



A TREE PRESERVATION DETAIL & NOTES (PARKS AND OPEN AREAS)
N.T.S.

TREE PROTECTION DETAIL NOTES

Dripline – the area that extends from the trunk of the tree to the outer limits of the crown of the tree.

Tree Protection Zone (TPZ) – the area around the trunk where roots essential for tree health and stability are located. The TPZ is determined based on the measurements indicated in Table 1. TPZs are to be measured from the outside edge of the tree base towards the dripline and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout construction.

Plantable Space – areas designated for tree planting that meet spacing, soil volume, and infrastructure clearance requirements as deemed by the City.

Diameter at breast height (DBH) – the diameter of a trunk of a tree from the outside bark at a height of 1.37m above ground. Where there are multiple trunks, means the square root of the sum of each stem diameter squared measured from the outside bark at a height of 1.37m.

| Table 1 - Tree Protection Zones | | |
|-----------------------------------|--|---|
| Trunk DBH ¹ Range (cm) | Street & Right-of-way Trees: Minimum Setback Radius (m) | Park & Open Area Trees: Minimum Setback Radius (m) |
| | | Whichever of the two is greater: |
| <20 | 1.8 | Dripline or 1.8 |
| 20 to 30 | 2.4 | Dripline or 2.4 |
| 31 to 40 | 3.0 | Dripline or 3.0 |
| 41 to 50 | 3.6 | Dripline or 3.6 |
| 51 to 60 | 4.2 | Dripline or 4.2 |
| 61 to 70 | 4.8 | Dripline or 4.8 |
| 71 to 80 | 5.4 | Dripline or 5.4 |
| 81 to 100 | 6.0 | Dripline or 6.0 |
| >100 | 6cm of protection for each 1cm of DBH | Dripline or 6cm of protection for each 1cm of DBH |

The Public Tree Bylaw (Chapter 690) outlines the prohibitions and requirements for protecting City-owned trees, plantable spaces, and tree protection zones (TPZs), as defined in City standards. The **City of Kitchener Standard Specifications (CKSS 151)** further detail construction requirements near trees, which may be adjusted in consultation with and subject to approval by Urban Forestry (UF). Contractors will be held liable for any unauthorized injury to or removal of a City tree or its protection measures. Because damage may not become apparent until years after construction, it is critical that all preservation methods follow the guidelines below, along with generally accepted arboricultural and construction best practices.

1. Construction activities, grade alterations, and storage of equipment and materials are prohibited within the TPZ, except where approved by UF. All damage to trees shall be reported to UF.
2. All arborist work such as pruning of crown branches or roots within the TPZ shall be conducted by or under the supervision of UF or an ISA Certified Arborist.
3. All roots larger than 2.5cm that require removal are to be cut cleanly with bypass pruners or a pruning saw. Roots over 10cm are not to be cut without UF approval. All exposed roots will be covered as soon as possible to prevent root desiccation.
4. Special work practices for sidewalk and driveway works including hand work, minimal excavation, and hand forming may be required within a TPZ. Changes to the sidewalk design and elevation may be required to protect roots.
5. Soil compaction protection (horizontal hoarding) must be installed over the area of potential impact when temporary encroachment is permitted to facilitate work within a TPZ, as approved by UF. Refer to **TPF-1**.
6. Prior to tree removal or vegetation clearing, the Contractor must confirm that no migratory birds are making use of the site during nesting season (generally April 1 to August 31) to ensure conformance with the Migratory Bird Convention Act.



NOTES:

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