the growing environment. The City of Ryde will consider cultural, heritage, neighbourhood character and ecological factors when selecting trees in addition to the suitability of tree species to the planting location. The City of Ryde will require all trees planted to be good quality tree stock in accordance with current industry best practice. Tree installation The City of Ryde recognises the importance of correctly planting and maintaining new tree stock to the: long term vitality and structural condition of the tree and aesthetic success and benefits of the tree in the long term. 3.0 Tree asset management Trees are an important part of the City's landscape and like buildings, roads, footpaths and park furniture, trees in the City's open spaces and streets are valuable assets. Asset management is the process by which the City of Ryde manages its physical assets to meet current and future levels of service and the principles of asset management will be applied to the management of all public trees. Asset management of the urban forest will require the following: identification of tree assets maintenance of tree asset inventory records identification of service levels ٠ maintenance of tree assets ٠ operation of the tree assets and disposal of tree assets when the need no longer exists or it is no longer appropriate for the tree assets to be retained. An inappropriate tree species or a tree growing in an unsuitable location on either private or public land can create problems in the urban environment. Proactively

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implementing strategies to manage risk and minimize harm are part of tree asset management.

TREE ASSET MANAGEMENT GUIDING PRINCIPLES

Asset management

The City of Ryde is committed to the ongoing sustainable management of trees in parks and streets within the City.

The City of Ryde recognises that the urban forest is an important part of the urban form and accordingly that its management must be integrated with the management of the entire urban environment including infrastructure and buildings.

The City of Ryde recognises the importance of proactively and consistently managing tree risk issues.

The City of Ryde will plan and manage its urban forest infrastructure to lessen conflict with and damage to other urban infrastructure, assets and services.

4.0 Tree removal and replacement

The average life span of a tree in an urban environment is shortened due to the unfavourable conditions in which trees are planted and grow. Trees in parks generally have better environmental conditions and therefore a longer life span than street trees. Many trees in streets and parks within the City are mature and reaching the end of their life expectancy.

The City of Ryde will aim to manage the urban forest within the City. However maintaining over mature and senescent trees is costly and is only a very short term solution to ongoing health and structural problems. In addition to the removal of old trees, trees may need to be removed as part of capital improvements, as part of risk assessment management of other assets and young trees may need to be removed if they are not growing well and have little visual appeal.

Trees significantly contribute to the visual quality and character of a neighbourhood. Tree removals have immediate visual, environmental and management implications and accordingly residents are often concerned about tree loss.

TREE REMOVAL AND REPLACEMENT GUIDING PRINCIPLES

Sustainable Urban Forest

The City of Ryde will plan for a sustainable Urban Forest that maintains and increases canopy cover across the City.

The City of Ryde will preserve the cultural, heritage and ecological importance of trees and places.

Habitat value

The City of Ryde recognises and will consider the habitat value of trees on public land prior to removal.

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Replacement planting

The City of Ryde will incorporate ecologically sustainable design principles and risk management in the selection of species for replacement tree plantings.

The City of Ryde will consider cultural, heritage, neighbourhood character and ecological factors when selecting trees in addition to the suitability of tree species to the planting location.

5.0 Community consultation and involvement

Trees have environmental, economic and social benefits, and many residents appreciate them as an asset. Trees are a community resource with very direct implications on property values and urban character. The conservation of natural resources including trees will ensure the health, diversity and productivity of the local environment is maintained or enhanced for the benefit of future generations.

The City of Ryde wants the community to gain an understanding and interest in the trees in their neighbourhood and throughout the City.

The City of Ryde will be receptive to community comment and providing avenues by which comments, concerns and suggestions can be relayed to the Urban Forest team.

URBAN FOREST COMMUNITY EDUCATION AND PARTICIPATION GUIDING PRINCIPLES

Developing community awareness

The City of Ryde will promote community awareness of the benefits of trees in an urban environment and tree management on both public and private land.

Balancing community outcomes

The City of Ryde will manage the benefits and risks associated with trees in an urban environment in order to achieve the best community outcomes.

References - Legislation

Not Applicable

Review Process and Endorsement

This Policy should be reviewed every five years and endorsed by the executive team.

Attachments	
Title	Trim Reference
Form	

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