

# ARBORICULTURAL STATEMENT

**Prepared for:**  
**Paul De Alwis (Project Manager)**  
**Taronga Conservation Society Australia**

**Site:**  
**Taronga Zoo**  
**Bradleys Head Road, Mosman 2088**

**Published by:**

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## DOCUMENT TRACKING

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<i>Project Manager</i>	<i>Paul De Alwis</i>
<i>Prepared by</i>	<i>Mathew Phillips</i>
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*This statement should be cited as 'Reptile & Amphibian Conservation Centre Arboricultural Statement 6 October 2021'*

*This statement should be read in conjunction with 'Sydney Arbor Trees 2021-Reptile & Amphibian Conservation Centre Arboricultural Impact Assessment dated 2<sup>nd</sup> July 2021, and the 'Tree Retention & Removal Plan' Drawing L\_1002 (C) produced by Context Landscape Architecture dated 30<sup>th</sup> September 2021.*

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### *Document Disclaimer*

*This document may only be used for the purpose for which it was commissioned and in accordance with the scope between Sydney Arbor Trees Pty Ltd and Taronga Conservation Society. Unauthorised use of this report in any form is prohibited.*

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## 1 INTRODUCTION

- 1.1 This 'Arboricultural Statement' is in reference to a Request for Information (RFI) in relation to the Development Application (DA) for the proposed Reptile & Amphibian Conservation Centre (RACC). This statement specifically responds to the following RFI.
- a. In accordance with the recommendation in the Arborist Report, provide a transplanting feasibility study for six trees proposed for relocation (9,10,16,21,23 & 24), including adequate contingencies if transplanting is not feasible.
  - b. A cumulative assessment into the number of trees removed (including level of significance) and replacement trees (endemic and nonendemic).

## 2 STATEMENT

### 2.1 Response to RFI 1.1.a.

- 2.1.1 Sydney Arbor Trees Pty Ltd conducted a site visit on the 21<sup>st</sup> of September 2021 with members from Taronga Zoo Paul De Alwis (Project Manager) and Ben Zerbes (Manager Horticulture), and members from Context Landscape Architects including Jane Rumble (Senior Landscape Architect).
- 2.1.2 Trees 9 & 10 *Ficus craterostoma* (Blunt-leaved Forest Figs), palm 16 *Howeia forsteriana* (Kentia palm), and palms 21,23 & 24 *Livistona australis* (Cabbage Tree Palms) were assessed for transplanting feasibility. All have been assessed to be within the good health range, good condition range, and have a medium to high estimated life expectancy.
- 2.1.3 The proposed transplanting locations for trees 9 & 10 and palms 21 & 24 as outlined within Appendix 1, the 'Tree Retention & Removal Plan' Drawing L\_1002 (C) produced by Context Landscape Architecture dated 30<sup>th</sup> September 2021 is supported and identified as feasible. The locations will support above and below ground future growth and increase the amenity of the proposed development and aid in maintaining the overall canopy cover to the site.
- 2.1.4 Palms 16 & 23 are proposed to be transplanted within the adjacent 'Camel Exhibit' as shown within Appendix 2, with a current a proposal to procure palm species for this exhibit. The proposed location is shown within the attached site map as a markup showing the indicative locations.

2.1.5 A transplanting methodology statement shall be produced by a suitably experienced and qualified Arborist or tree transplanting specialist prior to transplantation and be approved by the project Arborist.

2.1.6 Where transplanting is unsuccessful, and the subject trees or palms fail to survive the transplanting process it is proposed that suitable replacements be at an offset requirement of 2:1. Replacement trees or palms should be of a pot size no less than 500 Litre and be planted in locations that support above and below ground future growth.

## 2.2 Response to RFI 1.1.b.

2.2.1 The following table taken from 'Sydney Arbor Trees 2021-Reptile & Amphibian Conservation Centre Arboricultural Impact Assessment dated 2<sup>nd</sup> July 2021 Section 4.1.2 outlines the number of tree species and their significance within the landscape.

### 2.2.1.1 Summary of Tree Retention & Removal


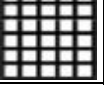
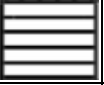

TREE RETENTION AND REMOVAL								
Retention Value	High Priority for Retention		Medium Consider for Retention		Low Consider for Removal		Remove Priority for Removal	
Retained Tree that may be impacted	1,2,3,4,5,6.				11,12, 52,53,54,55, 58,59,59a,59b,60.			
Priority for Transplant	9,10,16,21,23,24.							
Tree to be Removed	13,14,15,17,19,20, 22,65,66.		18,42,43,63.		7,8, 25,26,27,28,29, 31,32,32a,33,34,35, 36,37,38,39,40,41, 44,45,46,47,48,48a, 49,50,51,51a,51b, 56,57,61,62,64,67.		30.	

Table 1

- 2.2.2 The following proposed off-set strategy is recommended to replace the proposed tree removals of the site.
- 2.2.2.1 The High Significance trees **13,14,15,17,19,20,22,65 & 66** shall be replaced at an off-set ratio of 2:1, with 2 x 100 litre pot size tree species for every High Significance tree removed.
  - 2.2.2.2 The Medium Significance trees **18,42,43 & 63** shall be replaced at an off-set ratio of 2:1, with 2 x 75 litre pot size tree species for every Medium Significance tree removed.
  - 2.2.2.3 The Low Significance trees **7,8,25,26,27,28,29,31,32,32a,33,34,35,36,37,38,39,40,41,44,45,46,47,48,48a,49,50,51,51a,51b,56,57,61,62,64,67 & 30** shall be replaced at an off-set ratio of 1:1, with 1 x 25 litre pot size tree species for every Low Significance tree removed.
- 2.2.3 All replacement tree species shall be supplied in accordance with.
- 2.2.3.1 Australian Standard (AS2303:2018) Tree stock for landscape use, and
  - 2.2.3.2 Natspec 'Specifying Trees-A Guide to Assessment of Tree Quality'
- 2.2.4 All replacement tree species shall be locally endemic or non-endemic and correspond to the natural habitat of the species of reptile or amphibian of the proposed exhibits where planted within an exhibit.
- 2.2.5 All replacement tree species shall be planted in locations that support above and below ground future growth.
- 2.3 All recommendations and guidance outlined within the *'Sydney Arbor Trees 2021-Reptile & Amphibian Conservation Centre Arboricultural Impact Assessment dated 2<sup>nd</sup> July 2021* including the *'Site Specific Tree Protection Strategy'* must be adhered to in order to successfully protect tree species during the conduct of the proposed development.

If you have any questions regarding this statement or require any further information, please contact me on the details below

Regards,

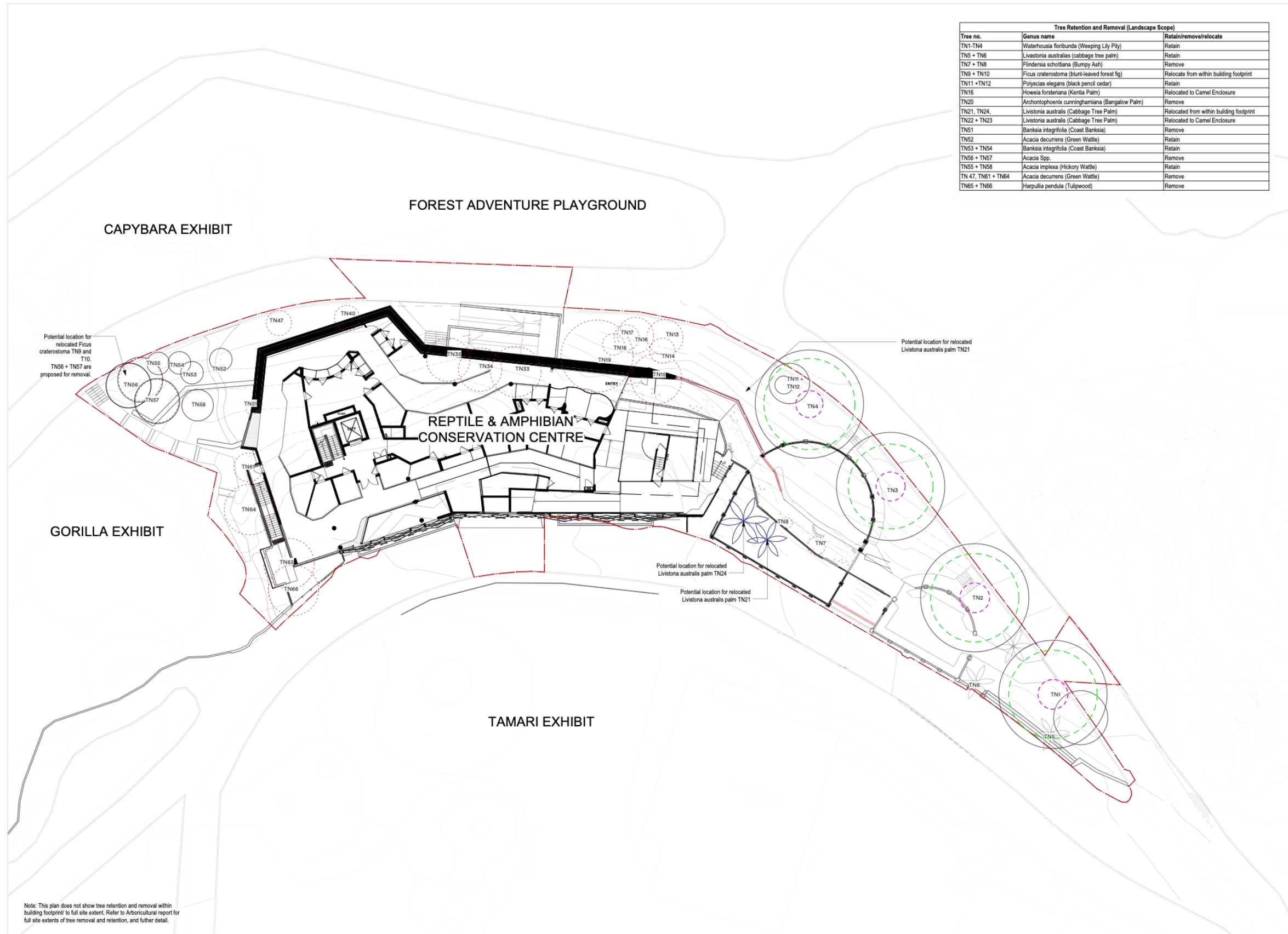


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### 3 Appendices

3.1 Appendix 1 Context Landscape Architects Tree Removal & Retention Plan



Tree Retention and Removal (Landscape Scope)		
Tree no.	Genus name	Retain/remove/relocate
TN1-TN4	Waterhousea floribunda (Weeping Lily Ply)	Retain
TN5 + TN6	Livistonia australis (cabbage tree palm)	Retain
TN7 + TN8	Flindersia schottiana (Bumpy Ash)	Remove
TN9 + TN10	Ficus craterostoma (burnt-leaved forest fig)	Relocate from within building footprint
TN11 + TN12	Polycias elegans (black pencil cedar)	Retain
TN16	Howeia forsteriana (Kentia Palm)	Relocated to Camel Enclosure
TN20	Archontophoenix cunninghamiana (Bangalow Palm)	Remove
TN21, TN24	Livistonia australis (Cabbage Tree Palm)	Relocated from within building footprint
TN22 + TN23	Livistonia australis (Cabbage Tree Palm)	Relocated to Camel Enclosure
TN51	Banksia integrifolia (Coast Banksia)	Remove
TN52	Acacia decurrens (Green Wattle)	Retain
TN53 + TN54	Banksia integrifolia (Coast Banksia)	Retain
TN56 + TN57	Acacia Spp.	Remove
TN55 + TN58	Acacia implexa (Hickory Wattle)	Retain
TN 47, TN61 + TN64	Acacia decurrens (Green Wattle)	Remove
TN65 + TN66	Harpullia pendula (Tulipwood)	Remove

**LEGEND**

- SITE BOUNDARY
- EXISTING TREE (REMOVED)
- EXISTING TREE (RETAINED)
- EXISTING PALM (RETAINED)
- EXISTING TREE/ PALM (RELOCATED)
- STRUCTURAL ROOT ZONE (SRZ)
- TREE PROTECTION ZONE (TPZ)

**TREE RETENTION AND REMOVAL NOTES:**  
 The Tree Retention and Removal Plans are to be read in conjunction with the project's Arborist Report (refer Arboricultural Assessment Report, Sydney Arbor Trees Pty). The Arborist Report is to be reviewed and comprehended in full prior to the commencement of procurement or construction works.  
 Prior to the commencement of work, Tree Protection Zones (TPZs) shall be established in accordance with AS4970-2009 (Protection of Trees on Development Sites) with protective fences at least 1.8 metres high. Protective fences shall consist of chain wire mesh temporary fence panels securely mounted and brace to prevent movement, shall be in place prior to the commencement of any work on site and shall remain until the completion of all construction works.  
 Excavation of services; waste bins; storage of materials, plant and equipment; site sheds; vehicle access; or cleaning of tools and equipment are not permitted within TPZs at any time.  
 Prior to the commencement of any work on site, signs shall be placed in prominent positions on each protective fence identifying the area as a TPZ and prohibiting the above mentioned items within TPZ fenced areas.  
 If roots are exposed during any demolition or construction works, or where root pruning may be required, an Arborist with AQF Level 5 qualifications in Horticulture (Arboriculture) must be present to supervise the building works and certify compliance with tree protection measures.  
 Excavation around trees to be retained shall be done by hand. The Landscape Architect or Superintendent shall be notified prior to any such excavation work.

75% TENDER DRAFT



Note: This plan does not show tree retention and removal within building footprint/ to full site extent. Refer to Arboricultural report for full site extents of tree removal and retention, and further detail.

<p><b>NOTE:</b> VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. DRAWINGS MADE TO LARGER SCALES AND THOSE SHOWING PARTICULAR PARTS OF THE WORKS SHALL TAKE PRECEDENCE OVER DRAWINGS MADE TO SMALLER SCALES AND THOSE FOR GENERAL PURPOSES. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE, TOGETHER WITH OTHER AUTHORITIES' REQUIREMENTS AND REGULATIONS. DESIGN DRAWINGS BY OTHER DISCIPLINES HAVE BEEN INCLUDED FOR COORDINATION ONLY. THIS DRAWING AND DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT. IF IN DOUBT, ASK.</p>	<table border="1"> <thead> <tr> <th>ISSUE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APPD</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>50% TENDER DOCUMENTATION</td> <td>JRSK</td> <td>HD</td> <td>31/08/2021</td> </tr> <tr> <td>B</td> <td>75% TENDER DOCUMENTATION</td> <td>SK</td> <td>JR</td> <td>20/09/2021</td> </tr> <tr> <td>C</td> <td>75% TENDER DOCUMENTATION</td> <td>JR</td> <td>HD</td> <td>30/09/2021</td> </tr> </tbody> </table>	ISSUE	DESCRIPTION	BY	APPD	DATE	A	50% TENDER DOCUMENTATION	JRSK	HD	31/08/2021	B	75% TENDER DOCUMENTATION	SK	JR	20/09/2021	C	75% TENDER DOCUMENTATION	JR	HD	30/09/2021	<p><b>NORTH / SCALE</b> Scale: 1:200</p>	<p><b>PROJECT TEAM</b></p> <p>ARCHITECT DWP 16 Luffell St, Newcastle East NSW 2300 Telephone: (02) 8950 7917</p> <p>CIVIL ENGINEER <b>MEINHARDT</b> Level 11/901 Beckett St, Melbourne VIC 3000 Telephone: (03) 9418 4000</p>	<p>LANDSCAPE ARCHITECT</p> <p><b>CONTEXT</b> LANDSCAPE ARCHITECTURE</p> <p><small>Context Landscape Design Pty Ltd Level 2, 52-58 William Street, East Sydney NSW 2011 PO Box 4860 Sydney South NSW 1235 T: 61 2 9244 8900 W: www.context.net.au ABN: 14 093 350 719</small></p>	<p>CLIENT NAME <b>TARONGA CONSERVATION SOCIETY</b></p> <p>PROJECT <b>TARONGA (RACC)</b> BRADLEYS HEAD ROAD, MOSMAN</p>	<p>DRAWING TITLE <b>TREE RETENTION AND REMOVAL PLAN</b></p> <table border="1"> <thead> <tr> <th>PROJECT STAGE</th> <th>SHEET SIZE</th> </tr> </thead> <tbody> <tr> <td>75% TENDER DOCUMENTATION</td> <td>A1</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>PROJECT NUMBER</th> <th>DRAWING NUMBER</th> <th>ISSUE</th> </tr> </thead> <tbody> <tr> <td>21534</td> <td>L_1002</td> <td>C</td> </tr> </tbody> </table>	PROJECT STAGE	SHEET SIZE	75% TENDER DOCUMENTATION	A1	PROJECT NUMBER	DRAWING NUMBER	ISSUE	21534	L_1002	C
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Appendix 2 Proposed Transplanting Location for palms 16 & 23

