

Trees and Construction

Protect street trees

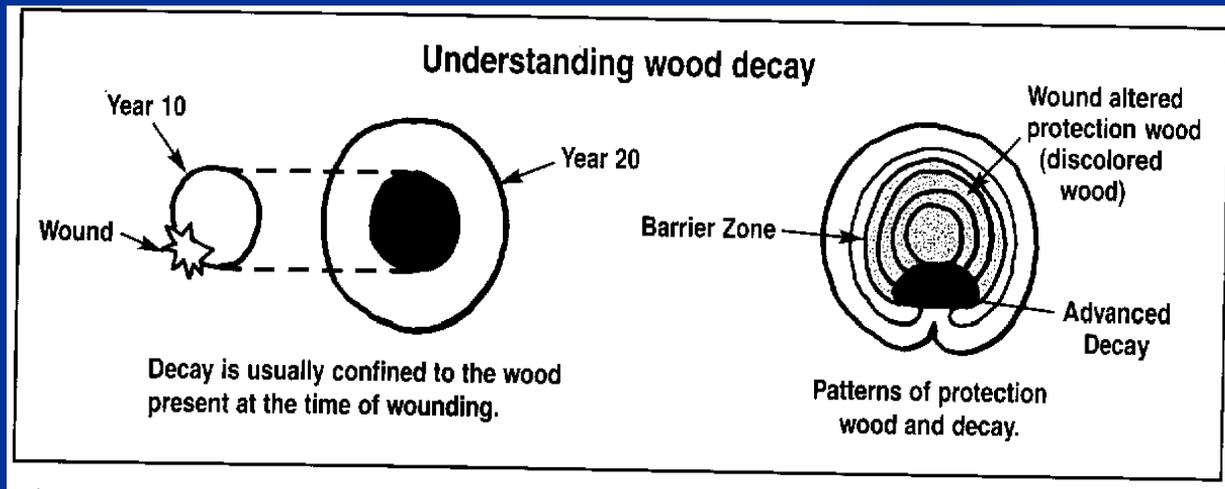
- Avoid the Following When Working Around Trees:
 1. Wounding the tree
 2. Exposing Roots to Elements for Long Periods
 3. Cutting or Ripping Roots
 4. Compacting Rooting Soil with Materials and Equipment
 5. Breaking Branches

- Failure to do so will result in permits being revoked or fines



2 x 4's help protect trunks from injury

Wounding the Tree During Construction



Exposed Roots

The majority of tree roots reside in the top 24" inches of the soil

Structural Roots: help support trunk and canopy and anchor tree in soil

Roots were only exposed for a week and drought stress is already present in canopy

Feeder Roots: uptake water and nutrients for tree

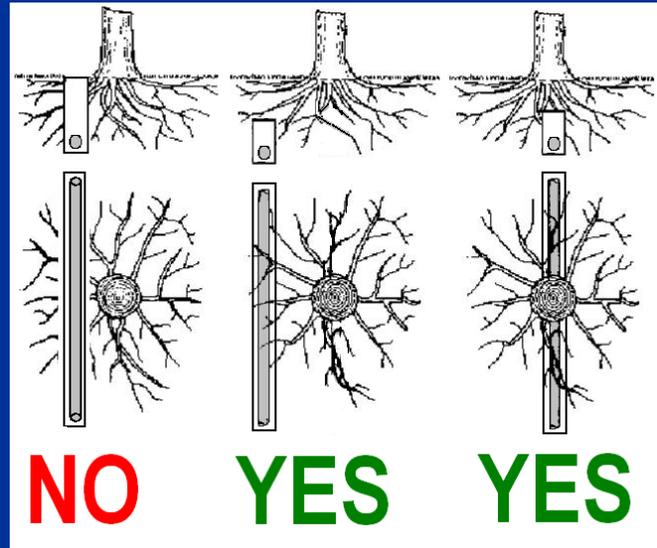


Excavating around trees



Less damage is done to tree roots if utilities are tunneled under a tree rather than across the roots.

> 60% of root system removed due to excavation
– Tree was removed due to lack of structural roots



Excavating around trees



Air excavation allows utility conduit to be inserted beneath tree roots, with minimal damage to the roots.

Mechanical Injury



Look out for low hanging branches when working with construction equipment (i.e. backhoes, large trucks)



Storing Materials/Equipment on Roots



Tree protection should have been installed to protect roots from construction materials and soil compaction

Installing Tree Protection Around Trees



Snow fencing helps minimize soil compaction and storage of materials and equipment



2 x 4's help protect trunks from mechanical injury



Wires/String Around Trees

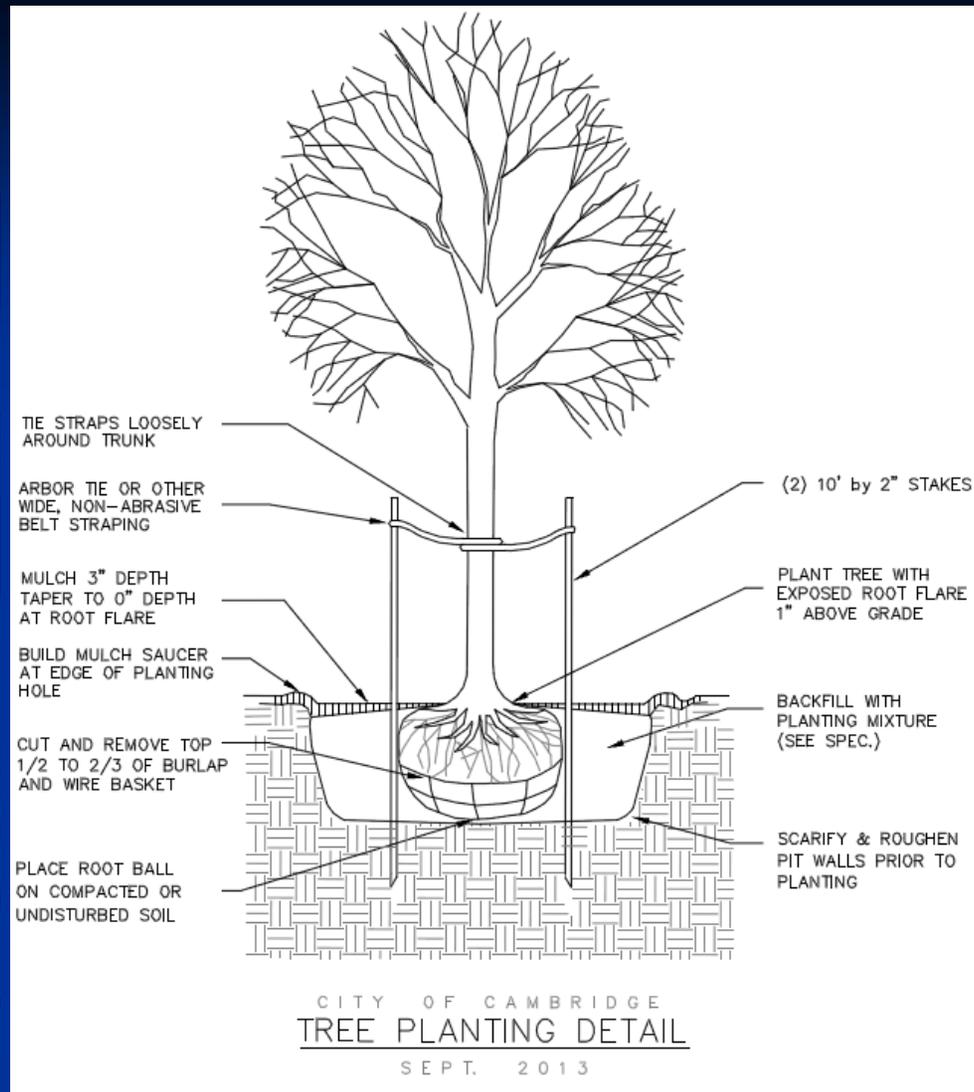


Remove all wires, tape or strapping used to hang signage. If left on, wire or strapping will girdle (strangle) tree and restrict water and nutrient movement, eventually causing tree to die.

Forming out Tree Wells



Tree Planting



CERTIFIED ARBORIST

Any contractor hired to do tree related work involving City owned trees shall have a certified arborist on board

Questions?

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