



# Agenda

## Tree Board Regular Meeting

9:00 AM May 15, 2024

Board Meeting Room, Town Hall Annex, 105 E. Corbin St.

1. **Call to order, roll call, and confirmation of quorum**
2. **Agenda changes and approval**
3. **Minutes review and approval**
  - A. [Minutes](#) from regular meeting on April 17, 2024
4. **Discussion items**
  - A. Debrief Earth Evening (Tom, Linda)
  - B. Discuss Treasure Tree selection for 2024 (Tom)
  - C. Review National Pollinator Week planning (Info. from Sarah Meadows)
5. **Tree Board related reports**
  - A. Garden Club (Sharon)
  - B. Invasive Species Removal Team (Tom, Tim, Brian)
  - C. Prohibited/Recommended Plant Lists Subcommittee (Linda, Mixon, Sharon)
  - D. Education/Outreach Materials Subcommittee (Bridget, Mixon)
6. **Staff Updates**
  - A. Updates on upcoming meeting schedule, board membership
7. **Adjournment**

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# Minutes

## TREE BOARD

Regular meeting

9 a.m. April 17, 2024

Board Meeting Room of Town Hall Annex, 105 E. Corbin St.



Present: Chair Linda Paynter, Mixon Nelson, Thomas Darling and Jon Simpson  
Absent: Vice Chair Bridget Booher, Sharon Billings and Greg Yavelak  
Staff: Public Space and Sustainability Manager Stephanie Trueblood

### 1. Call to order, roll call and confirmation of quorum

Chair Linda Paynter called the meeting to order at 9 a.m. Public Space and Sustainability Manager Stephanie Trueblood called the roll and confirmed the presence of a quorum.

### 2. Agenda changes and approval

There were no changes. The agenda stood as presented.

Motion: Jon Simpson moved to approve the agenda as it stood. Thomas Darling seconded.

Vote: 4-0.

### 3. Minutes review and approval

Minutes from regular meeting on March 20, 2024

Motion: Chair Linda Paynter moved approval of the March 20, 2024, minutes as submitted. Simpson seconded.

Vote: 4-0

### 4. Discussion items

#### A. Earth Evening planning

Darling gave an update on planning for the event. The board discussed successful elements for the table.

#### B. National Pollinator Week June 17-24, 2024

Trueblood conveyed information from the Garden Club representative, Sarah Meadows. The Garden Club organized events, and the Town of Hillsborough will cross promote them. The Tree Board can add events as desired.

The board discussed hosting an invasive species removal event at the easement near the Gold Park Pollinator Garden. Darling suggested a site visit by board members first.

#### C. Discuss Treasure Tree selection for 2024

Darling volunteered to prepare information for the Cottonwood tree located near Gold Park.

### 5. Updates

#### A. Garden Club

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Since Sharon Billings was absent, there was no report.

B. Invasive Removal Team

Tim Logue and Brian Mayell reported of Japanese knotweed infestations at multiple locations near the Eno River. They will be meeting with North Carolina representatives and homeowners to develop a control plan for the knotweed. Paynter suggested adding knotweed to the May agenda.

Mayell also reported on an ongoing discussion with Dave Owens regarding the plant species planted along the Eno River by the Invasive Species Removal team.

C. Prohibited/Recommended Plant Lists Subcommittee

The list is underway according to Paynter. Trueblood suggested removing the current list from the town website to avoid confusion.

D. Education/Outreach Materials Subcommittee

Mixon Nelson reported the materials are near completion.

E. Staff

Trueblood reported:

- The Climate Challenge continues through April 22, 2024.
- The Fairview Community Watch has upcoming workdays.

**6. Adjournment**

Paynter adjourned the meeting at 10:39 a.m.

Respectfully submitted,




Stephanie Trueblood  
Public Space and Sustainability Manager  
Staff support to the Tree Board

Approved: Month X, 202X

Bee City Committee Hillsborough Garden Club  
Pollinator Week June 17-24, 2024 Potential Activities

1. Publicity: Pollinator Week will be announced on the HGC website and Facebook page and in an article for News of Orange.
2. Wildflower of the Year Seed Distribution from NC Botanical Garden.
  - 250 packets will be distributed at the HGC Plant Sale on May 11. Please note that the plant offerings will be mostly native plants and pollinator plants. We will distribute pollinator plant lists at this event.
  - The remaining 250 will be distributed at the library and at local businesses.
3. Sarah will ask that Town staff erect the Pollinator Week banner starting in early June.
4. Sarah will send written requests to Mayor Bell and Governor Cooper asking each for a June 17-23 Pollinator Week proclamation, along with a sample proclamation from Pollinator Partnership.
5. Pollinator Week additional activities:
  - a. Possible Open Gardens in the Forest Ridge subdivision – Penny reported that her subdivision HOA wants to hold a free open garden event in the spring to offer free tours of pollinator gardens volunteered by residents.’ Penny will ask if the HOA will coordinate the dates during the celebration of Pollinator Week.
6. Additional event for Pollinator Week would be an open garden event at Tammy Dorfman's house. She has extensive native plantings and a raised bed vegetable garden.
7. Other outreach TBA

## Prohibited list Draft May 2024

	Habit	Scientific Name	Common Name
	Tree	<i>Acer platanoides</i>	Norway Maple
	Tree	<i>Acer saccharinum</i>	Silver Maple
	Tree	<i>Ailanthus altissima</i>	Tree of Heaven, Copal Tree
	Tree	<i>Albizia julibrissin</i>	Mimosa, Silktree
	Tree	<i>Broussonetia papyrifera</i>	Paper Mulberry
	Tree	<i>Cupressocyparis leylandii</i>	Leyland Cypress
	Tree	<i>Melia azadarach</i>	Chinaberry, Pride of India
	Tree	<i>Morus alba</i>	White Mulberry
	Tree	<i>Paulownia tomentosa</i>	Princess Tree
	Tree	<i>Populus alba</i>	White Poplar
	Tree	<i>Populus nigra</i>	Lombardy Poplar
	Tree	<i>Pyracantha</i> spp	Scarlet firethorn, Formosa firethorn, <i>Pyracantha</i>
	Tree	<i>Pyrus calleryana</i>	Bradford Pear, Callery pear
	Tree	<i>Quercus acutissima</i>	Sawtooth Oak
	Tree	<i>Robinia pseudoacacia</i>	Black Locust
	Tree	<i>Salix alba</i>	White Willow
	Tree	<i>Salix babylonica</i> and all var.	Weeping willow
	Tree	<i>Salix cinerea</i>	Gray willow
	Tree	<i>Salix fragilis</i>	Crack willow
	Tree	<i>Salix viminalis</i>	Basket Willow/ osier
Tree	<i>Triadica sebifera</i>	Tallowtree	
Tree	<i>Ulmus parviflora</i>	Chinese elm	
Tree	<i>Ulmus pumila</i>	Siberian Elm	
	Shrub/Vine	<i>Akebia quinata</i>	Fiveleaf Akebia
	Shrub/Vine	<i>Ampelopsis brevipedunculata</i> <i>aka Ampelopsis glandulosa</i>	Porcelain Berry Vine
	Shrub/Vine	<i>Berberis bealei</i> <i>aka Mahonia bealei</i>	Leatherleaf mahonia
	Shrub/Vine	<i>Berberis thunbergii</i>	Japanese Barberry
	Shrub/Vine	<i>Buddleja davidii</i> <i>aka Buddleia davidii</i>	Butterfly bush
	Shrub/Vine	<i>Causonis japonica</i> <i>aka Cayratia japonica</i>	Bushkiller, Sorrel vine

	Shrub/Vine	Celastrus orbiculatus	Oriental Bittersweet Vine NCNWL
	Shrub/Vine	Citrus trifoliata	Hardy orange, Trifoliolate orange
	Shrub/Vine	Clematis paniculata <i>aka</i> terniflora <i>aka</i> dioscoreifolia	Sweet Autumn Clematis
	Shrub/Vine	Cytisus scoparius	Scotch Broom
	Shrub/Vine	Dioscorea polystachya <i>aka</i> Dioscorea oppositifolia	Chinese Yam, Cinnamon vine
	Shrub/Vine	Elaeagnus angustifolia	Russian Olive, Silverleaf
	Shrub/Vine	Elaeagnus pungens	Thorny Olive
	Shrub/Vine	Elaeagnus umbellata	Autumn olive
	Shrub/Vine	Euonymus alatus	Burning Bush
	Shrub/Vine	Euonymus fortunei <i>all variants</i>	Wintercreeper
	Shrub/Vine	Hedera helix	English Ivy
	Shrub/Vine	Hibiscus syriacus	Rose of Sharon
	Shrub/Vine	Humulus scandens <i>aka</i> Humulus japonicus	Japanese hops
	Shrub/Vine	Ilex Cornuta and varieties	Chinese Holly
	Shrub/Vine	Ipomoea quamoclit	Cypressvine Morninglory
	Shrub/Vine	Ligustrum japonicum & cultivars	Common Privet
	Shrub/Vine	Ligustrum lucidum & cultivars	Waxleaf Privet
	Shrub/Vine	Ligustrum sinense & cultivars	Chinese Privet
	Shrub/Vine	Ligustrum vulgare	European privet
	Shrub/Vine	Lonicera fragrantissima	Fragrant honeysuckle
	Shrub/Vine	Lonicera japonica	Japanese Honeysuckle
	Shrub/Vine	Lonicera maackii	Amur honeysuckle
	Shrub/Vine	Lonicera morrowii	Morrow honeysuckle
	Shrub/Vine	Lonicera standishii	Standish's honeysuckle
	Shrub/Vine	Lonicera tatarica	Tatar honeysuckle
	Shrub/Vine	Lonicera x bella	Pretty honeysuckle
	Shrub/Vine	Lygodium japonicum	Japanese climbing fern
	Shrub/Vine	Nandina domestica <i>All variants</i>	Heavenly bamboo
	Shrub/Vine	Poncirus trifoliata <i>aka</i> Citrus trifoliata	Trifoliolate orange
	Shrub/Vine	Rhamnus cathartica /catharticus	European/common buckthorn
	Shrub/Vine	Rosa lucieae <i>aka</i> Rosa wichuraiana	Memorial rose
	Shrub/Vine	Rosa multiflora	Multiflora Rose
	Shrub/Vine	Rubus phoenicolasius	Wineberry, Wine raspberry
	Shrub/Vine	Solanum viarum	Tropical soda apple

	Shrub/Vine	<i>Spiraea japonica</i> <i>and variants</i>	Japanese Spiraea
	Shrub/Vine	<i>Viburnum dilatatum</i>	Linden Arrowwood/Viburnum
	Shrub/Vine	<i>Wisteria floribunda</i>	Japanese Wisteria
	Shrub/Vine	<i>Wisteria sinensis</i>	Chinese Wisteria
	Shrub/Vine	<i>Wisteria x formosa</i> ( <i>W. floribunda</i> x <i>sinensis</i> )	Hybrid asian wisteria
	Herb	<i>Allium vineale</i>	Field Garlic, onion-grass
	Herb	<i>Centaurea stobe</i> <i>aka</i> <i>Centaurea beiberstenii</i> <i>aka</i> <i>Centaurea maculosa</i>	Spotted knapweed, Bushy knapweed
	Herb	<i>Cirsium arvense</i>	Canada thistle
	Herb	<i>Corydalis incisa</i>	Purple Kenman
	Herb	<i>Ficaria Verna</i> <i>aka</i> <i>Ranunculus Verna</i>	Fig buttercup, lesser celandine
	Herb	<b>Hemerocallis spp.</b>	Daylily
	Herb	<i>Lespedeza bicolor</i>	Bicolor lespedeza <i>aka</i> Shrubby lespedeza
	Herb	<i>Lespedeza cuneata</i>	Sericea lespedeza <i>aka</i> Chinese lespedeza
	Herb	<i>Liriope muscari</i>	Monkey grass, lirope
	Herb	<i>Perilla frutescens</i>	Perilla <i>aka</i> Beefsteak plant
	Herb	<i>Vitex rotundifolia</i>	Beach vitex
	Herb	<i>Youngia japonica</i>	Asiatic hawk's beard
	Groundcover/Grass	<i>Ajuga Reptans</i>	Bugleweed
	Groundcover/Grass	<i>Alliaria petiolata</i>	Garlic Mustard
	Groundcover/Grass	<i>Arthraxon hispidus</i>	Basket grass, Hairy Johnsongrass
	Groundcover/Grass	<i>Arum italicum</i>	Itain arum, Lords-and-ladies
	Groundcover/Grass	<i>Arundo donax</i>	Giant Reed
	Groundcover/Grass	<i>Glechoma hedereacea</i>	Ground ivy, Gill-over-the-ground
	Groundcover/Grass	<i>Imperata cylindrica</i> all variations	Cogongrass, Japanese blood grass
	Groundcover/Grass	<i>Iris psuedoacorus</i>	Yellow Flag
	Groundcover/Grass	<i>Lysimachia nummularia</i>	Creeping Jenny
	Groundcover/Grass	<i>Lythrum salicaria</i>	Purple Loosestrife
	Groundcover/Grass	<i>Microstegium vimineum</i>	Japanese Stiltgrass
	Groundcover/Grass	<i>Miscanthus sinensis</i>	Chinese Silvergrass
	Groundcover/Grass	<i>Persicaria perfoliata</i> <i>aka</i> <i>Polygonum perfoliatum</i> ,	Mile-a-minute-vine, Asiatic Tearthumb
	Groundcover/Grass	<i>Phalaris arundinacea</i>	Reed Canarygrass
	Groundcover/Grass	<i>Phragmites australis</i>	Common reed, Old world reed

	Groundcover/Grass	Phyllostachys aurea	Golden Bamboo
	Groundcover/Grass	Phyllostachys nigra	Black Bamboo
	Groundcover/Grass	Pueraria montana <i>all variations</i>	Kudzu
	Groundcover/Grass	Reynoutria japonica <i>aka Fallopia japonica</i> <i>aka Polygonum cuspidatum</i>	Japanese Knotweed
	Groundcover/Grass	Reynoutria sachalinensis <i>aka Polygonum sachalinense</i> <i>aka Fallopia sachalinensis</i>	Giant Knotweed
	Groundcover/Grass	Reynoutria x bohemica <i>Reynoutria hybrid</i>	Bohemian knotweed
	Groundcover/Grass	Sasa palmata,	Dwarf Bamboo
	Groundcover/Grass	Sasa pygmaea	
	Groundcover/Grass	Securigera varia <i>aka Coronilla varia</i>	Crownvetch
	Groundcover/Grass	Sorghum halapense	Johnson grass
	Groundcover/Grass	Stellaria media	Common chickweed
	Groundcover/Grass	Tussilago farfara	Coltsfoot
	Groundcover/Grass	Vinca major	Vinca, periwinkle
	Groundcover/Grass	Vinca minor	Vinca, periwinkle
	Aquatic	Alternanthera philoxeroides	Alligator weed
	Aquatic	Egeria densa	Brazilian waterweed
	Aquatic	Hydrilla verticillata	Hydrilla FNWL
	Aquatic	Murdannia keisak	Asian Spiderwort
	Aquatic	Myriophyllum aquaticum	Parrot Feather
	Aquatic	Myriophyllum spicatum	Eurasian Watermilfoil
	Aquatic	Nymphoides cristata	Crested Floating Heart
	Aquatic	Nymphoides indica	Water snowflake
	Aquatic	Nymphoides peltata	Yellow Floating Heart
	Aquatic	Oshuna crassipes <i>aka Eichhornia crassipes</i>	Water hyacinth
	Aquatic	Salvinia molesta	Giant salvinia



**How list was built - draft Hillsborough UDO Prohibited list**

	Source	Current inclusion in HUDO draft	Website	Notes on source
1	Original UDO Hillsborough list	All non-natives, which happen to be included already on NC IPC	<a href="https://assets.hillsboroughnc.gov/media/documents/public/recommended-and-prohibited-plants-list.pdf">https://assets.hillsboroughnc.gov/media/documents/public/recommended-and-prohibited-plants-list.pdf</a>	We have removed the native plants from this original list. Our criteria are more focused on invasive plants. We assume the expertise on which plants will do well is held by the professional landscapers employed by developers.
2	NC IPC 2023 Invasives list	All plants Rank 1 - Severe threat  All plants Rank 2 - Significant threat  Rank 3 and watchlists? TL on the case to find out which plants on these lists are still available commercially	<a href="https://nc-ipc.weebly.com/uploads/6/8/4/6/6846349/invasive_plant_list_ranked_-_2023-11-16.pdf">https://nc-ipc.weebly.com/uploads/6/8/4/6/6846349/invasive_plant_list_ranked_-_2023-11-16.pdf</a>	This is our main source of invasive plants. It has been contributed to and is used by the main actors in invasive plant information such as the Botanical Garden, Wildflower NC, and many knowledgeable contributors.  NC Invasive Plants List ranks invasive plants by level of threat and also includes a "watch list". Invasive plants are ranked as:  Rank 1: Severe Threat Rank 2: Significant Threat Rank 3: Lesser Threat Watchlist A and B
3	NC IPC 'shun list'	All plants on this list.		41-ish plants that IPC consider invasive and readily available to purchase
4	NC IPC Piedmont list	All except 7 plants on this list.	<a href="https://nc-ipc.weebly.com/piedmont-invasive-plants.html">https://nc-ipc.weebly.com/piedmont-invasive-plants.html</a>	Omitted 7 plants on this list, those being Ranks 3 and below, AND not available for purchase: Tribulus terrestris Cyperus entrerianus Heracleum mantegazzianum Lygodium microphyllum Oplismenus hirtellus Tamarix ramosissima Ludwigia hexapetala
5	Raleigh Invasive Species program	thinking about daylilies and crepe myrtles	<a href="https://cityofraleigh0drupal.blob.core.usgovcloudapi.net/drupal-prod/COR24/invasive-species-native-alternatives.pdf">https://cityofraleigh0drupal.blob.core.usgovcloudapi.net/drupal-prod/COR24/invasive-species-native-alternatives.pdf</a>	Includes a couple problematic plants that are not IPC invasives - Crepe myrtle and daylilies. Something to consider in our local environment.
6	NC Forest Service	All plants on this list	<a href="https://www.ncforestservice.gov/forest_health/invasives.htm">https://www.ncforestservice.gov/forest_health/invasives.htm</a>	Very short list already covered by NC IPC list !
7	Tree board members			Please look around town and tell me about plants that are becoming bothersome

**Other sources considered but not included in consideration spreadsheet**

	Source	Why not included	Website
1	UNC Botanical garden	Uses NC Invasive Plant Council November 2023 list	
2	NC Wildflower	Uses NC Invasive Plant Council November 2023 list	
3	Carrboro website	Uses NC Forest service list	<a href="https://townofcarrboro.org/2679/invasive-Plants">https://townofcarrboro.org/2679/invasive-Plants</a>
4	Durham UDO	This list uses 1999 and 2005 sources, as well as sources that are not cited. Does not explain criteria for inclusion in list. May have included plants that are over-represented in urban landscapes but it doesn't say. I decided to cross refer but not consider too hard, as we have the Mother invasive list from NC IPC now.	<a href="https://www.durhamnc.gov/DocumentCenter/View/1034/Landscape-Manual-for-Durham-NC-PDF?bidid">https://www.durhamnc.gov/DocumentCenter/View/1034/Landscape-Manual-for-Durham-NC-PDF?bidid</a>

## Questions!

Are there any plants not listed that invade yards in Hillsborough?

How can we break this list up so our main worries are highlighted and so we don't lose our audience?

Just ban all types of ligustrum instead of naming them?

should we say all non-native lonicera? I guess we are not allowed to and need to list the banned ones out

Should we prohibit plants that are not doing well in this area, either due to pests of climate? Or just stick to those that are invasive?

If we are thinking longevity of plantings left by developers, this might be worth considering

(Sharon - ash, hawthorn, sweetgum)

Should we call them forbs or herbs?

# Answers!

<b>Prohibited list</b>							
	Draft Apr 2024						
<b>Habit</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Native</b>	<b>Old H,boro list</b>	<b>NC IPC 2023 Invasives Rank</b>	<b>NC IPC Shun List</b>	<b>NC IPC Piedmont list</b>
Tree	<i>Acer negundo</i>	Boxelder	y	Yes	no	n	n
Tree	<i>Acer platanoides</i>	Norway Maple	n	Yes	A	n	n
Tree	<i>Acer saccharinum</i>	Silver Maple	n	Yes	no	n	n
Tree	<i>Ailanthus altissima</i>	Tree of Heaven, Copal Tree	n	Yes	1	n	y
Groundcover/Grass	<i>Ajuga Reptans</i>	Bugleweed	n	n	3	n	n
Shrub/Vine	<i>Akebia quinata</i>	Fiveleaf Akebia	n	Yes	2	y	y
Tree	<i>Albizia julibrissin</i>	Mimosa, Silktree	n	Yes	1	y	y
Groundcover/Grass	<i>Alliaria petiolata</i>	Garlic Mustard	n	n	1	n	y
Herb	<i>Allium vineale</i>	Field Garlic, onion-grass	n	n	2	n	n
Aquatic	<i>Alternanthera philoxeroides</i>	Alligator weed	n	n	1	n	y
Shrub/Vine	<i>Ampelopsis brevipedunculata</i> <i>aka Ampelopsis glandulosa</i>	Porcelain Berry Vine	n	Yes	1	y	y
Groundcover/Grass	<i>Arthraxon hispidus</i>	Basket grass, Hairy Johnsongrass	n	n	2	n	y
Groundcover/Grass	<i>Arum italicum</i>	Itain arum, Lords-and-ladies	n	n	2	n	n
Groundcover/Grass	<i>Arundinaria sp.</i>	Golden Grove Bamboo	y	Yes	no	n	n
Groundcover/Grass	<i>Arundo donax</i>	Giant Reed	n	Yes	3	n	y
Shrub/Vine	<i>Berberis bealei</i> <i>aka Mahonia bealei</i>	Leatherleaf mahonia	n	n	2	y	y
Shrub/Vine	<i>Berberis thunbergii</i>	Japanese Barberry	n	Yes	2	y	y
Tree	<i>Broussonetia papyrifera</i>	Paper Mulberry	n	Yes	2	n	n
Shrub/Vine	<i>Buddleja davidii</i> <i>aka Buddleia davidii</i>	Butterfly bush	n	n	2	y	y
Shrub/Vine	<i>Causonis japonica</i> <i>aka Cayratia japonica</i>	Bushkiller, Sorrel vine	n	n	2	n	y
Herb	<i>Centaurea stobe</i> <i>aka Centaurea beiberstenii</i> <i>aka Centaurea maculosa</i>	Spotted knapweed, Bushy knapweed	n	n	2	n	n
Shrub/Vine	<i>Celastrus orbiculatus</i>	Oriental Bittersweet Vine NCNWL	n	Yes	1	y	y
Tree	<i>Celtis occidentalis</i>	Hackberry	y	Yes	no	n	n
Herb	<i>Cirsium arvense</i>	Canada thistle	n	n	2	n	n
Shrub/Vine	<i>Citrus trifoliata</i>	Hardy orange, Trifoliolate orange	n	n	2	n	n
Shrub/Vine	<i>Clematis paniculata</i> <i>aka terniflora</i> <i>aka dioscoreifolia</i>	Sweet Autumn Clematis	n	Yes	2	y	y
Herb	<i>Corydalis incisa</i>	Purple Kenman	n	n	2	n	n
Tree	<i>Cupressocyparis leylandii</i>	Leyland Cypress	n	Yes	no	n	n
Shrub/Vine	<i>Cytisus scoparius</i>	Scotch Broom	n	n	n	n	n
Shrub/Vine	<i>Dioscorea polystachya</i> <i>aka Dioscorea oppositifolia</i>	Chinese Yam, Cinnamon vine	n	n	1	n	n
Aquatic	<i>Egeria densa</i>	Brazilian waterweed	n	n	2	n	y
Shrub/Vine	<i>Elaeagnus angustifolia</i>	Russian Olive, Silverleaf	n	Yes	2	y	y
Shrub/Vine	<i>Elaeagnus pungens</i>	Thorny Olive	n	Yes	2	y	y
Shrub/Vine	<i>Elaeagnus umbellata</i>	Autumn olive	n	Yes	1	y	y
Shrub/Vine	<i>Euonymus alatus</i>	Burning Bush	n	Yes	2	y	y
Shrub/Vine	<i>Euonymus fortunei</i> <i>all variants</i>	Wintercreeper	n	Yes	2	y	y
Herb	<i>Ficaria verna</i> <i>aka Ranunculus verna</i>	Fig buttercup, lesser celandine	n	n	1	y	y
Groundcover/Grass	<i>Glechoma hederacea</i>	Ground ivy, Gill-over-the-ground	n	n	2	n	y
Shrub/Vine	<i>Hedera helix</i>	English Ivy	n	Yes	1	y	y
Herb	<i>Hemerocallis spp.</i>	Daylily	n	n	no	n	n

Shrub/Vine	Hibiscus syriacus	Rose of Sharon	n	n	3	n	n
Shrub/Vine	Humulus scandens <i>aka</i> Humulus japonicus	Japanese hops	n	n	1	n	n
Aquatic	Hydrilla verticillata	Hydrilla FNWL	n	n	1	n	y
Shrub/Vine	Ilex Cornuta and varieties	Chinese Holly	n	n	3	n	n
Groundcover/Grass	Imperata cylindrica all variations	Cogongrass, Japanese blood grass	n	n	3	n	y
Shrub/Vine	Ipomoea purpurea /tricolor	Common Morninglory	n	Yes	no	n	n
Shrub/Vine	Ipomoea quamoclit	Cypressvine Morninglory	n	n	A	n	n
Groundcover/Grass	Iris psuedoacorus	Yellow Flag	n	Yes	2	y	y
Tree	Lagerstromemia indica	Crepe Myrtle	n	n	no	n	n
Herb	Lespedeza bicolor	Bicolor lespedeza <i>aka</i> Shrubby lespedeza	n	n	1	y	y
Herb	Lespedeza cuneata	Sericea lespedeza <i>aka</i> Chinese lespedeza	n	n	1	y	y
Shrub/Vine	Ligustrum japonicum & cultivars	Common Privet	n	Yes	1	y	y
Shrub/Vine	Ligustrum lucidum & cultivars	Waxleaf Privet	n	Yes	1	y	n
Shrub/Vine	Ligustrum sinense & cultivars	Chinese Privet	n	Yes	1	y	y
Shrub/Vine	Ligustrum vulgare	European privet	n	n	2	y	y
Herb	Liriope muscari	Monkey grass, lirope	n	n	3	n	n
Shrub/Vine	Lonicera fragrantissima	Frangrant honeysuckle	n	Yes	2	y	y
Shrub/Vine	Lonicera japonica	Japanese Honeysuckle	n	Yes	1	n	y
Shrub/Vine	Lonicera maackii	Amur honeysuckle	n	Yes	2	y	n
Shrub/Vine	Lonicera morrowii	Morrow honeysuckle	n	Yes	2	n	n
Shrub/Vine	Lonicera standishii	Standish's honeysuckle	n	n	2	n	n
Shrub/Vine	Lonicera tatarica	Tatar honeysuckle	n	Yes	2	n	n
Shrub/Vine	Lonicera x bella	Pretty honeysuckle	n	n	2	n	n
Shrub/Vine	Lygodium japonicum	Japanese climbing fern	n	n	2	n	n
Groundcover/Grass	Lysimachia nummularia	Creeping Jenny	n	Yes	2	n	n
Groundcover/Grass	Lythrum salicaria	Purple Loosestrife	n	Yes	2	n	y
Tree	Melia azadarach	Chinaberry, Pride of India	n	Yes	3	n	y
Groundcover/Grass	Microstegium vimineum	Japanese Stiltgrass	n	n	1	n	y
Groundcover/Grass	Miscanthus sinensis	Chinese Silvergrass	n	Yes	1	y	y
Tree	Morus alba	White Mulberry	n	Yes	2	n	n
Aquatic	Murdannia keisak	Asian Spiderwort	n	n	1	y	n
Aquatic	Myriophyllum aquaticum	Parrot Feather	n	n	1	y	y
Aquatic	Myriophyllum spicatum	Eurasian Watermilfoil	n	n	2	y	n
Shrub/Vine	Nandina domestica <i>All variants</i>	Heavenly bamboo	n	n	2	y	y
Aquatic	Nymphoides cristata	Crested Floating Heart	n	n	B	y	y
Aquatic	Nymphoides indica	Water snowflake	n	n	B	y	n
Aquatic	Nymphoides peltata	Yellow Floating Heart	n	n	3	y	n
Aquatic	Oshuna crassipes <i>aka</i> Eichhornia crassipes	Water hyacinth	n	n	2	n	n
Tree	Paulownia tomentosa	Princess Tree	n	Yes	1	n	y
Herb	Perilla frutescens	Perilla <i>aka</i> Beefsteak plant	n	n	2	y	y
Groundcover/Grass	Persicaria perfoliata <i>aka</i> Polygonum perfoliatum,	Mile-a-minute-vine, Asiatic Tearthumb	n	Yes	1	n	y
Groundcover/Grass	Phalaris arundinacea	Reed Canarygrass	n	Yes	no	y	y
Groundcover/Grass	Phragmites australis	Common reed, Old world reed	n	n	1	n	y
Groundcover/Grass	Phyllostachys aurea	Golden Bamboo	n	Yes	2	y	y
Groundcover/Grass	Phyllostachys nigra	Black Bamboo	n		2	n	n
Shrub/Vine	Poncirus trifoliata <i>aka</i> Citrus trifoliata	Trifoliolate orange	n	n	2	y	y
Tree	Populus alba	White Poplar	n	Yes	3	n	n
Tree	Populus deltoides	Cottonwood	y	Yes	no	n	n
Tree	Populus nigra	Lombardy Poplar	n	Yes	no	n	n
Groundcover/Grass	Pueraria montana <i>all variations</i>	Kudzu	n	Yes	1	n	n

tree	Pyracantha spp	Scarlet firethorn, Formosa firethorn, Pyracantha	n				n
Tree	Pyrus calleryana	Bradford Pear, Callery pear	n	Yes	1	y	y
Tree	Quercus acutissima	Sawtooth Oak	n	Yes	A	n	n
Groundcover/Grass	Reynoutria japonica <i>aka Fallopia japonica</i> <i>aka Polygonum cuspidatum</i>	Japanese Knotweed	n	Yes	1	n	y
Groundcover/Grass	Reynoutria sachalinensis <i>aka Polygonum sachalinense</i> <i>aka Fallopia sachalinensis</i>	Giant Knotweed	n	Yes	1	n	n
Shrub/Vine	Rhamnus cathartica /catharticus	European/common buckthorn	n	Yes		n	n
Tree	Robinia pseudoacacia	Black Locust	y/n	Yes	no	n	n
Groundcover/Grass	Reynoutria x bohémica <i>Reynoutria hybrid</i>	Bohemian knotweed	n	n	1	n	n
Shrub/Vine	Rosa luciae <i>aka Rosa wichuraiana</i>	Memorial rose	n	n	2	n	n
Shrub/Vine	Rosa multiflora	Multiflora Rose	n	Yes	1	n	y
Shrub/Vine	Rubus phoenicolasius	Wineberry, Wine raspberry	n	n	2	n	n
Tree	Salix alba	White Willow	n	Yes	no	n	n
Tree	Salix babylonica and all var.	Weeping willow	n	Yes	no	n	n
Tree	Salix cinerea	Gray willow	n	Yes	no	n	n
Tree	Salix fragilis	Crack willow	n	Yes	no	n	n
Tree	Salix viminalis	Basket Willow/ osier	n	Yes	no	n	n
Aquatic	Salvinia molesta	Giant salvinia	n	n	1	n	y
Groundcover/Grass	Sasa palmata,	Dwarf Bamboo	n	Yes	no	n	n
Groundcover/Grass	Sasa pygmaea		japan		no	n	n
Groundcover/Grass	Securigera varia <i>aka Coronilla varia</i>	Crownvetch	n	Yes	3	n	n
Shrub/Vine	Solanum viarum	Tropical soda apple	n	n	2	n	y
Groundcover/Grass	Sorghum halapense	Johnson grass	n	n	2	n	y
Shrub/Vine	Spiraea japonica <i>and variants</i>	Japanese Spiraea	n	Yes	1	y	n
Groundcover/Grass	Stellaria media	Common chickweed	n	n	2	n	y
Tree	Triadica sebifera	Tallowtree	n	Yes	2	y	y
Groundcover/Grass	Tussilago farfara	Coltsfoot	n	n	2	n	n
Tree	Ulmus parviflora	Chinese elm	n	n	2	n	n
Tree	Ulmus pumila	Siberian Elm	n	Yes	A	n	n
Shrub/Vine	Viburnum dilatatum	Linden Arrowwood/Viburnum	n	Yes	2	n	n
Herb	Vitex rotundifolia	Beach vitex	n	n	1	y	n
Groundcover/Grass	Vinca major	Vinca, periwinkle	n	n	2	n	n
Groundcover/Grass	Vinca minor	Vinca, periwinkle	n	n	2	n	n
Shrub/Vine	Wisteria floribunda	Japanese Wisteria	n	Yes	1	y	y
Shrub/Vine	Wisteria sinensis	Chinese Wisteria	n	Yes	1	y	y
Shrub/Vine	Wisteria x formosa (W. floribunda x sinensis)	Hybrid asian wisteria	n	n	1	n	n
Herb	Youngia japonica	Asiatic hawk's beard	n	n	1	n	n

Raleigh Invasives Program	Forestry commision list	Notes	Keep prohibited?
n	n	Remove from banned list	No
n	n		?
n	n		?
n	y		y
y	n		
n	n		yes
y	y		y
n	y	still available to buy?	
n	n		
n	n	cannot buy	
y	y		yes
n	n		
n	n		
n	n	Remove from banned list	No
n	n		y
y	n		
y	n		yes
n	n		y
n	n		
n	n		
n	y		yes
n	n	Remove from banned list	No
n	n		
n	n		
y	n	IPC draft says these are pseudonyms in internet says paniculata is different. I'm not going to question the IPC, however	yes
n	n		
n	n	? Does this need banning? It dies so it's rubbish but not invasive. However already banned so maybe there re not so many around right now?	?
n	n		
n	n		
n	n		yes
n	n		yes
y	y		yes
y	n		yes
y	n		yes
y	n		
n	n		
y	y		yes
y	n	not on NC IPC list but on Raleigh list. H. fulva listed as invasive nationally.	ask

y	n		
n	n		
n	n		
y	n		
n	n		
y	n	remains banned	Yes
n	y		
n	n	wetlands threat	yes
y	n	Not added to list	ask
n	y		
n	y		
y	n		yes
y	n	Should we just say ligustrum sp. Is banned?	yes
y	n		yes
n	n		
y	n		No
y	y	Can we just say NO lonicera except Semprevirens	yes
n	n		yes
n	n		yes
n	n		
n	n		yes
n	n		
n	n		
	n	widely available	yes
	n		yes
	n		y
n	y		
n	y	rare now but threat from other states	yes
	n		y
n	n		
n	n		
n	n		
y	n		
n	n		
n	n		
n	n		
n	n		
	n		y
n	n		
	n	this one has sci names a kimbo, how to make sure people know what we are talking about.	
	n	currently invasive in mountains. Not on IPC main list but is on the shun list. Did this just go awol from ipc list?	?
n	n		
y	n		
	n		
n	n		
	n	Considered invasive in Maine though....	?
n	n	Remove from banned list	No
	n	this is a problematic landscaping tree but not invasive	?
	y		



y	y		y
	n	Native to Asia. It's already banned in hboro so maybe just keep it so?	?
	y	this is illegal	yes
	n		
	n	J Randall says bad at Mason Farm	?
	n	Native to Southern Apalachians and considered invasive to midwest, but not here. So does it need to be prohibited in H'boro? It was overplanted and not a good deveopment tree	Pending TL MM
n	n		
n	n		
	y		yes
n	n		
	n	I am guessing Salix is on list because it's a bad landscaping tree. None of them listed as invasive.  Was reported invasive twice in Orange County.... In 2008 and 2010 see link <a href="https://www.eddmaps.org/county.cfm?sub=11587&amp;country=926&amp;id=37135">https://www.eddmaps.org/county.cfm?sub=11587&amp;country=926&amp;id=37135</a>	?
	n	Reported invasive EDD in NC but not on NCIPC list. Invasive root system? It's also on the list of recommended trees ...I feel the need to investigate	?
	n	Not listed as NC invasive but adaptable in water bodies in other states	?
	n	Invasive around water IN OTHER STATES	?
	n	Makes beautiful baskets. Don't be mean	? I say no
n	n		
	n	Predicted to be invasive but not on IPC radar. I think it's hard to control in a yard setting. If it's already prohibited, maybe keep it so. We have a native alternative anyway.	
	n	same story as sasa pamata	
	n		?
n	n		
n	n		
	n		yes
n	n		
	y		y
n	n		
n	n		
	n		y
	n	I'd say easy to find native alternatives	?
n	n	not sure this is in our area...	
y	n		
y	n		
	y		yes
	y		yes
n	n		



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Type	Tolerance			Common Names	Scientific Name	Category										
	Canopy	Understory	Shrub			Drought Tolerant	Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butlers: Constructed / Mitigated
			D	W	Bottlebrush Buckeye	Aesculus parviflora										
			E		Florida Leucothoe, Florida-hobblebush	Agarista populifolia					Y	Y				Y
			D	W	Allegheny Chinkapin	Castanea pumila							Y			Y
			D	W	New Jersey Tea, Redroot, Wild Snowball	Ceanothus americanus				Y	Y					Y
			D	D	Buttonbush	Cephalanthus occidentalis							Y			Y
			D		American Filbert, American Hazelnut	Corylus americana							Y			Y
					Cockspur Hawthorn	Crataegus crus-galli										Y
			E	W	Dense St. Johnswort, Dense Hypericum	Hypericum densiflorum			Y				Y	Y		Y
			E	W	Golden St. Johnswort	Hypericum frondosum			Y	Y			Y	Y		Y
			E	W	Small Anise-Tree / Yellow Anise-tree	Illicium parviflorum			Y				Y	Y	Y	Y
			E	W	Eastern Redcedar	Juniperus virginiana			Y				Y	Y	Y	Y
			E	W	Mountain Laurel	Kalmia latifolia							Y			Y
			D		American Crabapple, Sweet Crabapple	Malus coronaria										Y
			D		American Plum, American Wild Plum, Wild Plum	Prunus americana										Y
					Chickasaw Plum	Prunus angustifolia										Y
			D	W	White Oak	Quercus alba	Y	Y								Y
			D	T	Overcup Oak	Quercus lyrata	Y	Y	Y				Y	Y	Y	Y
			D	W	Fragrant Sumac	Rhus aromatica			Y	Y			Y	Y	Y	Y
			D	W	Sumac	Rhus typhina					Y	Y				Y
			D	W	American Elm, White Elm	Ulmus americana	Y	Y	Y				Y	Y	Y	Y
			D	W	Brook-Feather, Yellowroot	Xanthorhiza simplicissima			Y	Y			Y	Y	Y	Y
			D	D	Common Silverbell, Mountain Silverbell, Silverbell Tree	Halesia monticola							Y			Y
			D	D	Black Cherry, Wild Cherry, Cabinet Cherry, Rum Cherry	Prunus serotina			Y							Y
			D	W	American Dogwood, Creek Dogwood, Red Osier Dogwood, Redstem Dogwood, Red Twig Dogwood, Redtwig Dogwood, Red Willow, Tatarian Dogwood, Western Dogwood	Cornus sericea					Y	Y				Y
					American Swamp Lily, Lizard's Tail	Saururus cernuus				Y						Y
			D	T	Hardhack, Steeplebush, Rosy Meadowsweet	Spiraea tomentosa				Y						Y
			D	W	River Birch	Betula nigra	Y	Y	Y				Y	Y	Y	Y
			E	W	Atlantic Whitecedar, Whitecedar Falsecypress	Chamaecyparis thyoides					Y	Y				Y

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<b>Foundation Plantings</b>	Smaller shrubs and/or understory trees intended to break up the building's foundational elements. Adequate spacing from the foundation to avoid conflicts with the planting materials should be a consideration.
<b>Site Distance Triangle</b>	Smaller shrubs and groundcover plantings that attain a maximum height of 3-4' at maturity.
<b>Screening</b>	Plants that can visually block objects or areas on the other side.
<b>Vehicle Service Area (VSA): Perimeter Buffer</b>	A combination of canopy and understory trees with shrubs intended to provide screening toward adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas.
<b>Vehicle Service Area (VSA): Interior Landscaping</b>	A combination of canopy and understory trees with shrubs intended to provide screening from the adjacent rights-of-way and adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas. Plantings should avoid materials that could shed and cause damage to vehicles.
<b>Vehicle Service Area (VSA): Tree and Terminal Islands</b>	A combination of canopy and understory trees with shrubs intended to break up large off-street parking areas. Planting should be sized and selected to survive smaller spaces and heat. Plantings should avoid materials that could shed and cause damage to vehicles.
<b>Buffers: Constructed / Mitigated</b>	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required vegetative buffers. Plantings should be selected and designed to fill in the voided or denuded areas.
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	E		W	T	American Holly, Christmas Holly	Ilex opaca				Y	Y			Y	Y
	E		W		Topel Holly, Foster's Hybrid Hollies	Ilex x attenuata	Y	Y		Y	Y	Y	Y	Y	
	E		W	T	Common Juniper	Juniperus communis				Y	Y	Y	Y	Y	
	E		W	T	Eastern Redcedar	Juniperus virginiana		Y	Y	Y	Y	Y	Y	Y	
	D		W	T	Sweetgum	Liquidambar styraciflua	Y	Y	Y			Y	Y	Y	
	D		W		Tulip Poplar 'Little Volunteer'	Liriodendron tulipifera	Y	Y	Y			Y	Y	Y	
	D		W	T	Tulip Poplar, Yellow Poplar, Tuliptree	Liriodendron tulipifera	Y							Y	Y
	D			T	Cucumber Tree	Magnolia acuminata	Y							Y	
	D				Big-leaf Magnolia	Magnolia macrophylla	Y							Y	
	D		W	T	Blackgum, Black Gum, Black Tupelo, Sourgum, Pepperidge, Tupelo Gum	Nyssa sylvatica	Y	Y						Y	
	D		W		Swamp Tupelo	Nyssa sylvatica var. biflora	Y							Y	Y
	E			T	Shortleaf Pine	Pinus echinata	Y							Y	
	E			T	Eastern White Pine, Northern White Pine, Weymouth Pine, and Soft Pine	Pinus strobus				Y					
	E	E		T	Virginia Pine	Pinus virginiana				Y					
	E		W	T	Carolina Cherry laurel	Prunus caroliniana				Y	Y			Y	Y
	D		W	T	Scarlet Oak	Quercus coccinea	Y	Y	Y			Y	Y	Y	Y
	D			T	Pin Oak	Quercus palustris	Y	Y				Y	Y	Y	Y
	D		W		Shumard Oak, Shumard's Oak, Shumard Red Oak, Swamp Red Oak, Spotted Oak	Quercus shumardii	Y	Y	Y			Y	Y	Y	Y
	D			T	Pond Cypress	Taxodium ascendens	Y	Y	Y			Y	Y	Y	Y
	D			T	Bald Cypress	Taxodium distichum	Y	Y	Y			Y	Y	Y	Y
		E			Eastern or American Arborvitae, White Cedar	Thuja occidentalis		Y				Y	Y	Y	
	E				Eastern or American Arborvitae, White Cedar	Thuja occidentalis		Y	Y	Y	Y	Y	Y	Y	
	D		W		American Linden, Basswood	Tilia americana	Y	Y						Y	
SE			W	T	Southern Sugar Maple, Florida Maple	Acer barbatum	Y	Y	Y			Y	Y	Y	
	SE		W		Chalkbark, Chalk Maple, Whitebark Maple	Acer leucoderme								Y	
D				T	Red Maple, Eastern Red Maple	Acer rubrum	Y	Y						Y	Y
D					Sugar Maple	Acer saccharum	Y	Y						Y	
D				T	Yellow Buckeye	Aesculus flava	Y							Y	
D				T	Yellow Buckeye	Aesculus octandra	Y							Y	Y
	D	D		T	Painted Buckeye	Aesculus sylvatica				Y				Y	Y

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	D	D	W		Tag Alder, Hazel Alder, Common Alder, Smooth Alder	Alnus serrulata									Y	Y
	D			T	Common serviceberry	Amelanchier arborea		Y						Y	Y	Y
		D	W		Shadblow Serviceberry, Thicket Serviceberry, Eastern Serviceberry, Sarvisberry, Shad	Amelanchier canadensis					Y				Y	Y
		D	W		Dwarf Serviceberry, Shadbush	Amelanchier spicata									Y	Y
		D	W		False indigo, Lead Plant, Prairie Shoestring	Amorpha canescens									Y	Y
		D	W		Red Chokeberry	Aronia arbutifolia									Y	Y
		D	W		Black chokeberry	Aronia melanocarpa									Y	Y
		D			Dwarf Pawpaw, Small-flowered Pawpaw	Asimina parviflora										Y
				T	paw-paw	Asimina triloba										Y
D					Yellow Birch	Betula alleghaniensis	Y			Y						Y
D				T	Sweet Birch	Betula lenta	Y			Y						Y
		D	W		American Beautyberry	Callicarpa americana									Y	Y
		D	W	T	Common Sweetshrub, Carolina Allspice, Strawberry Shrub, Sweet shrub; Sweet Betsy, Carolina allspice	Calycanthus floridus		Y			Y	Y	Y	Y	Y	Y
	D				American Hornbeam	Carpinus caroliniana		Y				Y	Y	Y		
D					Bitternut Hickory, Swamp Hickory	Carya cordiformis		Y								Y
D				T	Pignut Hickory	Carya glabra		Y								Y
D			W		Pecan	Carya illinoensis		Y								Y
D				T	Shagbark Hickory	Carya ovata		Y								Y
D				T	Sugar Hackberry	Celtis laevigata	Y	Y	Y				Y	Y	Y	Y
D			W		Common Hackberry	Celtis occidentalis	Y	Y							Y	Y
	D			T	Eastern Redbud, Judas-tree	Cercis canadensis		Y					Y	Y	Y	
		E	W		Atlantic Whitecedar	Chamaecyparis thyoides				Y	Y				Y	Y
	D	D	W		White Fringetree, Fringe tree, Old man's beard	Chionanthus virginicus		Y					Y	Y	Y	Y
D					Yellowwood	Cladrastis kentukea	Y	Y								Y
	D			T	Mountain Sweet-pepperbush, Mountain White-elder	Clethra acuminata									Y	Y
		D	W	T	Clethra, Pepperbush, Summersweet, Coastal Sweet-pepperbush	Clethra alnifolia		Y					Y	Y	Y	Y

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<b>Vehicular Service Area (VSA): Perimeter Buffer</b>	A combination of canopy and understory trees with shrubs intended to provide screening toward adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas.
<b>Vehicular Service Area (VSA): Interior Landscaping</b>	A combination of canopy and understory trees with shrubs intended to provide screening from the adjacent rights-of-way and adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas. Plantings should avoid materials that could shed and cause damage to vehicles.
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<b>Buffers: Constructed / Mitigated</b>	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required vegetative buffers. Plantings should be selected and designed to fill in the voided or denuded areas.
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Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated
		D		T	Sweetfern, Sweetfern, Comptonie Voyageuse, Sweet Fern	Comptonia peregrina									Y
		D		T	Alternate-leaf Dogwood, Pagoda Cornel, Pagoda Dogwood	Cornus alternifolia		Y	Y	Y					Y
		D	W	T	Silky Dogwood, Gray Dogwood	Cornus amomum					Y			Y	Y
		D		T	Flowering Dogwood	Cornus florida									Y
		D	W		Gray Dogwood	Cornus racemosa					Y				Y
		D	W		American Smoketree	Cotinus obovatus		Y			Y	Y	Y		Y
		D	W		Mayhaw Hawthorn, Parsley Hawthorn, Parsley Haw	Crataegus marshallii									Y
		D	W	T	Washington Hawthorn, Washington Thorn	Crataegus phaenopyrum				Y	Y			Y	Y
		D	W		Green Hawthorn, Southern Hawthorn	Crataegus viridis				Y	Y			Y	Y
		E	E	T	Swamp Cyrilla, Leatherwood, Ti-ti	Cyrilla racemiflora									Y
		D	W		Shrubby Cinquefoil	Dasiphora fruticosa subsp. floribunda		Y	Y		Y	Y	Y	Y	Y
		D	W	T	Bush-honeysuckle	Dierilla sessilifolia						Y			Y
		D	W		Eastern Persimmon	Diospyros virginiana		Y							Y
		D	W	T	Leatherwood	Dryca palustris									Y
		D	W	T	American Beech	Fagus grandifolia		Y							Y
		D	W	T	Dwarf Fothergilla	Fothergilla gardenii					Y				Y
		D			Large Fothergilla, Large Witch-alder, Mountain Witch-alder, Tall Fothergilla	Fothergilla major					Y			Y	Y
		D	W	T	White Ash	Fraxinus americana	Y								
		D	W	T	Green Ash	Fraxinus pennsylvanica	Y								
		D	W		Thornless Honeylocust	Gleditsia triacanthos var. inermis	Y	Y	Y			Y	Y	Y	
		D	W		Kentucky Coffeetree, Kentucky Mahogany	Gymnocladus dioicus	Y	Y							Y
		D			Carolina Silverbell	Halesia carolina	Y	Y					Y	Y	Y
		D			Silverbell	Halesia diptera									Y
		D			Common Silverbell, Mountain Silverbell, Snowdrop-tree	Halesia tetraptera	Y	Y				Y	Y	Y	
		D		T	Smooth Hydrangea, Wild Hydrangea, Sevenbark	Hydrangea arborescens					Y				Y
		D	W		Oakleaf Hydrangea	Hydrangea quercifolia				Y		Y	Y	Y	Y
		E	W		Shrubby St. Johnswort	Hypericum prolificum		Y	Y			Y	Y		
		D	W		Deciduous Holly, Possumhaw	Ilex decidua									Y
		D	W		Possomhaw, Possumhaw Holly, Possum-haw	Ilex decidua									Y

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		E	W		Inkberry Holly, Little Galberry	<i>Ilex glabra</i>			Y	Y	Y	Y	Y	Y	Y	
		E	W	T	Yaupon Holly	<i>Ilex vomitoria</i>			Y	Y	Y	Y	Y	Y	Y	
		E	W	T	Yaupon Holly	<i>Ilex vomitoria</i>		Y		Y	Y	Y	Y	Y	Y	
		E	W	T	Virginia Sweetspire, Virginia-willow, Sweet-spire, Tassel-white	<i>Itea virginica</i>		Y				Y	Y	Y	Y	
D			W		Black Walnut	<i>Juglans nigra</i>		Y							Y	
		E		T	Coastal Leucothoe, Dog-Hobble	<i>Leucothoe axillaris</i>						Y			Y	Y
		E		T	Mountain Doghobble, Drooping Leucothoe, Dog Hobble, Fetterbush	<i>Leucothoe fontanesiana</i>						Y			Y	Y
D					Umbrella Magnolia, Umbrella-tree.	<i>Magnolia tripetala</i>						Y				
	D				Southern Crabapple, Wild Crabapple, Narrow-leaved Crabapple	<i>Malus angustifolia</i>									Y	Y
	E	E	W	T	Southern Wax Myrtle, Common Wax-myrtle	<i>Myrica cerifera</i>		Y		Y	Y	Y	Y	Y	Y	Y
D			W		Water Tupelo	<i>Nyssa aquatica</i>	Y	Y							Y	Y
	E	E		T	Devilwood	<i>Osmanthus americanus</i>									Y	
D	D		W	T	American Hophornbeam, Ironwood, American Hop-hornbeam, Eastern Hop Hornbeam	<i>Ostrya virginiana</i>		Y							Y	Y
D	D			T	Sourwood, Sorrel-tree	<i>Oxydendrum arboreum</i>		Y							Y	Y
		D	W		Atlantic Ninebark, Common Eastern Ninebark	<i>Physocarpus opulifolius</i>						Y			Y	Y
E				T		<i>Pinus palustris</i>		Y							Y	
D			W	T	Sycamore, American Planetree	<i>Platanus occidentalis</i>		Y								Y
					Choke Cherry	<i>Prunus virginiana</i>									Y	
D		W	T		Swamp White Oak	<i>Quercus bicolor</i>	Y	Y	Y				Y	Y	Y	Y
D		W	T		Southern Red Oak, Spanish Oak	<i>Quercus falcata</i>	Y	Y	Y				Y	Y	Y	Y
D		W	T		Shingle Oak	<i>Quercus imbricaria</i>	Y	Y	Y				Y	Y	Y	Y
D			W	T	Laurel Oak, Swamp Laurel Oak, Diamond-leaf Oak	<i>Quercus laurifolia</i>	Y	Y	Y				Y	Y	Y	Y
D			W	T	Blackjack Oak	<i>Quercus marilandica</i>									Y	
D			W	T	Swamp Chestnut Oak	<i>Quercus michauxii</i>	Y	Y	Y				Y	Y	Y	
D			W	T	Chestnut Oak, Rock Chestnut Oak, Rock Oak, Mountain Chestnut Oak	<i>Quercus montana</i>	Y	Y	Y				Y	Y	Y	
D			W	T	Water Oak	<i>Quercus nigra</i>		Y							Y	Y
D				T	Cherrybark Oak, Pagoda Oak, Swamp Spanish Oak	<i>Quercus pagoda</i>	Y	Y	Y				Y	Y	Y	
D				T	Willow Oak	<i>Quercus phellos</i>		Y	Y				Y	Y	Y	Y

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			W	T	Northern Red Oak, Red Oak	Quercus rubra	Y	Y	Y				Y	Y	Y
			W	T	Post Oak, Iron Oak	Quercus stellata	Y	Y	Y				Y	Y	Y
			W	T	Black Oak, Eastern Black Oak	Quercus velutina	Y								Y
				T	Live Oak	Quercus virginiana	Y						Y	Y	Y
		D	W		Carolina Buckthorn, Indian Cherry	Rhamnus caroliniana		Y				Y	Y	Y	Y
		D			Sweet Azalea, Smooth Azalea	Rhododendron arborescens						Y			Y
		D			Coast Azalea, Dwarf Azalea	Rhododendron atlanticum						Y			Y
		D	W		Florida Azalea	Rhododendron austrinum						Y			Y
		D			Flame Azalea	Rhododendron calendulaceum						Y			Y
		D			Sweet-Piedmont Azalea, Florida Pinxter Azalea	Rhododendron canescens						Y			Y
		E			Catawba Rhododendron, Mountain Rosebay	Rhododendron catawbiense						Y			Y
		D			Cumberland Azalea	Rhododendron cumberlandense						Y			Y
		E			Rosebay Rhododendron, Great laurel	Rhododendron maximum									Y
		E			Carolina or Piedmont Rhododendron, Gorge Rhododendron, Punctatum, Dwarf Rhododendron, Carolina Laurel	Rhododendron minus						Y			Y
		D			Pinxterbloom Azalea, Wild or Pinxter Azalea	Rhododendron periclymenoides						Y			Y
		D			Roseshell Azalea	Rhododendron prinophyllum						Y			Y
		D			Pinkshell Azalea	Rhododendron vaseyi						Y			Y
		D			Swamp Azalea, Clammy Azalea	Rhododendron viscosum						Y			Y
		D	W		Winged Sumac, Flameleaf, Shining Sumac	Rhus copallinum		Y				Y	Y	Y	Y
		D	W		Smooth Sumac	Rhus glabra		Y				Y	Y	Y	Y
D			W		Black Locust	Robinia pseudoacacia	Y								Y
		D	W		Pasture Rose, Carolina Rose	Rosa carolina						Y			Y
		D			Swamp Rose	Rosa palustris									Y
		D	W		Virginia Rose	Rosa virginiana						Y			Y
		D			Coastal Plain Willow	Salix caroliniana									Y
			W	T	Black Willow	Salix nigra									Y
		D			Silky Willow	Salix sericea									Y
		D	W		Common Elderberry	Sambucus canadensis						Y			Y
D	D			T	Sassafras, White Sassafras, Ague Tree, Sassy Tree	Sassafras albidum	Y								Y

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Canopy		D		Silky Stewartia	Stewartia malacodendron							Y			Y	Y				
		D	W	Mountain Stewartia	Stewartia ovata							Y				Y	Y			
		D	D		American Snowbell	Styrax americanus							Y				Y	Y		
		D	D	W	Bigleaf Snowbell	Styrax grandifolius							Y					Y	Y	
			D		Low Bush Blueberry, Low Sweet Blueberry	Vaccinium angustifolium			Y	Y			Y							
			D	W	Farkleberry, Sparkleberry	Vaccinium arboreum							Y				Y	Y		
			D		Highbush Blueberry, Smooth Highbush Blueberry	Vaccinium corymbosum			Y				Y	Y	Y	Y	Y	Y		
			D	W	Elliott's Blueberry, Mayberry	Vaccinium elliottii							Y				Y	Y		
				D	Southern Highbush Blueberry, Southern Blueberry, Swamp Highbush Blueberry	Vaccinium formosum					Y									
				D	Hillside Blueberry, Dryland Blueberry, Late Lowbush Blueberry, Blue Ridge Blueberry	Vaccinium pallidum			Y	Y			Y	Y	Y	Y	Y	Y		
				D	W	Deerberry, Common Deerberry	Vaccinium stamineum							Y				Y	Y	
					D	W	Small Black Blueberry, Narrowleaf Blueberry, Small-cluster Blueberry, Southern Blueberry	Vaccinium tenellum				Y						Y	Y	
					D		Rabbit-eye Blueberry	Vaccinium virgatum			Y			Y	Y	Y	Y	Y	Y	
					D	W	T	Mapleleaf Viburnum, Maple-leaved Viburnum, Dockmackie	Viburnum acerifolium						Y				Y	Y
					D	W	T	Bracted Viburnum	Viburnum bracteatum			Y			Y	Y	Y	Y	Y	Y
					D		T	Witherod Viburnum, Northern Wild-raisin, With-rod, Shawnee Haw	Viburnum cassinoides											Y
				D	W	T	Southern Arrowwood, Arrowwood	Viburnum dentatum			Y			Y	Y	Y	Y	Y	Y	
				D	W	T	Viburnum, Roughish Arrowwood, Smooth Arrowwood	Viburnum lentago			Y			Y	Y	Y	Y	Y	Y	
				D	W		Nannyberry Viburnum, Sheepberry	Viburnum nudum			Y			Y	Y	Y	Y	Y	Y	
				D	W	T	Smooth Witherod, Possum-Haw Viburnum	Viburnum prunifolium			Y			Y	Y	Y	Y	Y	Y	
				D	W		Smooth Blackhaw, Black Haw, Nannyberry, Blackhaw Viburnum	Viburnum rafinesqueanum											Y	
				D	W		Downy Arrow-wood, Downy Arrowwood	Viburnum rafinesqueanum											Y	

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		E	W	T	Adam's Needle, Beargrass, Curlyleaf Yucca, Spoonleaf Yucca	Yucca filamentosa		Y		Y	Y	Y	Y	Y	Y
		E	W		Weakleaf Yucca, Beargrass	Yucca flaccida		Y		Y	Y	Y	Y	Y	Y
		D			Dusty Zenobia, Honeycup	Zenobia pulverulenta				Y			Y	Y	Y
		D		T	Serviceberry	Amelanchier laevis		Y			Y	Y	Y		
		D			Strawberry Bush, 'Hearts-a-Burstin'	Euonymus americanus					Y			Y	Y
	D	D		T	Common Witchhazel, American Witch-hazel, Northern Witch-hazel	Hamamelis virginiana							Y	Y	Y
		D	W	T	Common Winterberry, Black Alder, Winterberry Holly	Ilex verticillata								Y	Y
		D			Spice Bush, Northern Spicebush, Smooth Northern Spicebush	Lindera benzoin					Y			Y	Y
E	E		W	T	Sweetbay Magnolia	Magnolia virginiana	Y							Y	
		E	W		Sweetbay Magnolia	Magnolia virginiana								Y	Y
D					Quercus (many native species)	Quercus (many native species)									
		D			Native Azaleas and Rhododendrons	Rhododendron (many native species)									
		D			Blueberries	Vaccinium (many native species)									
		D			Native Viburnum	Viburnum (many native species)									

Legend	
D	Deciduous
E	Evergreen
S	Semi-evergreen
W	Water-wise
T	Deer Tolerant

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<b>Site Distance Triangle</b>	Smaller shrubs and groundcover plantings that attain a maximum height of 3-4' at maturity.
<b>Screening</b>	Plants that can visually block objects or areas on the other side.
<b>Vehicle Service Area (VSA): Perimeter Buffer</b>	A combination of canopy and understory trees with shrubs intended to provide screening toward adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas.
<b>Vehicle Service Area (VSA): Interior Landscaping</b>	A combination of canopy and understory trees with shrubs intended to provide screening from the adjacent rights-of-way and adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas. Plantings should avoid materials that could shed and cause damage to vehicles.
<b>Vehicle Service Area (VSA): Tree and Terminal Islands</b>	A combination of canopy and understory trees with shrubs intended to break up large off-street parking areas. Planting should be sized and selected to survive smaller spaces and heat. Plantings should avoid materials that could shed and cause damage to vehicles.
<b>Buffers: Constructed / Mitigated</b>	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required vegetative buffers. Plantings should be selected and designed to fill in the voided or denuded areas.
<b>Buffers: Natural / Stream</b>	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required stream buffers. Plantings should be selected to augment the existing vegetation and survive in wet conditions.



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Canopy	Understory	Shrub	Drought Tolerant	Deer Tolerant	Residential Street Trees			Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Buffers: Constructed / Mitigated	Buffers: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet	Occasional Flooding									
		D	W			Bottlebrush Buckeye	<i>Aesculus parviflora</i>						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Part Sun	Shade									Prefers moist, well-drained soil rich in organic content; prefers acid pH, but adaptable	All parts are poisonous if eaten
		E				Florida Leucothoe, Florida-hobblebush	<i>Agarista populifolia</i>			Y	Y			Y	Y		Y	Y	Y	Y	Y	Y			Part Sun	Shade					Occasionally Wet					Leaves are poisonous if eaten	
		D	W			Allegheny Chinkapin	<i>Castanea pumila</i>								Y	Y									Part Sun					Occasionally Dry							
		D	W			New Jersey Tea, Redroot, Wild Snowball	<i>Ceanothus americanus</i>			Y	Y			Y	Y		Y	Y	Y	Y	Y	Y			Full Sun	Part Sun			Dry							Found in sandy woods, dry prairies, mixed deciduous forests; very adaptable	
		D	D	W	T	Buttonbush	<i>Cephalanthus occidentalis</i>							Y	Y		Y	Y	Y	Y	Y	Y			Full Sun	Part Sun				Occasionally Dry		Occasionally Wet					
		D				American Filbert, American Hazelnut	<i>Corylus americana</i>								Y	Y		Y	Y	Y	Y	Y			Full Sun	Part Sun	Shade			Occasionally Dry						loamy soil; pH-adaptable	
						Cockspur Hawthorn	<i>Crataegus crus-galli</i>									Y										Full Sun											
		E	W			Dense St. Johnswort, Dense Hypericum	<i>Hypericum densiflorum</i>				Y				Y	Y	Y									Full Sun	Part Sun					Occasionally Wet					
		E	W			Golden St. Johnswort	<i>Hypericum frondosum</i>				Y	Y			Y	Y	Y									Full Sun	Part Sun				Occasionally Dry						'Sunburst' lower-growing than the species and superior to the species in the heat, humidity, and poorly-drained soils of the Southeast
		E	W	T		Small Anise-Tree / Yellow Anise-tree	<i>Illicium parviflorum</i>			Y				Y	Y	Y	Y	Y	Y	Y	Y	Y			Part Sun	Shade				Occasionally Dry		Occasionally Wet					
		E	W	T		Eastern Redcedar	<i>Juniperus virginiana</i>				Y					Y	Y	Y								Full Sun											Tolerant of poor, dry, rocky and urban soils, but does best in deep loamy soils with good drainage; pH Tolerant
		E	W	T		Mountain Laurel	<i>Kalmia latifolia</i>								Y		Y	Y								Full Sun	Part Sun				Occasionally Dry						Prefers acid, cool soil; best on steep, north-facing stream banks where used in riparian buffers
		D				American Crabapple, Sweet Crabapple	<i>Malus coronaria</i>									Y										Full Sun	Part Sun				Occasionally Dry						
		D				American Plum, American Wild Plum, Wild Plum	<i>Prunus americana</i>									Y										Full Sun	Part Sun				Occasionally Dry						Spines/Thorns
						Chickasaw Plum	<i>Prunus angustifolia</i>									Y																					Spines/Thorns
		D		W	T	White Oak	<i>Quercus alba</i>	Y	Y						Y											Full Sun	Part Sun				Occasionally Dry						Taproot makes it difficult to transplant
		D				Overcup Oak	<i>Quercus lyrata</i>	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y				Full Sun	Part Sun							Occasional Flooding			Well adapted to urban sites
		D	W	T		Fragrant Sumac	<i>Rhus aromatica</i>			Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y				Full Sun	Part Sun				Occasionally Dry						good for bank stabilization
		D	W			Sumac	<i>Rhus typhina</i>				Y	Y				Y										Full Sun											
		D		W	T	American Elm, White Elm	<i>Ulmus americana</i>	Y	Y	Y						Y	Y	Y	Y	Y	Y	Y				Full Sun	Part Sun			Dry			Occasionally Wet				Consider cultivars with resistance to Dutch Elm Disease, such as 'Princeton', although some have been infected
		D	W	T		Brook-Feather, Yellowroot	<i>Xanthorhiza simplicissima</i>			Y	Y					Y	Y	Y	Y	Y	Y	Y				Part Sun	Shade			Occasionally Dry		Occasionally Wet				acidic soils	
		D	D			Common Silverbell, Mountain Silverbell, Silverbell Tree	<i>Halesia monticola</i>									Y										Full Sun	Part Sun					Occasionally Wet					



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Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet		
D	D			T	Black Cherry, Wild Cherry, Cabinet Cherry, Rum Cherry		Y						Y		columnar	rounded	45'-70'	30'-60'	Full Sun				Occasionally Dry				Wide variety of soils, but prefers high loam content	All parts are poisonous if eaten (except the fruit)	
		D	W	T	American Dogwood, Creek Dogwood, Red Osier Dogwood, Redstem Dogwood, Red Twig Dogwood, Redtwig Dogwood, Red Willow, Tatarian Dogwood, Western Dogwood				Y	Y			Y	Y	multi-stemmed		5'-9'	5'-10'	Full Sun	Part Sun			Occasionally Dry			Occasional Flooding	Prefers alkaline soils		
				T	American Swamp Lily, Lizard's Tail			Y					Y		multi-stemmed		1'-4'	1'-2'		Part Sun	Shade					Occasional Flooding	Prefers wet soils		
		D		T	Hardhack, Steeplebush, Rosy Meadowsweet			Y					Y		multi-stemmed		2'-4'	3'-5'	Full Sun				Occasionally Wet						
D			W	T	River Birch	Y	Y	Y				Y	Y	Y	pyramidal	multi-stemmed	40'-90'	30'-60'	Full Sun	Part Sun			Occasionally Wet				Dura-Heat® or Heritage® are less prone to leaf spot and aphids		
	E		W		Atlantic Whitecedar, Whitecedar, Falsecypress				Y	Y			Y	Y	pyramidal		60'-80'	30'-40'	Full Sun	Part Sun						Occasional Flooding	Prefers wet areas, swamps,		
	E		W	T	American Holly, Christmas Holly				Y	Y			Y	Y	pyramidal		25'-60'	10'-20'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet			Slow growing; protect from winter wind and sun		
	E		W	T	Topel Holly, Foster's Hybrid Hollies	Y	Y		Y	Y	Y	Y	Y	Y	pyramidal		12'-30'	6'-18'	Full Sun	Part Sun									
	E		W	T	Common Juniper								Y		pyramidal	multi-stemmed	5'-15'	4'-10'	Full Sun						Wet		Not as heat-tolerant as other junipers, otherwise tough plant; can be short-lived		
	E		W	T	Eastern Redcedar	Y	Y		Y	Y	Y	Y	Y	Y	pyramidal		8'-40'	4'-20'	Full Sun				Occasionally Dry				Does not tolerate wet sites; tolerates dry conditions and poor soils, but best in deep, loamy soils with good drainage;		
D			W	T	Sweetgum	Y	Y	Y				Y	Y	Y	pyramidal	rounded	50'-100'	40'-50'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet			pH tolerant	Brittle wood; poor nursery tree	
D			W		Tulip Poplar "Little Volunteer"	Y	Y	Y				Y	Y	Y	pyramidal	rounded	30'-35'	18'-20'	Full Sun	Part Sun			Occasionally Dry						
D			W	T	Tulip Poplar, Yellow Poplar, Tuliptree	Y						Y	Y		pyramidal	rounded	70'-130'	30'-60'	Full Sun	Part Sun			Occasionally Dry			acidic soils	Best in areas where space is not limited		
D				T	Cucumber Tree	Y							Y		pyramidal	rounded	50'-80'	35'-60'	Full Sun	Part Sun				Occasionally Wet					
D					Big-leaf Magnolia	Y							Y		pyramidal	rounded	30'-40'	30'-40'	Full Sun	Part Sun									
D			W	T	Blackgum, Black Gum, Black Tupelo, Sourgum, Pepperidge, Tupelo Gum	Y	Y						Y		pyramidal		30'-70'	20'-40'	Full Sun	Part Sun			Occasionally Dry				Some heat and drought-tolerance		
D			W		Swamp Tupelo	Y							Y	Y	pyramidal		40'-50'	25'	Full Sun						Wet				
E				T	Shortleaf Pine	Y							Y		pyramidal		80'-100'	20'-40'	Full Sun				Occasionally Dry						
E				T	Eastern White Pine, Northern White Pine, Weymouth Pine, and Soft Pine				Y						pyramidal	rounded	50'-80'	20'-40'	Full Sun	Part Sun			Occasionally Dry						



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Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet		
E	E			T	Virginia Pine				Y						pyramidal	rounded	20'-60'	15'-25'	Full Sun				Occasionally Dry				Well drained clay to sandy soils	Smaller of the pine species, often called "Poverty or Scrub Pine" due to scraggly appearance, which is often due to the poor soils it inhabits. Often planted because of its adaptations to poor soils.	
	E		W	T	Carolina Cherry laurel				Y	Y			Y	Y	pyramidal	rounded	15'-30'	15'-25'	Full Sun	Part Sun			Occasionally Dry				fast grower; Leaves, seeds and stems are poisonous if eaten		
D			W	T	Scarlet Oak	Y	Y	Y				Y	Y	Y	pyramidal	rounded	50'-80'	45'-60'	Full Sun	Part Sun			Occasionally Dry						
D				T	Pin Oak	Y	Y					Y	Y	Y	pyramidal	rounded	50'-70'	40'-60'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet					
D			W		Shumard Oak, Shumard's Oak, Shumard Red Oak, Swamp Red Oak, Spotted Oak	Y	Y	Y				Y	Y	Y	pyramidal	rounded	50'-70'	30'-40'	Full Sun	Part Sun			Occasionally Dry						
D				T	Pond Cypress	Y	Y	Y				Y	Y	Y	pyramidal		30'-70'	15'-20'	Full Sun						Occasional Flooding				
D				T	Bald Cypress	Y	Y	Y				Y	Y	Y	pyramidal		50'-70'	20'-30'	Full Sun	Part Sun		Dry			Wet	pH Tolerant, very tolerant of heavy soils	"Knees" form near water; taproot makes it difficult to transplant; needs space		
		E			Eastern or American Arborvitae, White Cedar			Y				Y	Y	Y	pyramidal		2.5'-16'	2.5'-15'	Full Sun	Part Sun			Occasionally Dry						
	E				Eastern or American Arborvitae, White Cedar		Y		Y	Y		Y	Y	Y	pyramidal		40'-60'	10'-15'	Full Sun	Part Sun									
D			W		American Linden, Basswood	Y	Y						Y		pyramidal	rounded	60'-80'	30'-60'	Full Sun	Part Sun			Occasionally Dry						
SE			W	T	Southern Sugar Maple, Florida Maple	Y	Y	Y				Y	Y	Y	rounded		20'-60'	20'-30'	Full Sun	Part Sun	Shade			Occasionally Wet					
	SE		W		Chalkbark, Chalk Maple, Whitebark Maple								Y		rounded	multi-stemmed	25'-30'	15'-30'		Part Sun	Shade	Dry							
D				T	Red Maple, Eastern Red Maple	Y	Y						Y	Y	rounded	pyramidal	40'-120'	30'-50'	Full Sun	Part Sun			Occasionally Dry			Occasional Flooding	Thin bark susceptible to heat scorch; planting in poor soils will produce a shallow root system		
D					Sugar Maple	Y	Y						Y		rounded		40'-120'	30'-60'	Full Sun	Part Sun									
D				T	Yellow Buckeye		Y						Y		rounded		40'-60'	30'-40'	Full Sun	Part Sun							Fruits, leaves and seeds are poisonous if eaten		
D				T	Yellow Buckeye		Y						Y		rounded		40'-60'	30'-40'	Full Sun	Part Sun				Occasionally Wet		Prefers deep, moist soils, loam, sandy loam, sandy clay loam. Mainly grows in predominantly wet areas	Fruits, leaves and seeds are poisonous if eaten		
	D	D		T	Painted Buckeye					Y			Y	Y	rounded	multi-stemmed	6'-20'	6'-15'	Full Sun	Part Sun				Occasionally Wet	soil rich in organic content; prefers acid pH, but adaptable	All parts are poisonous if eaten			



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	D	D	W		Tag Alder, Hazel Alder, Common Alder, Smooth Alder								Y	Y	rounded	multi-stemmed	6'-20'	8'-20'	Full Sun	Part Sun									Occasionally Wet			Prefers moist soils with good drainage best; found along stream, pond, and lake edges; suckering, colonizing shrub or mass of small trees and can spread to exclude other species; is tolerant of dry and poor soil conditions	More tolerant of diseases and conditions than L. fontanesiana or L. axillaris; can be maintained at smaller, shrub height with pruning; needs, cool, moist, environment;	
	D			T	Common serviceberry		Y					Y	Y	Y	rounded	multi-stemmed	15'-25'	10'-15'	Full Sun	Part Sun									Occasionally Wet					
		D	W		Shadblow Serviceberry, Thicket Serviceberry, Eastern Serviceberry, Sarvisberry, Shad					Y			Y	Y	rounded	multi-stemmed	15'-25'	15'-20'	Full Sun	Part Sun									Occasionally Wet			good organic content; pH tolerant	Grows in bogs, swamps and along the coast in the wild; pollution-tolerant	
		D	W		Dwarf Serviceberry, Shadbush								Y	Y	rounded	multi-stemmed	3'-5'	3'-5'	Full Sun	Part Sun									Occasionally Dry					
		D	W		False indigo, Lead Plant, Prairie Shoestring								Y	Y	rounded	multi-stemmed	3'-6'	4'-5'	Full Sun	Part Sun									Occasionally Dry					
		D	W		Red Chokeberry								Y	Y	rounded	multi-stemmed	6'-10'	3'-5'	Full Sun	Part Sun									Occasionally Dry	Occasionally Wet			Adaptable to many soil types, even poor soils; pH tolerant	
		D	W		Black chokeberry								Y	Y	rounded	multi-stemmed	3'-10'	3'-5'	Full Sun	Part Sun									Occasionally Dry	Occasionally Wet			Prefers good drainage, but will grow in low, wet areas or in dry sand	
		D			Dwarf Pawpaw, Small-flowered Pawpaw								Y		rounded		3'-12'	2'-6'	Full Sun	Part Sun									Occasionally Dry					
				T	paw-paw								Y		rounded		15'-30'	15'-30'	Full Sun	Part Sun	Shade								Occasionally Wet					
D					Yellow Birch		Y		Y				Y		rounded		60'-80'	60'-80'	Full Sun	Part Sun									Occasionally Wet				high maintenance	
D				T	Sweet Birch		Y		Y				Y		rounded	pyramidal	60'-70'	35'-45'	Full Sun	Part Sun	Shade								Occasionally Dry					
		D	W		American Beautyberry								Y	Y	rounded	multi-stemmed	3'-8'	3'-5'	Full Sun	Part Sun													Denser and better fruit in full sun	
		D	W	T	Common Sweetshrub, Carolina Allspice, Strawberry Shrub, Sweet shrub; Sweet Betsy, Carolina allspice			Y				Y	Y	Y	Y	rounded	multi-stemmed	6'-12'	6'-12'	Full Sun	Part Sun	Shade								Occasionally Dry		Occasional Flooding	Easy to grow in deep, moist loam; adaptable	performs best in sun; becomes straggly in shade; poisonous
	D				American Hornbeam			Y					Y	Y	Y	rounded	multi-stemmed	20'-30'	20'-35'		Part Sun	Shade									Occasional Flooding		Slow-growing; provide some winter sun and wind protection	
D					Bitternut Hickory, Swamp Hickory		Y						Y		rounded	pyramidal	50'-100'	25'-40'	Full Sun	Part Sun										Occasionally Wet				
D				T	Pignut Hickory		Y						Y		rounded		40'-80'	25'-40'	Full Sun	Part Sun										Occasionally Dry			Clay-loam to silty clay loam	Can become large, Usually single straight trunk with a narrow, round crown.
D			W		Pecan		Y						Y		rounded		70'-100'	40'-75'	Full Sun	Part Sun										Occasionally Dry		Occasional Flooding	Rich, moist soils, Bottomlands and hillsides, clay-loam and sandy loam	Leaves and nut husks stain pavement; "messy"
D				T	Shagbark Hickory		Y						Y		rounded		60'-90'	50'-70'	Full Sun	Part Sun											Occasionally Dry		Occasional Flooding	
D				T	Sugar Hackberry		Y	Y	Y				Y	Y	Y	rounded		50'-70'	30'-60'	Full Sun	Part Sun										Occasionally Dry		Occasional Flooding	
D			W		Common Hackberry		Y	Y					Y	Y	rounded		40'-60'	40'-60'	Full Sun	Part Sun	Shade										Occasionally Dry			Cultivars recommended



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D			T	Eastern Redbud, Judas-tree	<i>Cercis canadensis</i>			Y				Y	Y	Y	Y	rounded	multi-stemmed	20'-30'	25'-30'	Full Sun	Part Sun						Occasionally Dry					pH tolerant	'Forest Pansy' cultivar valued for purple foliage	
	E	W		Atlantic Whitecedar	<i>Chamaecyparis thyoides</i>				Y	Y			Y	Y	rounded	pyramidal	6'-20'	4'-20'	Full Sun	Full Sun										Occasional Flooding				
	D	D	W	White Fringtree, Fringe tree, Old man's beard	<i>Chionanthus virginicus</i>				Y				Y	Y	Y	rounded	multi-stemmed	12'-30'	12'-20'	Full Sun	Part Sun				Dry							Prefers moist, deep, fertile, acid soils, but is very adaptable; found along stream banks and swamp edges, and as understory in woodlands	More compact in full sun	
D				Yellowwood	<i>Cladrastis kentuckea</i>	Y	Y							Y	rounded	broad	30'-45'	40'-45'	Full Sun	Part Sun												pH tolerant		
	D		T	Mountain Sweet-pepperbush, Mountain White-elder	<i>Clethra acuminata</i>									Y	Y	rounded		6'-20'	4'-6'		Part Sun	Shade					Occasionally Wet							
		D	W	T	Clethra, Pepperbush, Summersweet, Coastal Sweet-pepperbush	<i>Clethra alnifolia</i>				Y				Y	Y	rounded	broad	4'-6'	4'-6'	Full Sun	Part Sun						Occasionally Wet					pH tolerant		
		D		T	Sweetfern, Sweetfern, Comptonie Voyageuse, Sweet Fern	<i>Comptonia peregrina</i>								Y		rounded	multi-stemmed	2'-5'	4'-8'	Full Sun	Part Sun						Occasionally Dry							
	D			T	Alternate-leaf Dogwood, Pagoda Cornel, Pagoda Dogwood	<i>Cornus alternifolia</i>			Y	Y	Y			Y		rounded	multi-stemmed	15'-25'	20'-32'	Full Sun	Part Sun	Shade					Occasionally Wet							
		D	W	T	Silky Dogwood, Gray Dogwood	<i>Cornus amomum</i>								Y	Y	rounded	multi-stemmed	6'-12'	6'-12'	Full Sun	Part Sun	Shade					Occasionally Wet						Prefers part-shade environment, but very adaptable; Native to low woods and along streams	
	D			T	Flowering Dogwood	<i>Cornus florida</i>								Y	Y	rounded		15'-30'	15'-30'		Part Sun	Shade				Occasionally Dry						Cultivars more disease-resistant than species; 'Rubra' and 'Cherokee Chief' have pink flowers, others white; only grow in shaded areas		
		D	W		Gray Dogwood	<i>Cornus racemosa</i>								Y	Y	rounded	multi-stemmed	10'-27'	10'-15'	Full Sun	Part Sun	Shade				Occasionally Dry	Occasionally Wet						very adaptable	
	D		W		American Smoketree	<i>Cotinus obovatus</i>			Y				Y	Y	Y	rounded	multi-stemmed	15'-30'	15'-30'	Full Sun	Part Sun			Dry									Valued for bluish green foliage and brilliant fall color	
	D		W		Mayhaw Hawthorn, Parsley Hawthorn, Parsley Haw	<i>Crataegus marshallii</i>									Y	rounded		15'-30'	15'-30'	Full Sun	Part Sun	Shade				Occasionally Dry				Occasional Flooding			Very thorny; a NC DENR stormwater BMP tree	
	D		W	T	Washington Hawthorn, Washington Thorn	<i>Crataegus phaenopyrum</i>				Y	Y			Y	Y	rounded	multi-stemmed	25'-30'	20'-25'	Full Sun	Part Sun			Dry										
	D		W		Green Hawthorn, Southern Hawthorn	<i>Crataegus viridis</i>				Y	Y			Y	Y	rounded	broad	20'-35'	20'-35'	Full Sun	Full Sun						Occasionally Dry	Occasionally Wet						
	E	E		T	Swamp Cyrilla, Leatherwood, Ti-ti	<i>Cyrilla racemiflora</i>								Y	Y	rounded	multi-stemmed	8'-25'	10'-15'	Full Sun	Part Sun									Occasional Flooding				
		D	W		Shrubby Cinquefoil	<i>Dasiphora fruticosa subsp. floribunda</i>		Y	Y		Y	Y	Y	Y	Y	rounded	multi-stemmed	1'-4'	2'-4'	Full Sun	Part Sun						Occasionally Dry					tolerant of poor, dry soils, and is very tolerant of high pH	Does not like high night-time temperatures	
		D	W	T	Bush-honeysuckle	<i>Diervilla sessilifolia</i>								Y		rounded		3'-5'	3'-5'	Full Sun	Part Sun				Dry									
D					Eastern Persimmon	<i>Diospyros virginiana</i>		Y						Y		rounded	columnar	30'-80'	20'-35'	Full Sun	Part Sun						Occasionally Dry							
		D	W		Leatherwood	<i>Dirca palustris</i>								Y	Y	rounded	multi-stemmed	3'-6'	3'-6'	Full Sun	Part Sun	Shade					Occasionally Wet						Can cause contact dermatitis	
D			W	T	American Beech	<i>Fagus grandifolia</i>	Y							Y	Y	rounded	broad	50'-80'	40'-80'	Full Sun	Part Sun												Very sensitive to soil conditions	



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Type		Tolerance		Common Names	Scientific Name	Category										Habit		Size		Sun			Moisture Tolerance (Baseline is moist with good drainage)					Soil Preference Notes	Additional Notes
Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet		
		D		T	Dwarf Fothergilla	Fothergilla gardenii							Y	Y	Y	rounded	multi-stemmed	2'-6'	2'-6'	Full Sun	Part Sun						Occasional Flooding	acid soils	Native to Coastal Plain pine savannas and pocosins; best flowers and fall color in full sun; an NC-DENR stormwater BMP plant
		D			Large Fothergilla, Large Witch-elder, Mountain Witch-elder, Tall Fothergilla	Fothergilla major							Y	Y	Y	rounded	multi-stemmed	6'-12'	6'-10'		Part Sun	Shade		Occasionally Dry	Occasionally Wet			acid soils	needs cool moisture and some shade in the Piedmont
D			W	T	White Ash	Fraxinus americana	Y									rounded		60'-120'	50'-75'	Full Sun	Part Sun	Shade							
D			W	T	Green Ash	Fraxinus pennsylvanica	Y									rounded		50'-100'	35'-65'	Full Sun				Occasionally Dry	Occasionally Wet				
D			W		Thornless Honeylocust	Gleditsia triacanthos var. inermis	Y	Y	Y				Y	Y	Y	rounded		20'-70'	30'-50'	Full Sun	Part Sun							neutral or alkaline soils	long thorns; all have messy fruit
D			W		Kentucky Coffeetree, Kentucky Mahogany	Gymnocladus dioica	Y	Y					Y			rounded		60'-75'	40'-50'	Full Sun								Needs deep soil profile and alkaline soils	
	D				Carolina Silverbell	Halesia carolina	Y	Y					Y	Y	Y	rounded	multi-stemmed	10'-40'	15'-35'	Full Sun	Part Sun							can tolerate rocky soils	
	D				Silverbell	Halesia diptera							Y	Y		rounded	multi-stemmed	15'-30'	15'-25'	Full Sun	Part Sun				Occasionally Wet				
	D				Common Silverbell, Mountain Silverbell, Snowdrop-tree	Halesia tetraptera	Y	Y					Y	Y	Y	rounded	multi-stemmed	10'-40'	25'-35'	Full Sun	Part Sun				Occasionally Wet				
		D		T	Smooth Hydrangea, Wild Hydrangea, Sevenbark	Hydrangea arborescens					Y		Y	Y		rounded	multi-stemmed	3'-5'	3'-5'	Full Sun	Part Sun							pH tolerant	
		D	W		Oakleaf Hydrangea	Hydrangea quercifolia		Y			Y	Y	Y	Y	Y	rounded	multi-stemmed	4'-8'	4'-12'	Full Sun	Part Sun			Occasionally Dry				pH tolerant	native to limestone soils in lower South; "deer candy";
		E	W		Shrubby St. Johnswort	Hypericum prolificum		Y	Y			Y	Y			rounded	multi-stemmed	1'-5'	1'-4'	Full Sun	Part Sun	Shade		Occasionally Dry	Occasionally Wet				most Hypericum species do not last long in local conditions (heat, humidity, and poorly-drained soils); Can cause contact dermatitis
		D	W		Deciduous Holly, Possumhaw	Ilex decidua							Y	Y		rounded	multi-stemmed	15'-20'	18'-25'	Full Sun	Part Sun								
		D	W		Possumhaw, Possumhaw Holly, Possum-haw	Ilex decidua							Y			rounded	multi-stemmed	7'-15'	5'-12'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet			acidic soils	Best berry set with use of one male plant for every 3-5 female plants
		E	W		Inkberry Holly, Little Gallberry	Ilex glabra		Y	Y		Y	Y	Y	Y	Y	rounded		5'-10'	5'-8'	Full Sun	Part Sun				Occasionally Wet				Often thins on lower half; potential for fence screening; good in wet areas and swamps
		E	W	T	Yaupon Holly	Ilex vomitoria		Y	Y		Y	Y	Y	Y	Y	rounded	multi-stemmed	2'-5'	3'-8'	Full Sun	Part Sun	Shade		Occasionally Dry		Occasional Flooding		Very adaptable	
		E	W	T	Yaupon Holly	Ilex vomitoria		Y	Y		Y	Y	Y	Y	Y	rounded	multi-stemmed	10'-35'+	6'-20'	Full Sun	Part Sun	Shade		Occasionally Dry		Occasional Flooding	pH tolerant		
		E	W	T	Virginia Sweetspire, Virginia-willow, Sweet-spire, Tassel-white	Itea virginica		Y				Y	Y	Y	Y	rounded	weeping	3'-8'	3'-6'	Full Sun	Part Sun				Wet				
		D		W	Black Walnut	Juglans nigra	Y						Y			rounded		50'-75'	50'-70'	Full Sun	Part Sun		Dry		Occasionally Wet		clay loam to sandy loam	Leaves and roots produce substance (juglons) which inhibits growth of many other plants	
		E		T	Coastal Leucothoe, Dog-Hobble	Leucothoe axillaris					Y		Y	Y		rounded	weeping	2'-6'	3'-6'		Part Sun				Occasionally Wet		Prefers acid organic soil	Flowers and leaves are poisonous if eaten	



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Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet			Occasional Flooding
		E		T	Mountain Doghobble, Drooping Leucothoe, Dog Hobble, Fetterbush									Y	Y	rounded	weeping	2'-6'	3'-8'		Part Sun	Shade		Occasionally Dry	Occasionally Wet					Flowers and leaves are poisonous if eaten
D					Umbrella Magnolia, Umbrella-tree								Y		rounded		15'-40'	15'-30'	Full Sun	Part Sun			Occasionally Wet							
	D				Southern Crabapple, Wild Crabapple, Narrow-leaved Crabapple								Y	Y	rounded	broad	15'-30'	20'-30'	Full Sun	Part Sun			Occasionally Wet							
	E	E	W	T	Southern Wax Myrtle, Common Wax-myrtle			Y	Y	Y	Y	Y	Y	Y	rounded	multi-stemmed	10'-25'	8'-10'	Full Sun	Part Sun		Dry				Occasional Flooding	Adaptable to many soil types; grows in sand or clay; best growth in well-drained soils; salt-tolerant			
D			W		Water Tupelo	Y	Y						Y	Y	rounded		50'-80'	25'-50'	Full Sun	Part Sun			Occasionally Dry		Wet		acidic soils			
	E	E		T	Devilwood								Y		rounded	vase	10'-30'	8'-30'	Full Sun	Part Sun	Shade		Occasionally Dry	Occasionally Wet					Found in the wild along swamp margins and streams; some urban tolerance	
D	D		W	T	American Hop-hornbeam, Ironwood, American Hop-hornbeam, Eastern Hop Hornbeam		Y						Y	Y	rounded	pyramidal	20'-40'	15'-30'	Full Sun	Part Sun	Shade		Occasionally Dry	Occasionally Wet			pH Tolerant	Not commonly available, but has good tolerance of urban conditions		
D	D			T	Sourwood, Sorrel-tree	Y							Y	Y	rounded	pyramidal	20'-30'	10'-20'	Full Sun	Part Sun	Shade	Dry				Occasional Flooding	Intolerant of pollution and urban conditions			
		D	W		Atlantic Ninebark, Common Eastern Ninebark					Y			Y	Y	rounded	weeping	5'-10'	6'-10'	Full Sun	Part Sun			Occasionally Dry			Occasional Flooding	Very adaptable to acidic or basic soils			
E				T		Y							Y		rounded		60'-120'	30'-40'	Full Sun				Occasionally Dry							
D			W	T	Sycamore, American-Planetree	Y							Y		rounded	pyramidal	70'-90'	60'-80'	Full Sun					Occasionally Wet			ph Tolerant	Massively-large tree of bottom lands and moist, deep soils; high maintenance		
					Choke Cherry								Y		rounded		20'-30'	18'-25'	Full Sun				Occasionally Dry							
D			W	T	Swamp White Oak	Y	Y	Y				Y	Y	Y	rounded	pyramidal	50'-60'	50'-60'	Full Sun				Occasionally Dry	Occasionally Wet					Well adapted to urban sites	
D			W	T	Southern Red Oak, Spanish Oak	Y	Y	Y				Y	Y	Y	rounded		60'-100'	50'-60'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet						
D			W	T	Shingle Oak	Y	Y	Y				Y	Y	Y	rounded		50'-70'	50'-60'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet						
D					Laurel Oak, Swamp Laurel Oak, Diamond-leaf Oak	Y	Y	Y				Y	Y	Y	rounded		40'-80'	40'-60'	Full Sun	Part Sun		Dry		Occasionally Wet						
D			W	T	Blackjack Oak								Y		rounded		30'-50'	20'-40'	Full Sun				Occasionally Dry	Occasionally Wet		acidic soils				
D			W	T	Swamp Chestnut Oak	Y	Y	Y				Y	Y	Y	rounded		60'-80'	30'-70'	Full Sun	Part Sun					Occasional Flooding		Needs space			
D			W	T	Chestnut Oak, Rock Chestnut Oak, Rock Oak, Mountain Chestnut Oak	Y	Y	Y				Y	Y	Y	rounded		50'-70'	50'-70'	Full Sun	Part Sun			Occasionally Dry				Usually found on dry, upland sites, in rocky, poor soil, but best growth in low, rich, moist sites	Needs space		
D			W	T	Water Oak	Y							Y	Y	rounded	broad	50'-80'	50'-70'	Full Sun				Occasionally Dry	Occasionally Wet		acidic soils	Has problems with untreatable decay; don't use as street tree or in parking lots			





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Type		Tolerance		Common Names	Scientific Name	Category								Habit		Size		Sun			Moisture Tolerance (Baseline is moist with good drainage)					Soil Preference Notes	Additional Notes						
Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry			Occasionally Wet	Wet	Occasional Flooding			
D				T	Cherrybark Oak, Pagoda Oak, Swamp Spanish Oak	Quercus pagoda	Y	Y	Y			Y	Y	Y		rounded	broad	60'-130'	30'-70'	Full Sun	Part Sun												
D				T	Willow Oak	Quercus phellos		Y	Y			Y	Y	Y	Y	rounded	columnar	40'-75'	25'-50'	Full Sun	Part Sun				Occasionally Dry	Occasionally Wet				acidic soils	Species has variable form and character		
D			W	T	Northern Red Oak, Red Oak	Quercus rubra	Y	Y	Y			Y	Y	Y		rounded	pyramidal	50'-70'	40'-75'	Full Sun	Part Sun				Occasionally Dry							Not as well-adapted to Zone 7(8) due to heat and drought, so tends to be smaller here than in the North	
D			W	T	Post Oak, Iron Oak	Quercus stellata	Y	Y	Y			Y	Y	Y	Y	rounded		40'-50'	35'-50'	Full Sun								typically found on dry, gravelly, or sandy sites		Well-adapted to urban sites			
D			W	T	Black Oak, Eastern Black Oak	Quercus velutina	Y					Y		Y		rounded		45'-60'	45'-60'	Full Sun				Occasionally Dry	Occasionally Wet						Taproot makes it difficult to transplant		
E				T	Live Oak	Quercus virginiana	Y					Y	Y	Y		rounded	broad	40'-80'	30'-100'	Full Sun	Part Sun				Occasionally Dry						pH-tolerant		
		D		W	Carolina Buckthorn, Indian Cherry	Rhamnus caroliniana			Y			Y	Y	Y	Y	rounded		10'-20'	6'-15'	Full Sun	Part Sun				Occasionally Dry						Prefers limestone, high pH/alkaline soils, but is very adaptable; withstands urban environments, difficult conditions, and waste areas		
		D			Sweet Azalea, Smooth Azalea	Rhododendron arborescens						Y		Y	Y	rounded	multi-stemmed	8'-15'	6'-15'	Full Sun	Part Sun				Occasionally Wet						Prefers light, sandy, acid soils	high shade best; native to banks of mountain streams; All parts are poisonous if eaten	
		D			Coast Azalea, Dwarf Azalea	Rhododendron atlanticum						Y		Y	Y	rounded	multi-stemmed	3'-6'	3'-6'	Full Sun	Part Sun				Occasionally Wet						Prefers light, sandy, acid soils	High shade; native to open pine woods; All parts are poisonous if eaten	
		D	W		Florida Azalea	Rhododendron austrinum						Y		Y	Y	rounded	multi-stemmed	8'-10'	5'-10'		Part Sun	Shade							slightly pH- and soil-condition-tolerant		high shade; All parts are poisonous if eaten		
		D			Flame Azalea	Rhododendron calendulaceum						Y		Y	Y	rounded	multi-stemmed	4'-15'	4'-10'	Full Sun	Part Sun	Shade									Prefers light, acid soils	native to southern Appalachian Mountains; does not tolerate heat as well as other Azaleas; All parts are poisonous if eaten	
		D			Sweet-Piedmont Azalea, Florida Pinxter Azalea	Rhododendron canescens						Y		Y	Y	rounded	multi-stemmed	6'-15'	6'-10'	Full Sun	Part Sun	Shade			Occasionally Wet						acid soils	tolerates shade better than other deciduous azaleas; native along slopes and stream banks in high shade; All parts are poisonous if eaten	
		E			Catawba Rhododendron, Mountain Rosebay	Rhododendron catawbiense						Y		Y	Y	rounded	multi-stemmed	4'-10'+	5'-10'	Full Sun	Part Sun	Shade		Occasionally Dry							acid soils	All parts are poisonous if eaten	
		D			Cumberland Azalea	Rhododendron cumberlandense						Y		Y		rounded	multi-stemmed	3'-7'	3'-6'	Full Sun	Part Sun												
		E			Rosebay Rhododendron, Great laurel	Rhododendron maximum						Y		Y		rounded	multi-stemmed	5'-20'	4'-12'	Full Sun	Part Sun	Shade		Occasionally Dry							acid soils	Needs winter sun protection; prefers north-facing slopes of mountain streams; All parts are poisonous if eaten	
		E			Carolina or Piedmont Rhododendron, Gorge Rhododendron, Punctatum, Dwarf Rhododendron, Carolina Laurel	Rhododendron minus						Y		Y	Y	rounded	multi-stemmed	3'-6'	3'-8'		Part Sun	Shade		Occasionally Dry							acid soils	Needs winter sun protection; All parts are poisonous if eaten	
		D			Pinxterbloom Azalea, Wild or Pinxter Azalea	Rhododendron periclymenoides						Y		Y	Y	rounded	multi-stemmed	2'-10'	4'-8'	Full Sun	Part Sun										acid soils; has adapted to dry, sandy, and rocky soils		



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	Canopy	Understory			Shrub	Drought Tolerant	Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Butters: Constructed / Mitigated	Butters: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry			Occasionally Wet	Wet
		D		Roseshell Azalea	Rhododendron prinosphyllum								Y	Y	Y	rounded	multi-stemmed	2'-8'	2'-8'	Full Sun	Part Sun								more tolerant of high-pH soils than other azaleas	All parts are poisonous if eaten
		D		Pinkshell Azalea	Rhododendron vaseyi								Y	Y	Y	rounded	multi-stemmed	5'-15'	4'-10'	Full Sun	Part Sun								rocky, constantly-moist, acid soils	native to the Blue Ridge Mountains; not as heat-tolerant as other azaleas; All parts are poisonous if eaten
		D		Swamp Azalea, Clammy Azalea	Rhododendron viscosum								Y	Y	Y	rounded	multi-stemmed	2'-8'	3'-8'	Full Sun	Part Sun				Occasionally Wet			acid soils	All parts are poisonous if eaten	
		D	W	Winged Sumac, Flameleaf, Shining Sumac	Rhus copallinum			Y					Y	Y	Y	rounded	multi-stemmed	7'-30'	10'-25'	Full Sun	Part Sun				Occasionally Dry	Occasionally Wet		pH-tolerant; use only in dry, rocky areas, on banks, waste places	aggressively spreading and suckering when established, forming large colonies	
		D	W	Smooth Sumac	Rhus glabra			Y					Y	Y	Y	rounded	multi-stemmed	9'-15'	9'-15'	Full Sun	Part Sun				Occasionally Dry			pH-tolerant	high maintenance	
D			W	Black Locust	Robinia pseudoacacia	Y							Y			rounded	multi-stemmed	50'-50'	20'-35'	Full Sun	Part Sun				Occasionally Dry			pH-tolerant	Bark, leaves, and seeds are poisonous if eat	
		D	W	Pasture Rose, Carolina Rose	Rosa carolina								Y	Y	Y	rounded	multi-stemmed	3'-6'	1'-5'	Full Sun	Part Sun		Dry		Occasionally Wet					
		D		Swamp Rose	Rosa palustris								Y			rounded	multi-stemmed	3'-6'	3'-6'	Full Sun	Part Sun				Occasionally Wet					
		D	W	Virginia Rose	Rosa virginiana								Y	Y	Y	rounded	multi-stemmed	4'-6'	6'-8'	Full Sun	Part Sun									
		D		Coastal Plain Willow	Salix caroliniana									Y		rounded	weeping	15'-30'	15'-30'	Full Sun	Part Sun	Shade			Occasionally Wet				Prefers Coastal Plain conditions; often used in stream-bank stabilization; a NC DENR stormwater BMP tree	
			W	T	Black Willow	Salix nigra								Y		rounded	weeping	30'-80'	30'-60'	Full Sun	Part Sun									
		D			Silky Willow	Salix sericea									Y	rounded	multi-stemmed	6'-10'	5'-8'	Full Sun	Part Sun				Occasionally Dry			Occasional Flooding		
		D	W		Common Elderberry	Sambucus canadensis							Y	Y	Y	rounded	multi-stemmed	5'-20'	5'-15'	Full Sun	Part Sun				Occasionally Wet				suckers profusely, making large colonies once established; use in wet areas, along roadsides, to naturalize	
D	D			T	Sassafras, White Sassafras, Ague Tree, Sassy Tree	Sassafras albidum	Y						Y			rounded	multi-stemmed	20'-60'	25'-40'	Full Sun	Part Sun				Occasionally Dry					
		D			Silky Stewartia	Stewartia malacodendron							Y	Y	Y	rounded	multi-stemmed	10'-18'	10'-20'	Full Sun	Part Sun	Shade								
		D	W		Mountain Stewartia	Stewartia ovata							Y	Y	Y	rounded	multi-stemmed	10'-15'	10'-15'	Full Sun	Part Sun	Shade						acidic soils		
		D	D		American Snowbell	Styrax americanus							Y	Y	Y	rounded	multi-stemmed	6'-12'	4'-8'	Full Sun	Part Sun				Occasionally Wet			acidic soils		
		D	D	W	Bigleaf Snowbell	Styrax grandifolius							Y	Y	Y	rounded	multi-stemmed	8'-15'	6'-12'	Full Sun	Part Sun				Occasionally Dry			prefers loose acid soils		
		D			Low Bush Blueberry, Low Sweet Blueberry	Vaccinium angustifolium		Y	Y				Y			rounded	multi-stemmed	5'-2'	5'-2'	Full Sun	Part Sun	Shade			Occasionally Dry					
		D	D	W	Farkleberry, Sparkleberry	Vaccinium arboreum							Y	Y	Y	rounded	multi-stemmed	4'-15'	4'-12'	Full Sun	Part Sun				Occasionally Dry			acidic soils		
		D			Highbush Blueberry, Smooth Highbush Blueberry	Vaccinium corymbosum		Y					Y	Y	Y	rounded	multi-stemmed	3'-15'	3'-12'	Full Sun	Part Sun				Occasionally Dry	Occasionally Wet		acidic soils		
		D	W		Elliott's Blueberry, Mayberry	Vaccinium elliptii							Y	Y	Y	rounded	multi-stemmed	4'-12'	4'-12'	Full Sun	Part Sun							acidic soils		
		D			Southern Highbush Blueberry, Southern Blueberry, Swamp Highbush Blueberry	Vaccinium formosum			Y							rounded	multi-stemmed	4'-13'	3'-10'	Full Sun	Part Sun				Occasionally Wet			acidic soils		



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		D	W		Hillside Blueberry, Dryland Blueberry, Late Lowbush Blueberry, Blue Ridge Blueberry		Y	Y		Y	Y	Y	Y	Y	Y	rounded	multi-stemmed	1'-3'	1'-3'		Part Sun	Shade		Occasionally Dry				acidic soils	Found under oaks, pine, in wet, maple low-lands, and in pine barrens and savannas; common on roadsides and in old fields
		D	W		Deerberry, Common Deerberry					Y			Y	Y		rounded	multi-stemmed	3'-15'	3'-12'	Full Sun	Part Sun	Shade		Occasionally Dry				acidic soils	size is dependent on soil quality and moisture; tolerant of drier, sandy soils (shorter in this habitat), and wetter, richer, heavier soils (taller here)
		D	W		Small Black Blueberry, Narrowleaf Blueberry, Small-cluster Blueberry, Southern Blueberry			Y		Y		Y	Y			rounded	multi-stemmed	1'-3'	1'-3'	Full Sun	Part Sun			Occasionally Dry				acidic soils	
		D			Rabbiteye Blueberry		Y			Y	Y	Y	Y	Y		rounded	multi-stemmed	6'-15'	6'-10'	Full Sun	Part Sun						acidic soils, will grow in sand, if acidic		
		D	W	T	Mapleleaf Viburnum, Maple-leaved Viburnum, Dockmackie					Y			Y	Y		rounded	multi-stemmed	4'-6'	2'-6'		Part Sun	Shade		Occasionally Dry				best for naturalizing; native to understorey of dry, upland forests	
		D	W	T	Bracted Viburnum		Y			Y	Y	Y	Y	Y		rounded	multi-stemmed	6'-12'	6'-10'	Full Sun	Part Sun	Shade		Occasionally Dry				pH-tolerant	
		D		T	Withered Viburnum, Northern Wild-raisin, With-rod, Shawnee Haw									Y		rounded	weeping	5'-12'	5'-8'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet				
		D	W	T	Southern Arrowwood, Arrowwood Viburnum, Roughish Arrowwood, Smooth Arrowwood		Y			Y	Y	Y	Y	Y		rounded	weeping	5'-15'	6'-15'	Full Sun	Part Sun			Occasionally Dry				pH-tolerant	
		D	W	T	Nannyberry Viburnum, Sheepberry		Y			Y	Y	Y	Y	Y		rounded	multi-stemmed	15'-18'	8'-15'	Full Sun	Part Sun	Shade		Occasionally Dry	Occasionally Wet				Easy to grow
		D	W		Smooth Withered, Possum-Haw Viburnum		Y			Y	Y	Y	Y	Y		rounded	multi-stemmed	5'-14'	5'-10'	Full Sun	Part Sun			Occasionally Dry			Occasional Flooding	good for naturalizing and can be grown in floodplains in both sun and shade	
		D	D	W	T	Smooth Blackhaw, Black Haw, Nannyberry, Blackhaw Viburnum		Y			Y	Y	Y	Y		rounded	multi-stemmed	12'-30'	6'-20'	Full Sun	Part Sun			Occasionally Dry	Occasionally Wet			very adaptable to pH, wet or dry conditions, clay, pollution, sun or shade; pest- and disease-free;	
		D	W		Downy Arrow-wood, Downy Arrowwood								Y			rounded	weeping	6'-10'	5'-8'	Full Sun	Part Sun			Occasionally Dry					
		D	W	T	Rusty Blackhaw, Southern Blackhaw, Rusty Nannyberry, Blue Haw		Y			Y	Y	Y	Y	Y		rounded	multi-stemmed	10'-35'	10'-25'	Full Sun	Part Sun	Shade		Occasionally Dry	Occasionally Wet			very adaptable to pH, wet or dry conditions, soil types, pollution, sun or shade; very drought-tolerant and very heavy clay-tolerant; denser in full sun;	
		E	W	T	Adam's Needle, Beargrass, Curlyleaf Yucca, Spoonleaf Yucca		Y			Y	Y	Y	Y	Y		rounded	columnar	2'-7'	1.5'-4'	Full Sun	Part Sun			Occasionally Dry				Sword-like leaves can be dangerous, this variety more Southern and coastal	
		E	W		Weakleaf Yucca, Beargrass		Y			Y	Y	Y	Y	Y		rounded	columnar	2'-7'	2'-5'	Full Sun			Dry						
		D			Dusty Zenobia, Honeycup					Y			Y	Y		rounded	weeping	2'-10'	3'-7'	Full Sun	Part Sun			Occasionally Wet			acidic soils	good native plant for wet areas	



**Orange County Planning and Inspections Department - Preferred Plant List**

This document contains preferred plants, but is not all inclusive. For proposed plant substitutions, please contact Orange County Planning staff at [planningapps@orangecountync.gov](mailto:planningapps@orangecountync.gov) for review. The County does not allow invasive species.

Type		Tolerance		Common Names	Scientific Name	Category										Habit		Size		Sun			Moisture Tolerance (Baseline is moist with good drainage)					Soil Preference Notes	Additional Notes	
Canopy	Understory	Shrub	Drought Tolerant			Deer Tolerant	Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	VSA: Perimeter Buffer	VSA: Interior Landscaping	VSA: Tree and Terminal Islands	Buffers: Constructed / Mitigated	Buffers: Natural / Stream	Habit 1	Habit 2	Height	Width	Full Sun	Part Sun	Shade	Dry	Occasionally Dry	Occasionally Wet	Wet			Occasional Flooding
		D		T	Serviceberry	Amelanchier laevis		Y			Y	Y	Y		vase	multi-stemmed	15'-25'	15'-20'	Full Sun	Part Sun									pH tolerant	
		D			Strawberry Bush, "Hearts-a-Burstin"	Euonymus americanus					Y		Y	Y	vase	multi-stemmed	4'-6'	3'-6'	Full Sun	Part Sun	Shade								very pH- and soil-adaptable	
	D	D		T	Common Witchhazel, American Witch-hazel, Northern Witch-hazel	Hamamelis virginiana					Y		Y	Y	vase	multi-stemmed	10'-30'	10'-20'	Full Sun	Part Sun							Occasional Flooding			
		D	W	T	Common Winterberry, Black Alder, Winterberry Holly	Ilex verticillata							Y	Y	vase	multi-stemmed	3'-15'	3'-15'	Full Sun	Part Sun	Shade			Occasionally Wet				does well in light or heavy soils; native to swampy areas; chlorotic in high pH soils		
		D			Spice Bush, Northern Spicebush, Smooth Northern Spicebush	Lindera benzoin					Y		Y	Y	vase	multi-stemmed	6'-15'	6'-15'	Full Sun	Part Sun				Occasionally Wet				pH tolerant	best performance in moist conditions and half-shade; full and dense in full sun;	
E	E		W	T	Sweetbay Magnolia	Magnolia virginiana	Y						Y	Y	vase	multi-stemmed	15'-100'	10'-25'	Full Sun	Part Sun				Occasionally Wet						
		E		W	Sweetbay Magnolia	Magnolia virginiana							Y	Y	vase	multi-stemmed	12'-30'	8'-15'	Full Sun	Part Sun	Shade			Occasionally Wet				Prefers acidic soils		
D					Quercus (many native species)	Quercus (many native species)													Full Sun	Part Sun										
		D			Native Azaleas and Rhododendrons	Rhododendron (many native species)													Full Sun	Part Sun	Shade									
		D			Blueberries	Vaccinium (many native species)													Full Sun	Part Sun										
		D			Native Viburnum	Viburnum (many native species)													Full Sun	Part Sun	Shade									

Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	Vehicular Service Area (VSA): Perimeter Buffer	Vehicular Service Area (VSA): Interior Landscaping	Vehicular Service Area (VSA): Tree and Terminal Islands	Buffers: Constructed / Mitigated	Buffers: Natural / Stream
Canopy trees that don't create hazards (i.e. visual and/or physical obstructions and/or conflicts with driveways and utilities)	Canopy trees generally located along common lot lines with other residential homes. Trees are intended to break up the front side and rear yard areas and provide some type of screening.	Smaller shrubs and/or understory trees intended to break up the building's foundational elements. Adequate spacing from the foundation to avoid conflicts with the planting materials should be a consideration.	Smaller shrubs and groundcover plantings that attain a maximum height of 3-4' at maturity.	Plants that can visual block objects or areas on the other side	A combination of canopy and understory trees with shrubs intended to provide screening toward adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas.	A combination of canopy and understory trees with shrubs intended to provide screening from the adjacent rights-of-way and adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas. Plantings should avoid materials that could shed and cause damage to vehicles.	A combination of canopy and understory trees with shrubs intended to break up large off-street parking areas. Planting should be sized and selected to survive smaller spaces and heat. Plantings should avoid materials that could shed and cause damage to vehicles.	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required vegetative buffers. Plantings should be selected and designed to fill in the voided or denuded areas.	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required stream buffers. Plantings should be selected to survive the existing vegetation and surge in wet conditions.
<i>Quercus alba</i>	<i>Quercus alba</i>	<i>Hypericum densiflorum</i>	<i>Ceanothus americanus</i>	<i>Agarista populifolia</i>	<i>Aesculus parviflora</i>	<i>Hypericum densiflorum</i>	<i>Hypericum densiflorum</i>	<i>Aesculus parviflora</i>	<i>Aesculus parviflora</i>
<i>Quercus lyrata</i>	<i>Quercus lyrata</i>	<i>Hypericum frondosum</i>	<i>Hypericum frondosum</i>	<i>Rhus typhina</i>	<i>Agarista populifolia</i>	<i>Hypericum frondosum</i>	<i>Hypericum frondosum</i>	<i>Hypericum populifolia</i>	<i>Agarista populifolia</i>
<i>Ulmus americana</i>	<i>Ulmus americana</i>	<i>Illicium parviflorum</i>	<i>Rhus aromatica</i>	<i>Cornus sericea</i>	<i>Castanea pumila</i>	<i>Illicium parviflorum</i>	<i>Illicium parviflorum</i>	<i>Castanea pumila</i>	<i>Castanea pumila</i>
<i>Betula nigra</i>	<i>Prunus serotina</i>	<i>Juniperus virginiana</i>	<i>Xanthoxiza simplicissima</i>	<i>Chamaecyparis thyoides</i>	<i>Ceanothus americanus</i>	<i>Juniperus virginiana</i>	<i>Juniperus virginiana</i>	<i>Ceanothus americanus</i>	<i>Ceanothus americanus</i>
<i>Liquidambar styraciflua</i>	<i>Betula nigra</i>	<i>Quercus lyrata</i>	<i>Saururus cernuus</i>	<i>Ilex opaca</i>	<i>Cephalanthus occidentalis</i>	<i>Quercus lyrata</i>	<i>Quercus lyrata</i>	<i>Cephalanthus occidentalis</i>	<i>Cephalanthus occidentalis</i>
<i>Liriodendron tulipifera</i>	<i>Ilex x attenuata</i>	<i>Rhus aromatica</i>	<i>Spiraea tomentosa</i>	<i>Ilex x attenuata</i>	<i>Corylus americana</i>	<i>Rhus aromatica</i>	<i>Corylus americana</i>	<i>Corylus americana</i>	<i>Corylus americana</i>
<i>Nyssa sylvatica</i>	<i>Juniperus virginiana</i>	<i>Ulmus americana</i>	<i>Dasiphora fruticosa subsp. floribunda</i>	<i>Juniperus virginiana</i>	<i>Illicium parviflorum</i>	<i>Ulmus americana</i>	<i>Ulmus americana</i>	<i>Illicium parviflorum</i>	<i>Illicium parviflorum</i>
<i>Quercus coccinea</i>	<i>Liquidambar styraciflua</i>	<i>Xanthoxiza simplicissima</i>	<i>Hypericum prolificum</i>	<i>Pinus strobus</i>	<i>Kalmia latifolia</i>	<i>Xanthoxiza simplicissima</i>	<i>Xanthoxiza simplicissima</i>	<i>Kalmia latifolia</i>	<i>Kalmia latifolia</i>
<i>Quercus palustris</i>	<i>Liriodendron tulipifera</i>	<i>Betula nigra</i>	<i>Ilex glabra</i>	<i>Pinus virginiana</i>	<i>Rhus aromatica</i>	<i>Betula nigra</i>	<i>Betula nigra</i>	<i>Hypericum frondosum</i>	<i>Quercus lyrata</i>
<i>Quercus shumardii</i>	<i>Liriodendron tulipifera</i>	<i>Ilex x attenuata</i>	<i>Ilex vomitoria</i>	<i>Prunus caroliniana</i>	<i>Rhus typhina</i>	<i>Ilex x attenuata</i>	<i>Ilex x attenuata</i>	<i>Illicium parviflorum</i>	<i>Rhus aromatica</i>
<i>Taxodium ascendens</i>	<i>Magnolia acuminata</i>	<i>Juniperus virginiana</i>	<i>Vaccinium angustifolium</i>	<i>Thuja occidentalis</i>	<i>Xanthoxiza simplicissima</i>	<i>Juniperus virginiana</i>	<i>Juniperus virginiana</i>	<i>Juniperus virginiana</i>	<i>Rhus typhina</i>
<i>Taxodium distichum</i>	<i>Magnolia macrophylla</i>	<i>Liquidambar styraciflua</i>	<i>Vaccinium pallidum</i>	<i>Betula alleghaniensis</i>	<i>Halesia monticola</i>	<i>Liquidambar styraciflua</i>	<i>Liquidambar styraciflua</i>	<i>Halesia monticola</i>	<i>Ulmus americana</i>
<i>Tilia americana</i>	<i>Nyssa sylvatica</i>	<i>Liriodendron tulipifera</i>	<i>Vaccinium tenellum</i>	<i>Betula lenta</i>	<i>Cornus sericea</i>	<i>Liriodendron tulipifera</i>	<i>Liriodendron tulipifera</i>	<i>Malus coronaria</i>	<i>Xanthoxiza simplicissima</i>
<i>Acer barbatum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Quercus coccinea</i>	<i>Quercus shumardii</i>	<i>Chamaecyparis thyoides</i>	<i>Chamaecyparis thyoides</i>	<i>Quercus coccinea</i>	<i>Quercus coccinea</i>	<i>Quercus coccinea</i>	<i>Halesia monticola</i>
<i>Acer rubrum</i>	<i>Pinus echinata</i>	<i>Quercus shumardii</i>	<i>Taxodium ascendens</i>	<i>Cornus alternifolia</i>	<i>Ilex opaca</i>	<i>Quercus palustris</i>	<i>Quercus palustris</i>	<i>Prunus angustifolia</i>	<i>Cornus sericea</i>
<i>Acer saccharum</i>	<i>Quercus coccinea</i>	<i>Taxodium distichum</i>	<i>Taxodium distichum</i>	<i>Crataegus phaenopyrum</i>	<i>Ilex x attenuata</i>	<i>Quercus shumardii</i>	<i>Quercus shumardii</i>	<i>Saururus cernuus</i>	<i>Saururus cernuus</i>
<i>Celtis laevigata</i>	<i>Quercus palustris</i>	<i>Taxodium distichum</i>	<i>Taxodium distichum</i>	<i>Crataegus viridis</i>	<i>Juniperus virginiana</i>	<i>Taxodium ascendens</i>	<i>Taxodium ascendens</i>	<i>Quercus lyrata</i>	<i>Spiraea tomentosa</i>
<i>Celtis occidentalis</i>	<i>Quercus shumardii</i>	<i>Thuja occidentalis</i>	<i>Thuja occidentalis</i>	<i>Ilex vomitoria</i>	<i>Prunus caroliniana</i>	<i>Taxodium distichum</i>	<i>Taxodium distichum</i>	<i>Rhus aromatica</i>	<i>Betula nigra</i>
<i>Cladrasis kentuckea</i>	<i>Taxodium ascendens</i>	<i>Thuja occidentalis</i>	<i>Thuja occidentalis</i>	<i>Fraxinus americana</i>	<i>Vaccinium formosum</i>	<i>Thuja occidentalis</i>	<i>Thuja occidentalis</i>	<i>Ulmus americana</i>	<i>Chamaecyparis thyoides</i>
<i>Fraxinus americana</i>	<i>Taxodium distichum</i>	<i>Acer barbatum</i>	<i>Acer barbatum</i>	<i>Fraxinus pennsylvanica</i>	<i>Tilia americana</i>	<i>Aesculus sylvatica</i>	<i>Thuja occidentalis</i>	<i>Xanthoxiza simplicissima</i>	<i>Ilex opaca</i>
<i>Gleditsia triacanthos var. inermis</i>	<i>Amelanchier arborea</i>	<i>Acer barbatum</i>	<i>Calycanthus floridus</i>	<i>Gymnocladus dioicus</i>	<i>Amelanchier canadensis</i>	<i>Acer barbatum</i>	<i>Prunus serotina</i>	<i>Liriodendron tulipifera</i>	<i>Liriodendron tulipifera</i>
<i>Gymnocladus dioicus</i>	<i>Acer rubrum</i>	<i>Carpinus caroliniana</i>	<i>Carpinus caroliniana</i>	<i>Halesia carolina</i>	<i>Calycanthus floridus</i>	<i>Amelanchier arborea</i>	<i>Amelanchier arborea</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Nyssa sylvatica var. biflora</i>
<i>Halesia carolina</i>	<i>Acer saccharum</i>	<i>Celtis laevigata</i>	<i>Cercis canadensis</i>	<i>Halesia tetraptera</i>	<i>Chamaecyparis thyoides</i>	<i>Calycanthus floridus</i>	<i>Calycanthus floridus</i>	<i>Betula nigra</i>	<i>Prunus caroliniana</i>
<i>Halesia tetraptera</i>	<i>Aesculus flava</i>	<i>Cercis canadensis</i>	<i>Chionanthus virginicus</i>	<i>Nyssa aquatica</i>	<i>Cornus alternifolia</i>	<i>Carpinus caroliniana</i>	<i>Carpinus caroliniana</i>	<i>Chamaecyparis thyoides</i>	<i>Quercus coccinea</i>
<i>Nyssa aquatica</i>	<i>Aesculus octandra</i>	<i>Chionanthus virginicus</i>	<i>Cornus amomum</i>	<i>Quercus bicolor</i>	<i>Cornus racemosa</i>	<i>Celtis laevigata</i>	<i>Celtis laevigata</i>	<i>Ilex opaca</i>	<i>Quercus palustris</i>
<i>Quercus bicolor</i>	<i>Betula alleghaniensis</i>	<i>Clethra alnifolia</i>	<i>Crataegus phaenopyrum</i>	<i>Quercus falcata</i>	<i>Cornus alternifolia</i>	<i>Celtis laevigata</i>	<i>Celtis laevigata</i>	<i>Quercus shumardii</i>	<i>Taxodium ascendens</i>
<i>Quercus falcata</i>	<i>Betula lenta</i>	<i>Cornus alternifolia</i>	<i>Crataegus viridis</i>	<i>Quercus imbricaria</i>	<i>Cornus amomum</i>	<i>Cornus canadensis</i>	<i>Cornus canadensis</i>	<i>Quercus shumardii</i>	<i>Taxodium distichum</i>
<i>Quercus laurifolia</i>	<i>Carya cordiformis</i>	<i>Cotinus obovatus</i>	<i>Dasiphora fruticosa subsp. floribunda</i>	<i>Quercus michauxii</i>	<i>Dasiphora fruticosa subsp. floribunda</i>	<i>Cornus canadensis</i>	<i>Chionanthus virginicus</i>	<i>Juniperus communis</i>	<i>Taxodium distichum</i>
<i>Quercus michauxii</i>	<i>Carya illinoensis</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Halesia carolina</i>	<i>Quercus montana</i>	<i>Dirca palustris</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Liriodendron tulipifera</i>	<i>Aesculus octandra</i>
<i>Quercus montana</i>	<i>Carya ovata</i>	<i>Halesia tetraptera</i>	<i>Fothergilla gardenii</i>	<i>Quercus pagoda</i>	<i>Dirca palustris</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Liriodendron tulipifera</i>	<i>Aesculus sylvatica</i>
<i>Quercus pagoda</i>	<i>Celtis laevigata</i>	<i>Halesia tetraptera</i>	<i>Fothergilla major</i>	<i>Quercus rubra</i>	<i>Halesia tetraptera</i>	<i>Magnolia acuminata</i>	<i>Magnolia acuminata</i>	<i>Amelanchier canadensis</i>	<i>Amelanchier canadensis</i>
<i>Quercus rubra</i>	<i>Celtis occidentalis</i>	<i>Hydrangea quercifolia</i>	<i>Hydrangea arborescens</i>	<i>Quercus stellata</i>	<i>Fothergilla major</i>	<i>Halesia tetraptera</i>	<i>Halesia tetraptera</i>	<i>Amelanchier canadensis</i>	<i>Amelanchier canadensis</i>
<i>Quercus stellata</i>	<i>Cladrasis kentuckea</i>	<i>Hypericum prolificum</i>	<i>Hydrangea quercifolia</i>	<i>Diospyros virginiana</i>	<i>Hydrangea quercifolia</i>	<i>Hydrangea quercifolia</i>	<i>Hydrangea quercifolia</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Fagus grandifolia</i>	<i>Ilex glabra</i>	<i>Ilex glabra</i>	<i>Gleditsia triacanthos var. inermis</i>	<i>Ilex glabra</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Gleditsia triacanthos var. inermis</i>	<i>Ilex vomitoria</i>	<i>Ilex vomitoria</i>	<i>Gymnocladus dioicus</i>	<i>Ilex vomitoria</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Gymnocladus dioicus</i>	<i>Ilex vomitoria</i>	<i>Ilex vomitoria</i>	<i>Juglans nigra</i>	<i>Ilex vomitoria</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Juglans nigra</i>	<i>Ita virginica</i>	<i>Myrica cerifera</i>	<i>Nyssa aquatica</i>	<i>Leucothoe axillaris</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Ostrya virginiana</i>	<i>Myrica cerifera</i>	<i>Myrica cerifera</i>	<i>Oxydendrum arborescens</i>	<i>Leucothoe fontanesiana</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Oxydendrum arborescens</i>	<i>Quercus bicolor</i>	<i>Myrica cerifera</i>	<i>Quercus bicolor</i>	<i>Magnolia tripetala</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Pinus palustris</i>	<i>Quercus falcata</i>	<i>Myrica cerifera</i>	<i>Quercus falcata</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Platanus occidentalis</i>	<i>Quercus imbricaria</i>	<i>Myrica cerifera</i>	<i>Quercus imbricaria</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus bicolor</i>	<i>Quercus montana</i>	<i>Myrica cerifera</i>	<i>Quercus montana</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus falcata</i>	<i>Quercus pagoda</i>	<i>Myrica cerifera</i>	<i>Quercus pagoda</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus imbricaria</i>	<i>Quercus phellos</i>	<i>Myrica cerifera</i>	<i>Quercus phellos</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus laurifolia</i>	<i>Quercus rubra</i>	<i>Myrica cerifera</i>	<i>Quercus rubra</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus michauxii</i>	<i>Quercus stellata</i>	<i>Myrica cerifera</i>	<i>Quercus stellata</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus montana</i>	<i>Rhamnus caroliniana</i>	<i>Myrica cerifera</i>	<i>Quercus virginiana</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus nigra</i>	<i>Rhus copallinum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus pagoda</i>	<i>Rhus glabra</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus phellos</i>	<i>Vaccinium angustifolium</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus rubra</i>	<i>Vaccinium corymbosum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus stellata</i>	<i>Vaccinium pallidum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus velutina</i>	<i>Vaccinium virgatum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Quercus virginiana</i>	<i>Viburnum bracteatum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Robinia pseudoacacia</i>	<i>Viburnum dentatum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Sassafras albidum</i>	<i>Viburnum lentago</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
	<i>Magnolia virginiana</i>	<i>Viburnum nudum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
		<i>Viburnum prunifolium</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
		<i>Viburnum rufidulum</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
		<i>Yucca filamentosa</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
		<i>Yucca flaccida</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
		<i>Amelanchier laevis</i>	<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	<i>Amorpha canescens</i>
			<i>Myrica cerifera</i>	<i>Rhododendron minus</i>	<i>Myrica cerifera</i>	<i>Hypericum prolificum</i>	<i>Hypericum prolificum</i>	<i>Nyssa sylvatica var. biflora</i>	

Residential Street Trees	Between Lot Plantings	Foundation Plantings	Site Distance Triangle	Screening	Vehicular Service Area (VSA): Perimeter Buffer	Vehicular Service Area (VSA): Interior Landscaping	Vehicular Service Area (VSA): Tree and Terminal Islands	Buffers: Constructed / Mitigated	Buffers: Natural / Stream
Canopy trees that don't create hazards (i.e. visual and/or physical obstructions and/or conflicts with driveways and utilities)	Canopy trees generally located along common lot lines with other residential homes. Trees are intended to break up the front side and rear yard areas and provide some type of screening.	Smaller shrubs and/or understory trees intended to break up the building's foundational elements. Adequate spacing from the foundation to avoid conflicts with the planting materials should be a consideration.	Smaller shrubs and groundcover plantings that attain a maximum height of 3-4' at maturity.	Plants that can visual block objects or areas on the other side	A combination of canopy and understory trees with shrubs intended to provide screening toward adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas.	A combination of canopy and understory trees with shrubs intended to provide screening from the adjacent rights-of-way and adjacent properties. Plantings should augment preserved existing vegetation and create an overall semi-opaque or opaque screen. They should also screen large off-street parking areas. Plantings should avoid materials that could shed and cause damage to vehicles.	A combination of canopy and understory trees with shrubs intended to break up large off-street parking areas. Planting should be sized and selected to survive smaller spaces and heat. Plantings should avoid materials that could shed and cause damage to vehicles.	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required vegetative buffers. Plantings should be selected and designed to fill in the voided or denuded areas.	A combination of canopy and understory trees with shrubs intended to augment and/or replace removed trees within required stream buffers. Plantings should be selected to augment the existing vegetation and survive in wet conditions.
					Euonymus americanus			Crataegus viridis	Quercus imbricaria
					Hamamelis virginiana			Quercus laurifolia	
					Lindera benzoin			Dasiphora fruticosa subsp. floribunda	Quercus nigra
								Diervilla sessilifolia	Quercus phellos
								Dirca palustris	Quercus stellata
								Fagus grandifolia	Rhamnus caroliniana
								Fothergilla gardenii	Rhododendron arboreoscens
								Fothergilla major	Rhododendron atlanticum
								Gleditsia triacanthos var. inermis	Rhododendron austrinum
								Gymnocladus dioicus	Rhododendron calendulaceum
								Halesia carolina	Rhododendron canescens
								Halesia diptera	Rhododendron catawbiense
								Halesia tetraptera	Rhododendron minus
								Hydrangea arborescens	Rhododendron periclymenoides
								Hydrangea quercifolia	Rhododendron prinophyllum
								Ilex decidua	Rhododendron vaseyi
								Ilex glabra	Rhododendron viscosum
								Ilex vomitoria	Rhus glabra
								Ilex vomitoria	Rosa carolina
								Itea virginica	Rosa palustris
								Juglans nigra	Rosa virginiana
								Leucothoe axillaris	Salix caroliniana
								Leucothoe fontanesiana	Salix nigra
								Malus angustifolia	Salix sericea
								Myrica cerifera	Sambucus canadensis
								Nyssa aquatica	Stewartia malacodendron
								Osmanthus americanus	Stewartia ovata
								Ostrya virginiana	Styrax americanus
								Oxydendrum arboreum	Styrax grandifolius
								Physocarpus opulifolius	Vaccinium arboreum
								Pinus palustris	Vaccinium corymbosum
								Prunus virginiana	Vaccinium elliottii
								Quercus bicolor	Vaccinium pallidum
								Quercus falcata	Vaccinium stamineum
								Quercus imbricaria	Vaccinium tenellum
								Quercus laurifolia	Vaccinium virgatum
								Quercus marilandica	Viburnum acerifolium
								Quercus michauxii	Viburnum bracteatum
								Quercus montana	Viburnum cassinoides
								Quercus nigra	Viburnum dentatum
								Quercus pagoda	Viburnum lentago
								Quercus phellos	Viburnum nudum
								Quercus rubra	Viburnum prunifolium
								Quercus stellata	Viburnum rufidulum
								Quercus velutina	Yucca filamentosa
								Quercus virginiana	Yucca flaccida
								Rhamnus caroliniana	Zenobia pulverulenta
								Rhododendron arboreoscens	Euonymus americanus
								Rhododendron atlanticum	Hamamelis virginiana
								Rhododendron austrinum	Ilex verticillata
								Rhododendron calendulaceum	Lindera benzoin
								Rhododendron canescens	Magnolia virginiana
								Rhododendron catawbiense	
								Rhododendron cumberlandense	
								Rhododendron maximum	
								Rhododendron minus	
								Rhododendron periclymenoides	
								Rhododendron prinophyllum	
								Rhododendron vaseyi	
								Rhododendron viscosum	
								Rhus copallinum	
								Rhus glabra	
								Robinia pseudoacacia	
								Rosa carolina	
								Rosa virginiana	
								Sambucus canadensis	
								Sassafras albidum	
								Stewartia malacodendron	
								Stewartia ovata	
								Styrax americanus	
								Styrax grandifolius	
								Vaccinium arboreum	
								Vaccinium corymbosum	
								Vaccinium elliottii	
								Vaccinium pallidum	
								Vaccinium stamineum	
								Vaccinium tenellum	
								Vaccinium virgatum	
								Viburnum acerifolium	

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								Viburnum bracteatum	
								Viburnum dentatum	
								Viburnum lentago	
								Viburnum nudum	
								Viburnum prunifolium	
								Viburnum rafinesqueanum	
								Viburnum rufidulum	
								Yucca filamentosa	
								Yucca flaccida	
								Zenobia pulverulenta	
								Amelanchier laevis	
								Euonymus americanus	
								Hamamelis virginiana	
								Ilex verticillata	
								Lindera benzoin	
								Magnolia virginiana	
								Magnolia virginiana	