

Planning

Durham City/County Landscape Manual Revision

Major Revisions

- Text revisions
- UDO amendments & new planting installation certifications
- Plant chart revisions

- Revised planting details & examples
- Future recommendations







Text Revisions

- Updated text to show current best practices
 & trends in the industry
- Removal of the separation of recommended and required techniques
- Added eco-friendly tips to promote ecologically sound installation and maintenance practices







UDO Amendments & New Planting Installation Certifications

- Increase the percentage of native species required to be used in tree replacement areas
- A certification requirement for planting quality that requires a licensed landscaped architect or licensed landscape contractor to certify that the correct planting techniques were used











Revised Plant Tables

Updated invasive species

- Reviewed against local and national plant data
- Expanded prohibited plant list, based on recommendations from Urban Forestry staff, the Durham Environmental Coalition, and NC **State University**









Revised Plant Tables

- Organized 8 current plant tables to 4 & adjusted graphics for better legibility
- Removed the majority of individual cultivars
- Removed ambiguous designations







Current Tree Plant Table Format

Landscape Manual for Durham, North Carolina

Revised April 3, 2013

Table 1A: Allowed Trees, Deciduous Canopy, Native to Durham

Table 1A: Allowed Trees, Deciduous Requirements Recommended Cultural Information																	
Canopy, Native to Du	ırham		Account to college of the Colored of													- Indea cuita	Tar information
		Area²	<u> </u>				cation I	of Use	e Cate	_			Plant	ing Cond			
			Street Trees		Buffers					nce							
Scientific Name	Common Name	Required Minimum Root	Rural / Suburban Tiers	Urban Tier	Compact Neighborhood/ Downtown Tiers	Under Power Lines	Parks	Vehicle Use Areas	Tree Coverage	Constructed	Solid Hedge	Riparian	Sun Exposure³	pH Range ⁴	Wet/Dry and Soil Tolerance ⁵	Mature Height x Spread (in Feet) and Form	Cultural Notes
Acer barbatum	Southern Sugar Maple	3	Y	Y	Y		Y	Y	Υ	Y			FS PS	5.0- 7.0	7 🌢	50 x 50 rounded	Heat-tolerant, native sugar maple, good fall color
Acer rubrum	Red Maple	3	Υ	Y			Υ		Υ	Y		Y	FS SH	5.0- 7.0	6	50 x 50, rounded	Pyramidal crown in youth; thin bark susceptible to heat scorch; planting in poor soils will produce a shallow root system: not for Downtown, due to scale
Acer rubrum Burgundy Belle® ('Magnificent Magenta')	Red Maple (smaller cultivars)	3	Υ	Y			Υ		Υ	Y			FS SH	5.0- 7.0	6	25-35 x 35, round	Compact, round cultivars
Acer rubrum Northwood*, 'October Brilliance', Red Sunset* ('Franksred'), Redpointe*, 'Somerset', 'Sun Valley'	Red Maple (medium cultivars)	3	Υ	Y			Υ		Y	Y			FS SH	5.0- 7.0	6	40-50 x 30-40, oval	Medium-maturing varieties with mature oval form (pyramidal in youth)





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¹ Allowed Location of Use Categories: Y = Allowed;

Y* = Allowed if demonstrated conditions provided;

Blank = Not approved for required landscaping in category listed ² Required Minimum Root Area (Trees): 1 = 150sf; 2 = 250sf; 3 = 350sf

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³ Sun Exposure: FS = Full Sun PS = Part Sun / Shade FS = Full Shade ⁴ pH Range: 4.0 - 6.2 (Acid); 6.2 - 6.8 (Neutral); 6.8 - 9.0 (Basic)

Wet/Dry and Soil Tolerance - see Figure 6, Plant Table Key, on page 37; Options 7, 8, and 9 are designated as a 6 (Waterwise) species

Revised Tree Plant Table Format

1	TABLE 1A: ALLOWED DECIDUOUS TREES													
	ALLOV Native = N Canopy = C U	VED TREES nderstory = U Water			OVED		ION O							
1	Scientific Name	Common Name	Required Minimum Root Area	Rural / Suburban Tier	Orban Tier	Compact Neighborhood/ Downtown Tier	Under Power Lines	Vehicle Use Area	Solid Hedge	Tree Coverage	Constructed B	Riparian Riparian	CULTURAL INFORMATION	
(: Parrotia persica	Persian Parrotia	150 sf			Y	Y	Υ		Y	Y		Small canopy tree with three - season interest H 30' x W 30' Full Sun, Part Sun / Shade pH 5.1 - 6.5 Round	
V		Chinese Pistache	250 sf	Υ	Y	Y	Y	Y		Y			Tough, small canopy tree with good fall color H 35' x W 35' Full Sun, Part Sun / Shade pH 4.5 - 7.5 Round	
1		Sycamore, American- Planetree	350 sf									Y	Massively-large tree of bottom lands and moist, deep soils; Anthracnose severely limits use; see P. xacerifoliafin Table 1B = H 70' - 90' x W 60' - 80' = Full Sun, Part Sun / Shade = pH 5.5 - 7.5 = Large, wide spreading, irregular	









Current Shrub Plant Table Format

Landscape Manual for Durham, North Carolina

Revised April 3, 2013

Table 2B: Allowed Shrub Not Native to NC Piedm			Req	uirem	ents			Recommended Cultural Information							
	Ар	proved	Locat	ion of	Use Ca	ategor	ies¹	Plant	ing Cond	itions					
Scientific Name	Common Name	Urban Conditions	Vehicle Use Areas	Sight-Distance Triangles	Under Tree Coverage	Constructed	Solid Hedge	Riparian	Sun Exposure ³	pH Range⁴	Wet/Dry and Soil Tolerance ⁵	Mature Height x Spread (in Feet) and Form	Cultural Notes		
Calocedrus decurrens (formerly Libocedrus decurrens) 'Compacta'	'Compacta' California Incensecedar	γ*				Υ			FS	6.2- 6.8	7 🌢	6 x 6, globe	Zones 5-8; prefers moist, well-drained, fertile soil, but tolerant of many soil types; intolerant of smog, pollution, and high wind areas; once established, is drought- and heat-tolerant		
Calocedrus decurrens 'Maupin Glow'	'Maupin Glow' California Incensecedar	γ*				Υ			FS	6.2- 6.8	7 🌢	8-15 x 4-5, columnar	Same as above;		
Camellia japonica	Japanese Camellia	Υ			Y	Υ	γ*		PS	5.5- 6.0	4	10-15(25) x 6-10, densely pyramidal, sometimes more open, formal, stiff	Zones 6-9; prefers moist, acid, high organic content, well-drained soils; high Pine shade best; shallow-rooted, so mulch and do not cultivate around base; bloom January-April, depending on cultivar; numerous cultivars with different color blooms, some double; location of use is predicated on the mature or maintained height of the plant or cultivar		
Camellia oleifera	Tea-Oil Camellia	Υ			Y	Y			FS PS	5.5- 6.0	4	12-15 x 8-12, pyramidal- to- rounded; multi-stem	Zones 6-9; culture similar to C. japonica and C. sassaqua; blooms October to January; hardler than other camellias (look for Ackerman Hybrids); less formal than other camellias (location of use is predicated on the mature or maintained height of the plant or cultivar		





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¹ Allowed Location of Use Categories: Y = Allowed;

Y* = Allowed if demonstrated conditions provided;

Blank = Not approved for required landscaping in category listed

Required Minimum Root Area (Trees): 1 = 150sf; 2 = 250sf; 3 = 350sf

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³ Sun Exposure: FS = Full Sun PS = Part Sun / Shade FS = Full Shade

⁴ pH Range: 4.0 - 6.2 (Acid); 6.2 - 6.8 (Neutral); 6.8 - 9.0 (Basic)

⁵ Wet/Dry and Soil Tolerance - see Figure 6, Plant Table Key, on page 37; Options 7, 8, and 9 are designated as a ♠ (Waterwise) species

Revised Shrub Plant Table Format

TABLE 2A: ALLOWED EVERGREEN SHRUBS

ALLOWED SHRUBS Native = N Water-Wise = W				OVED LO		N OF USI	E CATEG	ORIES	
Plant Type	Scientific Name	Common Name	Vehicle Use Area	Site Distance Triangle	Under Tree Coverage	Solid Hedge	Constructed	Riparian	CULTURAL INFORMATION
w	Berberis julianae	Wintergreen Barberry	Veh	Site	Y	Soli	Y	Ripa	A barrier plant with thorns; does not prune well; cut to six inches above ground to rejuvenate as needed H 6'-10' x W 6'-10' Full Sun, Part Sun / Shade ph 6.2-6.8 Rounded, impenetrable mass
w	Berberis x gladwynensis 'William Penn'	William Penn Barberry			Y		Υ		Does best with moist, well-drained soil, but tolerates poor soils; a barrier plant; not widely available # H 3'-4' x W 3'-4' # Full Sun, Part Sun / Shade # pH 5.5-6.8 # Dense, rounded
w	Berberis x mentorensis (B. julianae x B. thunbergii)	Mentor Barberry			Y		Υ		Semi-evergreen; does best with moist, well-drained soil, but tolerates poor soils; a dense barrier plant if not pruned extensively; not widely available H 5'-7' x W 5'-7' Full Sun, Part Sun / Shade pH 5.5-6.8 upright, stiff, rounded, spreading with age

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Revised, Modified, & Added Planting **Details and Example Graphics**

- Replaced poor quality graphics with clean legible graphics
- Modified details to reflect current best practices & trends in the industry
- Added examples based on most common inquiries received during site plan reviews





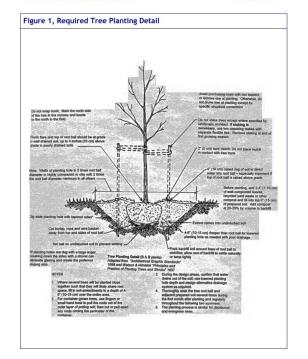


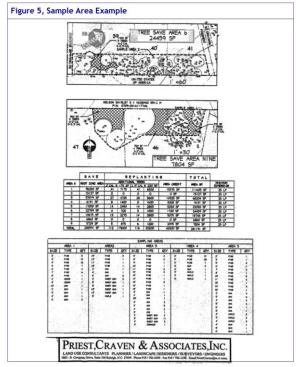


Current Details & Examples

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Revised Details & Examples

Figure 1: Required Tree Planting Detail

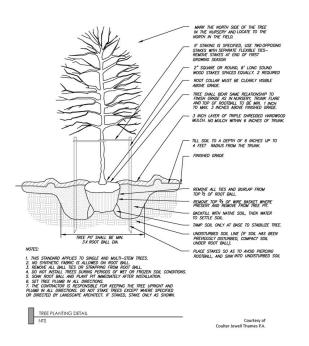
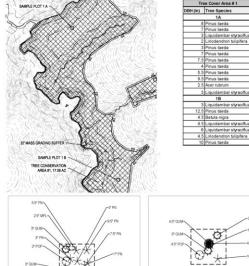
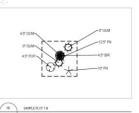


Figure 5: Sample Area Example

SAMPLE PLOT 18

(See paragraph 9.3.3, Sampling, of the Durham Unified Development Ordinance.)





















Future Recommendations

 Updating the Landscape Manual on a fiveyear cycle





