



MULLUM CREEK

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LANDSCAPE ARCHITECTURE . URBAN DESIGN

How to Build on a Homesite that has Existing Tree(s) to be retained and require a Tree Protection Zone (TPZ)

Tree Protection Fencing

- 'Very High' and 'High' ranked trees are to be retained and to be protected at all times, and no damage to the roots, trunk and branches is to occur.

Consult the Mullum Creek Tree Protection Plan to locate the protected trees within the area. The following Tree Protection measures are as per Australian Standards.

- A 'Tree Protection Zone' (TPZ) is to be applied to all existing trees to be retained. The TPZ encompasses the area of the tree's roots and crown. The TPZ requires temporary fencing protection (refer Diagram 1).

The aim of the temporary fencing surrounding the TPZ is to isolate the tree from any construction disturbance. The TPZ is to be constructed prior to any construction works being undertaken and is to be removed at the completion of the construction works. The temporary fence is to be a chain wire mesh panel fence with shade cloth attached, and is to measure 1.8m high. The fence panels are to sit in concrete feet. These are readily available for hire.

Keep the area within the TPZ free of construction material and debris, and do not place bulky or harmful materials under or near trees. Do not place soil from excavations against tree trunks. Prevent wind-blown materials such as cement from harming trees.

Protect the tree(s) and do not attach anything to them. Ensure all domestic underground services are routed outside the TPZ. Don't add or remove any topsoil to the area within the TPZ. The area within the TPZ is to be mulched with 100mm depth organic mulch. The mulch is to be laid at the same time as the erection of the temporary fence, and is to remain until the completion of the construction period.

Building with a TPZ on your homesite

- Building within the TPZ is discouraged.

If unavoidable, designs are to reflect minimal root disturbance methods to ensure the health and vitality of the tree.

- Prior to any disturbance or excavation within the TPZ, the contractor shall obtain written approval from the Project Arborist or a qualified arborist in regards to acceptable methods of intervention to be undertaken. If as part of the written advice a qualified arborist is to be present on site during the works, this must be undertaken.

Undertake excavations under tree canopies for as short a period as possible. Root investigation, cutting and acceptable excavation techniques to be undertaken as per Project Arborist or a qualified arborist advice. Excavation and construction methods are to ensure that the tree is adequately protected during and post construction and can sustain the level of encroachment proposed.

If encroachment of TPZ is equal to or greater than 10%, then written advice should also be sought in regards to area of compensation required to the extent of the TPZ.

- Do not compact the ground under the TPZ, and protect areas adjacent the tree TPZ from compaction.

If earthworks machinery is required to be used within or adjacent to the TPZ, submit a proposal for ground protection or an elevated platform to suit the proposed earthworks machinery to the Project Arborist or a qualified arborist for written approval.

- Where excavation within the TPZ has been undertaken, backfill around tree roots with a soil mixture consisting of three parts by volume of topsoil and one part of well rotted compost with a neutral pH value.

The topsoil and compost are to be free from weed growth and harmful materials. Backfill in 300mm layer depths and compact to a soil dryness similar to that of the original or surrounding soil. Do not backfill around tree trunks to a height greater than 200 mm above the original ground surface. Immediately after backfilling, thoroughly water the root zone surrounding the tree.

- Any works within the TPZ that requires a qualified arborist's advice as listed above is to be provided to the DRC for approval prior to works being undertaken. Any costs relating to seeking advice from a qualified arborist is borne by the homesite owner.



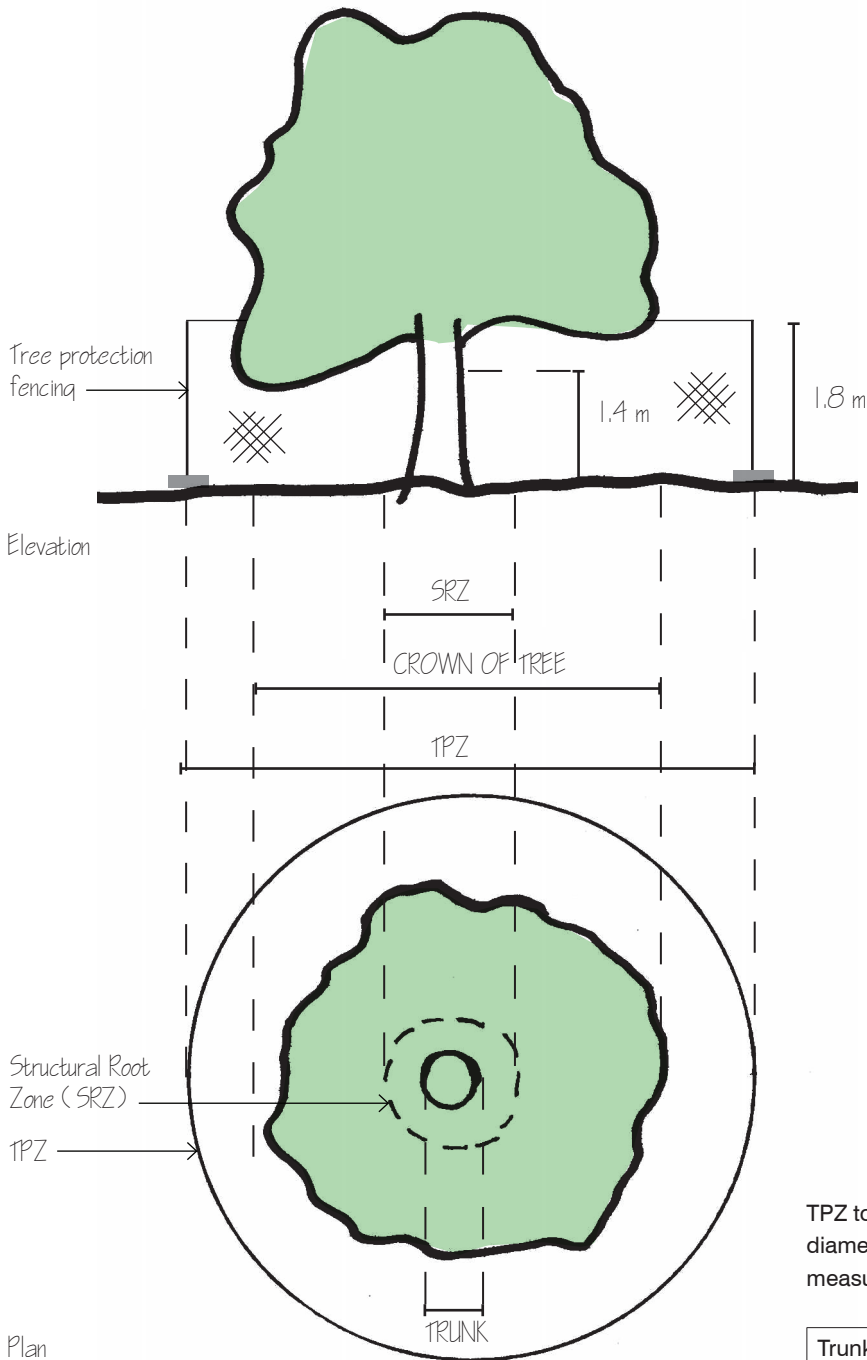
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Indicative Tree Protection Zone (TPZ)



TPZ to be calculated by multiplying the trunk diameter by 12, where the trunk diameter is measured at 1.4 m above the ground level.

Trunk Diameter	TPZ Radius
10 cm	2.0 m (minimum radius)
20 cm	2.4 m
40 cm	4.8 m

DIAGRAM 1