



STREET TREE STANDARDS

Community & Economic Development

City of Arlington • 18204 59th Avenue NE • Arlington, WA 98223 • Phone (360) 403 3551

The following City of Arlington standards shall be used to regulate trees in the public right-of-ways, parks and on other public lands.

A. Small Narrow Street Trees	G. Open Space Trees
B. Medium Narrow Street Trees	H. Native Trees
C. Medium Street Trees	I. Drought Resistant Trees
D. Large Street Trees	J. Median Plantings
E. Boulevard Trees	K. Parking Lot Plantings
F. Prohibited Street Trees	

Tree Standards

Street trees shall be planted according to the following minimum standards as illustrated in 'Tree Planting Detail'.

1. Spacing Between Trees:
 - a. Small (columnar) 30 feet
 - b. Small (spreading) 30 feet
 - c. Medium (columnar) 30 feet
 - d. Medium (spreading) 40 feet
 - e. Large 45 feet
 - f. Boulevard 50 feet
 - g. Specialty determined by director
2. Distance To Curb 3 feet at planting time
3. Distance To Parking Lot Pavement Edges 4 feet at planting time
4. Distance To Power Pole 10 feet
5. Distance To Fire Hydrant 5 feet
6. Distance To Water Meter Box 5 feet
7. Distance To Residential Driveway 10 feet
8. Distance To Street Light 15 feet
9. Distance To Commercial Or Industrial Driveway 15 feet
10. Distance To Alley Right-Of-Way 10 feet
11. Distance To Street Intersection 30 feet
12. Distance To Stop Sign 15 feet
13. Clearance Over Public Sidewalk 8 feet
14. Clearance Over Public Street 14 feet

Acceptable Street Trees

Only those trees which are listed as appropriate for planting as street trees below shall be planted. Where overhead power lines and other cables are present, the size of tree may be otherwise restricted. All street trees shall be single stemmed.

A.) Small Street Trees

Typically have a crown not exceeding 30 feet tall and a spreading habit. The following trees are considered small street trees and may be allowed with an approved root guard in a planting strip at least 4 feet wide. These are the only trees allowed where there are overhead utility lines.

1. Autumn Brilliance Serviceberry	amelanchier grandiflora 'Autumn Brilliance'
2. Eastern Redbud	cercis canadensis
3. Globe Norway Maple	acer platanoides 'Globosum'
4. Japanese Maple	acer palmatum
5. Japanese Snowbell Tree	styrax japonica
6. Kousa Dogwood	cornus kousa
7. Japanese Hornbeam	carpinus japonica
8. Persian Parrotia	parrotia persica
9. Globe Ash	fraxinus excelsior 'Globosa'
10. Krauter Vesuvius Flowering Plum	prunus cerasifera 'Krauter Vesuvius'
11. Thundercloud Flowering Plum	prunus cerisifera 'Thundercloud'
12. Newport Flowering Plum	prunus cerisifera 'Newport'
13. Okame Flowering Plum	prunus 'Okame'
14. Globe Locust	robinia pseudoacacis 'Inermis'
15. Golden Desert Ash	fraxinus excelsior 'Aureafolia'
16. American Hornbeam	carpinus caroliniana
17. Canada Red Chokecherry	prunus virginiana 'Canada Red'
18. Kwanzan Oriental Cherry	prunus serrulata 'Sekiyama'
19. Bessoniana Black Locust	robinia pseudoacacia 'Bessoniana'
20. Paperbark Maple	acer griseum
21. Cherry Dogwood	cornus mas
22. Pink Pagoda Hupeh Mountain Ash	sorbus hupehensis 'Pink Pagoda'

B.) Small Narrow Street Trees

Typically have a crown not exceeding 30 feet tall and have a narrow growing habit. The following trees are considered small street trees and may be allowed with an approved root guard in a planting strip at least 4 feet wide.

1. Crimson Sentry Maple	acer platanoides 'Crimson Sentry'
2. Red Cascade Mountain Ash	sorbus tianshanica

C.) Medium Narrow Street Trees

Typically have a crown not exceeding 45 feet tall and have a narrow growing habit. The following may be allowed without an approved root guard in a planting strip at least 7 feet wide and with an approved root guard in a planting strip less than 7 feet wide.

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|----------------------------------|---------------------------------|
| 1. Amanogawa Oriental Cherry | prunus serrulata 'Amanogawa' |
| 2. Bowhall Red Maple | acer rubrum 'Bowhall' |
| 3. Capital Callery Pear | pyrus calleryana 'Capital' |
| 4. Autumn Blaze Callery Pear | pyrus calleryana 'Autumn Blaze' |
| 5. Columnar Norway Maple | acer platanoides 'Columnare' |
| 6. Columnar Sargent Cherry | prunus sargentii columnaris |
| 7. Pyramidal Dawychii Beech | fagus sylvatica 'Dawychii' |
| 8. Pyramidal Hornbeam | carpinus betulus pyramidalis |
| 9. Skyrocket English Oak | quercus robur 'Skyrocket' |
| 10. Fastigiate European Hornbeam | carpinus betulus 'Fastigiata' |
| 11. Karpick Maple | acer rubrum 'Karpick' |

D.) Medium Street Trees

Typically have a crown not exceeding 45 feet in height and a spreading habit. The following trees may be allowed without an approved root guard in a planting strip at least 7 feet wide and with an approved root guard in a planting strip less than 7 feet wide.

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|----------------------------------|---------------------------------------|
| 1. Aristocrat Callery Pear | pyrus calleryana 'Aristocrat' |
| 2. Autumn Blaze Callery Pear | pyrus calleryana 'Autumn Blaze' |
| 3. Chanticleer Callery Pear | pyrus calleryana 'Chanticleer' |
| 4. Cleveland Select Callery Pear | pyrus calleryana 'Cleveland Select' |
| 5. Hedge Maple | acer compestre |
| 6. Little Leaf Linden | tilia cordata 'Green Spire' |
| 7. Worplesdon Sweetgum | liquidambar styraciflua 'Worplesdon' |
| 8. American Hophornbeam | ostrea virginiana |
| 9. Autumn Flame Red Maple | acer rubrum 'Autumn Flame' |
| 10. Crimson King Norway Maple | acer platanoides 'Crimson King' |
| 11. Ginkgo Tree | ginkgo biloba (any variety) |
| 12. European Hornbeam | carpinus betulus |
| 13. Green Vase Japanese | Zelkova, zelkova serrata 'Green Vase' |
| 14. Katsura Tree | cercidiphyllum japonicum |
| 15. Sawtooth Oak | quercus acutissima |
| 16. Ruby Red Horsechestnut | aesculus x carnea 'Briotii' |
| 17. European Bird Cherry | prunus padus |
| 18. Whitebeam, sorbus | aria 'Magnifica' and 'Majestica' |
| 19. Jacquemont Birch | betula jacquemontii |
| 20. Raywood Ash | fraxinus oxycarpa 'Raywood' |
| 21. Sour Gum | nyssa sylvatica |
| 22. Coliseum Maple | acer cappadocicum 'Rubrum' |

23. Chinese Tulip	<i>liriodendron chinense</i>
24. Yulan Magnolia	<i>magnolia denudata</i>
25. American Yellowwood	<i>cladrastis lutea</i>
26. Kobus Magnolia	<i>magnolia kobus</i>
27. Willow Oak	<i>quercus phellos</i>
28. Flowering Cherry	<i>prunus serrulata</i>
29. Flowering Ash	<i>fraxinus ornus</i>

E.) Large Street Trees

Typically have a crown exceeding 50 feet and a spreading habit. The following trees may be allowed without an approved root guard in a planting strip at least 8 feet wide and with an approved root guard in a planting strip at least 7 feet wide.

1. Pin Oak	<i>quercus palustris</i>
2. Red Oak	<i>quercus rubra</i>
3. Birchbark Cherry	<i>prunus serrula</i>
4. European Beech	<i>fagus sylvatica</i>
5. Red Maple	<i>acer rubrum</i> ('October Glory', 'Red Sunset')
6. Autumn Purple Ash	<i>fraxinus Americana</i>
7. Flowering Cherry	<i>prunus yedonensis</i> 'Akebono'
8. River Birch	<i>betula nigra</i>
9. Green Ash	<i>fraxinus pennsylvanica lanceolata</i>

F.) Boulevard Trees

Typically have a crown exceeding 60 feet and a spreading habit. The following trees may be allowed in a planting strip at least 10 feet wide regardless of the use of a root guard.

1. Tulip tree	<i>liriodendron tulipifera</i>
2. Bur Oak	<i>quercus macrocarpa</i>
3. Dawn Redwood	<i>metasequoia glyptostroboides</i>
4. English Oak	<i>quercus robur</i>
5. Flowering Cherry	<i>prunus yedoensis</i> 'Yoshino'

G.) Prohibited Street Trees

The use of the following trees within the street right-of way is prohibited:

1. Bigleaf Maple	<i>acer macrophyllum</i>
2. Box Elder	<i>acer negundo</i>
3. Silver Maple	<i>acer saccharinum</i>
4. Weeping Willow	<i>salix</i>
5. Fir	<i>pseudotsuga</i>
6. Cedar	<i>cedrus</i> or <i>thuja</i> (except as allowed)
7. Hemlock	<i>tsuga</i>
8. Spruce	<i>picea</i>

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|---|---|
| 9. Pine | pinus |
| 10. Poplar | populus deltoids, populus trichocarpa, populus nigra italicas |
| 11. Any nut or fruit bearing tree, except ornamentals | |
| 12. London Plane Sycamore | platanus |

H.) **Open Space Trees**

Used in areas that are not in planting strips, not under power lines, and where street trees are not required. However, any of the street trees are acceptable as open space trees. The following trees are acceptable open space trees.

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| 1. Bigleaf Maple | acer macrophyllum |
| 2. Sugar Maple | acer saccharum |
| 3. Weeping Willow | salix |
| 4. Fir | pseudotsuga (varieties) |
| 5. Cedar | cedrus of thuja (varieties) |
| 6. Spruce | picea (varieties) |
| 7. Pine | pinus (varieties) |
| 8. Flowering Crabapple (varieties) | malus |
| 9. Hackberry | celtis occidentalis |
| 10. European Mt. Ash | sorbus aucuparia |

I.) **Native Trees**

Used in open areas and naturalized areas. The following is a list of trees native to western Washington. These trees are not acceptable as street trees.

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|-------------------------|-----------------------|
| 1. Grand Fir | abies grandis |
| 2. Vine Maple | acer circinatum |
| 3. Bigleaf Maple | acer macrophyllum |
| 4. Red Alder | alnus rubra |
| 5. Western Serviceberry | amelanchier alnifolia |
| 6. Pacific Madrone | arbutus menziesii |
| 7. Pacific Dogwood | cornus nuttallii |
| 8. Black Hawthorn | crataegus suksdorfii |
| 9. Oregon Ash | fraxinus latifolia |
| 10. Pacific Crabapple | malus fusca |
| 11. Sitka Spruce | picea sitchensis |
| 12. Shore Pine | pinus contorta |
| 13. Western White Pine | pinus monticola |
| 14. Black Cottonwood | populus balsamifera |
| 15. Bitter Cherry | prunus emarginata |
| 16. Douglas Fir | pseudotsuga menziesii |
| 17. Oregon White Oak | quercus garryana |
| 18. Pacific Willow | salix lucida |
| 19. Scouler Willow | salix scouleriana |

20. Sitka Willow	salix sitchensis
21. Western Yew	taxus brevifolia
22. Western Red Cedar	thuja plicata
23. Western Hemlock	tsuga heterophylla

J.) Drought Resistant Trees

These trees have a moderate to very good tolerance to drought conditions. All young, newly planted trees require irrigation for a minimum of two years. These trees are known to be drought resistant at maturity.

1. Green Ash	large street tree
2. Raywood Ash	medium street tree
3. European Mt. Ash	open space tree
4. River Birch	large street tree
5. Columnar Sargent Cherry	medium narrow street tree
6. Yoshino Cherry	boulevard tree
7. Canada Red Chokecherry	small street tree
8. Flowering Crabapple	open space tree
9. Green Vase Zelkova	medium street tree
10. Douglas Fir	native tree
11. Ginko Tree	medium street tree
12. Hackberry	open space tree
13. European Hornbeam	medium street tree
14. American Yellow Wood	medium street tree
15. Little Leaf Linden	medium street tree
16. Black Bessoniana Locust	small street tree
17. Pacific Madrone	native tree
18. Autumn Flame Red Maple	open space tree
19. Globe Norway Maple	small street tree
20. Hedge Maple	medium street tree
21. Bur Oak	boulevard tree
22. English Oak	boulevard tree
23. Red Oak	large street tree
24. Sawtooth Oak	medium street tree
25. Willow Oak	medium street tree
26. Callery Pear cultivars	medium street tree
27. Eastern Redbud	small street tree
28. Worplesdon Sweetgum	medium street tree

K.) Median Plantings

Ground cover or low shrubs with a maturity of not more than 18" in height, 20 feet from each end. Only trees from the small and medium street tree list may be used with root barriers in medians. The remaining areas shall be shrubs of no more than 36 inches (3 feet) high at maturity and shall be planted as identified in the Public Works Construction Standards and specifications.

L.) Parking Lot Plantings

These include trees and shrubs with a minimum distance of 48 inches (4 feet) from parking area pavement edge to allow for vehicle overhang except where wheel stops are provided, in which case the minimum distance from the pavement edge is 24" (2 feet). Parking lot shade trees, shrub and ground covers are to be chosen from the street tree and shrub list and planted according to the Design and Construction Standards and Specifications.

STAKE TREE WITH (2) TREATED 2"Ø LODGEPOLE PINE DOWELED TREE STAKES (8'-0" LENGTH) LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH

"CHAINLOCK" OR CITY APPROVED EQUAL TREE TIE MATERIAL (1" WIDTH) NAIL OR STAPLE TREE TIE MATERIAL TO STAKE TO HOLD VERTICALLY. LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH

2"-3" MULCH DEPTH (TAPERED AT TRUNK)

MULCH TREE PIT MIN 5'-0" LENGTH X FULL PLANTING STRIP WIDTH BETWEEN CURB AND SIDEWALK (FOR PLANTING STRIPS LESS THAN 6'-0" WIDE.) PROVIDE 5'-0"Ø MULCH RING FOR PLANTING STRIPS WIDER THAN 6'-0"

SIDEWALK

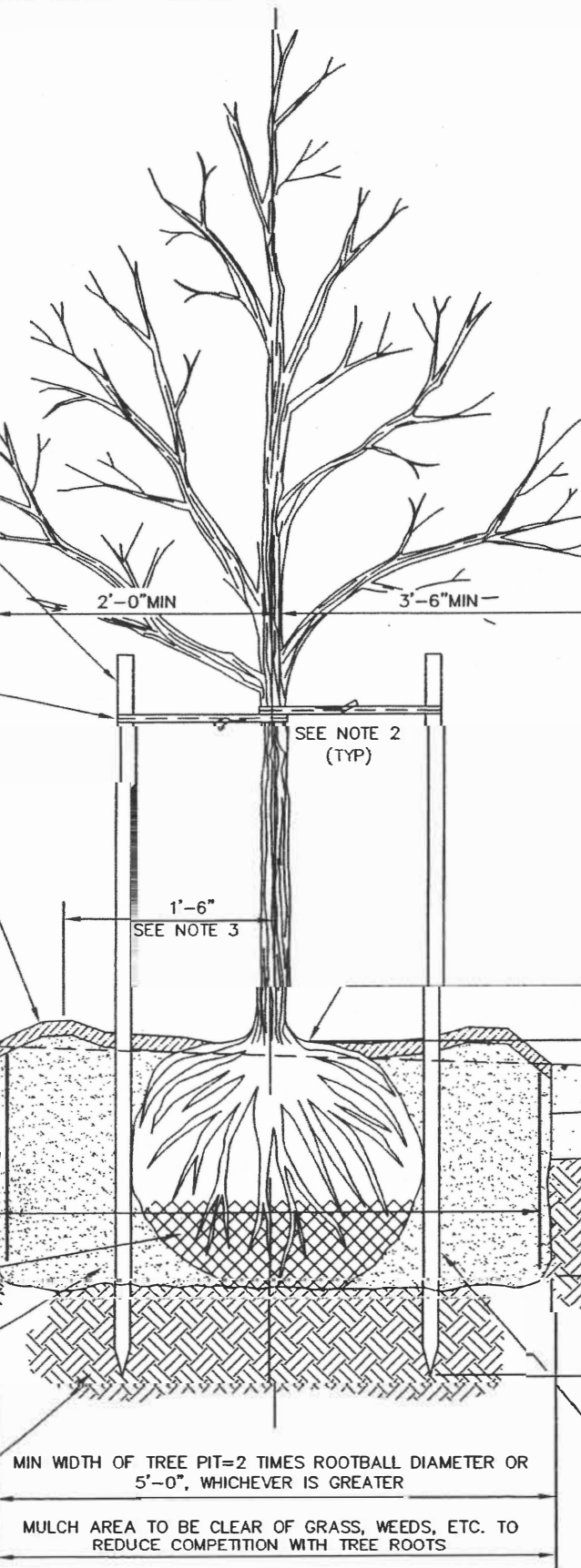
ROUGHEN SIDES OF PLANTING HOLE MAXIMIZE EXCAVATED AREA WITHOUT UNDERMINING ADJACENT PAVING / CURB

18" MIN DEEP ROOT BARRIER COMPLETELY SURROUND THE ROOT BARRIER - MIN 6" FROM SIDEWALK

REMOVE ALL WIRE & STRING, AND REMOVE ALL BURLAP FROM TOP 2/3 OF ROOTBALL

NATIVE BACKFILL SOIL AMENDMENT WITH 25% (Ø1/3 CU YD) DECOMPOSED ORGANIC MULCH AMENDMENT FOR ENTIRE TREE PIT AREA X ROOTBALL DEPTH

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO THAT ROOTBALL WILL NOT SINK)



NOTES:

1. INSTALLATION INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION
2. SHAPE SOIL SURFACE TO PROVIDE 3' DIAMETER WATERING RING
3. TREE CLEARANCES SHALL BE PER STD PLAN NO 030
4. SEE STD PLAN NO 424 FOR TREE PIT DETAIL.

-SET TOP OF ROOT CROWN 2" ABOVE ADJACENT CURB & SIDEWALK GRADE

TREE PIT DEPTH= ROOTBALL DEPTH (MEASURE BEFORE DIGGING TO AVOID OVEREXCAVATION)

DRIVE STAKES 6" TO 1'-0" INTO UNDISTURBED SOIL BELOW ROOTBALL

DRIVE STAKE AT ROOTBALL EDGE (TYP)

MIN WIDTH OF TREE PIT=2 TIMES ROOTBALL DIAMETER OR 5'-0", WHICHEVER IS GREATER

MULCH AREA TO BE CLEAR OF GRASS, WEEDS, ETC. TO REDUCE COMPETITION WITH TREE ROOTS



CITY OF ARLINGTON ENGINEERING DIVISION

DECIDUOUS TREE PLANTING DETAIL

DESIGNED BY R. MCFARLANE

CHECKED BY M. SELIN

SCALE: NTS

DATE: VARIES

DATE: M. SELIN

CAD FILE NAME: 02950_51

REVISION

DATE

1

10/18/05

STANDARD PLAN NUMBER

02950_51