# TREE AND FOUNDATION PLANT EVALUATION POLK PLACE

Michael A. Dirr, Ph.D., Horticulture, Margie Boccieri and Jennifer Wagner

Evaluated May 21, 2008

**OBJECTIVE:** To identify catalog and evaluate the health of the trees and foundation plantings at Polk Place. Develop thoughtful recommendations for future tree and building plantings.

**METHODS:** Identified the trees and shrubs and assigned "low", "moderate", and "high" ratings based on how a healthy specimen of each taxon should appear. "Moderate"- to "high"-rated plants are in good to excellent condition and require "normal" maintenance. The "low"-rated would ideally be removed and new plantings constituted. Table 1 is the composite; Table 2 presents plants by location.

#### **RESULTS:**

#### Table 1. Total Tree and Shrub Composition of Polk Place

Over 100 woody taxa were cataloged. No genus/species/cultivar dominated the Polk Place landscape. The diversity is important to avoid monoculture and pedestrian aesthetics. The Landscape Department should be lauded for incorporating new/unusual plants. For example, *Camellia sasanqua, Caryopteris* × clandonensis, Fothergilla 'Mt. Airy', Hydrangea quercifolia, Ilex verticillata,

Illicium floridanum, Loropetalum chinense var. rubrum, Osmanthus species, Sarococca confusa, Styrax obassia and Viburnum tinus reflect a spirited, vibrant commitment to color, fragrance and texture. Stumbling upon this cornucopia of woodies provided identification challenges. Ilex taxa, hollies, comprised 21% (145/680) of the plants surveyed plus several hedges and masses. Hollies are aesthetic, functional, durable, and long-lived; all desirable traits for campus landscapes.

Surprisingly only one *Buxus sempervirens* was cataloged, 0.14%. Many new, disease-resistant boxwoods are now available. The question was raised about moving some of the boxwood from Bell Tower to the Polk Place buildings.

Certainly, this is doable.

Several plantings are totally higgledy-piggledy with one each of many taxa. Shade and root competition are factors affecting proper plant selection. Grouping and massing shade-tolerant plants would result in more robust compositions. Loropetalum chinense var. rubrum, Sarcococca confusa and S. hookeriana var. humilis, Camellia japonica and C. sasanqua, Abelia xgrandiflora, Aucuba japonica, Gardenia augusta, Ilex taxa, Osmanthus taxa, Mahonia taxa, Rhododendron taxa, Viburnum tinus and others are shade tolerant and currently performing quite valiantly in the Polk Place matrix. The use of plants to cover the ground instead of mulch results in a more aesthetically-pleasing composition.

Opportunities abound for positive enhancement, and with the commercial introduction of numerous new (and reasonably tested) plants like the red hollies, Encore Azaleas, red loropetalums, cold hardy gardenias, cold hardy camellias (Camellia Forest Nursery, Chapel Hill), new remontant (reblooming) hydrangeas and fragrant viburnums, effective change is easily facilitated.

If a particular building was revamped *in toto*, the resultant landscape would speak to the future. Many nursery growers in North Carolina and the Southeast would possibly donate newer/unique plants. Design, installation and maintenance responsibilities reside with the University.

The majority of trees and shrubs are in "moderate" to "high" condition, with over 80% placed in these categories. Forty-three percent are rated "high". These numbers reflect the excellent plant selection and maintenance by the Landscape Department. The "low"-rated plants have been *in situ* too long and/or pruned to the degree of no salvation. With the advent of new compact (dwarf) selections of the shrubs listed above, future maintenance costs can be reduced.

The majestic *Quercus alba* on the Quad are generally in excellent condition.

Eighty-five percent rated "moderate" to "high". With the pedestrian traffic, construction, and events in this area, the white oaks are quite robust. I understand that Bartlett Tree, inc. consults on an as-needed basis. I recommend continued monitoring of white oak health. Consider seedling populations from

the five healthiest trees to be utilized as eventual replacements. Contract with North Carolina grower(s) for number of trees and delivery dates. Need to develop (ASAP) replacements for those designated as "low".

The *Quercus phellos*, willow oaks, range from "low" (6), "moderate" (8) to "high" (4). They form the outer boundary between the buildings and the white oaks.

Several in the "low" category are liabilities and should be removed or at the least correctively pruned. These trees are suffering from compaction and reduced root zone spaces.

New design strategies are being proposed to provide more root zone area. If the *Quercus alba* were planted where the *Quercus phellos* currently reside, they would rate "low" or have long since died. The significant root zone area provided the white oaks has contributed to their good health and longevity.

Now is an opportunity to strategize about alternatives to the failing willow oaks.

New own-root willow oaks such as Hightower® and an upright selection

Upperton™ ('RT3', PP 16,444) are choice alternatives. *Quercus falcata* var.

pagodifolia, cherrybark oak; *Q. lyrata*, overcup oak; *Q. nuttallii*, Nuttall oak; and *Q. michauxii*, swamp chestnut oak; tolerate low O₂ tensions and, in nature, grow in wet soils. Choice specimens already grow on the University campus.

We live in the future so we might as well plan for it...the same applies to the continued care of Polk and the thoughtful regreening.

Addendum: Running Observations
Polk Place – Existing Plants and Notes
May 21, 2008

#### Overall:

Plants should be placed in the correct place at planting. Many appear to be in decline due to improper siting (shade/sun, etc.)

#### **South Building**

- Hodgepodge of overgrown shrubs at north side of building
- The llex on the south side of the building have been pruned into too "formal" a shape that does not seem to mesh with the remainder of the quad.
- Recommend adding fastigiate oaks along the south side of the building instead of the high shrubs to allow views, lend some formality and offer some softening of the building.
- Recommend removing Bradford Pear on west side of building to allow better views and more room for the two heritage trees on either side.

# Groundcover plants:

Liriope on south and east sides of building Mixture of the following in bed on southeast side:

Loropetalum chinense Gardenia augusta Heuchera Dianthus plumarius Russian Sage Hostas

# YMCA Building

New plantings

Groundcover Plants:

Liriope in square planters on north side of building

Climbing Hydrangea on east wall of Gerrard

Helleborus and Christmas Ferns in beds on north side of building

Mixture of the following in bed on southeast side:

Cornus kousa x C. florida

Hosta

Gardenia augusta

Astilbe

Cercis canadensis

Calycanthus floridus

Hydrangea macrophylla Heuchera Arum italicum

#### **Courtyard east of Carroll**

- There is construction going on in a large portion of the courtyard.
- Much of the ground in the planters around the courtyard is heavily compacted due to construction activities and pedestrian routes that have developed in order to avoid construction.

There is a huge *Ilex latifolia* in front of Carroll. (Champion?)

There is invasive groundcover (vinca ) on the southeast corner of Carroll.

Dwarf Nandina in beds behind walls

Two small patches of juniper in the courtyard

Red Maple in the courtyard is in excellent condition, but is in danger of heavy root damage from construction.

#### **Gardner Building**

Carya aquatica(?) on northeast corner of Gardner is in poor condition.

Groundcover Plants: Autumn Ferns Pachysandra Liriope

# **Dey Building**

The three *Quercus phellos* in the planters in front of the east entrance of the building are in poor condition and have been heavily pruned/"topped".

Groundcover Plants:

Liriope

#### Wilson Library

**Groundcover Plants:** 

Turf

# **Bingham Building**

The shrubs in front of the building are not the same cultivars of llex

Groundcover Plants: *Helleborus* 

Candytuft

#### Murphey Building

Groundcover Plants:

West side of building:

Helleborus

A small patch of ivy in the memorial garden

North side of building (along courtyard):

Groupings of Helleborus

Groupings of *Pachysandra* 

Ivy (invasive, amongst *Pachysandra*)

Mismatched and sparse plantings of the following:

Lily of the Valley

Violets

Astilbes

Pachysandra

Liriope

Hosta

Helleborus

East side of building:

Lirope

# **Courtyard west of Manning Building**

Groundcover Plants:

Turf throughout courtyard

Dwarf nandinas in planters behind walls

Turf at northwest corner of Manning Building

Invasive weeds at southwest corner planter

Liriope at north side of building

#### Saunders Building

Planter on north side of building has drainage issues due to construction at the Steele building and has become mucky.

Groundcover Plants:

Liriope at west side and east side of building

Pachysandra at north side of building

# **Courtyard east of Saunders Building**

Recommend take out walls to allow trees more room to grow.

Red Maple in planter near Bynum Building is heavily compacted – tree will likely not survive.

# **Gated Sculpture Garden**

Ringed with *Abelia* × *grandiflora* (moderate), alternating with and accented at corners with Boxwood (poor to moderate)

Turf in center planters

Two Cercis Canadensis 'Oklahoma' (high)

# Steele Building

Under construction – very little plant material left

A large *Photinia* (Redtip) is planted next to a large Bald Cypress. Recommend removing *Photinia* to encourage health and aesthetics of *Taxodium distichum*.

# **Theater Building**

New plantings

Groundcover plants:

Lirope in street planters

Lirope in planter south of building

Liriope in planter at southeast corner of building

Invasive Euonymus fortunei groundcover in planters east of building.

Mixture of the following in planter north of Theater:

Clethra alnifolia

Zenobia pulverulenta (1)

Astilbe

Hosta

Helleborus

**Daffodils** 

Heuchera

Table 1. Total Tree and Shrub Composition of Polk Place

Scientific Name	High	Moderate	Low	Grand Total
Abelia 'Edward Goucher'	<u> </u>	1		3
Abelia ×grandiflora		3 + 1 mass	mass	3 + 2 masses
Acer barbatum		2		2
Acer buergerianum		1	1	2
Acer palmatum var. atropurpureum	1			1
Acer rubrum	3		2	5
Acer saccharum	1	1	1	3
Amelanchier xgrandiflora		1		1
Aucuba japonica	16			16
Betula utilis var. jacquemontii		1		1
Buxus sempervirens		1		1
Calocedrus decurrens			1	1
Camellia japonica	3	5		8
Camellia sasanqua	14	11	9	34
Carya aquatica			1	1
Caryopteris xclandonensis	14			14
Cercis canadensis		1	2	3
Cercis canadensis 'Oklahoma'			1	1
Cercis chinensis	1			1
Chaenomeles spp.	4			4
Chionanthus retusus		1		1
Clethra alnifolia	4			4
Cornus xrutgersensis	1			1
Cornus florida		5	6	11
Cornus kousa	2			2
Daphne odora 'Variegata'		1		1
Deutzia gracilis 'Nikko'	30			30
Diospyros virginiana			1	1
Elaeagnus pungens		mass		mass
Euonymus alatus 'Compactus'	several in groupings	several in groupings		several in groupings
Fothergilla major 'Mt. Airy'			4	4
Fraxinus americana	1			1
Gardenia augusta	17			17
Gardenia augusta 'Radicans'		11	5	16
Hydrangea anomala subsp. petiolaris		1		1
Hydrangea macrophylla	6		1	7
Hydrangea macrophylla 'Endless Summer'	2			2
Hydrangea macrophylla 'Pia'	5			5
Hydrangea quercifolia		9		9
Ilex 'Emily Bruner'	1	2		3
Ilex 'Nellie R. Stevens'	21			
Ilex xattenuata 'East Palatka'		2		
Ilex ×attenuata 'Fosters #2'	2			12
Ilex xattenuata 'Savannah'		1		1
Ilex ×koehneana		3		3
llex cornuta 'Burfordii'	2 + 1 hedge		3	12 + 1 hedge
Ilex cornuta 'Dwarf Burford'	4	17 + 1 mass	6	27 + 1 mass
Ilex cornuta 'Needlepoint'	<u> </u>		1	1
Ilex cornuta 'Rotunda'	2 masses			2 masses
llex crenata	8		1	9
llex crenata 'Hetzii'	<u> </u>		2 hedges	2 hedges
llex decidua	1			1
llex latifolia		1	1	2
llex opaca	<u> </u>	2		2
llex pernyi x l. cornuta		2		3
llex verticillata		1		2
llex vomitoria	3	2	mass	5 + 1 mass
Ilex vomitoria 'Nana'	22			22
Illicium floridanum	3			3
Ligustrum japonicum	1	1	2	2
	<del>-</del>	<del> </del>		
Ligustrum sinense Lirodendron tulipifera	1	4	mass 3	

Table 1. Total Tree and Shrub Composition of Polk Place

Scientific Name	High	Moderate	Low	Grand Total
Loropetalum chinense		1		1
Loropetalum chinense var. rubrum	1			1
Magnolia grandiflora	1	2	5	8
Mahonia bealei		1		1
Malus spp.			1	1
Nandina domestica		8 masses		8 masses
Nandina domestica 'Gulf Stream'	5			5
Nyssa sylvatica var. biflora	1			1
Osmanthus xfortunei	7			7
Osmanthus heterophyllus	2	2		4
Philadelphus coronarius		1		1
Photinia ×fraseri		2	1	3
Pieris japonica		14	15	29
Pistacia chinensis	4			4
Prunus xyedoensis			2	2
Prunus serrulata	1		2	3
Prunus serrulata 'Kwanzan'	1	1	5	7
Pseudotsuga menziesii			1	1
Pyrus calleryana 'Bradford'			1	1
Quercus alba	12	5	3	20
Quercus falcata			1	1
Quercus falcata var. pagodifolia		1		1
Quercus palustris		1	3	4
Quercus phellos	4	9	6	19
Quercus stellata		1	1	2
Rhaphiolepis umbellata	mass	5	12	17 + 1 mass
Rhaphiolepis umbellata 'Majestic Beauty'		1		1
Rhododendron catawbiense		10		10
Rhododendron (Evergreen Azalea)		5	13	18
Rhododendron 'PJM'		2	1	3
Rhododendron Satsuki Azalea	25			25
Rhododendron Southern Indica Azalea		51		51
Sarcococca confusa	8			8
Sarcococca hookeriana var. humilis		8		8
Spiraea cantoniensis 'Lanceata'	15			15
Styrax obassia	1			1
Taxodium distichum	1	1		2
Ternstroemia gymnanthera (aka Cleyera)	1	2		3
Thuja 'Green Giant'	2			2
Tilia cordata	2			2
Viburnum awabuki	3			3
Viburnum plicatum var. tomentosum		4	2	6
Viburnum tinus	5			5
Zenobia pulverulenta	005	1	400	1
	295 + masses,	252 + masses,	133 + masses,	680 + several
	hedges and	hedges and	hedges and	masses and
Grand Total	groupings	groupings	groupings	groupings

Table 2. Polk Place Tree and Shrub Survey by Location

	Τ						
0 1	_			0.11	0 1111	0 44	N. c
Section	Туре	Genus	Species	Cultivar	Condition	Quantity	Note
Theater	Tree	Acer	buergerianum		Low	1	
Theater	Tree	Acer	buergerianum		Moderate	1	
Theater	Tree	Acer	rubrum		High	2	
Theater	Tree	Acer	rubrum		Low	1	
Theater	Tree	Acer	saccharum		Low	1	
Theater	Tree	Cercis	chinensis		High	1	
Theater	Tree	Cornus	florida		Low	1	
Theater	Tree	Cornus	florida		Moderate	2	
Theater	Tree	Magnolia	grandiflora		Moderate	1	
Theater	Tree	Magnolia	grandiflora		Low	1	
Theater	Tree	Magnolia	grandiflora		Low	1	
Theater	Tree	Pseudotsuga	menziesii		Low	1	
Theater	Shrub	Clethra	alnifolia		High	4	
model	Onitab	Olouna	allillolla		i ligii		
Theater	Shrub	Fothergilla	major	'Mt. Airy'	Low	4	
Theater	Shrub	Gardenia	augusta	IVIC. CALLY	High	13	
moutor	Onitab	Garaorna	aagaota		riigii	10	
Theater	Shrub	Hydrangea	macrophylla		Low	1	
Theater	Shrub	Hydrangea	macrophylla	'Pia'	High	5	
<b>T</b>	01 1		'r 'l'			_	
Theater	Shrub	Hydrangea	quercifolia		Moderate	5	
Theater	Shrub	Ilex		'Emily Bruner'	Moderate	1	
Theater	Shrub	Ilex	×koehneana		Moderate	2	
Theater	Shrub	Ilex	vomitoria		High	1	
Theater	Shrub	Nandina	domestica	'Gulf Stream'	High	5	
Theater	Shrub	Osmanthus	×fortunei		High	3	
Theater	Shrub	Rhaphiolepis	umbellata		Low	12	
Tricater	Siliub	Тартногеріз	umbeliata		LOW	12	
Theater	Shrub	Rhaphiolepis	umbellata	'Majestic Beauty'	Moderate	1	
Theater	Shrub	Rhododendron	Satsuki Azalea		High	25	
Theater	Shrub	Rhododendron	Southern Indica Azalea		Moderate	5	
Theater	Shrub	Viburnum	plicatum var. tomentosum		Low	1	
Theater	Shrub	Zenobia	pulverulenta		Moderate	1	
			puiverulerita	ID IM			
Murphy	Shrub	Rhododendron		'PJM'	Low	1	
Bingham	Shrub	llex	cornuta	'Dwarf Burford'	Low	4	
Bingham	Shrub	Camellia	japonica		Moderate	4	
Bingham	Shrub	Camellia	sasanqua		Low	4	
_			·				
Bingham	Shrub	llex	cornuta	'Burfordii'	Low	2	
Bingham	Shrub	llex	cornuta	'Needlepoint'	Low	1	<u>                                     </u>
Bingham	Shrub	llex	crenata		Low	1	Male
Bingham	Shrub	Rhaphiolepis	umbellata		High	Mass	
Bingham	Shrub	Rhaphiolepis	umbellata		Moderate	5	
Bingham	Shrub	Rhododendron	umbeliala		Moderate		Evergreen azalea
Wilson	Siliub	ranououenunon			wouerate	5	L vergreen azalea
Library	Tree	Magnolia	grandiflora		Moderate	1	

Table 2. Polk Place Tree and Shrub Survey by Location

Section	Туре	Genus	Species	Cultivar	Condition	Quantity	Note
Vilson	7,1						
_ibrary	Tree	Magnolia	grandiflora		Low	1	
Wilson	Oll-			INIallia D. Otavaral	1.0	,	
_ibrary Wilson	Shrub	llex		'Nellie R. Stevens'	High	1	
Library	Shrub	llex	×attenuata	'Fosters #2'	High	2	
Vilson	Omab	ПОХ	Xattoriaata	1 001010 112	i iigii		
Library	Shrub	llex	cornuta	'Rotunda'	High	2 masses	
Vilson							
_ibrary	Shrub	llex	pernyi × I. cornuta		Low	1	
Wilson ₋ibrary	Shrub	Tilia	cordata		High	2	
Dey	Shrub	Abelia	xgrandiflora		Moderate	Mass	
Dey	Shrub	Abelia	×grandiflora		Low	Mass	
Dey	Shrub	Aucuba	japonica		High	5	
Dey	Shrub	llex		'Nellie R. Stevens'	Moderate	8	
Dov	Chrub	llov		'Nollio D. Stavene'	Low	2	
Dey Dey	Shrub Shrub	llex llex	×koehneana	'Nellie R. Stevens'	Low Moderate	<u>3</u>	
_ <u> </u>	Sinds		Shoomound		Moderate	'	
Dey	Shrub	llex	cornuta	'Burfordii'	Moderate	1	
Dey	Shrub	llex	vomitoria		High	2	Female
_	01 1	<i>- , ,</i>		( ) ( )			
Dey Gardner	Shrub Tree	Ternstroemia Acer	gymnanthera barbatum	(aka Cleyera)	Moderate Moderate	2	
Gardner	Tree	Carya	aquatica		Low	1	
Gardner	Tree	Cercis	canadensis		Low	1	
<u>Jaranor</u>	1100	001010	Canadonoio		2011	·	
Gardner	Tree	Cornus	×rutgersensis		High	1	
Gardner	Tree	Prunus	×yedoensis		Low	2	
Gardner	Shrub	Camellia	sasanqua		Moderate	6	
Gardner	Shrub	Camellia	sasanqua		Low	4	
Gardner	Shrub	Camellia	sasanqua		High	1	Newly planted
Gardner	Shrub	Cornus	kousa		High	1	
Gardner	Shrub	Gardenia	augusta	'Radicans'	Moderate	11	
Ourano	Omab	Garaonia	aagaota	radioans	Wioderate		
Gardner	Shrub	Gardenia	augusta	'Radicans'	Low	5	
Gardner		llex		'Emily Bruner'	High	1	
Gardner	Shrub	llex		'Emily Bruner'	Moderate	1	
O = = d = = =	Ch much	llavi	20 400 140	Durant Duntand	Madayata	47	
Gardner	Shrub	llex	cornuta	'Dwarf Burford'	Moderate	17	
Gardner	Shrub	llex	vomitoria	'Nana'	High	22	
Gardner	Shrub	Illicium	floridanum		High	3	
						Mass in 5	
Gardner	Shrub	Nandina	domestica		Moderate	beds	
Gardner	Shrub	Pieris	japonica		Low	11	Lacebug
			Couthorn Indian				
Gardner	Shrub	Rhododendron	Southern Indica Azalea		Moderate	28	
Gardner	Shrub	Viburnum	awabuki		High	1	
Carroll	Tree	Ilex	latifolia		Moderate	1	Huge50'
Carroll	Tree	Ilex	latifolia		Low	1	
Carroll	Tree	Magnolia	grandiflora		Low	1	
Carroll	Tree	Prunus	serrulata	H1 6 22	Low	2	
Carroll	Shrub	llex	crenata	'Hetzii'	Low	2 hedges	Flanking the stepsfemale
Carroll	Shrub Shrub	llex Viburnum	opaca owabuki		Moderate	2	
Carroll	SHUD	Viburnum	awabuki		High	2	Building under renovation
Hanes	general						no foundation plantings
Hanes	Tree	Acer	rubrum		High	1	

Table 2. Polk Place Tree and Shrub Survey by Location

Santian	Type	Convo	Species	Cultive	Condition	Ougatitus	Note
Section	Туре	Genus	Species	Cultivar	Condition	Quantity mass in	
						planting	
Hanes	Shrub	Nandina	domestica		Moderate	box	
/MCA	Shrub	Aucuba	japonica		High	8	
YMCA	Shrub	Camellia	sasanqua		High	3	
YMCA	Shrub	llex	vomitoria		Moderate	2	
			anomala subsp.				
Gerrard	Shrub	Hydrangea	petiolaris		Moderate	1	
Gerrard	Shrub	llex	pernyi × I. cornuta		Moderate	2	Newly plantedin plaza b/t
Gerrard	Shrub	Pistacia	chinensis		High	4	Gerrard and South
South	Tree	Acer	palmatum var. atropurpureum		High	1	
South	Tree	Calocedrus	decurrens		Low	1	
South	Tree	Pyrus	calleryana	'Bradford'	Low	1	
South	Tree	Taxodium	distichum		High	1	
						_	
South South	Shrub Shrub	Buxus Camellia	sempervirens japonica		Moderate	3	
			, ,		High	3 1	
South	Shrub	Camellia	japonica		Moderate	1	
South	Shrub	Caryopteris	×clandonensis		High	14	
South	Shrub	Gardenia	augusta		High	4	
<b>50411</b>	Cinas	Garaorna	auguota		ı ngı		
South	Shrub	Hydrangea	macrophylla	'Endless Summer'	High	2	
South	Shrub	llex		'Nellie R. Stevens'	Moderate	3	
South	Shrub	llex		'Nellie R. Stevens'	High	9	
South	Shrub	llex	cornuta	'Burfordii'	High	hedge and 2 others	
South	Shrub	llex	cornuta	'Dwarf Burford'	High	2	
Journ		nox	Comata	Bwaii Baileia	riigii		
South	Shrub	llex	cornuta	'Dwarf Burford'	High	2	
South	Shrub	llex	crenata		High	8	
South	Shrub	Loronotolum	ahinansa	vor rubrum	High	1	
		Loropetalum	chinense	var. rubrum	High	1	
South	Shrub	Osmanthus	×fortunei		High	1	
South	Shrub	Osmanthus	heterophyllus		High	2	
South	Shrub	Pieris	japonica		Moderate	14	
South	Shrub	Rhododendron		'PJM'	Moderate	2	
South	Shrub	Rhododendron	catawbiense		Moderate	10	
_							
South	Shrub	Spiraea	cantoniensis	'Lanceata'	High	15	
South	Shrub	Styrax	obassia		High	1	
South	Shrub	Viburnum	tinus		High	5	
Polk Place	Tree	Diospyros	virginiana		Low	1	
Polk Place	Tree	Quercus	alba		High	12	
Polk Place	Tree	Quercus	alba		Moderate	5	
Polk Place	Tree Tree	Quercus	alba palustris		Low	3	
Polk Place		Quercus					

Table 2. Polk Place Tree and Shrub Survey by Location

Section	Туре	Genus	Species	Cultivar	Condition	Quantity	Note
Polk Place	Tree	Quercus	phellos		Moderate	8	
Polk Place	Tree	Quercus	phellos		Low	6	
Polk Place	Tree	Quercus	stellata		Moderate	1	
Polk Place	Tree	Quercus	stellata		Low	1	
Steele	general						Constructionno vegetation on Polk Place façade
Steele	Tree	llex	×attenuata	'East Palatka'	Low	2	
Steele	Tree	llex	×attenuata	'East Palatka'	Moderate	1	
Steele	Shrub	Ligustrum	japonicum		Low		Poorly pruned
Steele	Shrub	Rhododendron			Low	5	Evergreen azalea
o			plicatum var.				
Steele	Shrub	Viburnum	tomentosum		Low	1	
041-	Ob	\ Classing	plicatum var.		N4l 4 -	4	
Steele	Shrub	Viburnum	tomentosum		Moderate	1	
Saunders	Tree	Cercis	canadensis		Moderate	1	
Saunders	Tree	Cercis	canadensis		Low	1	
Saunders	Tree	Cercis	canadensis	'Oklahoma'	Low	1	
Saunders	Tree	Cornus	florida	Okianoma	Low	3	1
Saunders	Tree	Cornus	florida		Moderate	1	
Saunders	Tree	Fraxinus	americana		High	1	
Sauriders	1166	Ταλίπαδ	amencana		riigii	<u>'</u>	
Saunders	Tree	llex	×attenuata	'East Palatka'	Low	1	
Saunders	Tree	Photinia	×fraseri	Last i alatka	Low		Remove
Saunders	Tree	Prunus	serrulata		High	1	Newly planted
Saunders	Tree	Quercus	phellos		Moderate	<u>.</u> 1	Trewly planted
Cadriacio	1100	Quorous	prionos		Moderate		
Saunders	Tree	Taxodium	distichum		Moderate	1	
Saunders	Tree	Ternstroemia	gymnanthera	(aka Cleyera)	High	1	In ring
Saunders	Shrub	Abelia	×grandiflora	(ana Gioyora)	Moderate	3	ŭ
Saunders	Shrub	Aucuba	japonica		High	3	
Saunders	Shrub	Camellia	sasangua		High	10	
Saunders	Shrub	Camellia	sasanqua		Low	1	
Saunders	Shrub	Chionanthus	retusus		Moderate	1	
Saunders	Shrub	Hydrangea	quercifolia		Moderate	4	
Saunders	Shrub	llex	cornuta	'Burfordii'	Moderate	4	
Saunders	Shrub	llex		'Burfordii'	Low		Reverting
			cornuta				Ŭ.
Saunders	Shrub	llex	cornuta	'Dwarf Burford'	Low	2	
Saunders	Shrub	llex	cornuta	'Dwarf Burford'	Moderate	Mass	
Saunders	Shrub	llex	verticillata		Moderate	1	
Saundara	Shrub	Loropetalum	chinense		Moderate	4	
Saunders		-				<u>1</u> 1	
Saunders	Shrub	Mahonia	bealei		Moderate	1	
Saunders	Shrub	Osmanthus	heterophyllus		Moderate	2	
Saundoro	Shrub	Philadalphus	coronarius		Moderate	4	
Saunders	Shrub	Philadelphus Pieris	coronarius			1	
Saunders	Shrub Shrub	Rhododendron	japonica		Low		Evergreen azalea
Saunders	Gillub	TATOGOGETUTON			LOW	0	L vergreen azarea
Saunders	Shrub	Sarcococca	hookeriana	var. <i>humili</i> s	Moderate	0	
Bynum	Tree	Acer	rubrum	vai. Hullillio	Low	8 1	
					Moderate	1	
Bynum	Tree	Acer	saccharum	ļ	woderate	1	ļ

Table 2. Polk Place Tree and Shrub Survey by Location

Section	Туре	Genus	Species	Cultivar	Condition	Quantity	Note 1 in a planting box
							surrounded by <i>Euonymus</i>
Bynum	Tree	Cornus	florida		Low	2	alatus 'Compactus'
							In a planting box surrounded
D	T	0	fll -		NA		by Euonymus alatus
Bynum	Tree	Cornus	florida		Moderate	1	'Compactus' In a planting box surrounded
							by Euonymus alatus
Bynum	Tree	Quercus	falcata		Low	1	'Compactus'
							In a planting box surrounded
							by Euonymus alatus
Bynum	Tree	Quercus	falcata	var. pagodifolia	Moderate	1	'Compactus'
Bynum	Shrub	Euonymus	alatus	'Compactus'	Moderate		Surrounding Quercus falcata var. pagodifolia, Cornus florida (L), Cornus florida (M) in planting boxes and alone in a 4th planting box Surrounding Quercus falcata
						several in	in planting boxgood
Bynum	Shrub	Euonymus	alatus	'Compactus'	High		condition but should remove
Hamilton	Tree	llex	×attenuata	'East Palatka'	Moderate	1	
Hamilton	Tree	Magnolia	grandiflora		High	1	
					ē		
Hamilton	Tree	Magnolia	grandiflora		Low	1	
Hamilton	Tree	Malus	spp.		Low	1	
Hamilton	Tree	Nyssa	sylvatica var. biflora		High	1	
Hamilton	Tree	Photinia	×fraseri		Moderate	2	
Hamilton	Tree	Prunus	serrulata	'Kwanzan'	Low Moderate	1	
Hamilton	Tree	Quercus	palustris		Moderate		
Hamilton	Shrub	Abelia		'Edward Goucher'	Moderate	1	
			utilis var.				
Hamilton	Shrub	Betula	jacquemontii		Moderate	1	
Hamilton	Shrub	Elaeagnus	pungens		Moderate	mass	
				IF ( ((0)			
Hamilton	Shrub	llex	×attenuata	'Fosters #2'	Moderate	10	
Hamilton	Shrub	Ilex	×attenuata	'Savannah'	Moderate	1	
Hamilton	Shrub	Ilex	decidua		High	1	Female
Hamilton	Shrub	llex	vomitoria		Low	mass	
Hamilton	Shrub	Ligustrum	sinense		Low	mass	
Murphy	Tree	Cornus	florida		Moderate	1	
Murphy	Tree	Thuja		'Green Giant'	High	1	
Murphy	Shrub	Camellia	sasangua	Green Glant	Moderate	5	
Murphy	Shrub	Chaenomeles	spp.		High	4	
						-	
Murphy	Shrub	Daphne	odora	'Variegata'	Moderate	1	
Murphy	Shrub	Deutzia	gracilis	'Nikko'	High	6	
Murphy	Shrub	Hydrangea	macrophylla		High	6	
Murphy	Shrub	llex	verticillata		Low	1	
, ,							
Murphy	Shrub	Osmanthus	×fortunei		High	3	
Murphy	Shrub	Rhododendron		Southern Indica Azalea	Moderate	9	

Table 2. Polk Place Tree and Shrub Survey by Location

Section	Туре	Genus	Species	Cultivar	Condition	Quantity	Note
Murphy	Shrub	Sarcococca	confusa		High	8	
Manning	Tree	Acer	saccharum		High	1	
Manning	Tree	Lirodendron	tulipifera		Low	3	
Manning	Tree	Lirodendron	tulipifera		Moderate	4	
Manning	Tree	Lirodendron	tulipifera		High	1	
Manning	Tree	Prunus	serrulata	'Kwanzan'	Low	4	1 dead
Manning	Tree	Prunus	serrulata	'Kwanzan'	Moderate	1	
Manning	Tree	Prunus	serrulata	'Kwanzan'	High	1	Newly planted
Manning	Tree	Thuja		'Green Giant'	High	1	
Manning	Shrub	Amelanchier	×grandiflora		Moderate	1	
Manning	Shrub	Cornus	kousa		High	1	
Manning	Shrub	Deutzia	gracilis	'Nikko'	High	24	
Manning	Shrub	llex		'Nellie R. Stevens'	High	11	
Manning	Shrub	llex	cornuta	'Burfordii'	Moderate	2	
Manning	Shrub	Nandina	domestica		Moderate	2 large beds	
Manning	Shrub	Rhododendron		Southern Indica Azalea	Moderate	9	
Manning	Shrub	Viburnum	plicatum	var. tomentosum	Moderate	3	