

TP-10.01 Tree and Landscape Management Specifications

TREE MANAGEMENT AND PROTECTION NOTES

1. CONTRACTORS ARE REMINDED THAT THE MAJORITY OF TREE ROOTS GROW IN THE TOP 300MM OF SOIL.
The feeder roots, often very fine roots that provide the tree with water, oxygen and nutrients tend to be within the top 100mm. These roots typically grow between the tree's trunk to well beyond it's drip line (the canopy edge). Ground works within the drip zone of a tree have the potential to do considerable damage to its root system. It can affect tree stability and tree health to such an extent that it will lead to the decline and possible death of the tree over a period of years. Within lease areas by legislation the Tree Protection Zone (TPZ) extends to tree crown +2m, including the area beneath the crown.
2. TREE PROTECTION
Existing canopy clearance is not to be altered, unless otherwise approved.
Crowns and apex of canopies are not to be altered or reduced.
Ensure lifting equipment and load can clear height and width of tree canopy without damage to crown.
3. TREE ROOT PROTECTION
Any excavation (or fill) that occurs within 2m of the drip zone of a tree must be approved by the relevant government agency.

Where excavation is approved, the following measures are to be adopted for tree protection:

- Do not sever large roots (>30mm diameter) closer than halfway from the drip line to the trunk. Hand trenching to a depth of 300mm is required to locate these roots before any mechanical trenching is undertaken.
- All roots must be cut cleanly with equipment specifically designed to cur roots cleanly or other suitable pruning equipment.
- Roots exposed during excavation must be protected from desiccation. Keep lightly watered or cover with hessian, which must be kept moist.
- Water trees that have had disturbance in their root zone. The amount and frequency of water needs to be adapted to the trees requirement, and seasonal conditions.
- Roots 50mm in diameter or larger shall be protected, including by excavation underneath tree roots where feasible;
- Minimise width of excavation in vicinity of trees as far as possible. Shoring of excavations should be adopted in lieu of benching, to minimise overall cut width.

4. TREE 'REGULATED' STATUS BY VIRTUE OF SIZE
- Under the tree protection act 2005 a tree is termed a Regulated Tree and is to be protected if it is growing on Urban Leased land and has at least one of:
- A height of 12m or more; or
 - A trunk circumference of 1.5m (approx. 0.5m in diameter) or more at 1m above ground level.
 - Two or more trunks and the total circumference of all the trunks, 1m above ground level, is 1.5m or more, or
 - A minimum crown width of 12m or more, and
 - Must be alive - all dead trees have been ranked as Non Protected tree.
 - Is not a weed species under the Pest Plant & Animals Declaration 2005.

5. TREE PROTECTED STATUS
Yes - The tree has a dimension that any activity must be assessed under the Tree Protection Act on leased land; or is on Government land eg. road verge, park, etc as all trees on Government land are protected.
No - The tree if on Leased land does not meet the 'Regulated' tree status dimensions or is a declared Weed Species, it does not require assessment under the Tree Protection Act.
NA - Not applicable as Off Lease but often protected as these trees are generally on Government (Unleased) land.

Trees nominated as Protected can only be removed/pruned if approval in writing is gained from all applicable Government agencies.

6. FUTURE TREE APPROVALS
On-Leased land: if a tree has protected or Regulated status then approval must be gained from TCCS Urban Treescapes Unit or by a DA through EPSDD prior to removal, lopping or ground damaging activity
- Off-Lease (Terriroty) land: Please note all trees located external to the leased block boundary i.e. the verge, or open space cannot be removed, pruned or damaged without the approval of the TCCS Urban Treescapes Unit, City Services (13 22 81) as on Government land.

7. TREE MANAGEMENT
Trees within the lease require a Tree Management Plan (TMP) and on the verge a Landscape Management Protection Plan (LMPP) outlining removals, pruning, tree protection measures, site access and restorative works issues as part of the design process.

8. COUNCIL CONDITIONS
- Trees to be removed will require signage to notify the public a minimum of 14 days before the removals are scheduled. The applicant can contact TCCS should a template required.
- Excavation of the underground carpark and construction of the building works do not impact on the canopies or limbs of trees, in particular tree No.4 along Marcus Clarke Street and trees 12-14 on Darwin Place.
- Offsets for tree No.4 and trees 12-14 should be at least 3.5m from the outer edge of the trunk to the closest edge of the excavation trench or works. Excavation is to be undertaken via hydro excavation or low-pressure hydro excavation, using a fan shaped nozzle head at a pressure less than 1500 psi and kept 15cm from the soil profile.
- Excavation within the TPZ must be executed using either under-boring, hydro-excavation or hand digging techniques, unless an alternative method has been documented and endorsed by TCCS.
- No roots greater than 30mm in diameter are to be cut.
- A Tree Activity Application will also be required for regulated trees present on private land.
- Under the new Urban Forest 2023 legislation applicants are required to submit a Tree Management Plan (TMP) in response to works occurring in proximity to a public tree to demonstrate how the tree will be protected. TCCS will require the TMP to be submitted separately to a Landscape Management and Protection Plan. For further information, please refer to:<https://www.legislation.act.gov.au/ni/2023-823/>

LANDSCAPE MANAGEMENT AND PROTECTION NOTES

1. Prior to and during construction period
- (i) No works shall be undertaken without first undertaking Dial Before you Digs www.1100.com.au/ to ensure any infrastructure is identified and protected during the works
- (ii) All trees, their trunks and canopy dimensions indicated
- (iii) The Tree Protection Zone (TPZ=canopy+2m) indicated (by dashed coloured line) (iv) No works, that includes but is not , limited to, excavation (eg. for footings and irrigation) or modification of existing ground levels and placement of site sheds, building materials, equipment, fill or vehicles shall occur within the fenced off tree protection zone (dripline + 2 meters) without prior permission from TCCS Urban Treescapes. (v) Services that need to be installed within the tree protection zone of the tree shall be under bored unless otherwise agreed in writing by TCCS Urban Treescapes
- (vi) No further excavation within the dripline is supported without consultation with TCCS Urban Treescapes (vii) Any tree root pruning must be done by a qualified arborist as per AS4970, and appropriate traffic management.
- (viii) Maintain the good health of the trees that have had disturbance in their root zone by continual watering, at no time shall the disturbed area be allowedto dry out to the detriment of the trees health.
- (ix) Any uncovered tree roots shall be covered immediately with geotextile or hessian fabric and watered regularly to ensure roots don't dry out.
- (x) Any wash down of tools or chemicals including concrete wash is not permitted within the tree protection zone (Canopy + 2 meters) or to run off into the verge
- (xi) The canopy area underneath the tree shall be mulched and watered post-construction. Mulch shall be recommended by the arborist and irrigation is to be undertaken for a minimum of six months following root damage.
- (xii) Any damage to the tree/tree roots which causes the tree to decline, will require tree replacement at the developer's expense.

- b) Verge Protection
Verge protection fencing shall be installed prior to any works commencing, including demolition and remains in place until construction works are completed and shall be;
- (O) Continuous 19=800mm high chain wire protective fence, with concrete bases
- (1) Around the TPZ (canopy +2m) of any trees or groups of trees which may be impacted by the construction works unless otherwise agreed to in writing by TCCS urban Trees.
- (2) 1.2m from back from the kerb
- (3) 600mm inset from driveway access

- c) Verge Reinstatement
(i) No works shall be undertaken without first undertaking Dial Before You Digs www.1100.com.au/ to ensure any infrastructure is identified and protected during the works
- (ii) Verge must be de-compacted prior to reinstatement
- (iii) Any excavation around tree root zones must be done by hand in a radial manner from the trunk outward to a Max Depth of 25mm.
- (iv) Reinststate verge soil with a 50/50 mix of Type 2 & Type 3 TOPSOIL as per MITS-09A-Topsoil-1-0 (AS8771572).PDF to match finished levels.
- (v) Mulch shall be recommended by the arborist and irrigation is to be undertaken from a minimum of six months following any root damage.