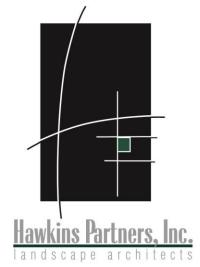
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The Tennessee Fund For Sustainability

Help us "releaf" Nashville at our 15th Annual ReLeafing Day on November 19

Sign up at the Nashville Tree Foundation table



FREE TREE GIVE-AWAY **Sponsored by CSX Transportation** and Alliance For Community trees

Limited quantity. Davidson County only. One per yard.

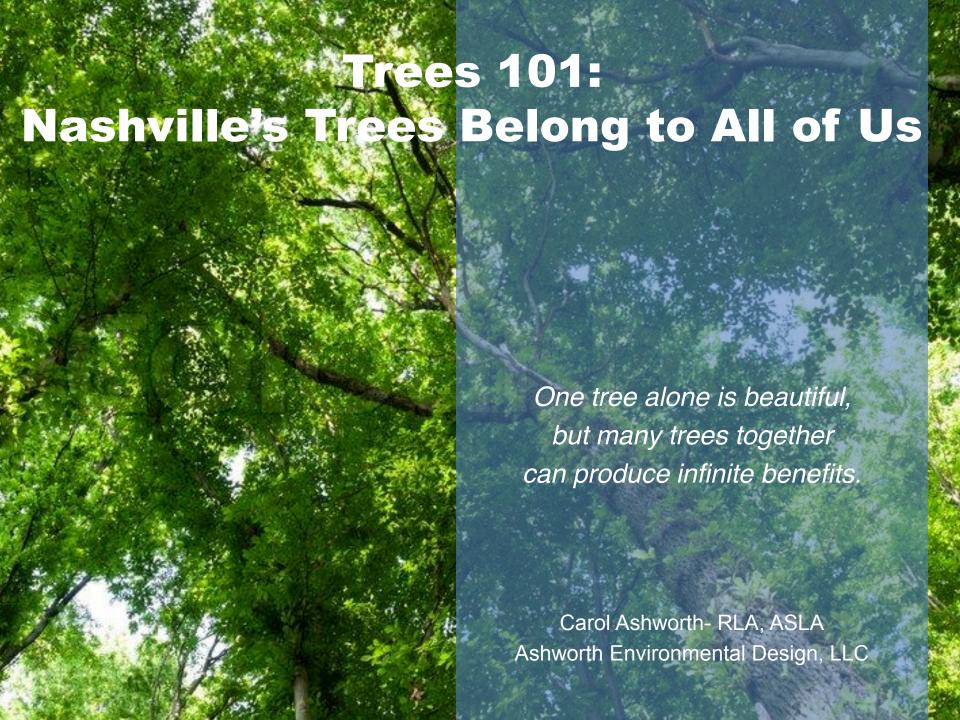


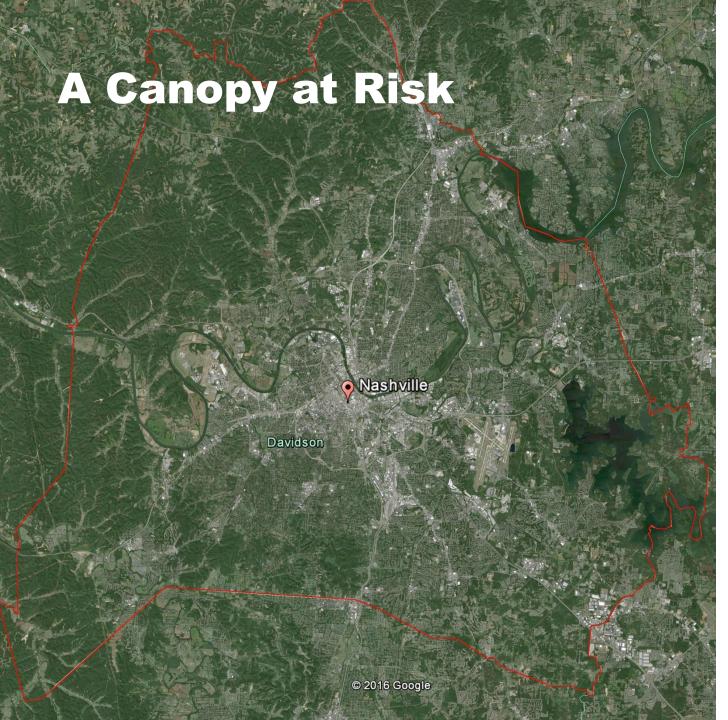


www.nashvilletreefoundation.org/releafing (Bring your tools. Limited supply of loaned tools from schools and parks.)

Thank you to our







In 2010, Nashville had 47% tree coverage.

During the next 20 years, Middle Tennessee will absorb 1 million new residents.*

A conservative estimate show 10,000 to 30,000 trees a year being lost in Nashville since the development boom.**

Planting and survival of new trees has to exceed removal and death of existing trees.

Trees should be as valued as any other city 'utility' that provides services.

^{*}Tennessee Ledger

^{**} Nashville Tree Task force



Environmental Benefits

- Habitat for wildlife.
- Shade reduces 'heat islands' in parking lots and public places.
- Clean Air- Trees remove pollutants and give back oxygen. A mature tree can absorb 48 pounds of carbon dioxide a year.
- Trees **reduce flooding** and **erosion**. 100 mature trees can catch up to 139,000 gallons of rainwater per year!
- Trees **reduce noise pollution** by absorbing sound.

Energy Savings

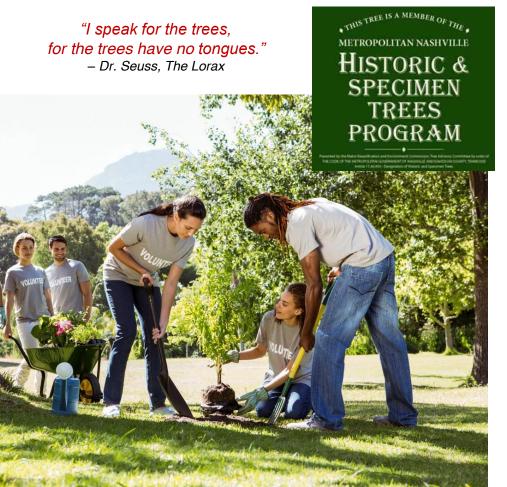
- Tree shade cools your home in the summer. One shade tree can reduce airconditioning needs by 30%!
- In winter, trees windbreaks can save on heating costs as much as 25 percent!

Social and Economic Benefits

- Trees improve the mental and physical health of residents and workers.
- Children with ADHD can benefit from the presence of trees.
- Trees increase property values much as 20%. A mature tree can have an appraised value of between \$1,000 and \$10,000.
- Trees improve resale of houses.
- Retail and commercial areas with trees attract customers and increase sales.

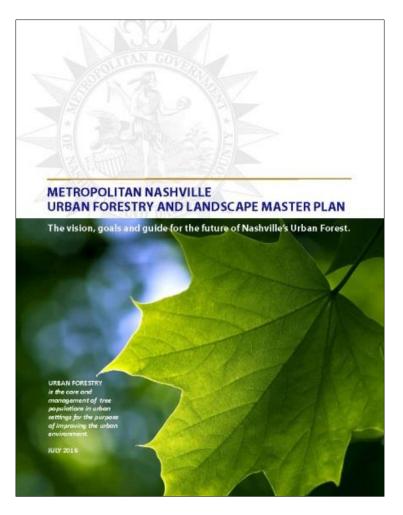
What You Can Do

Only a small percentage, (4.3%) of Nashville's land is controlled by Metro Government, therefore we, the citizens, must take the lead in preserving and growing Nashville's Urban Forest.



- Advocate to enforce and update existing Landscape Ordinances especially to include better Tree Protection Laws that include protection for trees on private residential property.
- Register your mature trees in Metro Historic and Specimen tree program.
- Report tree violations to Metro Codes
 Department- online Report a Volition.
- Advocate for a current tree inventory with interactive citizen participation in mapping and monitoring.
- Join tree advocacy groups like Nashville Tree
 Task Force and Nashville Tree Foundation.
- Educate yourself in proper horticultural techniques for tree care.
- Conduct tree planting projects in your area to implement Tree Canopy Goals found the Nashville Urban Forestry Master Plan.

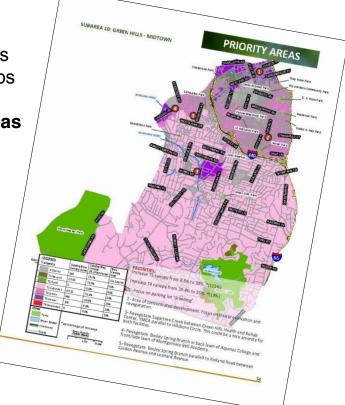
Nashville Urban Forest Master Plan Tree Canopy Target Goals



The **Nashville Urban Forestry Master Plan** is a guide for protecting and rebuilding the city's tree canopy.

It contains a series of community maps that analyze the

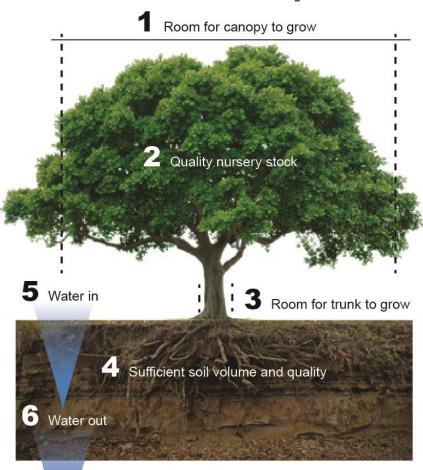
High Priority Areas for tree planting and preservation efforts.



Website- Trees.nashville.gov

Trees 101: The Right Tree in the Right Place

SIX Basic Tree Requirements



- Height and Spread. Will the tree bump into anything such as power lines when mature?
- Is the tree deciduous or coniferous?

 Will it lose its leaves in the winter?
- Form or shape. A columnar tree will grow in less space. Round and V-Shaped species provide the most shade.
- Growth rate. How long will it take for your tree to reach its full height? Slow growing species typically live longer than fast growing species.
- Soil, sun, and moisture requirements.
- Hardiness zone indicates the temperature extremes in which a tree can be expected to grow. Nashville is zone 6b.

Plant the RIGHT TREE in the RIGHT PLACE



Look UP first to avoid planting under power lines.

Use this guide to help you select the right tree for the right place on your property. By planning for the tree's growth, you're helping to prevent outages caused by limbs growing into power lines, and you're reducing the need for tree trimming in the future.



SMALL TREES Height up to 30 feet

15 feet



LARGE TREES

Mature Height over 50 feet 45' Minimum Planting Distance

Maple (Sugar, Red)

Poplar (Tulip, Yellow, Eastern, Swamp)

Leyland/Bald Cypress

Southern Magnolia

Oaks (Pin, Northern Red, White, Shumard)

MEDIUM TREES

Mature Height up to 50 feet 35' Minimum Planting Distance Ornamental Pears

Virginia Pine

Pawpaw

Imperial Honeylocust American/Foster Holly

SMALL "POWER LINE-FRIENDLY" TREES

Mature Height up to 30 feet 15' Minimum Planting Distance Buttonbush

Trident Maple

35 feet

Redbud

MEDIUM TREES

Height up to 50 feet

Sweetbay Magnolia

SHRUBS

Mature Height up to 20 feet 10´ Minimum Planting Distance

Natchez Crape Myrtle

Sumac

Emerald Green Arborvitae

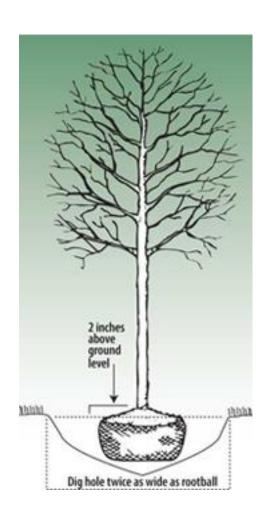
American Plum

Nellie R. Stevens Holly

How to Plant a Tree

- **Dig a V shaped hole** two to three times as wide as your rootball. Dig deep enough that the rootball is about 2" above ground level.
- Remove twine and burlap as much as possible. Cut wire baskets if you can't remove them. Always remove tape or rope around the trunk.
- **Fill the hole with water** and let it drain before placing tree in the hole. Fill hole with soil. Water deeply to settle soil and remove air pockets.
- **Do not stake trees**. If the tree is very unstable, install two stakes at either side. Remove no later than one year after planting.
- **Do not prune at planting.** You can remove dead wood, suckers, and broken or damaged branches.
- Add mulch to a depth of three to four inches around the tree.





Tree Maintenance



- Water your new tree regularly for the first two years of life, especially during periods of drought.
- **Do not fertilize your tree** for the first year after planting.
- Add mulch to a depth of three to four inches around the tree.
- Prune to remove dead wood anytime. Most pruning should be done during the winter while dormant. Do not prune in the fall. Learn about basic pruning.
 - Look for **Pest and Disease** problems and take corrective actions.



Don't make a mulch volcano!
Also leave several inches of clear space around the trunk so the mulch doesn't touch it.



DO NOT TOP TREES !!!
It's ugly, causes decay, and weak limbs.

Call a **Certified Arborist** instead. Arborist specialize in tree care and are trained and equipped to work safely.

Questions?

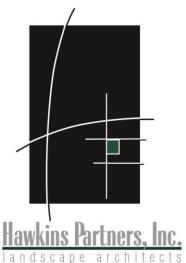


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What's Going On With Our Trees?

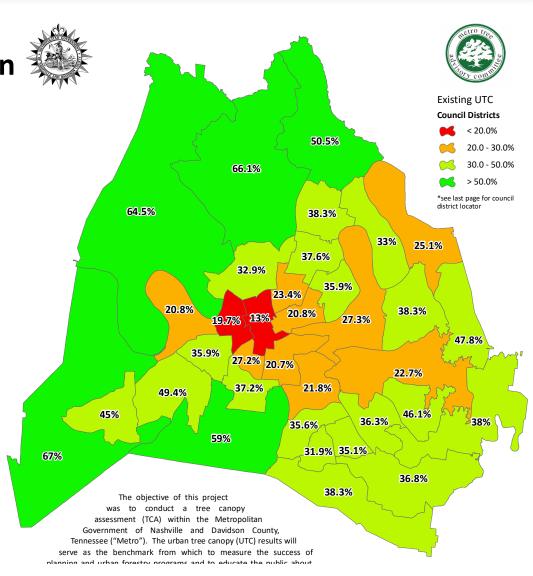
Metro Nashville and Davidson County Urban Tree Canopy Assessment April 2010

Trees: 47%

No Trees: 53%

Could Have Trees: 35%

Public Right-of-WayWith Trees: 15%



An Unprecedented Tree Canopy Loss...

Hard Hit Neighborhoods:

- East Nashville (D5, D6, D7)
- The Nations (D20)
- Antioch
 (D4, D28, D30, D31, D32)

At Risk Neighborhoods:

Bordeaux(D1)



Conservative Estimate: Ten-Thousand Trees/Year

It's difficult to know right now, but we do have some known data points.

City Building Permits (CRE + Residential)

2014: 3,500

2015: 4,900

2016: 3,700

District Six Inconsistent Tree Replacement

2016:

101 Violations; 295

Trees Owed

Louisville's Tree Canopy Study

\$115k Study by Davey Group

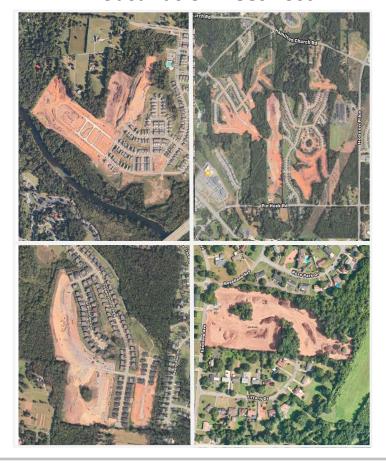
→ 54,000 Trees/Year!

Population Growth Since 2010:

a. Louisville, KY: 2.8%

b. Nashville, TN: 7.3%

Sub-Division Developments Thousands of Trees Lost



What Impact Do Missing Trees Have On Our City?

Storm Water Prevention is the easiest impact to quantify. According to the EPA's study of 18 cities across the U.S., a tree saves a city an average of \$17/year in Storm Water Interception.

Losing 10,000 Trees/Year				Losing 54,000 Trees/Year			
Years Passing	1 Year	5 Year	10 Year	Years Passing	1 Year	5 Year	10 Year
Trees Lost	10k	50k	100K	Trees Lost	54k	270k	540K
Tree Gained	4k	20k	40k	Tree Gained	4k	20k	40k
Discrepancy	6k	30k	60k	Discrepancy	50k	250k	500k
Discrepancy Cost Each Year (\$17/Tree)	\$102k	\$510K	\$1.02MM	Discrepancy Cost Each Year (\$17/Tree)	\$850k	\$4.2M	\$8.5MM

Cumulative Cost at Year 10: \$5.6MM

Cumulative Cost at Year 10: \$46.7MM

So What Can We Do?

Start L.E.A.F.ing and





Learn the Tree Codes

Enforce the Laws that Exist

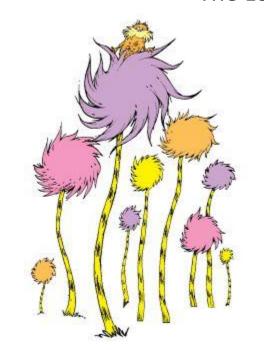
Advocate & Communicate

Find Your Council Member

Pick up a shovel and get active!

"It's not about what it is, it's about what it can become."

-The Lorax



Learn the Tree Codes: Three Codes

* E.A.F. A Breakdon Nashville

A Breakdown of the Tree Codes for Nashville

	Commercial (CRE) & Industrial	Multi-Family Residential (MFR)	Special Projects (SP)	NEW 1 & 2 Family Residential	Pre-2006 1 & 2 Family Residential
Historic & Specimen Tree Registry	YES	YES	YES	YES	YES
Tree Removal Ordinance	YES	YES	YES	NO	NO
Tree Replacement Code	YES	YES	YES	YES	NO

Important! The Historic & Specimen Tree Registry is the only code that protects mature trees in Davidson County.

Learn the Tree Codes: Historic & Specimen Tree Registry





- Recognizes and protects special trees that are historic or specimen quality.
 - Newly unveiled voluntary program.
 - You must have landowner permission to enter trees into the program
 - Registered trees are protected via deed restriction.
 - Removal must be approved by the Metro Beautification & Environment Commission.
 - (Metro Code § 17.40.450)

Learn the Tree Codes: Tree Removal Ordinance

(Commercial, Multi-Family, & Special Projects)







- It is unlawful to remove a "protected tree" without first obtaining a **Tree Removal Permit**.
 - Protected trees are trees six (6") inches or more in diameter on <u>any property other than a</u> <u>property platted for a 1 or 2 family residential</u> <u>development.</u>
 - Removal of protected trees may require 'replacement trees' based on an acceptable tree plan provided at the time of issuance of a Tree Removal Permit.
 - The tree removal penalty will be determined by the Environmental Court Judge (Division IV of the Metropolitan General Sessions Court).
 - (Ord. BL2008-328 § 3, 2009; Ord. 96-555 § 6.3(A), 1997)

Learn the Tree Codes: Tree Replacement Code



Commercial, Multifamily, And Industrial Tree Replacement



- Landscape plan is required; must satisfy Metro's tree density requirements.
- Approved by the Metro Urban Forester.
 Implemented by the builder.
- Following construction, properties are inspected for compliance with the landscape plan.
- Required trees must <u>be maintained into</u>
 <u>perpetuity</u>
- (Ord. BL2008-328 § 3, 2009; Ord. 96-555 § 6.3(A), 1997)

The approved Landscape Plan satisfies the requirements of the Tree Removal Permit

Learn the Tree Codes: Tree Replacement Code

(Single and Two-Family Residential)



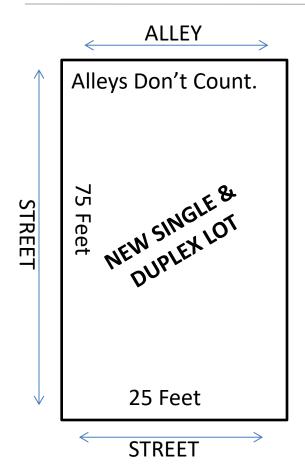
* E.A.F Single and Two-Family Residential

- The Tree Replacement Code governs tree planting requirements for single family and two-family residential, but is specifically written for home builders and developers of new housing.
 - Applies to all new houses built since 2009.
 - Applies to every house with substantial renovation <u>and</u> addition since 2009.
 - Applies when >25% increase in square footage <u>and</u> >25% increase in home value.
 - All required trees must be maintained into perpetuity! If they die, they must be replaced
 - (Metro Code § 17.24.100).

Learn the Tree Codes: Tree Replacement Code



Single and Two-Family Residential Tree Replacement Code Continued...



- The builder is required to plant the following:
 - One tree for every 30 feet of frontage ("or portion thereof" - meaning you must round-up).
 - Must be 2-inch caliper (when measured at 6 inches above grade).
 - Must be 6 feet tall.
 - Species must be selected from the Urban Forestry Recommended and Prohibited Tree list.
 - (Metro Code § 17.24.100)
- For example, a lot with 100 feet of street frontage must plant 4 trees.

Learn the Tree Codes: One, Two, TREE



Remembering how many trees to replace is as easy as One, Two, Three!

ONE: 1 Tree from Metro's Urban Tree List

TWO: 2 inches in caliper (diameter)

THREE: For every **30** feet of lot frontage



DON'T BE FOOLED

Arborvitae Don't Count! Crape Myrtle Don't Count! Hackberries Don't Count!



Enforce the Laws: Metro Codes

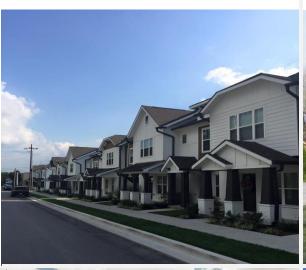
EAF Metro Codes Needs More Resources

- New Single & Two Family Properties: Building Inspector Dept.
 - Building Inspectors are responsible for the Tree Replacement Code (and all other building codes) and issue certificates of occupancy permit upon compliance.
- Commercial, Multifamily, Industrial Properties: Urban Forester
 - The <u>ONE</u> Urban Forester in metro is responsible for tree removal permitting on CRE, MFR, and Industrial properties.
- You can report violations on Metro Codes website or call their hotline; *Phone Number*: 615-862-6590 *Shortlink*: bit.ly/nashcode

"Proof of compliance...shall be provided prior to the issuance of a certificate of occupancy."

Enforce the Laws: Neighborhood Watch

EAF Need Trees? Report THESE!













Advocate & Communicate: Be Proactive!

L.E*A*F How to Help Your Neighborhood

- Developers often say, "We didn't know!"
- Print this letter and hang it on a newly developed house that is almost finished (as close to landscaping installation as possible).
 - If you want to estimate the number of trees they are required to plant, go to www.maps.nashville.gov and look up the address of the property and find the "lot frontage" and divide by 30)

FOR PROJECT MANAGER Dear Builder. Attached is a friendly reminder of the tree planting requirements within our city. Thank you for beautifying our neighborhood! Please be sure to regularly water any new trees during the hot summer months. New trees need lots of water to survive their first season. Sincerely, Address: Street Frontage: Trees Required:

Reach out to the Development & Real Estate Businesses Working in Your Neighborhood.

Find Your Council Member: The Legislative Fix



LEAF We Need to Advance Our City's

Tree Protection Code Tree Protection Code





- Atlanta's Tree Ordinance is a good example of how to protect an urban canopy:
- Permit to Remove, Destroy, or Injure Mature Tree
- Must replace a desirable mature tree with smaller trees equivalent to size of the mature tree taken down
- Tree Trust Fund for Tree Canopy Restoration, Maintenance, and Education
- Penalties go into the Tree Trust Fund
- Other Nashville peer cities with model urban tree canopy protection codes:
 - Raleigh, NC
 - Austin, TX
 - Portland, OR

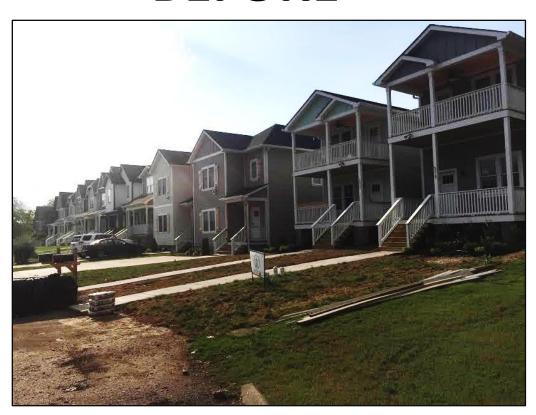
- Two guys in East Nashville found a hundred tree replacement code violations in six months... how many tree replacement code violations are happening in your neighborhood?
- **One street** came together around an idea to plant over thirty two-inch caliper trees on their street this fall...could your neighborhood be the next?
- **In 1998,** a few citizens organized the planting of over 8,000 trees after a devastating tornado...what can this room of people do TODAY?!

"Unless someone like you cares a whole awful lot, nothing is going to get better. It's not.

-The Lorax



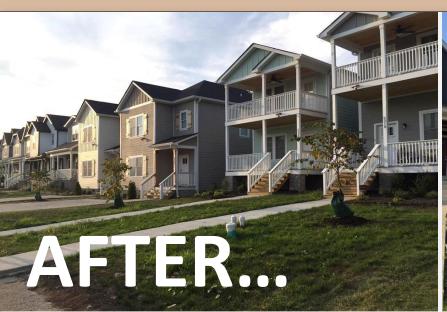
BEFORE



"Unless someone like you cares a whole awful lot, nothing is going to get better. It's not.

-The Lorax

















Join Nashville Tree Task Force!

Let's not be the generation that let our city's environment fall apart for the next generation to fix.

Questions?

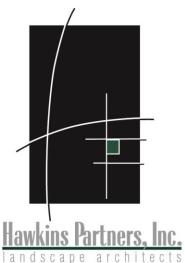


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<u>Scenario</u>: There is a tree growing on your property, but its branches protrude into your neighbors' back yard and over their pool. They have complained that they want the branches of your tree trimmed back because they are annoyed by all the leaves dropping into their pool.

Lane v. W.J. Curry & Sons, 92 S.W.3d 355 (Tenn. 2002)

- Self-help is no longer the sole remedy of an adjoining landowner; Nuisance actions may be brought.
- Encroaching trees and plants "may be regarded as a nuisance when they cause actual harm or pose an imminent danger of actual harm to adjoining

property."

Nuisance here:
 Clogged sewer pipes,
 hole in roof, damaged
 ceilings and floors.

Cathcart v. Malone, 33 Tenn App. 93 (1950)

Boundary tree: "A tree standing on the division line between adjoining proprietors, so that the line passes through the trunk or body of the tree above the surface of the soil, is the common property of both proprietors as tenants in common."



Takeaways

- ✓ Litigation is expensive. Be proactive.
- ✓ Obtain a survey.
- ✓ If necessary, you may want to obtain an expert to determine the value of the destroyed trees.
- ✓ Contact an attorney to discuss your rights.

Questions?

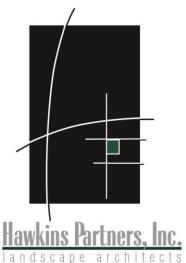


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