

SHADE TREE COMMISSION
RECOMMENDED TREES
"EXHIBIT A"

ORNAMENTAL TREES			
Botanical Name	Common Name	Height	Spread
<i>Aesculus</i> spp.	Red Buckeye	10'-20'	10'-20'
<i>Amelanchier</i> spp.	Allegheny Serviceberry <i>Note: Used to best advantage in naturalistic plantings</i>	15'-25'	variable
<i>Cercis canadensis</i>	Eastern Redbud	20'-30'	25'-35'
<i>Chionanthus virginicus</i>	Fringe Tree	12'-20'	same
<i>Cladrastis kentukea</i>	Yellowwood <i>Note: Early pruning necessary for good form</i>	30'-50'	40--55'
<i>Cornus florida</i>	Flowering Dogwood	variable w/ location	same or greater
<i>Cornus kousa</i>	Kousa Dogwood	20'-30'	same
<i>Lagerstroemia Hybrids</i>	Crapemyrtle Hybrids <i>Note: Look for hardiness in Zone 6</i>	variable	variable
<i>Magnolia virginiana</i>	Sweetbay or Swamp Magnolia	10'-20'	same
<i>Malus Hybrids</i>	Crabapple Hybrids <i>Note: Look for disease resistance</i>	20'-35'	variable
<i>Prunus</i> 'Hally Jolivette'	Hally Jolivette Cherry <i>Note: Fully double flowers; long bloom time</i>	15'-20'	same
<i>Prunus serrulata</i> 'Kwanzan'	Kwanzan Japanese Flowering Cherry	30'-40'	same
<i>Prunus subhirtella</i> 'Pendula Plena Rosea'	Weeping Higan Cherry	20'-40'	15'-30'
<i>Prunus x yedoensis</i>	Yoshino Cherry	20'-30'	same or greater
<i>Syringa reticulata</i> 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	20'-30'	15'-25'

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"EXHIBIT B"

SHRUBS			
Botanical Name	Common Name	Height	Spread
<i>Aronia arbutifolia</i>	Red Choke Cherry	6'-10'	3'-5'
<i>Corylopsis glabrescens</i>	Fragrant Witchhazel <i>Note: Acid soil; see various cultivars for flower colors</i>	8'-15'	same
<i>Cotinus coggygria cultivars</i>	Purple Smokebush Cultivars	variable (8'-20')	variable
<i>Hamamelis Hybrids</i>	Witchhazel Hybrids <i>Note: See various hybrids for flower colors</i>	6'-10'	variable
<i>Hamamelis vernalis</i>	Vernal Witchhazel	6'-10'	greater
<i>Ilex crenata cultivars</i>	Japanese Holly Cultivars	variable	variable
<i>Ilex glabra</i>	Inkberry Holly	6'-8'	8'-10'
<i>Ilex verticillata</i>	Common Winterberry <i>Note: Need a male plant to pollinate females</i>	6'-10'	same
<i>Rhododendron prunifolium</i>	Plumleaf Azalea <i>Note: blooms in July; morning sun; moist, acid soil</i>	8' (in NJ)	5' (6')
<i>Spiraea japonica and various cultivars</i>	Japanese Spirea	4'-5' (cultivars variable)	same or greater
<i>Spiraea thunbergii</i>	Thunberg Spirea	3'-5'	same or greater
<i>Viburnum dentatum</i>	Arrowwood Viburnum	6'-8' (15')	6'-15'
<i>Viburnum dilatatum</i>	Linden Viburnum <i>Note: Red fruit persists through winter</i>	8'-10'	2/3 to equal
<i>Viburnum plicatum</i> var. <i>tomentosum</i>	Doublefile Viburnum	8'-10'	9'-12'

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"EXHIBIT C"

PLANTINGS IN WOODED SETTINGS			
Botanical Name	Common Name	Height	Spread
<i>Amelanchier</i> spp.	Allegheny Serviceberry <i>Note: partial shade; acid soil</i>	15'-25'	variable
<i>Cercis canadensis</i>	Eastern Redbud <i>Note: light shade; moist soil</i>	20'-30'	25'-35'
<i>Clethra ainifolia</i>	Summersweet Clethra <i>Note: partial shade; acid soil</i>	4'-8' (12')	4'-6' (10')
<i>Cornus florida</i>	Flowering Dogwood <i>Note: partial shade; acid, cool, moist soil</i>	variable (20')	same or greater
<i>Corylopsis pauciflora</i>	Buttercup Witchhazel <i>Note: light shade; needs protection from wind</i>	4'-6'	same or greater
<i>Corylopsis spicata</i>	Spike Witchhazel <i>Note: light shade; needs protection from wind</i>	4'-6'	greater
<i>Halesia diptera</i>	Two-Winged Silverbell <i>Note: understory tree; moist, acid soil</i>	20'-30'	same
<i>Halesia tetraptera</i>	Carolina Silverbell <i>Note: understory tree; moist, acid soil</i>	30'-35'	20'-25'
<i>Ilex glabra</i>	Inkberry Holly <i>Note: partial shade; moist, acid soil</i>	6'-8'	8'-10'
<i>Ilex verticillata</i>	Common Winterberry <i>Note: light shade; need a male plant to pollinate females</i>	6'-10'	same
<i>Kalmia latifolia</i>	Mountain Laurel <i>Note: partial to full shade; acid, cool, moist soil</i>	7'-15'	same
<i>Mahonia aquifolium</i>	Oregon Grapeholly <i>Note: full shade; will sucker to form colonies; needs wind protection; moist, acid soil</i>	3'-6' (9')	3'-5'
<i>Mahonia aquifolium</i> 'Apollo'	Apollo Oregon Grapeholly <i>Note: good ground cover</i>	+/- 2'	same
Botanical Name	Common Name	Height	Spread
<i>Mahonia aquifolium</i> 'King's Ransom'	King's Ransom Oregon Grapeholly <i>Note: good specimen</i>	5'	less than height
<i>Mahonia bealei</i>	Leatherleaf Mahonia <i>Note: part to full shade; needs wind protection; moist, acid soil</i>	6'-10'	same or less
<i>Rhododendron maximum</i>	Rosebay Rhododendron <i>Note: understory shrub; acid, cool, moist soil; needs well drained root run</i>	4'-15'	same or greater
<i>Rhododendron prunifolium</i>	Plumleaf Azalea <i>Note: Blooms in July; morning sun; moist, acid soil</i>	8' (in NJ)	5' (6')

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"EXHIBIT D"

PLANTINGS IN AND AROUND DETENTION BASINS			
Botanical Name	Common Name	Height	Spread
<i>Acer rubrum</i> 'October Glory'	October Glory Red Maple	40'-50'	same
<i>Acer rubrum</i> "Red Sunset"	Red Sunset Red Maple	45'-50'	35'-40'
<i>Amelanchier</i> spp.	Allegheny Serviceberry	15'-25'	variable
<i>Aronia arbutifolia</i>	Red Choke Cherry	6'-10'	3'-5'
<i>Clethra ainifolia</i>	Summersweet Clethra	4'-8' (12')	4'-6' (10')
<i>Hamamelis Hybrids</i>	Witchhazel Hybrids <i>Note: See various hybrids for flower colors</i>	6'-10'	variable
<i>Hamamelis vernalis</i>	Vernal Witchhazel <i>Note: Acid soil</i>	6'-10'	greater
<i>Ilex verticillata</i>	Common Winterberry <i>Note: Need a male plant to pollinate females</i>	6'-10'	same
<i>Liquidambar styraciflua</i> 'Rotundiloba'	Rotundiloba Sweetgum <i>Note: Seedless</i>	60'-75'	same
<i>Salix alba</i> 'Tristis'	Golden Weeping Willow <i>Note: Must be planted near water</i>	50'-70'	same
<i>Viburnum dentatum</i>	Arrowwood Viburnum	6'-8' (15')	6'-15'
<i>Viburnum lentago</i>	Nannyberry Viburnum	15'-18'	10' or greater

SHADE TREE COMMISSION
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"EXHIBIT E"

TREES FOR LARGE OPEN AREAS			
Botanical Name	Common Name	Height	Spread
<i>Acer saccharum</i>	Sugar Maple	60'-75'	2/3 of height Can be variable
<i>Fagus sylvatica</i> 'Pendula'	Weeping European Beech <i>Note: Slow growing 9'-12'/10 years; branching to the ground. There is no finer specimen tree.</i>	50'-60' (100')	35'-45' (70')
<i>Ginkgo biloba</i> (male only)	Ginkgo Tree	50'-80'	variable 30'-40'
<i>Ilex opaca</i>	American Holly <i>Note: Planting site needs protection from wind</i>	18'-40'	10'-30'
<i>Liquidambar styraciflua</i> 'Rotundiloba'	Rotundiloba Sweetgum - seedless	60'-75'	same
<i>Metasequoia glyptostroboides</i>	Dawn Redwood	70'-100' (120')	40'-50'
<i>Platanus x acerifolis</i> 'Bloodgood'	London Plane Tree <i>Note: Resistant to Anthracnose</i>	50'-70' (100')	40'-65' (80')
<i>Quercus alba</i>	White Oak <i>Note: Resistant to Bacterial Leaf Scorch</i>	50'-80'	greater than height
<i>Quercus bicolor</i>	Swamp White Oak <i>Note: Requires acid soil</i>	50'-60' (80')	same or greater
<i>Quercus macrocarpa</i>	Bur Oak (White Oak Family)	70'-80'	same or greater
<i>Quercus prinus</i>	Chestnut Oak	60'-70'	same
<i>Tilia americana</i> 'Redmond'	Redmond American Linden	60'-80'	1/2 - 2/3 of height
<i>Ulmus americana</i> 'Princeton'	Princeton Elm <i>Note: Resistant to Dutch Elm Disease</i>	60'-80'	same
<i>Ulmus americana</i> 'Washington'	Washington Elm <i>Note: Resistant to Dutch Elm Disease</i>	70'-80'	same
<i>Zelkova serrata</i> 'Green Vase'	Green Vase Japanese Zelkova	60'-70'	40'-50'
<i>Zelkova serrata</i> 'Village Green'	Village Green Japanese Zelkova	60'-70'	same

SHADE TREE COMMISSION
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TREES FOR LESS THAN 30" LAWN STRIP			
Botanical Name	Common Name	Height	Spread
<i>Acer buergerianum</i>	Trident Maple	20'-35'	same
<i>Acer campestre</i> 'Queen Elizabeth'	Queen Elizabeth Hedge Maple <i>Note: Good urban tree</i>	25'-35' (45')	30'-35'
<i>Acer tataricum</i>	Tatarian Maple	15'-20' (30')	same
<i>Carpinus betulus</i> 'Fastigiata'	Fastigate European Hornbeam	25'-30'	15'-20'
<i>Carpinus betulus</i> 'Franz Fontaine'	Franz Fontaine European Hornbeam	30'-35'	15'-18'
<i>Koelreuteria paniculata</i> 'Rose Lantern'	Rose Lantern Goldenraintree <i>Note: Flowers in August</i>	25'-35'	same or greater
<i>Prunus serrulata</i> 'Royal Burgundy'	Royal Burgundy Japanese Flowering Cherry	20'-25'	15'-20'
<i>Syringa reticulata japonica</i> 'Ivory Silk'	Ivory Silk Tree Lilac	20'-30'	15'-25'

NOTE: ALL OF THE TREES LISTED ABOVE CAN ALSO BE USED IN THE 2'6" to 4' LAWN STRIP AREA

TREES FOR 2'6" TO 4' LAWN STRIP			
Botanical Name	Common Name	Height	Spread
* <i>Acer truncatum</i> 'Norwegian Sunset'	Norwegian Sunset Shantung Maple	25'-35'	same
<i>Carpinus betulus</i>	European Hornbeam	40'-60'	30'-40'
<i>Corylus colurna</i>	Turkish Filbert or Hazel <i>Note: Highly rated street tree</i>	40'-50'	1/3 - 2/3 of height
<i>Koelreuteria paniculata</i>	Goldenraintree <i>Note: Flowers in July</i>	30'-40'	same or greater
* <i>Ostrya virginiana</i>	American Hophornbeam or Ironwood <i>Note: Used as street tree in Boston</i>	25'-40' Averages 30' in NJ	2/3 - equal
<i>Prunus sargentii</i>	Sargent Cherry <i>Note: Early pruning necessary for good form</i>	30'-40' (50')	same
<i>Quercus acutissima</i>	Sawtooth Oak	50'	40'

*** CAN ALSO BE USED IN LESS THAN 30" LAWN STRIP**

TREES FOR MORE THAN 4' WIDE AREA			
Botanical Name	Common Name	Height	Spread
<i>Acer rubrum</i> 'October Glory'	October Glory Red Maple	40'-50'	same
<i>Acer rubrum</i> 'Red Sunset'	Red Sunset Maple	45'-50'	35'-40'
<i>Cercidiphyllum japonicum</i>	Katsura Tree <i>Note: Early pruning necessary for good form</i>	40'-60'	variable
<i>Quercus phellos</i>	Willow Oak	40'-60'	30'-40'
<i>Styphnolobium japonicum</i> 'Regent' also known as <i>Sophora japonica</i> 'Regent'	Regent Japanese Pagoda Tree (Developed by Princeton Nurseries)	50'-60' (75')	same
<i>Tilia cordata</i> 'Greenspire'	Greenspire Little-leaf Linden	50'	same

The Public Service Electric and Gas (PSE&G) website and the National Arbor Day Foundation do not recommend tree height in excess of 25' for planting beneath powerlines. However, the above listings of trees that exceed that height would be an asset to the community when planted as shade trees on the opposite side of the street where powerlines are not an issue.