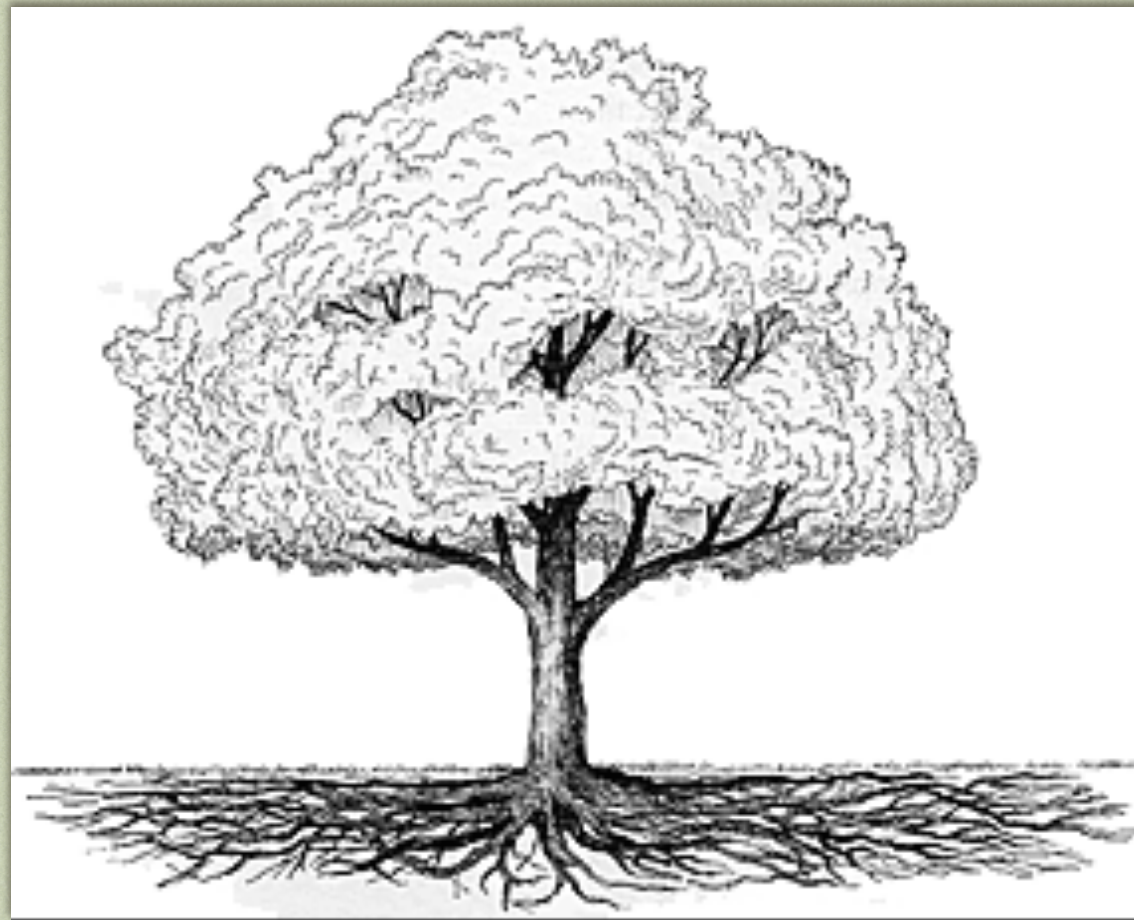


TREE ROOTS



PROTECTING AND NURTURING TREE ROOTS
IN THE BUILT LANDSCAPE

DECOMPACTION OF SOIL



The Air Spade 2000 penetrates soil at speeds of 1200 mph (twice the speed of sound), expanding rapidly to fracture the soil. In this way, soil can be de-compacted to create more suitable conditions for tree roots.

Excavation Rate: 0.9-1.5 cubic feet per second

Air Spade Uses

1. Decompaction of roots, e.g. on development sites and in parks and gardens.
2. Excavation of tree roots for investigation of root location, damage and disease.
3. Trenching beneath or through tree roots for routing of services.
4. Excavation of the basal flare of the tree to investigate decay (e.g. from *Meripilus*, *Kretzschmaria* and *Ganoderma*).
5. Preparation of soil for effective tree planting.

The Air Spade can excavate soil with minimal damage to tree roots. The fibrous roots that absorb water and nutrients from the soil may be damaged, but they are short lived and are quickly replaced by the tree. No woody roots are harmed.

Most roots are within the top 0.3 metres of the surface, but compaction of the soil above will starve the roots of water and oxygen, thus leading to rapid root death. Decompaction with an Air Spade is a fast and extremely beneficial remedy.





Arbor Vitae Arbiculture Ltd are experienced and dedicated tree consultants based in Edinburgh, Scotland. Owned by Mike Charkow, a climbing arborist with over 10 years of tree surgery and consultancy experience, AVA Ltd is dedicated to providing a comprehensive and professional advisory service.

We offer professional and expert tree inspections and tree surveys, inspections of trees for bats, soil de-compaction and root excavation, work specifications for contractors as well as tree planting and management services for a broad range of corporate and domestic clients in across Scotland.

Contact us now to discuss your needs!

