

1. **The suggested plant materials list includes common trees and shrubs suitable for use in the Forsyth County area.**
2. Due to individual site soil, moisture, and microclimate conditions, professional expertise should be sought to determine the appropriate plant materials for any particular development project.
3. The use of native plants is recommended where possible.
4. Other appropriate plants not included in this list may also be used with the approval of the Director of Inspections or designee.
5. The following trees shall not be credited toward the requirements of **Section 6.2.1, Landscaping and Tree Preservation Standards – Winston-Salem:**

- a. *Acer saccharinum* Silver Maple;
- b. *Ailanthus altissima* Tree of Heaven;
- c. *Albizia julibrissin* Mimosa;
- d. *Paulownia tomentosa* Royal Paulownia;
- e. *Pinus strobus* White Pine;
- f. *Pinus virginiana* Virginia Pine;
- g. *Populus* spp. Hybrid Poplars; or
- h. *Pyrus calleryana* cultivars Bradford and Chanticleer Pear and other Cultivars.

The developer's standard is a Maple Tree. A homeowner may request to opt out of the standard tree (subject to ARC approval) and plant a compliant tree at their own expense.

At time of planting, trees must be at least 2" diameter (caliper at 6" above ground) and 8' tall if deciduous or 6' tall if evergreen.

TABLE 6.2.1.J.1: SUGGESTED PLANT MATERIALS LIST

PLANT NAME	HEIGHT	SPREAD	GROWTH RATE	LIGHT NEEDS	COMMENTS
S = SLOW; M = MODERATE; R = RAPID; S = SUN; SH = SHADE; PS = PARTIAL SUN; D = DECIDUOUS; E = EVERGREEN					
(A) LARGE VARIETY TREES (MATURE HEIGHT: THIRTY-FIVE (35) FEET OR GREATER)					
(1) Native Evergreen					
<i>Ilex opaca</i> American Holly	40—60'	20—30'	S	S-SH	Tolerates a variety of conditions, male and female plants needed for fruit, pyramidal form
<i>Juniperus virginiana</i> Eastern Red Cedar	40—50'	15—25'	M	S-PS	Tolerates a variety of conditions, pyramidal form, male and female plants needed for fruit
<i>Magnolia grandiflora</i> Southern Magnolia	60—80'	30—40'	R	S-PS	Less shade tolerant with age, attracts wildlife, fragrant spring and summer flowers
<i>Pinus taeda</i> Loblolly Pine	90—120'	30—40'	R	S	Tolerates flooding and drought, critical to Brown-headed Nuthatch
<i>Quercus laurifolia</i> or <i>hemisphaerica</i> Laurel Oak	60—80'	30—40'	R	S-SH	Shade tolerant, good for moist sites
(2) Native Deciduous					
<i>Acer barbatum</i> or <i>floridanum</i> Southern Sugar Maple	50—60'	20—35'	M	S-PS	Heat tolerant, dislikes dry, compact soil
<i>Acer rubrum</i> Red Maple	60—90'	30—50'	R-M	S-SH	Tolerates a variety of conditions, including wet soil, fall color
<i>Acer saccharum</i> Sugar Maple	90—120'	40—60'	S	S-PS	Extensive root system, fall color, shade tolerant

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<i>Betula nigra</i> River Birch	60—80'	30—50'	R	S-PS	Lacy texture, tolerates a variety of conditions, including wet soil, tends to drop small limbs, cultivars available
<i>Celtis laevigata</i> Southern Hackberry or Sugarberry	70—80'	30—50'	R	S-PS	Tolerates a variety of conditions
<i>Cladrastis kentukea</i> Yellow-wood	40—50'	40—45'	M	S	Tolerates a variety of conditions, fragrant white blooms in alternate years
<i>Diospyros virginiana</i> American Persimmon	30—60'	20—25'	S-M	S-PS	Tolerates dry soil, good fall color, fruit attracts wildlife. Separate male and female plants.
<i>Fraxinus pennsylvanica</i> Green Ash	50—120'	40—50'	R	S-PS	Tolerates a variety of conditions. Separate male and female plants. Many cultivars available.
<i>Gymnocladus dioica</i> Kentucky Coffee-tree	60—75'	40—50'		S	Tolerant of air pollution and drought, fall color
<i>Liquidambar styraciflua</i> Sweet Gum	80—120'	40—60'	R	S	Fall color, best in natural areas due to fruit drop
<i>Liquidambar styraciflua</i> 'Rotundiloba' Fruitless Sweet Gum	60—70'	20—30'	R	S	Pyramidal in form, does not set much fruit, tolerates clay soil
<i>Liriodendron tulipifera</i> Tulip-Tree or Yellow Poplar	90—120'	60—80'	R	S	Tolerates a variety of conditions, drops limbs, best in natural areas, host for N.C. State butterfly
<i>Nyssa sylvatica</i> Black Gum	50—80'	30—50'	M	S-PS	Fall color, pyramidal when young
<i>Platanus occidentalis</i> Sycamore	80—120'	40—60'	R	S-PS	Showy bark, tolerates a variety of conditions but needs water, best in natural areas
<i>Prunus serotina</i> Wild Black Cherry	60—80'	30—50'	R	S-PS	Tolerates a variety of conditions, seeds heavily, best in natural areas
<i>Quercus alba</i> White Oak	80—100'	40—60'	S-M	S-PS	Sensitive to construction damage, good fall color
<i>Quercus bicolor</i> Swamp White Oak	50—60'	50—60'	M-R	S	Needs acidic soil, drought resistant, intolerant of salt and air pollution
<i>Quercus coccinea</i> Scarlet Oak	50—80'	40—50'	R	S	Good fall color, tolerates dry, sandy soil
<i>Quercus falcata</i> Southern Red Oak	70—80'	30—40'	R	S-PS	Tolerates drought
<i>Quercus imbricaria</i> Shingle Oak	50—60'	50—60'	S-M	S	Tolerates a variety of conditions
<i>Quercus lyrata</i> Overcup Oak	35—45'	35—40'	M	S	Tolerates a variety of conditions
<i>Quercus macrocarpa</i> Bur Oak	60—80'	60—80'	S	S	Tolerant of city conditions
<i>Quercus nigra</i> Water Oak	70—90'	30—50'	R	S	May retain some leaves through the winter, tolerates a variety of conditions

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<i>Quercus palustris</i> Pin Oak	60—80'	40—50'	R	S	Tolerates a variety of conditions, pyramidal form, good fall color
<i>Quercus phellos</i> Willow Oak	80—100'	40—50'	R	S-PS	Tolerates a variety of conditions, golden fall color
<i>Quercus rubra</i> Red Oak	80—90'	30—50'	R-M	S-PS	Needs moist soils, good fall color
<i>Quercus shumardii</i> Shumard Oak	90—100'	40—50'	R-M	S	Tolerates a variety of conditions
<i>Quercus texana</i> or <i>nuttallii</i> Nuttall Oak	60—80'	30—40'	R	S-PS	Tolerates poorly drained soils, drought tolerant
<i>Taxodium distichum</i> Bald-cypress	100—120'	30—40'	R	S	Pyramidal when young, tolerates wet and dry soils, fall color, attractive trunk
<i>Tilia americana</i> Southern Basswood or American Linden	50—70'	30—45'	M	S-PS	Tolerates drought and clay soil, intolerant of air pollution, consider 'Redmond' cultivar
(3) Non-Native Evergreen					
<i>Cedrus deodara</i> Deodar Cedar	40—70'	30—40'	M	S-PS	Tolerates drought and hot, dry summers, likes acidic soil
<i>Cryptomeria japonica</i> Japanese Cryptomeria	50—60'	25—30'	M	S-PS	Tolerates a variety of conditions, pyramidal shape, many cultivars available
<i>Thuja</i> 'Green Giant' Green Giant Arborvitae	40—50'	15—20'	R	S-PS	Tolerates a variety of conditions, may need some wind protection, bronzes in winter
(4) Non-Native Deciduous					
<i>Acer</i> × <i>freemanii</i> Freeman Maple	Gen. 40—70'	Gen. 15—40'	M	S-PS	A hybrid of red maple and silver maple, cultivars vary in size and characteristics
<i>Cercidiphyllum japonicum</i> Katsura Tree	40—60'	20—40'	M-R	S	Intolerant of hot, dry sites, fall color
<i>Ginkgo biloba</i> Ginkgo	50—80'	30—40'	S	S	Plant male trees to avoid messy, smelly fruit, tolerates a variety of conditions, bright yellow fall color
<i>Metasequoia glyptostroboides</i> Dawn Redwood	70—100'	15—25'	R	S	Tolerates a variety of conditions, tolerates wet soils, attractive trunk
<i>Platanus</i> × <i>acerifolia</i> London Planetree	65—80'	75—100'	M	S-PS	Good street tree, light brown exfoliating bark
<i>Quercus robur</i> 'Fastigata' Upright English Oak	50—60'	10—20'	S	S	Tolerates drought and air pollution, narrow, upright form
<i>Sophora japonica</i> or <i>Styphnolobium japonicum</i> Japanese Scholartree or Japanese Pagodatree	50—70'	50'	M-R	S-PS	Resistant to air pollution and drought, but marginally heat hardy in Piedmont N.C.
<i>Tilia cordata</i> 'Greenspire' Greenspire Littleleaf Linden	30—40'	25—35'	S-M	S	Piedmont N.C. is at southern extreme of range, air pollution tolerant, cultivars available
<i>Tilia tomentosa</i> Silver Linden	40—70'	25—45'	R	S-PS	Tolerates drought and air pollution and a variety of soil conditions
<i>Ulmus parvifolia</i> Lacebark or Chinese Elm	40—50'	40—50'	M-R	S	Tolerates a variety of conditions, attractive bark, a tough and durable tree

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<i>Ulmus hybrida</i> <i>Hybrid Elm</i>	75—125'	60—120'	M-R	S-PS	Tolerates a variety of conditions; Dutch Elm disease resistant varieties available
<i>Zelkova serrata</i> <i>Japanese Zelkova</i>	50—80'	40—50'	M	S-PS	Good street tree; tolerates urban conditions well, cultivars available
(B) MEDIUM VARIETY TREES (MATURE HEIGHT: TWENTY-FIVE (25) TO THIRTY-FIVE (35) FEET)					
(1) Native Evergreen					
<i>Ilex × attenuata</i> 'Fosteri' <i>Foster's Holly</i>	20—30'	10—20'	R	S-PS	Red fruits, male plants not needed for fruiting, best berry production in full sun
<i>Magnolia virginiana</i> <i>Sweet Bay Magnolia</i>	20—30'	10—15'	M	S-PS	Tolerates some shade, good for wet sites, cultivars provide evergreen and deciduous options
<i>Pinus virginiana</i> 'Wate's Golden' <i>Wate's Golden Virginia Pine</i>	15—30'	10—20'	S-M	S	Grows in poor soils, turns golden in winter, seeds eaten by birds, especially Brown-headed Nuthatch
<i>Prunus caroliniana</i> <i>Carolina Laurel Cherry</i>	20—40'	15—20'	M-R	S-PS	Tolerates a variety of conditions, colonizes
(2) Native Deciduous					
<i>Carpinus caroliniana</i> <i>American Hornbeam or Ironwood</i>	20—30'	20—30'	S	S-PS	Does well in moist to wet soil, attractive trunk, interesting fruit
<i>Cercis canadensis</i> <i>Eastern Redbud</i>	20—30'	25—35'	M	S-PS	Tolerates a variety of conditions, many cultivars available, early spring purple/pink blooms
<i>Cornus florida</i> <i>Flowering Dogwood</i>	15—30'	15—20'	S-M	PS	Best in part shade, many cultivars available, flowers in spring, fall color and red fruit
<i>Gleditsia triacanthos</i> var. <i>inermis</i> <i>Thornless Honeylocust</i>	30—70'	30—40'	R	S	Range of soil types, drought tolerant;
<i>Halesia tetraptera</i> <i>Common Silverbell</i>	20—40'	20—35'	M	S-PS	Tolerates a variety of conditions, showy white blooms in spring, cultivars available
<i>Ostrya virginiana</i> <i>Eastern Hop-hornbeam</i>	20—30'	20—30'	S	S-PS	Tolerates a variety of conditions, interesting fruit
<i>Oxydendrum arboreum</i> <i>Sourwood</i>	20—30'	10—15'	S	S-PS	Tolerates a variety of conditions, white summer flowers, fall color, source of sourwood honey
(3) Non-Native Evergreen					
<i>Ilex × 'Nellie R. Stevens'</i> <i>Nellie Stevens Holly</i>	30—40'	10—15'	R	S-PS	Red fruit, drought and heat tolerant, male and female plants (<i>I. cornuta</i>) needed for best fruiting, also used as a large shrub
<i>Pinus thunbergii</i> <i>Japanese Black Pine</i>	20'	20'	S-M	S	Select small tree cultivar from among dwarf cultivars, heat and drought tolerant
(4) Non-Native Deciduous					
<i>Acer buergerianum</i> <i>Trident Maple</i>	25—35'	20—30'	M	S-PS	Tolerates a variety of conditions; good fall color
<i>Acer campestre</i> <i>Hedge Maple</i>	25—35'	25—35'	S	S	Tolerates drought and air pollution; shallow root system

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<i>Carpinus betulus</i> 'Fastigata' <i>Pyramidal European Hornbeam</i>	30—40'	20—30'	S-M	S-PS	Pyramidal when young, tolerates a range of conditions
<i>Koelreuteria paniculata</i> <i>Goldenrain Tree</i>	20—40'	15—35'	M-R	S-PS	Tolerates drought and air pollution, yellow flowers in June
<i>Magnolia</i> × <i>soulangiana</i> or <i>soulangeana</i> <i>Saucer Magnolia</i>	15—25'	15—25'	M	S-PS	Late flowering cultivars avoid frost damage to blooms
<i>Pistacia chinensis</i> <i>Chinese Pistachio</i>	25—35'	20—30'	M-R	S	Drought tolerant, male and female plants needed for fruit, fall color
<i>Prunus</i> 'Kwanzan' <i>Kwanzan Cherry</i>	20—30'	15—25'	M	S-PS	Pink blooms in April, may be short-lived, good fall color, no fruit
<i>Prunus</i> 'Okame' <i>Okame Cherry</i>	15—30'	20—30'	M-R	S	Tolerates a variety of conditions, pink blooms in late winter lasting longer than most cherries
<i>Prunus subhirtella</i> 'Autumnalis' <i>Fall Blooming Cherry</i>	20—30'	15—25'	R	S-PS	Flowers best in full sun, flowers both in fall and late winter, may be short lived
<i>Prunus subhirtella</i> 'Pendula' <i>Weeping Cherry</i>	20—40'	15—30'	M	S	Tolerant of heat and clay soil; white to pinkish flowers in early spring; relatively long lived
<i>Prunus</i> × <i>yedoensis</i> <i>Yoshino Cherry</i>	30—40'	30—50'	R	S	Tolerates a variety of conditions, pale pink to white flowers in early spring, many cultivars available
(C) SMALL VARIETY TREES (MATURE HEIGHT: LESS THAN TWENTY-FIVE (25) FEET)					
(1) Native Evergreen					
<i>Ilex vomitoria</i> <i>Yaupon Holly</i>	15—20'	10—20'	S-M	S-SH	Tolerates a variety of conditions, male and female plants needed for fruit, many cultivars available in many sizes
<i>Magnolia grandiflora</i> 'Little Gem' <i>Little Gem Magnolia</i>	15—20'	8—10'	R	S-PS	Dwarf cultivar of <i>Magnolia grandiflora</i>
<i>Morella</i> or <i>Myrica cerifera</i> <i>Wax-myrtle</i>	10—15'	8—10'	R	S-PS	Tolerates wet to dry soils, can colonize, many cultivars available, male and female plants needed for fruit, also can be used in shrub form
(2) Native Deciduous					
<i>Aesculus pavia</i> <i>Red Buckeye</i>	10—20'	10—20'	M	S-PS	Especially attracts hummingbirds and pollinators, red flowers in spring, leaf scorch may develop in dry soils
<i>Amelanchier</i> × 'Autumn Brilliance' <i>Autumn Brilliance Serviceberry</i>	25—40'	20—30'	S	S-PS	Tolerates a variety of conditions, rust fungus can attack fruit, early spring white blooms, fall color, other cultivars available
<i>Chionanthus virginicus</i> <i>Fringe-tree or Old Man's Beard</i>	12—20'	12—20'	S-M	S-PS	Tolerates a variety of conditions, male and female plants needed for fruit, fragrant white flowers in spring

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<i>Crataegus viridis</i> 'Winter King' <i>Winter King Green Hawthorn</i>	15—30'	10—20'	S	S-PS	Drought tolerant, has thorns, other native species available, white flowers in spring, fall color, interesting bark
(3) Non-Native Evergreen					
<i>Ilex cornuta</i> 'Burfordii' <i>Burford Holly</i>	8—20'	5—10'	S-M	S-PS	Drought and heat tolerant, red fruit produced without pollinator, dwarf cultivar available
(4) Non-Native Deciduous					
<i>Acer palmatum</i> <i>Japanese Maple</i>	15—25'	10—25'	S-M	S-PS	Avoid hot, dry and windy sites; many cultivars available
<i>Chionanthus retusus</i> <i>Chinese Fringe-tree</i>	15—25'	10—25'	M	S-PS	Tolerates a variety of conditions, showy white flowers in spring
<i>Cornus kousa</i> <i>Kousa Dogwood</i>	15—30'	15—30'	S	S-PS	Resistant to anthracnose, white flowers in May, fall color
<i>Lagerstroemia indica</i> cvs. <i>Crape myrtle</i>	15—30'	6—15'	R	S	Summer blooms, attractive bark, overused, many cultivars (including dwarfs) available, do not top
<i>Magnolia stellata</i> <i>Star Magnolia</i>	10—15'	6—10'	S-M	S-PS	Blooms best in full sun, late winter white flowers
<i>Malus hybrida</i> <i>Hybrid Crabapple</i>	15—25'	10—20'	M	S	Plant only disease resistant cultivars, many cultivars available, showy spring flowers and fall fruit
<i>Prunus sargentii</i> <i>Sargent Cherry</i>	20—40'	20—40'	R	S	One of the hardiest cherries; pink flowers; sensitive to air pollution; reddish bark
<i>Prunus serrulata</i> 'Snowgoose' <i>Snowgoose Japanese Cherry</i>	15—25'	15—20'	M	S-PS	White sprung flowers; reddish bark; may be short-lived
<i>Syringa reticulata</i> <i>Japanese Tree Lilac</i>	20—30'	15—20'	M	S	Tolerates a variety of conditions; creamy white flowers in mid-summer
(D) STREETYARD AND INTERIOR SHRUBS (MATURE HEIGHT THIRTY-SIX (36) INCHES OR MORE)					
(1) Native Evergreen					
<i>Agarista populifolia</i> <i>Florida Leucothoe or Agarista</i>	8—12'	8—12'	R	PS	Tolerates a variety of conditions, but prefers moist soil
<i>Ilex glabra</i> <i>Inkberry Holly</i>	5—9'	5—10'	S-M	S-PS	Drought tolerant but prefers moist soil, many cultivars available, male and female plants needed for fruit
<i>Ilex vomitoria</i> <i>Yaupon Holly</i>	10—20'	8—12'	M-R	S-PS	Tolerates wet to dry soils, male and female plants needed for fruit, dwarf and other cultivars available
<i>Illicium floridanum</i> <i>Florida Star-anise</i>	5—8'	6—8'	M	PS-SH	Prefers moist, well-drained soil high in organic matter, many cultivars available, showy spring flowers
<i>Illicium parviflorum</i> <i>Yellow Anise-tree</i>	7—10'	8—10'	M	S-PS	Tolerates a variety of conditions, drought tolerant, can colonize, some cultivars available