
rainTree consulting

Arboricultural Management
PO Box 326 AVALON NSW 2107
Mobile 0419 250 248

Louise & Ashley Kuchel
C/- Hobbs Jamieson Architecture
67a Wanganella Street
BALGOWLAH NSW
P: 9948 3807

4 December 2017

39 BOYLE STREET - BALGOWLAH, NSW S/96 NEW SWIMMING POOL & INFRASTRUCTURE – DA13/2016 NEIGHBOURING FIG TREE - ARBORICULTURAL ASSESSMENT REPORT

Ref No RTC-17117

INTRODUCTION

This report has been commissioned by Louise & Ashley Kuchel C/- Hobbs Jamieson Architecture. The reason this report has been commissioned is to address conditions relating to item 3 – *Council Conditions of Consent* for neighbouring tree impacts as specified by Private Certifiers Australia (PCA) list of requirements dated 25/9/2017.

METHODOLOGY

In preparation for this report a site and neighbouring tree inspection was undertaken by the author from within the subject property on Friday 29th September 2017.

Documentation reviewed and works undertaken to complete this assessment include

- Undertaking a limited site & Visual Tree Assessment adopted from components of Mattheck & Breloer 1994 '*The Body Language of Trees*' & the ISA TRAQ manual 2013. The inspection included estimating the lower trunk diameter for the purpose of determining the Structural Root Zone (SRZ) and Tree Protection Zone (TPZ) radiuses in accordance with Australian Standard AS 4970 – 2009 'Protection of Trees on Development Sites'.
- Providing ongoing advice and markup drawings for design purposes such that a best fit solution for the minimising on neighbouring tree impacts could be achieved

Documents reviewed

- Hobbs Jamieson architecture Section 96 drawings job No. 15/002 rev B dated 7.11.2016
- C.M.S. Surveying - Survey Plan ref No. 13061detail dated 1.06.2015
- Acknowledgement of the current Australian Standards 'Protection of Trees on Development Sites' AS 4970 – 2009

SUMMARY OF ASSESSMENT

The subject tree

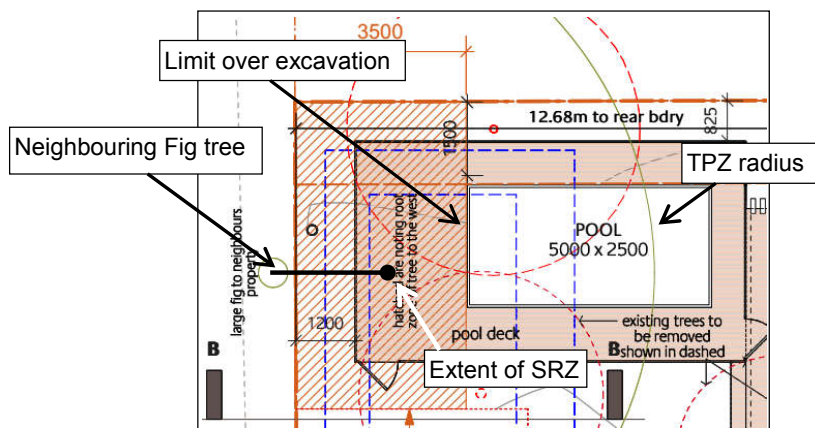
- 1.1 The subject neighbouring tree is identified as a (Weeping Fig) *Ficus benjamina* being a non-prescribed / exempt tree within Northern Beaches Councils tree management guidelines. Being a neighbouring tree the principles of tree protection as outlined within this report are recommended to be undertaken to ensure the tree remains viable.

- 1.2 Tree protection zones are identified as the Structural Root Zone (SRZ), the area required for tree stability (AS4970), and Tree Protection Zone (TPZ) radius for secondary root growth required to ensure the tree remains viable. From the centre of the tree the SRZ is estimated at 2.7m and TPZ 7.8m in radius.

Discussion of development proposal

- 1.3 Based on the documentation reviewed the swimming pool footprint has been located outside of the 2.7m SRZ with the overall decking envelope (above ground level encroachment) considered minor and/or manageable at <15% of the 7.8m TPZ.
- 1.4 Provided no significant root severing occurs within the SRZ to accommodate decking foundations the overall TPZ loss and/or coverage by the proposal is unlikely to have an adverse impact on the tree.
- 1.5 To ensure the tree remains viable the following recommendations are provided:
- The extent of over excavation to accommodate the swimming pool is to be limited to 0.2m (200mm) beyond the proposed pool line as shown within construction drawings. The excavation is to be supervised by an appointed project arborist to treat any encountered tree root/s
 - Where pier footings for deck construction is required within the 2.7m SRZ a pier footing plan is recommended to be provided for arborist review. Hand excavation is to be conducted under the supervision of an appointed minimum AQF Level 4 certified arborist ensuring tree roots at or >30mm(Ø) remain intact, are not damaged or frayed by works
 - At completion of excavation activities final certification by the assisting arborist is to be provided to the development site superintendent

Figure 1, showing swimming pool location



Should you require further liaisons in this matter please contact me direct on 0419 250 248

Yours sincerely

Mark A Kokot

AQF Level 5 consulting arborist



Diploma of Hort/Arboriculture (AQF5), Associate Diploma Parks Management (AQF4)
Certified Arborist / Tree Surgeon (AQF3), ISA Tree Risk Assessment Qualified 6/2014
Member: Arboriculture Australia No.1292, Working With Children No: WWC0144637E