

A lush green forest scene with many tall, thin trees and a dense carpet of ferns on the forest floor. The lighting is soft and dappled, typical of a sun-dappled forest.

TOOL USE & SAFETY

JOB SITE AWARENESS: A LIST
OF TOOLS AND MACHINES
THAT WILL BE AVAILABLE

Shovels & Rakes

Handsaws & Pruners

Hori-Hori & Knives

Wheelbarrows & Trash Pickers

Post Driver

Bobcat/Dingo

Nursery Jaws & Auger



**WHAT MAY BE COMMON
SENSE TO YOU IS SOMETHING
NEW TO OTHERS**

American Beech (*Fagus grandifolia*)

**LET'S DETERMINE THE
RIGHT TOOL FOR THE RIGHT
JOB FOR PROPER TREE
PLANTING PRACTICES AND
TO HELP MITIGATE INJURIES**



SHOVELS & RAKES



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- When using shovels, use your legs, hips, and arms and anchors to carry weight.
- **Do not lift with your back!**
- **Do not use shovels to pry boulders.**
- **Do not use shovels to break larger stones or cement.**
- Use rakes to evenly spread mulch, topsoil, or to brush aside litter and debris.
- **When not in use, place them inside wheelbarrow. Do not leave them on the ground.**



HANDSAWS & PRUNERS



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- We will use hand saws to prune thicker branches, stump roots, or saw off girdling roots
- Always wear gloves when using a saw
- Use pruners for smaller branches. (Typically, 1in diameter.)
- Keep fingers clear
- Not made for cutting rope

HANDSAW AND ROOTS



Girdling roots are roots that grow in a circular or spiral pattern around a tree's trunk, slowly strangling the tree by cutting off water and nutrient flow.

GLENN FERGUSON



HORI-HORI & KNIVES



- A hori hori is a heavy serrated multi-use steel blade we will use for jobs such as cutting roots of container trees if plants are rootbound.
- First implemented in Japan, the hori hori was used to excavate wild plants.
- If using a pocket knife the blade must be retracted when not in use.
- Good for cutting rope around the tree or root ball.
- **Do not leave laying around.**
- Always cut away from the direction you are cutting.

SCENARIOS FOR KNIVES

- Trees will typically come tied from nursery.
- Trees may be tied down by rope.
- Knives or pruners can be used to cut nursery sisal.
- Sisal rope is biodegradable.



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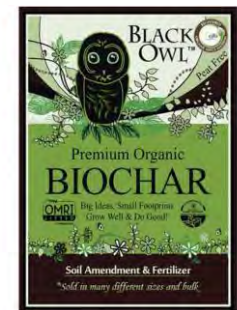
WHEELBARROW & TRASH PICKERS



- Use for transporting or holding materials: soil, amendments, tools, container trees.
- Lift with your legs and know the weight limits: do not overload it.
- We will have trash pickers to pick up and dispose litter, dog waste, and **questionable items**.
- **Always wear gloves.**



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Tulip Tree, (*Liriodendron tulipifera*) @ Westside Park

POST DRIVERS

- Use for driving tree stakes on either side of tree when planting is complete.
- Let gravity do the work, do not overexert yourself.
- When on a ladder, make sure you are on level ground.



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FRONT-END LOADERS



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- There will be a front-end loader present to help us move trees, be aware of your surroundings.
- Always keep a safe 5-6' distance from moving machines.
- For moving heavy B&B trees, do not use wheelbarrows



Dingo machine



Juniperus virginiana, Central Ward



AUGER & NURSERY JAWS

- We will be using an **auger** to dig tree pits!
- Keep the 5-6' distance rule while machine is operating, debris can go airborne.
- **Nursery jaws** are for moving heavy trees.
- Be an extra pair of eyes, make sure machine operator does not squeeze too tight!



A black and white photograph of a massive, ancient oak tree with a thick, gnarled trunk and sprawling branches. The tree stands in a cemetery filled with numerous gravestones of various shapes and sizes. The ground is covered in a layer of snow, suggesting a winter setting. The background shows more trees and a clear sky.

Some Big Tree Inspiration!

Quercus alba, 619yo

A photograph of a massive Eastern Hemlock tree trunk in a forest. The tree trunk is thick and covered in moss, with a rough, textured bark. It is surrounded by other trees and dense green foliage. Sunlight filters through the leaves, creating a dappled light effect. The forest floor is covered in fallen leaves and ferns.

A massive Eastern Hemlock (*Tsuga canadensis*),
Tillman Ravine.



The Bedford Oak, a White Oak estimated to be over 500yo.

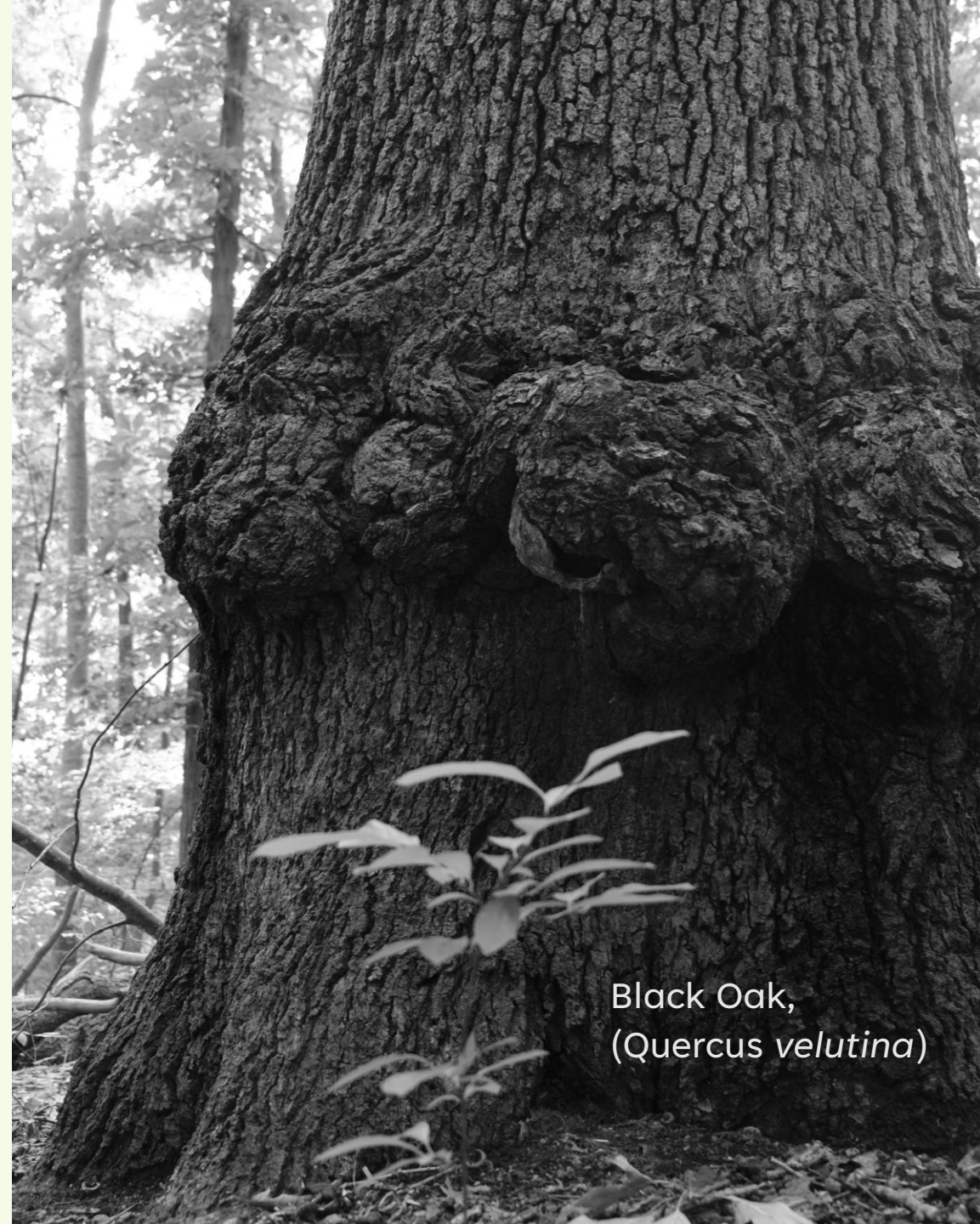
THANK YOU

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Black Oak,
(*Quercus velutina*)