

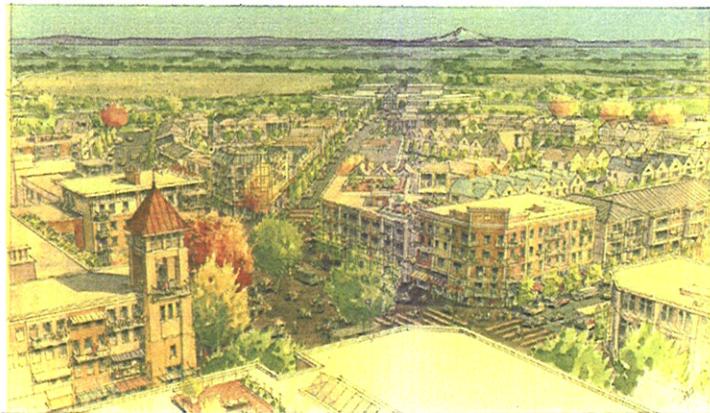
# VILLEBOIS

## SPECIFIC AREA PLAN - NORTH

### Vol. IV: COMMUNITY ELEMENTS BOOK

Walker Macy  
Landscape Architects & Planners  
Fletcher Farr Ayotte  
Architects  
Iverson Associates  
Architecture  
Otak, Inc.  
Civil Engineers and Planners  
William L. Owen & Associates  
Tree and Landscape Consulting

June 4, 2007



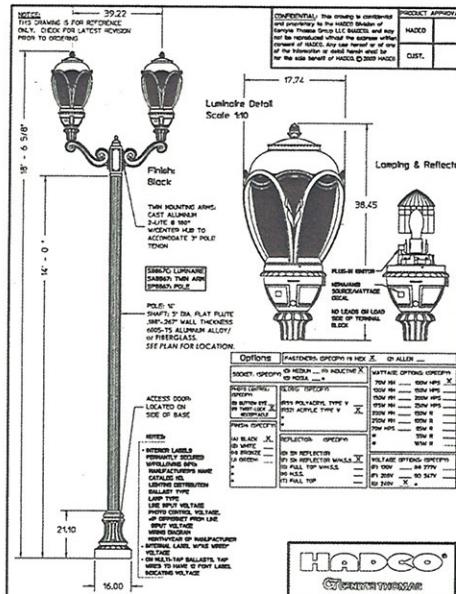
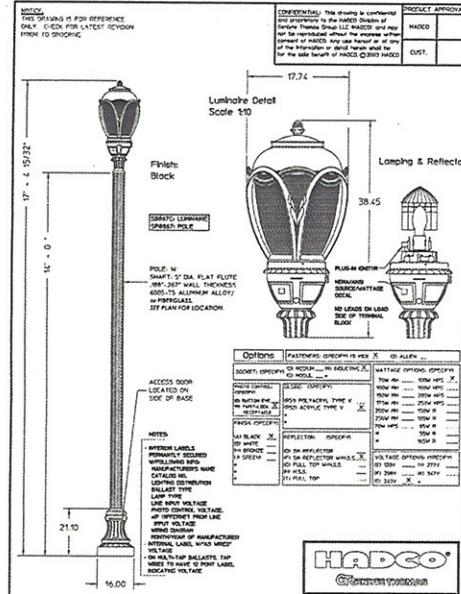
This Community Elements Book is a key component in the development of Villebois. This plan identifies plants, street trees, tree protection, lighting, curb extensions, play structures and site furnishings to be used throughout the community. These are important contributing elements that will establish a coherent identity for the community while meeting Villebois' goals for connectivity, diversity and sustainability.

## Contents

INTRODUCTION & TABLE OF CONTENTS .....	2
LIGHTING MASTER PLAN SPECIFICATIONS .....	3
LIGHTING MASTER PLAN DIAGRAM .....	4
CURB EXTENSION CONCEPT PLAN DIAGRAM .....	5
CURB EXTENSION DIAGRAMS .....	6
STREET TREE MASTER PLAN DIAGRAM .....	7
STREET TREE MASTER PLAN LIST .....	8
MAIL BOX LOCATION MAP DIAGRAM .....	11
SITE FURNISHINGS - MAIL BOXES .....	12
SITE FURNISHINGS - BENCHES .....	13
SITE FURNISHINGS - MISC .....	14
PLAY STRUCTURES .....	17
TREE PROTECTION .....	18
PLANT LIST .....	19

Villebois Community Elements Book

## LIGHTING MASTER PLAN SPECIFICATIONS



*Substitutions to the above light fixtures must be an approved equal as determined by the Master Planner and pre-approved by PGE.*



*Examples of selected light fixtures from recently-built projects.*



## LIGHTING MASTER PLAN CONCEPT

The Lighting Concept for Villebois is an important element of the community's plan. Lighting is often overlooked in the myriad details of construction and design, but when considered carefully, good lighting can contribute to a coherent identity for a community while meeting traditional goals of safety and wayfinding.

**Connectivity:** The Lighting Concept is intended to provide clear connections throughout Villegois. These connections will occur on primary streets, intersections, and the greenway. The light fixtures, including Luminare, Pole, and Base will be the same throughout the community to provide a sense of unity and connectivity.

**Diversity:** Light levels will vary based on the location. Variations in number of heads, spacing and light levels will establish a hierarchy for the streets and neighborhoods.

The drawings and photos provided illustrate the specific light fixtures that have been selected for Villebois streets, trails and parks. The plan illustrated on the following page describes the concept for the placement and spacing of the selected fixtures, and the light level, or "Candle Power" that is recommended for different streets at Villebois. The general concept is for light levels to remain low around the community's edges, especially adjacent to protected greenspaces, and increase in intensity closer to the Village Center.

**Sustainability:** In order to respect the community's sense of place and proximity to nature, the lighting at Villebois is also restricted to those fixtures that minimize light pollution, and allow night-sky viewing.

## LIGHT FIXTURE

### Luminare: Hadco S8867C

**Pole:** 14 Foot Decorative Cast Aluminum - Anchor Base  
*Hadco: P-2065-14-A or Hapco: 77920*

**16 Foot Decorative Cast Aluminum  
Hadco: P-2165-16-A or Hapco: 77920X16**

**Footing:** AB Chance: C11242NG4TK w/ round mounting plate  
Concrete footing PGE specifications - In Swales

Finish: Black



NOTE: Lighting Concept Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.



### LEGEND

#### HADCO 58867C LIGHTS

- Single Hoc Light Fixture  
120' O.C.  
0.6 CP @ 150 watts
- Single Hoc Light Fixture  
155' O.C.  
0.4 CP @ 150 watts
- Cobro Hoc Light Fixture  
140' O.C.  
0.9 CP @ 200 watts
- Single Hoc Light Fixture  
120' O.C.  
0.6 CP @ 200 watts
- Single Hoc Light Fixture  
75' O.C.  
0.9 CP @ 150 watts
- Double Hoc Light Fixture  
120' O.C.  
0.6 CP @ 200 watts
- Single Hoc Light Fixture  
65' O.C.  
0.9 CP @ 150 watts
- Single Hoc Light Fixture  
50' O.C.  
1.2 CP @ 150 watts  
Double Hoc Light Fixture possible in Central Plaza area, per design
- Single Hoc Light Fixture  
200 watts

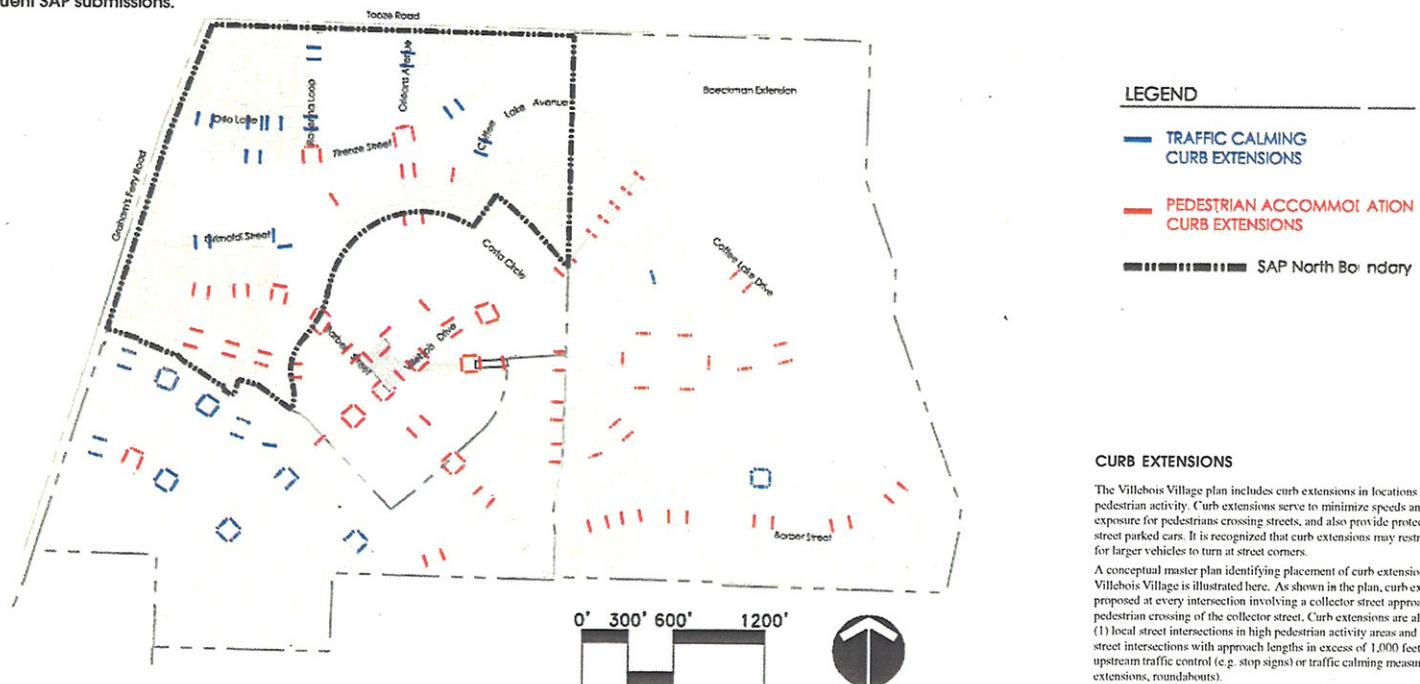
— SAP North Boundary

#### Note:

1. Light fixtures are triangulated at described spacing.
2. CP = Concise Power; O.C. = On Center

NOTE: Curb Extension Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.

## CURB EXTENSION CONCEPT PLAN

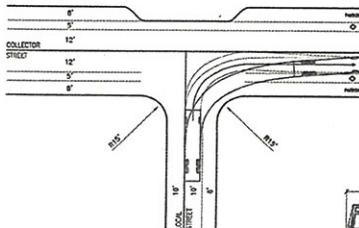


## CURB EXTENSIONS

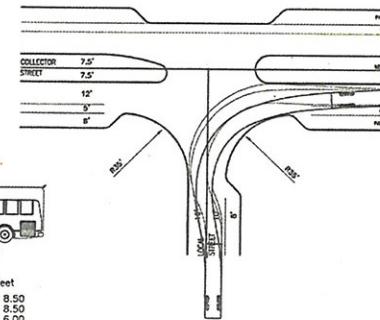
The Villebois Village plan includes curb extensions in locations of high pedestrian activity. Curb extensions serve to minimize speeds and the length of exposure for pedestrians crossing streets, and also provide protection for on-street parked cars. It is recognized that curb extensions may restrict the ability for larger vehicles to turn at street corners.

The following basic principles shall be used for the placement and design of curb extensions:

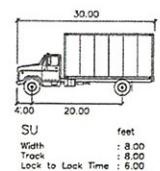
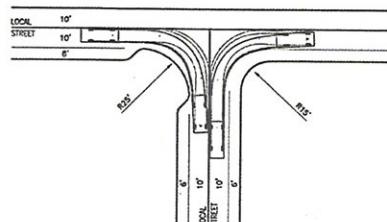
- A minimum of 20-foot face-of-curb- to face-of-curb street width shall be provided at all residential street intersections, even where curb extensions are located. In the Village Center (inside the Village Loop), the minimum curb-to-curb street width should be 22 feet, in order to accommodate delivery and garbage truck movements.
- Fire trucks, buses, and single-unit trucks (i.e., garbage trucks) shall be able to negotiate from collector/arterial streets without crossing the collector/arterial street centerline. Fire trucks shall be able to negotiate through residential streets, although it is acceptable for them to cross the street centerline on residential streets.
- Passenger car turning movements shall be able to stay within the street centerline on all streets.
- Bike lanes shall not be forced into vehicle travel lanes.
- Applicable curb return radii for combinations of collector street/local street intersections with various cross-sections are illustrated on this page.



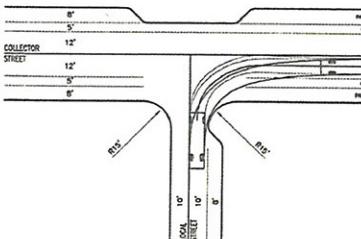
**BUS/FIRE TRUCK TURNING RADII DETAILS**



**CAR TURNING RADII DETAIL**



**TRUCK TURNING RADII DETAILS**



**NOTE:** Street Tree Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.

#### STREET TREE TRANSITIONS

In order to establish continuity throughout Villebois, one species of tree has been chosen as primary for each type of street and should be used the length of the street. Due to availability concerns, other trees have been chosen as substitutes, but only if the primary tree is unavailable in the numbers required along the streets. Primary trees have not been chosen for each of the neighborhood street trees. Trees should be chosen from the list provided for the length of each street (see following pages). Species shall match on opposite sides of the street and change only at intersections. A change in species due to lack of availability is permitted only at the following points:

##### Arterial Streets:

- Intersection of Tooze Road and Grahams Ferry Road
- Intersection of Boeckman Extension and Villebois Drive

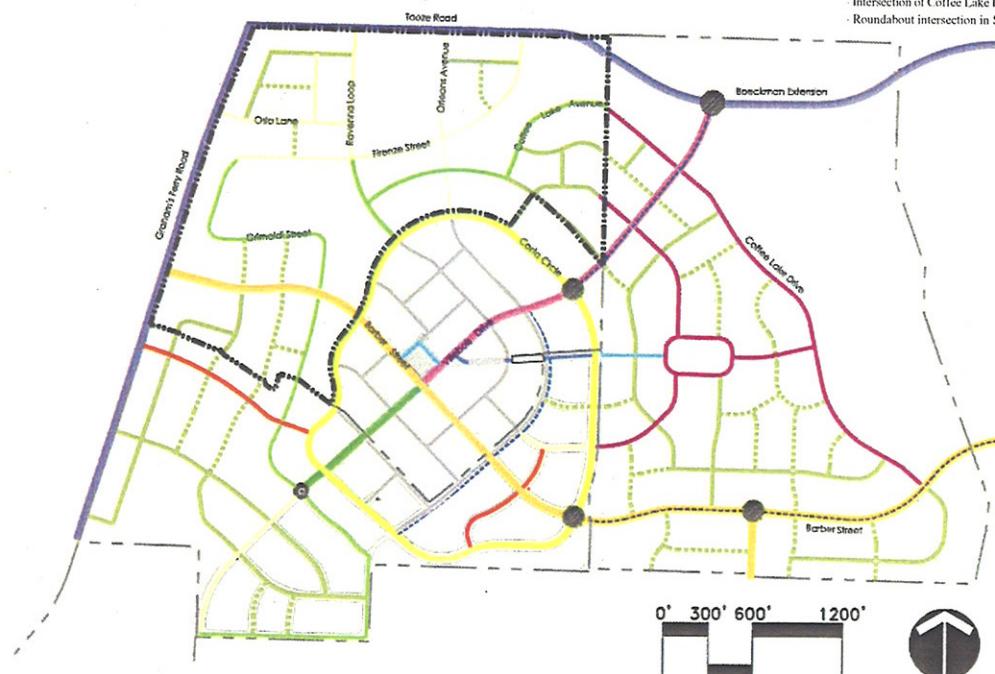
##### Collector Streets:

- Intersection of Barber Street and Loop Road

##### Greenway Streets

- Intersection of Coffee Lake Drive and Villebois Drive
- Roundabout intersection in SAP South

#### LEGEND



- A. Grahams Ferry, Tooze, Boeckman  
40' O.C. Spacing inside, 2 1/2" Caliper
- B. Barber Street, Villebois Drive  
25' O.C. Spacing inside, 2 1/2" Caliper  
15' O.C. Outside Castle Circle, 2 1/2" Caliper
- C. Loop Road  
75' O.C. Spacing, 2" Caliper
- D. Greenway Streets  
30' O.C. Spacing, 2" Caliper
- E. Streets with Existing Street Trees  
Spacing varies, 2" Caliper
- F. Village Center Streets  
25' O.C. Spacing, 2" Caliper
- G. Private Woonerf Street  
Spacing varies, 2 1/2" Caliper
- H. Mt. Hood View  
25' O.C. Spacing, 2" Caliper
- I. Significant Residential Streets  
30' O.C. Spacing, 2" Caliper
- J. Primary Residential Streets  
30' O.C. Spacing, 2" Caliper
- K. Secondary Residential Streets  
30' O.C. Spacing, 2" Caliper
- L. Accent Trees at Roundabouts  
Spacing varies, 2" Caliper  
Dependant on Vision Clearances
- M. Swales
- N. Pedestrian Linkage  
30' O.C. Spacing, 2" Caliper
- O. Greenway Crossing - No Street Trees  
Except Villebois Drive
- SAP North Boundary



Villebois

## STREET TREE CONCEPT

The Street Tree Concept for Villebois addresses the Master Plan's core principles of connectivity, diversity and sustainability. Street tree patterns are key to a communities visual quality and livability. The following is a summary of how the selection of street trees relate to Villebois' core principles:

**Connectivity:** A carefully-selected palette of street trees can serve as an intrinsic form of wayfinding. The choice of trees at Villebois has been tailored to match the significance and role of the street. A hierarchy of street trees has been established in response to the hierarchy of streets. For example, broader arterials or collectors feature larger, taller trees with broad foliage in summer. Neighborhood street trees contribute to a more intimate scale, and perhaps might grow over the street to form a tunnel effect as the canopies meet from either side of the street. Streets along greenways feature trees that match the character of greenway plantings. On certain streets, views of Mt. Hood are emphasized through the use of trees that are tall and columnar.

Another important element in the selection of street trees is the recognition of the need to provide a continuity of vegetation types, as a wayfinding element. For example, in 20 years, someone could be driving on the Villebois Village Center Loop Road, which features colorful Tulip Trees and arriving at a roundabout, they will be able to discern that to continue along the Loop Road, they can simply follow the line of Tulip Trees that curves ahead beyond the roundabout. Similarly, pedestrians at Villebois could recognize a woonerf by noticing the distinct Honey Locust tree that may only be planted along such streets.

**Diversity:** The wide variety of trees planted along streets will serve to enhance the diversity of housing choices and open spaces. In the future, residents of different Villebois neighborhoods will be able to distinguish their particular "place" by the type of street tree growing there. Implicit in this goal of diversity is the recognition that there should be no areas in Villebois that feature monotonous stretches of a single type of tree. Diversity of bird and small mammal habitat is another important benefit from the planting of a variety of tree species, which also contributes to the level of sustainability of Villebois.

**Sustainability:** Villebois will demonstrate a certain measurable level of environmental protection through the provision of numerous street trees, which can cool microclimates by shading asphalt and filtering breezes. Street trees have also been proven to clean certain amounts of auto emissions and they serve to 'capture' rainwater and release it slowly. Street trees, when combined with carefully designed open spaces and protected ecosystems nearby, can also provide important migratory and resident bird habitat.

**Street Tree Transitions:** Establishing continuity is also an important aspect of street tree selection. Continuity helps to link neighborhoods and streets and establish a sense of order and importance for certain streets. In order to establish continuity throughout Villebois, one species of tree has been chosen as primary for each type of street and should be used the length of the street, as indicated in the Street Tree Diagram. Due to availability concerns, other trees have been chosen as substitutes, but only if the primary tree is unavailable in the numbers required along the streets. A change in species may be used due to lack of availability but only at the following points:

### Arterial Streets:

- Intersection of Tooze Road and Grahams Ferry Road
- Intersection of Boeckman Extension and Villebois Drive

### Collector Streets:

- Intersections of Barber Street and Loop Road

### Greenway Streets:

- Intersection of Coffee Lake Drive and Villebois Drive
- Roundabout intersection in SAP South

Primary trees have not been chosen for each of the neighborhood street trees. Trees should be chosen from the list provided for the length of each street. Species shall match on opposite sides of the street and change only at intersections.

## STREET TREE LIST & PHOTOGRAPHS

\* Asterisk denotes that this tree is the preferred species, to be planted in continuous stretches of approx. 600' length. All other species listed may be considered as substitutes subject to approval by the master planner.

NOTE: Color bars refer to lines used in preceding street tree diagram.



Quercus rubra - Red Oak

### ARTERIAL / COLLECTOR STREET TREES: Grahams Ferry Road, Tooze Road, Boeckman Extension

- \**Quercus rubra* - Red Oak
- Quercus coccinea* - Scarlet Oak
- Tilia tomentosa* - Silver Linden
- Tilia x euchlora* - Crimean Linden
- Fagus sylvatica* - European Beech
- Quercus macrocarpa* - Bur Oak



Ulmus hybrida - Accolade Elm

### COLLECTOR STREET TREES: Barber Road, Villebois Drive

- \**Ulmus japonica x wilsoniana 'Morton'* - Acolade Elm
- Ulmus 'Frontier'* - Frontier Elm
- Zelkova serrata 'Green Vase'* - Green Vase Zelkova
- Zelkova serrata 'Village Green'* - Village Green Zelkova



Liriodendron tulipifera - Tulip Tree

### LOOP ROAD STREET TREES

- \**Liriodendron tulipifera* - Tulip Tree
- Platanus acerifolia 'Bloodgood'* - Bloodgood London Planetree
- Ginkgo biloba 'Autumn Gold'* - Autumn Gold Ginkgo



Quercus alba - White Oak

### GREENWAY STREETS TREES: D Street

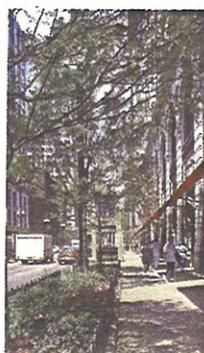
- Quercus alba* - White Oak
- Quercus rubra* - Red Oak
- Aesculus x carnea 'Briotti'* - Red Horsechestnut
- Quercus robur* - English Oak
- Cladrastis kentukea* - Yellowwood



*Liriodendron tulipifera 'Fastigiatum'*  
Columnar Tulip Tree

#### MT. HOOD VIEW STREET TREES: T Street

\**Liriodendron tulipifera 'Fastigiatum'* - Columnar Tulip Tree  
*Ginkgo biloba 'Princeton Sentry'* - Princeton Sentry Ginkgo  
*Pyrus calleryana 'Glensform'* - Chanticleer Pear  
*Fagus sylvatica 'Dawyck Purple'* - Dawyck Purple Beech



*Acer x fremanii 'Armstrong'* - Armstrong Red Maple

#### PRIVATE WOONERF STREET TREES

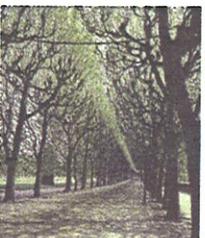
*Pyrus calleryana 'Glensform'* - Chanticleer Pear  
*Pyrus calleryana 'Redspire'* - Redspire Pear  
*Zelkova serrata 'Musashino'* - Musashino Zelkova  
*Acer x fremanii 'Armstrong'* - Armstrong Red Maple  
*Gleditsia triacanthos 'Shademaster'* - Shademaster Honeylocust  
*Gleditsia triacanthos 'Skyline'* - Skyline Honeylocust  
*Gleditsia triacanthos 'Impcole'* - Imperial Honeylocust  
*Koelreuteria paniculata* - Goldrain Tree



*Quercus robur* - English Oak

#### SECONDARY RESIDENTIAL STREET TREES: K, J, M, N & S Streets

*Landscape Strips 5' - 8' Wide*  
*Acer pseudoplatanus* - Sycamore Maple  
*Koelreuteria paniculata* - Goldrain Tree  
*Acer rubrum 'Red Sunset'* - Red Sunset Maple  
*Cornus florida* - Flowering Dogwood  
*Crataegus viridis 'Winter King'* - Winter King Hawthorne  
*Landscape Strips 8' + Wide*  
*Quercus robur* - English Oak  
*Catalpa speciosa* - Northern Catalpa  
*Quercus acutissima* - Sawtooth Oak  
*Quercus macrocarpa* - Bur Oak



*Platanus acerifolia* - London Planetree

#### SIGNIFICANT RESIDENTIAL STREET TREES: H, L & R Streets

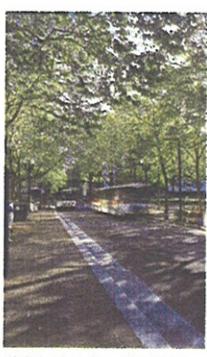
*Landscape Strips 5' - 8' Wide*  
*Acer x fremanii 'Autumn Blaze'* - Autumn Blaze Maple  
*Zelkova serrata 'Green Vase'* - Green Vase Zelkova  
*Zelkova serrata 'Village Green'* - Village Green Zelkova  
*Landscape Strips 8' + Wide*  
*Aesculus x carnea 'Briotti'* - Red Horsechestnut  
*Platanus acerifolia 'Bloodgood'* - Bloodgood London Planetree  
*Cercidophyllum japonicum* - Katsura Tree  
*Quercus palustris* - Pin Oak  
*Quercus macrocarpa* - Bur Oak  
*Ginkgo biloba* - Ginkgo



*Aesculus x carnea* - Red Horsechestnut

#### PRIMARY RESIDENTIAL STREET TREES: C & B Streets

*Landscape Strips 5' - 8' Wide*  
*Tilia x euchlora* - Crimean Linden  
*Fagus sylvatica* - European Beech  
*Fagus sylvatica 'Riversii'* - Rivers Beech  
*Acer x fremanii 'Autumn Blaze'* - Autumn Blaze Maple  
*Fraxinus oxycarpa 'Raywood'* - Raywood Ash  
*Fraxinus americana 'Autumn Applause'* - Autumn Applause Ash  
*Landscape Strips 8' + Wide*  
*Aesculus x carnea 'Briotti'* - Red Horsechestnut  
*Quercus coccinea* - Scarlet Oak  
*Celtis occidentalis* - Hackberry  
*Quercus phellos* - Willow Oak



*Gleditsia triacanthos* - Honeylocust

#### VILLAGE CENTER STREET TREES: O, F & P Streets

*Gleditsia triacanthos 'Shademaster'* - Shademaster Honeylocust  
*Gleditsia triacanthos 'Skyline'* - Skyline Honeylocust  
*Pyrus calleryana 'Glensform'* - Chanticleer Pear  
*Pyrus calleryana 'Redspire'* - Redspire Pear  
*Platanus acerifolia 'Bloodgood'* - Bloodgood London Planetree  
*Sophora japonica* - Chinese Scholar Tree  
*Acer x fremanii 'Armstrong'* - Armstrong Red Maple

*Cercis canadensis* - Eastern Redbud

#### ACCENT TREES FOR ROUNDABOUTS AND INFILL ON STREETS WITH EXISTING TREES: I & Q Streets

*Cercis canadensis* - Eastern Redbud  
*Cornus florida* - Flowering Dogwood  
*Pyrus calleryana 'Aristocrat'* - Aristocrat Pear  
*Stewartia pseudocamellia* - Japanese Stewartia

*Cercidiphyllum japonicum* - Katsura Tree

#### TREES FOR MINOR PEDESTRIAN PATHWAYS

*Quercus alba* - White Oak  
*Quercus rubra* - Red Oak  
*Aesculus x carnea 'Briotii'* - Red Horsechestnut  
*Quercus robur* - English Oak  
*Cercidiphyllum japonicum* - Katsura Tree

*Fraxinus latifolia* - Oregon Ash

#### STREET TREES FOR SWALES

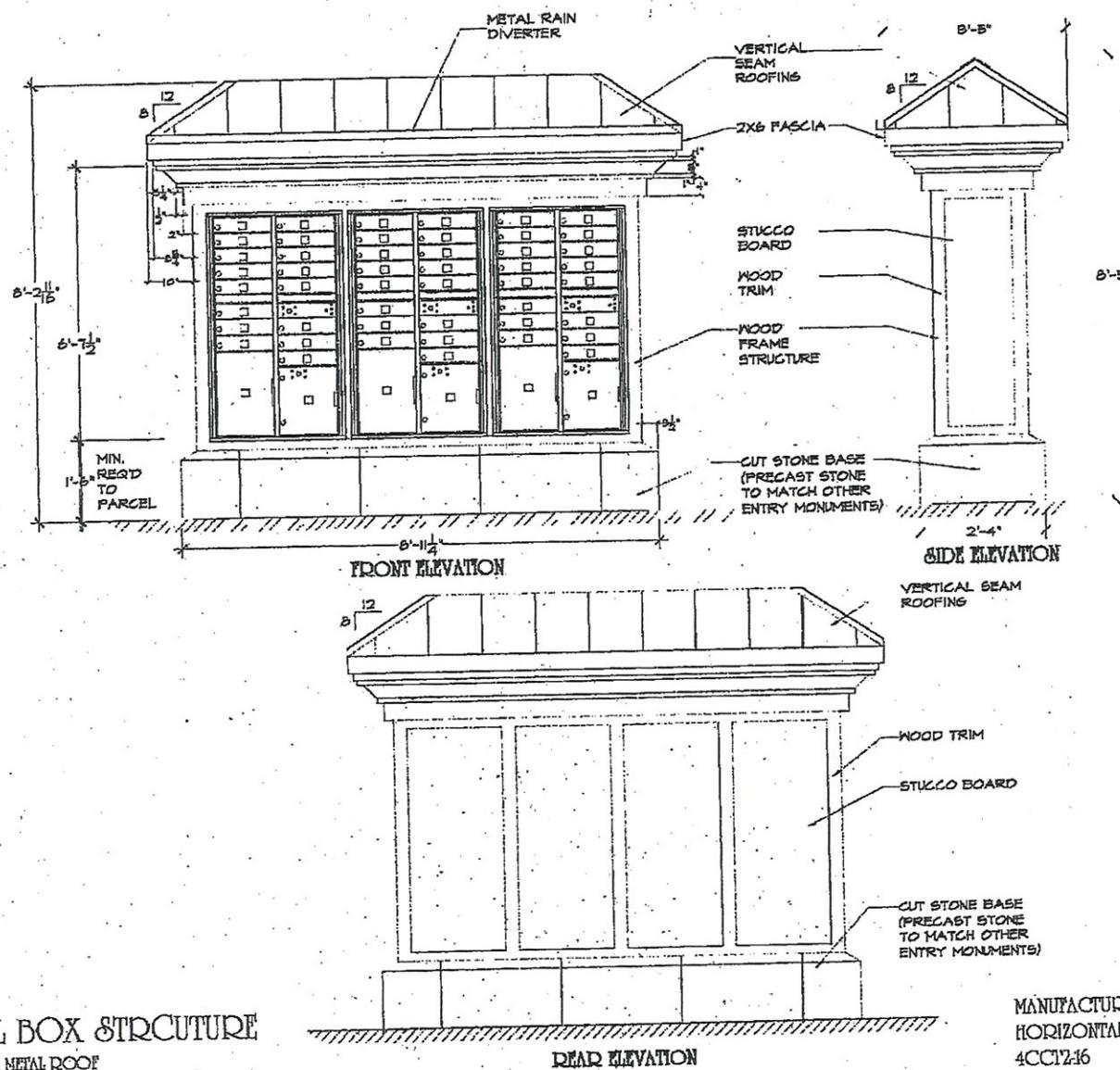
*Alnus rubra* - Red Alder  
*Fraxinus latifolia* - Oregon Ash  
*Quercus bicolor* - Swamp White Oak  
*Salix babylonica* - Babylon Weeping Willow  
*Ulmus japonica x wilsoniana 'Morton'* - Accolade Elm (Side Slope Only)  
*Ulmus 'Frontier'* - Frontier Elm (Side Slope Only)  
*Zelkova serrata 'Green Vase'* - Green Vase Zelkova (Side Slope Only)  
*Zelkova serrata 'Village Green'* - Village Green Zelkova (Side Slope Only)  
*Acer macrophyllum* - Big Leaf Maple (12' Minimum Planting Areas)

NOTE: Mail Box Location Plan is for illustrative purposes outside of the current SAP submission area. This plan will be updated as minor modifications are made in subsequent SAP submissions.

**LEGEND**

- 48 mailbox kiosk location on planter strip adjacent to common areas or trails
- Potential mailbox locations
- SAP North Boundary





VILLEBOIS MAIL BOX STRUCTURE  
UPDATED ELEVATIONS PER METAL ROOF  
SCALE 1/8"=1'-0"

MANUFACTURER: AUTH-FLORENCE  
HORIZONTAL MAILBOX SYSTEMS  
4CC1246



### SITE FURNISHINGS CONCEPT

Site furnishings at Villebois have been selected for their simplicity and elegance of design and to provide continuity between private dwellings and public space. Site furnishings are the background elements of a community which serve to reinforce the aesthetic theme of a place like Villebois. One rarely thinks about the bench in a park, or the simple bicycle rack, but these are the elements that build identity and provide continuity.

**Connectivity:** An extensive network of pedestrian sidewalks and the Villebois Greenway enhances the connectivity throughout Villebois. Site furnishings are support elements for these pedestrian connections creating strong links between neighborhoods, parks, and the Village Center.

**Diversity:** While it is important to use similar elements to develop aesthetic unity, it is equally important to include a variety of amenities to build diversity throughout Villebois. For example, a teak bench has been chosen for neighborhood parks to create a more park-like character, whereas the hardwood bench with metal armrests will be placed in the Village Center and the Greenway's edge to create a more urban feeling. Also, wood bollards will be installed at Greenway crossings and will contrast with iron bollards at the Village Center Plaza, helping to give these areas different characteristics.

**Sustainability:** Much of the site furnishings for Villebois were chosen because of the type of wood and harvesting methods the manufacturers guarantee. For example, the 'Ipe' wood in the "Plainwell Series" bench is certified by the Forestry Stewardship Council (FSC). Wood products that carry the FSC logo are guaranteed to be from well-managed forests with environmental management as a top priority.

The following pages and the next four pages show specific models of site furnishings which have been selected for Villebois. Substitutions must be approved by the Master Planner and should match these models as closely as possible. Wherever possible, site furnishings should consider suppliers that use materials and production processes that are sustainable and environmentally benign. Part of this consideration includes choosing local suppliers that use materials from Oregon. Durability and ease of maintenance of the furnishings are equally important.



### URBAN / GREENWAY BENCH

**Manufacturer:** Landscape Forms

**Model:** The Plainwell Series

**Material:** Sustainably harvested 'Ipe' wood, certified by the Forestry Stewardship Council

**Finish:** No finish required for wood. Staining not recommended.

Metal is painted Black, powdercoated.

**Size:** 72" or 96" Length



### NEIGHBORHOOD PARKS BENCH

**Manufacturer:** Landscape Forms

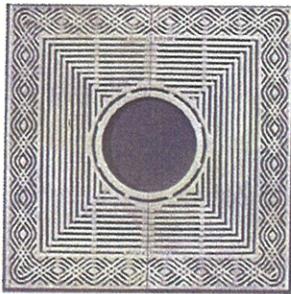
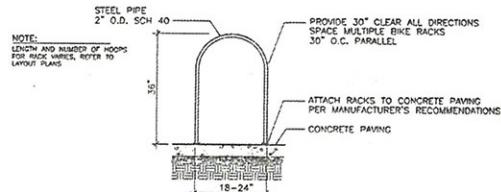
**Model:** Gretchen #3 Backless Bench

**Material:** Ipe wood or recycled plastic

**Finish:** No finish for wood. Metal is powder coated black

**Size:** 6' to 8' Length

*Substitution requests must be approved by the Master Planner.*

**TREE GRATE****Manufacturer:** Olympic Foundry**Model:** CNK Series 48**Material:** Cast Iron**Finish:** None**Size:** 4' Square: 2 sections, 16" Tree hole diameter**BICYCLE RACK****Manufacturer:** Function First Bike Security**Model:** The Bike Rib**Material:** Steel Pipe**Finish:** Powdercoat Paint, Black only**Size:** 1.25" Schedule 40 Steel Pipe: 18" W/32" H

Can be grouped as 2, 3 or 4 ribs, up to 90" long.

**TRASH/RECYCLING RECEPTACLE****Manufacturer:** Landscape Forms**Model:** Plainwell Litter Receptacle**Material:** Steel, or sustainably harvested 'Ipe' wood, certified by Forestry Stewardship Council**Finish:** No finish required for wood. Staining not recommended. Metal is painted Black and powdercoated.**Sizes:** 30" Diameter, 38" Height: 35 gallon capacity.*Substitution requests must be approved by the Master Planner.*



Orenco Station

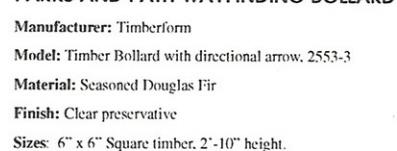
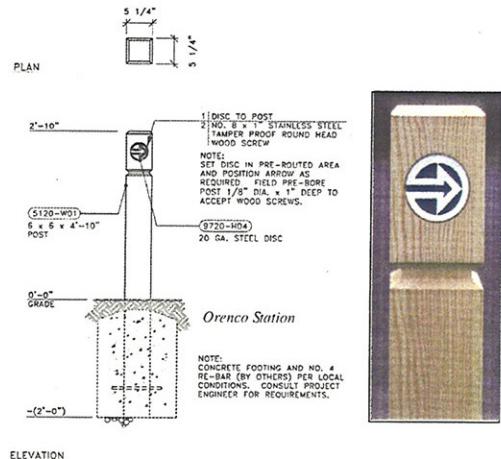
## DRINKING FOUNTAIN

Manufacturer: Murdock

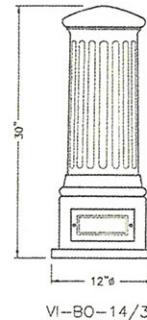
Model: MC-76-2

Material: Iron Pedestal / Brass Bowls

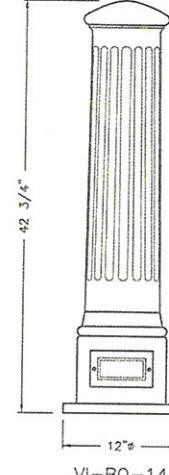
Finish: Oil Based Paint. Black



Substitution requests must be approved by the Master Planner.



VI-BO-14/30



VI-BO-14

## URBAN BOLLARD

Manufacturer: Visco

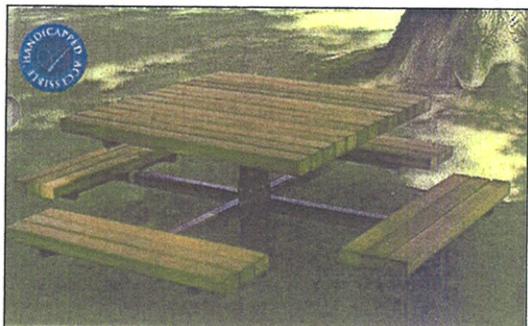
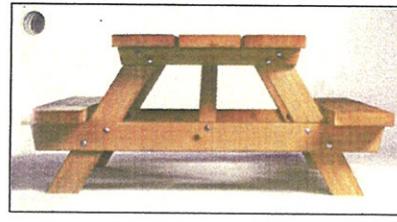
Model: VI-BO-14; VI-BO-14/30

Material: Steel or cast-iron

Finish: Powder Coated. Painted Black

Sizes: 30" or 42 1/4" Tall; Base 12" Diameter

Bollards at  
Orenco Station

**PICNIC TABLE (4-SIDED)****Manufacturer:** Du Mor**Model:** 76-34R**Material:** Western Red Cedar Wood or Recycled Plastic (Cedar Color)**Finish:** Clear Preservative. Metal is powder coated black**Sizes:** 4' Square Tabletop, 4 Seat Capacity**PICNIC TABLE****Manufacturer:** Timberform**Model:** Arbor Picnic Table with Seats, Model 2242-6**Material:** Seasoned Douglas Fir**Finish:** Clear Preservative**Sizes:** Length: 5'-10" or 7'-10"; Width: 5'-7"; Height 2'-6"*Substitution requests must be approved by the Master Planner.*



#### PLAY STRUCTURES

Playgrounds and play structures are an integral part of community parks. A playground should be a social place for children as well as for parents. The above photos show a typical play structure that meets the general design intent for Villebois. Actual Villebois playground sizes and locations will be determined in the individual Specific Area Plans.

The design of the play areas should have a balance of activities and diversity to challenge children of all ages. There should be multiple structures and linkages to encourage movement and promote exploration. There should also be interactive equipment such as swings which are enjoyed by adults as well as children. Above all, it is important for the play areas to be safe as well as accessible to children with disabilities.

There is no specific manufacturer recommended, but the play structures chosen should meet the following technical requirements:

- Must comply to ASTM F-1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use.
- Must be IPEMA-certified: IPEMA is a non-profit organization that tests play equipment confirming manufacturers conformance to ASTM F - 1487.

- Hardware must be stainless steel with lifetime warranty.
- Structure materials must be monochromatic with earthtone colors matching other site furnishings, preferably dark green. Primary colors are not acceptable.
- Safety surface material is required for all areas within the fall zone of the play structures. Acceptable surface material is IPEMA certified Engineered Wood Fiber to a minimum depth ten inches (10").
- Platforms - minimum 8" and maximum 72" in height for youth play areas
- Platforms - minimum 8" and maximum 48" in height for tot play areas
- Transitional platforms or ramps meeting ADA requirements in areas for children with disabilities
- Various ground-level activities

**GOAL**

To preserve existing trees where they will be an amenity for the community and integral to a diverse, sustainable and well-connected Village.

**POLICIES**

- Existing trees six inches DBH or more shall be preserved when healthy and compatible with the project design. Native species of trees and trees with historical importance shall be given special consideration for retention.
- Open space areas shall be organized to incorporate existing trees where feasible.
- Existing treed streets shall be incorporated into the design and the trees preserved to the extent feasible.
- The alignment of public streets and private lanes shall consider preservation of existing trees. Alternate street sections shall be pursued as needed to preserve trees that are integral to the design of the Village, and shall require City Engineer approval.
- Lot lines shall be organized to locate trees along lot lines and non-typical shaped lots shall be used where feasible to preserve trees that would provide an amenity to the community and not compromise the design of an urban village.

**IMPLEMENTATION MEASURES**

1. A Tree Preservation Plan, which meets the requirements of the City of Wilsonville Ordinance 464 Tree Preservation and Protection, shall be prepared with each Specific Area Plan that classifies to aid in determining whether the tree is desirable to preserve and is capable of survival. Tree classification shall be conducted by a duly licensed and certified arborist and shall include the following:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;
- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;
- Mature form and size, level of visual interest, and aesthetic contribution;
- Historical importance.

The Arborist report shall take into account the following categories:

**"IMPORTANT" CLASSIFICATION IS COMPRISED OF:**

Trees that rated high in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;
- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;
- Mature form and size, level of visual interest, and aesthetic contribution;
- or are classified as "good" but have historical importance.

**"GOOD" CLASSIFICATION IS COMPRISED OF:**

Trees that rated high in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;

Trees that rated adequate in the following categories:

- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;
- Mature form and size, level of visual interest, and aesthetic contribution;

**"MODERATE" CLASSIFICATION IS COMPRISED OF:**

Trees that rated adequate in the following categories:

- Health, structure and vigor of tree;
- Age and/or DBH;
- Species rating per ISA standards for the Pacific NW Region;
- Strong or weak wooded;
- Compatibility with development and ability to withstand impacts;
- Free-standing well formed tree or within intact groupings;

Mature form and size, level of visual interest, and aesthetic contribution;

**"POOR" CLASSIFICATION IS COMPRISED OF:**

- Trees in poor health and/or when substantially damaged;
- Trees found to be potentially hazardous based on species history or present condition.

**"NOT EXAMINED" CLASSIFICATION IS COMPRISED OF:**

- Trees which were inaccessible due to property ownership.

**"REMOTE EXAMINED" CLASSIFICATION IS COMPRISED OF:**

- Trees with limited accessibility due to property ownership and/or physical limitations (such as thick berry bushes).

2. For trees that are to be preserved, the existing grade and drainage pattern within the drip line shall be maintained to the extent feasible and the impact to the tree root system shall be minimized to the extent feasible.

3. A Tree Protection Plan shall be prepared by a duly licensed and certified arborist with each Preliminary Development Plan addressing protection of trees prior to construction, during construction, and post-construction. Pre-construction measures to protect trees shall include, but are not limited to fencing, activities prohibited within drip line, and removal of adjacent trees. Tree protection measures during construction shall include, but are not limited to, fencing and identification of conditions that would require presence of arborist on site. Tree protection measures after construction may include, but are not limited to, tree conservation easements on private property, open space/park dedication, etc. Tree work described in the Tree Protection Plan shall be done to National Standards Institute (ANSI 300) specifications under supervision of a duly licensed and certified arborist. Monitoring inspections shall occur as specified in the Tree Protection Plan.

**VILLEBOIS PLANT LIST**

The following list of trees, shrubs and other plants is provided as the basis for selection of plants for Villebois parks and open spaces, public urban spaces, residential pocket parks and housing sites. Substitutions to this plant list must be approved by the Villebois master planner.

**NON-NATIVE PLANTS****TREES**

*Abies concolor* var. — White Fir varieties  
*Abies lasiocarpa* — Rocky Mountain Fir  
*Acer buergerianum* — Trident Maple  
*Acer campestre* — Hedge Maple  
*Acer davidii* — David Maple  
*Acer x freemanii 'Marmo'* — Marmo Maple  
*Acer ginnala* — Amur Maple  
*Acer grandidentatum 'Schmidt'* — Rocky Mtn Glow Maple  
*Acer griseum* — Paperback Maple  
*Acer henryi* — Henry Maple  
*Acer japonicum* (straight species) — Fullmoon Maple  
*Acer nigrum* 'Greencolumn' — Greencolumn Maple  
*Acer palmatum* var. — Japanese Maple  
*Acer pseudoplatanus* — Sycamore Maple  
*Acer rubrum* — Red Maple varieties  
*Acer saccharum* var. — Sugar Maple varieties  
*Acer x freemanii* — Autumn Maple varieties  
*Acer x truncatum x platanoides 'Warrenred'* — Pacific Sunset Maple or Norwegian Sunset Maple  
*Betula nigra* — River Birch  
*Calocedrus decurrens* — Incense Cedar  
*Carpinus betulus 'Fastigiata'* — Pyramidal European Hornbeam  
*Cedrus deodara* — Deodar Cedar  
*Cercidiphyllum japonicum* — Katsura Tree  
*Cercis chinensis* — Chinese Redbud  
*Chamaecyparis lawsoniana* — Chamaecyparis varieties  
*Cladrastis lutea* — Yellow Wood  
*Clerodendrum trichotomum* — Harlequin Glorybower  
*Cornus kousa chinensis* — Chinese Kousa Dogwood  
*Crataegus phoenopyrum 'Washington Lustre'* — Washington Hawthorn

*Crataegus x lavallei* — Lavalle Hawthorn  
*Cryptomeria japonica* var. — Japanese Cryptomeria varieties  
*Cupressocyparis leylandii* — Leland Cypress  
*Cupressocyparis leylandii 'Naylor's Blue'* — Naylor's Blue Leland Cypress  
*Davidia involucrata* — Dove Tree  
*Disanthus cercidifolius* — Disanthus  
*Fagus sylvatica* — Copper Beech varieties  
*Fraxinus pennsylvanica* — Ash varieties  
*Ginkgo biloba* var. — Ginkgo varieties  
*Gleditsia triacanthos* — Honey Locust varieties  
*Gymnocladus dioica* — Kentucky Coffee Tree  
*Halesia carolina* — Silver Bell  
*Juniperus scopulorum* 'Skyrocket' — Skyscraper Juniper  
*Koelreuteria paniculata* — Goldnrain Tree  
*Laburnum anagyroides* — Goldchain Tree  
*Lagerstroemia indica* 'Natchez' — Natchez Crepe Myrtle  
*Larix decidua* — European Larch  
*Liriodendron tulipifera* — Tulip Tree  
*Magnolia stellata* 'Royal Star' — Royal Star Magnolia  
*Magnolia x soulangeana* — Saucer Magnolia  
*Magnolia virginiana* — Sweetbay Magnolia  
*Malus 'Golden Raindrops'* — Golden Raindrops Crabapple  
*Malus 'Snowdrift'* — Snowdrift Crabapple  
*Metasequoia glyptostroboides* — Dawn Redwood  
*Nyssa sylvatica* — Sour Gum  
*Ostrya virginiana* — American Hophornbeam  
*Oxydendron arboreum* — Sourwood  
*Parrotia persica* — Persian Parrotia  
*Pinus monticola* — Western White Pine  
*Pinus strobus fastigiata* — Columnar Eastern White Pine  
*Platanus x acerifolia* 'Bloodgood' — London Plane Tree  
*Prunus x blireiana* — Blireiana Plum  
*Prunus serrulata* 'Shirofugen' — Shirofugen Cherry  
*Pyrus calleryana* 'Capital' — Capital Callery Pear  
*Pyrus calleryana* 'Chanticleer' or 'Glen's Form' — Chanticleer or Glen's Form Callery Pear  
*Pyrus calleryana* 'Redspire' — Redspire Callery Pear  
*Quercus phellos* — Willow Oak  
*Quercus robur* — English Oak

*Quercus rubra* — Red Oak  
*Sassafras albidum* — Sassafras  
*Sequoiadendron giganteum* — Giant Sequoia  
*Sequoia sempervirens* — Coast Redwood  
*Sophora japonica* — Japanese Pagoda Tree  
*Sorbus aucuparia* — European Mountain Ash  
*Stewartia koreana* — Korean Stewartia  
*Stewartia monadelpha* — Tall Stewartia  
*Stewartia pseudocamellia* — Japanese Stewartia  
*Styrax japonica* — Japanese Snowbell  
*Styrax obassia* — Bigleaf Japanese Snowbell  
*Tilia americana* 'Redmond' — Redmond American Linden  
*Tilia cordata* var. — Little Leaf Linden varieties  
*Ulmus japonica x wilsoniana* 'Morton' — Accolade Elm  
*Ulmus parvifolia* 'Emerald Vase' — Emerald Vase Lacebark Elm  
*Zelkova serrata* 'Halka' or 'Green Vase' — Halka or Green Vase Zelkova

**SHRUBS**

*Abelia grandiflora* 'Edward Goucher' — Edward Goucher Glossy Abelia  
*Abelia grandiflora* 'Prostrata' — Prostrate White Abelia  
*Arbutus unedo* 'Compacta' — Dwarf Strawberry Bush  
*Arctostaphylos* 'John Dourley' — John Dourley Manzanita  
*Azalea* species — Azalea  
*Berberis thunbergii* — Japanese Barberry  
*Berberis thunbergii* 'Crimson Pygmy' — Crimson Pygmy Japanese Barberry  
*Berberis thunbergii* 'Kohold' — Kohold Barberry  
*Berberis verruculosa* — Warty Barberry  
*Berberis x mentorensis* — Mentor Barberry  
*Buddleia davidii* 'Empire Blue' — Buddleia  
*Callicarpa bodinieri* — Beautybush  
*Caryopteris clandonensis* 'Arthur Simmon' — Arthur Simmon Blue Mist  
*Chaenomeles speciosa* — Chinese Flowering Quince  
*Choisya ternata* — Mexican Ternate Orange  
*Cistus purpureus* — Purple Rock Rose

*Cornus sericea* 'Alleman's Compact' — Alleman's Compact Redtwig Dogwood  
*Cornus sericea* 'Isanti' — Isanti Redtwig Dogwood  
*Cornus stolonifera* 'Kelseyi' — Kelsey Dogwood  
*Corylopsis spicata* — Spike Winter Hazel  
*Cotoneaster horizontalis* — Rock Cotoneaster  
*Cotoneaster lacteus* — Parney Cotoneaster  
*Daphne burkwoodii* — Burkwood Daphne  
*Daphne burkwoodii* 'Carol Mackie' — Carol Mackie Burkwood Daphne  
*Daphne odora* — Winter Daphne  
*Deutzia gracilis* 'Nikko' — Nikko Slender Deutzia  
*Deutzia x rosea* — Deutzia Hybrid  
*Elaeagnus pungens* 'Fruitlandii' — Silverberry  
*Enkianthus perulatus* — Enkianthus  
*Escallonia* 'Compacta' — Compact Escallonia  
*Escallonia* 'Newport Dwarf' — Newport Dwarf Escallonia  
*Euonymus alata* 'Compacta' — Dwarf Burning Bush  
*Euonymus japonica* 'Silver Princess' — Silver Princess Euonymus  
*Euonymus japonicus* 'Silver Queen' — Silver Queen Euonymus  
*Euonymus microphylla* — Box Leaf Euonymus  
*Exochorda macrantha* 'The Bride' — Pearl Bush  
*Fatsia japonica* — Japanese Aralia  
*Fothergilla gardenii* 'Jane Platt' — Dwarf Fothergilla  
*Fothergilla monticola* — Fothergilla  
*Hamamelis mollis* 'Coombes Wood' — Witch Hazel  
*Hamamelis mollis* 'Pallida' — Palida Witch Hazel  
*Hydrangea arborescens* 'Annabelle' — Annabelle Hydrangea  
*Hydrangea macrophylla* 'Nikko Blue' — Nikko Blue Hydrangea  
*Hydrangea macrophylla* 'Lemon Wave' — Lemon Wave Hydrangea  
*Hydrangea quercifolia* — Oak Leaf Hydrangea  
*Hydrangea serrata* 'Blue Billow' — Blue Billow Lacecap Hydrangea  
*Hydrangea serrata* 'Bluebird' — Blue & Pink Lacecap Hydrangea



*Hypericum androsaemum 'Albury's Purple'* — Albury's Purple St. John's Wort  
*Hypericum androsaemum 'Hidcote'* — Hidcote Shrub  
*Hypericum*  
*Hypericum 'Rowallane'* — Rowallane Shrub Hypericum  
*Ilex crenata 'Compacta'* — Compact Japanese Holly  
*Ilex crenata 'Convexa'* — Convex Leaf Japanese Holly  
*Ilex crenata 'Green Island'* — Green Island Japanese Holly  
*Ilex crenata 'Helleri'* — Helleri Japanese Holly  
*Ilex crenata 'Hetzii'* — Hetzii Japanese Holly  
*Itea virginica 'Henry's Garnet'* — Henry's Garnet Sweetspire  
*Itea virginica 'Little Henry's'* — Little Henry's Sweetspire  
*Jasminum nudiflorum* — Winter Jasmine  
*Juniperus chinensis* — Chinese Juniper  
*Kalmia latifolia* — Mountain Laurel  
*Kalmia latifolia 'Elf'* — Elf Mountain Laurel  
*Leucothoe fontanesiana* — Drooping Leucothoe  
*Ligustrum 'Lodense'* — Lodense Privet  
*Ligustrum 'Sylvane River'* — Sylvane River Privet  
*Lonicera nitida* — Box Honeysuckle  
*Lonicera nitida 'Red Tip'* — Red Tip Box Honeysuckle  
*Lonicera pinnatifida* — Privet Honeysuckle  
*Loropetalum chinensis 'Burgundy'* — Chinese Loropetalum  
*Nandina domestica 'Harbor Dwarf'* — Harbor Dwarf Heavenly Bamboo  
*Osmanthus delavayi* — Delavay Osmanthus  
*Pernettya mucronata* — Gaultheria mucronata  
*Philadelphus coronarius* — Sweet Mock Orange  
*Philadelphus x virginicus 'Dwarf Minnesota Snowflake'* — Dwarf Minnesota Snowflake Mock Orange  
*Pieris 'Forest Flame'* — Forest Flame Pieris  
*Pieris formosa var forestii 'Wakehurst'* — Wakehurst Pieris  
*Pieris japonica 'Blush'* — Blush Pieris  
*Pieris japonica 'Spring Snow'* — Spring Snow Pieris  
*Polystichum setiferum* — Alaska Fern  
*Potentilla fruticosa 'Klondike'* — Klondike Bush Cinquefoil  
*Potentilla fruticosa 'Day Dawn'* — Daydawn Bush Cinquefoil

*Prunus laurocerasus 'Otto Luyken'* — Otto Luyken Laurel  
*Rhododendron species* — Rhododendron  
*Rosa bonica* — Bonica Rose  
*Rosa 'de L'Hay'* — de L'Hay Rose  
*Rosa 'Red Meidiland'* — Red Meidiland Rose  
*Rosa rugosa var.* — Rugosa Rose varieties  
*Rosa 'Scarlet Meidiland'* — Scarlet Meidiland Rose  
*Rosa 'Snow on Heather'* — Snow on Heather Rose  
*Rosa 'White Meidiland'* — White Meidiland Rose  
*Rosmarinus officinalis 'Tuscan Blue'* — Tuscan Blue Rosemary  
*Salix purpurea 'Nana'* — Dwarf Purple Osier Willow  
*Salix repens argentea* — Silver Creeping Willow  
*Sambucus racemosa 'Plumosa Aurea'* — Golden Elderberry  
*Sarcococca hookerana 'Humilis'* — Sweet Box - Himalayan Sarcococca  
*Sarcococca ruscifolia* — Fragrant Sarcococca  
*Spiraea bumalda 'Anthony Waterer'* — Anthony Waterer Spirea  
*Spiraea japonica 'Shirobana'* — Shirobana Spirea  
*Spiraea nipponica 'Snowmound'* — Snowmound Japanese Spirea  
*Spiraea prunifolia 'Plena'* — Bridal Wreath Spiraea  
*Spiraea thunbergii* — Thunberg Spirea  
*Spiraea thunbergii 'Compacta'* — Compact Japanese Spirea  
*Spiraea x bumalda 'Goldflame'* — Goldflame Spiraea  
*Spiraea x vanhouttei* — Vanhoutte Spirea  
*Syringa microphylla 'Superba'* — Little Leaf Lilac  
*Taxus baccata 'Repandens'* — English Yew  
*Taxus x media 'Hicksii'* — Hicks Yew  
*Viburnum carlesii 'Compactum'* — Compact Korean Spice Viburnum  
*Viburnum*  
*Viburnum carlesii 'Nana'* — Nana Korean Spice Viburnum  
*Viburnum davidii* — David Viburnum  
*Viburnum opulus 'Compactum'* — Compact European Cranberry Bush  
*Viburnum opulus 'Nanum'* — Dwarf European Cranberry Bush  
*Viburnum plicatum tomentosum 'Mariesii'* — Mariesii

Doublefile Viburnum  
*Viburnum plicatum var tomentosum* — Doublefile Viburnum  
*Viburnum tinus 'Spring Bouquet'* — Spring Bouquet Laurustinus  
*Viburnum trilobum* — Cranberry Bush  
*Viburnum x bodnantense* — Bodnant Viburnum  
*Viburnum x burkwoodii* — Burkwood Viburnum  
*Viburnum x rhytidophyloides 'Alleghany'* — Alleghany Viburnum  
*Weigela florida var.* — Variegated Weigela varieties

**GROUNDCOVERS, VINES, PERENNIALS, GRASSES, BULBS**

*Ajuga reptans 'Catlin's Giant'* — Catlin's Giant Carpet Bugle  
*Alchemilla mollis* — Lady's Mantle  
*Aubrieta deltoidea 'Rockey's Purple'* — Rockey's Purple False Rock-Cress  
*Bergenia 'Silberlicht'* — Heart Leaf Bergenia  
*Calamagrostis x acutiflora 'Overdam'* — Variegated Feather Reed Grass  
*Calamagrostis x acutiflora 'Karl Foerster'* — Foerster's Feather Reed Grass  
*Calluna vulgaris* — Scottish Heather  
*Carex buchananii* — Leather Leaf Sedge  
*Carex deweyana* — Dewey Sedge  
*Carex 'Frosted Curis'* — Frosted Curis Sedge  
*Carex morrowii 'Variegata'* — Variegated Japanese Sedge  
*Carex morrowii 'Ice Dance'* — Ice Dance Sedge  
*Carex morrowii 'Evergold'* — Evergold Sedge  
*Carex obnupta* — Slough Sedge  
*Carex pendula* — Weeping Sedge  
*Clematis florida 'Alba Piena'* — Alba Piena Clematis  
*Clematis viticella 'Etoile Violette'* — Etoile Violette Clematis  
*Cotoneaster damhami 'Canadian Creeper'* — Canadian Creeper Cotoneaster  
*Crocus* — Crocus  
*Daboecia cantabrica* — Irish Heath

*Deschampsia caespitosa* — Tufted Hair Grass  
*Erica species* — Heath  
*Euonymus x fortunei var.* — Wintercreeper varieties  
*Euphorbia characias ssp. *Wulfenii** — Wall Spurge  
*Euphorbia robbiae* — Robb's Spurge  
*Fragaria chiloensis* — Coast Strawberry  
*Gaultheria procumbens* — Wintergreen  
*Geranium x cantabrigiense 'Biokovo'* — True Geranium  
*Geranium x cantabrigiense 'Cambridge Blue'* — Cambridge Blue Geranium  
*Geranium dalmaticum* — Dalmatian Cranesbill  
*Geranium 'Johnson's Blue'* — Johnson's Blue Geranium  
*Geranium macrorrhizum* — Cranesbill Geranium  
*Hakonechloa macra 'Aureola'* — Japanese Forest Grass  
*Helianthemum 'Annabel'* — Annabel Sun Rose  
*Helictotrichon sempervirens* — Blue Oat Grass  
*Helleborus orientalis* — Lenten Rose  
 *Hemerocallis 'Crazy Lace'* — Crazy Lace Daylily  
*Hemerocallis 'Catherine Woodbury'* — Woodbury Daylily  
*Hemerocallis 'Stella d'Oro'* — Stella d'Oro Daylily  
*Hypericum calycinum* — Hypericum  
*Iberis sempervirens 'Snowflake'* — Snowflake Candytuft  
*Iris* — Iris  
*Juncus effusus* — Soft Rush  
*Juniperus conferta 'Blue Pacific'* — Blue Pacific Juniper  
*Juniperus conferta 'Silver Mist'* — Silver Mist Juniper  
*Lavandula angustifolia var.* — English Lavender varieties  
*Liriope var.* — Liriope varieties  
*Lithodora diffusa 'Grace Ward'* — Grace Ward Lithodora  
*Mentha corsica* — Corsican Mint  
*Misanthus sinensis 'Variegatus'* — Variegated Japanese Silver Grass  
*Misanthus sinensis 'Yaku Jima'* — Yaku Jima Japanese Silver Grass  
*Pachysandra terminalis* — Pachysandra  
*Panicum virgatum 'Haense Herns'* — Red Switch Grass

*Panicum virgatum 'Rotestrahibusch'* — Glowing Red Switch Grass  
*Parthenocissus quinquefolia* — Virginia Creeper  
*Parthenocissus tricuspidata* — Boston Ivy  
*Pennisetum alopecuroides* — Fountain Grass  
*Pennisetum alopecuroides 'Hamelin'* — Dwarf Fountain Grass  
*Pennisetum alopecuroides 'Moudry'* — Black Seeded Fountain Grass  
*Polystichum setiferum* — Alaska Fern  
*Rubus calycinoides* — Bramble  
*Santalina chamaecyparissus* — Lavender Cotton  
*Salvia officinalis 'Alba Flora'* — Alba Flora Sage  
*Salvia officinalis 'Icterina'* — Golden Variegated Sage  
*Stachys byzantina 'Silver Carpet'* — Silver Carpet Lambs Ear  
*Teucrium chamaedrys* — Wall Germander  
*Thymus citriodorus 'Aurea'* — Gold Variegated Lemon Thyme  
*Tulipa* — Tulip  
*Vaccinium vitis-idaea* — Lingonberry  
*Vinca minor* — Periwinkle

#### NATIVE PLANTS

##### TREES

*Abies grandis* — Grand Fir  
*Acer circinatum* — Vine Maple  
*Acer macrophyllum* — Bigleaf Maple  
*Alnus rubra* — Red Alder  
*Amelanchier alnifolia* — Western Serviceberry  
*Cornus nuttallii* — Pacific Dogwood  
*Corylus cornuta* — Western Hazelnut  
*Crataegus douglasii* — Douglas Hawthorne  
*Fraxinus latifolia* — Oregon Ash  
*Pinus ponderosa* — Ponderosa Pine  
*Pseudotsuga menziesii* — Douglas Fir  
*Quercus garryana* — Oregon Oak  
*Sambucus racemosa* — Red Elderberry  
*Sequoia sempervirens* — Giant Sequoia  
*Thuja plicata* — Western Red Cedar

*Tsuga heterophylla* — Western Hemlock

##### SHRUBS

*Berberis nervosa* — Cascade Oregon Grape  
*Cornus stolonifera* — Red Osier Dogwood  
*Gaultheria shallon* — Salal  
*Holodiscus discolor* — Ocean Spray  
*Lonicera involucrata* — Black Twinberry  
*Mahonia aquifolium* — Oregon Grape  
*Mahonia aquifolium 'Compacta'* — Compact Oregon Grape  
*Mahonia repens* — Creeping Mahonia  
*Oenothera cerasiformis* — Indian Plum  
*Philadelphus lewisii* — Mock Orange  
*Physocarpus capitatus* — Pacific Ninebark  
*Rhododendron macrophyllum* — Pacific Rhododendron  
*Ribes sanguineum* — Red Flowering Currant  
*Rosa nutkana* — Nootka Rose  
*Spirea douglasii* — Douglas Spirea  
*Symphoricarpos albus* — Common Strawberry  
*Taxus brevifolia* — Pacific Yew  
*Vaccinium ovatum* — Evergreen Huckleberry

##### GROUNDCOVER, FERNS, HERBS

*Anemone oregana* — Oregon Windflower  
*Aquilegia formosa* — Red Columbine  
*Arctostaphylos uva-ursi 'Vancouver Jade'* — Vancouver Jade Kinnickinnick  
*Arctostaphylos uva-ursi 'Emerald Carpet'* — Kinnickinnick  
*Blechnum spicant* — Deer Fern  
*Calypso bulbosa* — Fairyslipper  
*Camassia esculenta* — Camas  
*Claytonia lanceolata* — Western Spring Beauty  
*Corydalis scouleri* — Western Corydalis  
*Cornus canadensis* — Bunchberry  
*Delphinium nelsonii* — Montana Larkspur  
*Dicentra formosa* — Wild Bleeding Heart  
*Dodecatheon pulchellum* — Shooting Star  
*Eriophyllum lanatum* — Oregon Sunshine

*Erythronium revolutum* — Fawn Lily  
*Fragaria virginiana var. platypetala* — Broad Petal Strawberry

*Fritillaria lanceolata* — Checker Lily  
*Helianthus annuus* — Common Sunflower  
*Iris tenax* — Oregon Iris

*Linnaea borealis* — Twin Flower  
*Lupinus sulphureus* — Sulphur Lupine  
*Mimulus species* — Monkey Flower  
*Oxalis oregana* — Redwood Sorrel  
*Polystichum munitum* — Western Swordfern  
*Pteridium aquilinum* — Bracken Fern  
*Rhus spectabilis* — Salmonberry  
*Rubus parviflorus* — Thimbleberry  
*Smilacina racemosa* — False Solomon Seal  
*Tellima grandiflora* — Fringe Cup  
*Thalictrum occidentale* — Western Meadowrue  
*Tiarella trifoliata* — Foam Flower  
*Trillium ovatum* — Western Trillium  
*Vancouveria hexandra* — Inside Out Flower  
*Viola glabella* — Stream Violet

##### BIOSWALE PLANTINGS

#### GROUND MARCH / SWALE BOTTOM PLANT COMMUNITY

##### GROUNDAYER

*Alisma plantago-aquatica* — Water Plantain  
*Beckmannia syzigachne* — American Sloughgrass  
*Bromus carinatus* — California Bromegrass  
*Camassia esculenta* — Common Camas  
*Carex obnupta* — Slough Sedge  
*Deschampsia caespitosa* — Tufted Hairgrass  
*Eleocharis ovata* — Oval Spike Rush  
*Eleocharis palustris* — Common Spike Rush  
*Elymus glaucus* — Blue Wildrye  
*Festuca rubra v. rubra* — Native Red Fescue  
*Iris tenax* — Oregon Iris  
*Juncus effusus* — Soft Rush  
*Juncus ensifolius* — Dagger Leaf Rush

*Lysichiton americanum* — Skunk Cabbage  
*Regreen* — Wheat Cover Crop  
*Sagittaria latifolia* — Wapato Duck Potato  
*Scirpus acutus* — Hardstem Bulrush  
*Scirpus microcarpus* — Small Fruited Bulrush

##### UNDERSTORY

*Spiraea douglasii* — Douglas Spirea

#### SHRUB / PLANT COMMUNITY

##### GROUNDAYER

*Deschampsia caespitosa* — Tufted Hairgrass  
*Festuca rubra v. rubra* — Native Red Fescue

##### UNDERSTORY

*Cornus stolonifera* — Redtwig Dogwood  
*Rosa nutkana* — Nootka Rose  
*Salix lasiandra* — Pacific Willow  
*Salix piperi* — Piper Willow  
*Salix scouleriana* — Scouler's Willow  
*Salix sitchensis* — Sitka Willow  
*Spiraea douglasii* — Douglas Spirea

#### PROHIBITED PLANT SPECIES

*Cirsium arvense* — Canadian Thistle  
*Convolvulus spp.* — Morning Glory  
*Cytisus scoparius* — Scotch Broom  
*Dipsacus sylvestris* — Common Teasel  
*Festuca arundinacea* — Tall Fescue  
*Hedera helix* — English Ivy  
*Holcus lanatus* — Velvet Grass  
*Lolium spp.* — Rye Grasses  
*Lotus corniculatus* — Bird's Foot Trefoil  
*Lythrum salicaria* — Purple Loose Strife  
*Melilotus spp.* — Sweet Clover  
*Myriophyllum spicatum* — Eurasian Milfoil  
*Phalaris arundinacea* — Reed Canary Grass  
*Rubus discolor* — Himalayan Blackberry  
*Solanum spp.* — Nightshade