



# PARB

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Milwaukie Park and Recreation Board, 10722 SE Main Street, Milwaukie, OR 97222

Chair: Lisa Gunion-Rinker

Vice Chair: Lisa Lashbrook

Members: Lynn Sharp, Erin Willett Holcomb, Ben Johnson, Linda Blue; Andrew Craig

Staff Liaison: Mitch Nieman

## **AGENDA**: February 23, 2016 | 7:30 - 9:00 a.m. | Milwaukie City Hall

1. Welcome & Introductions (Lisa GR/Mitch) 7:30 a.m.
2. Review & Approve January 2015 Minutes (All) 7:35 a.m.
3. Tree City USA/Tree Ordinance/Tree Lists Update (Mitch) 7:40 a.m.
4. Arbor Day/Week Celebration (Lisa L./Lisa GR) 7:55 a.m.
5. Riverfront Park Flooding and Geese Update (Lisa/Mitch) 8:05 a.m.
6. 501(c)3 Parks Foundation (Lisa/Mitch) 8:10 a.m.
7. NCPRD Update (Tonia) 8:30 a.m.
8. Council/PARB Goals Update (Lisa/Mitch) 8:45 a.m.
9. Member News/Reports 8:55 a.m.
10. Adjourn 9:00 a.m.

**City of Milwaukie**  
**Milwaukie Park and Recreation Board (PARB)**  
**MEETING MINUTES**  
**City Hall Conference Room**  
**February 2, 2016**

**Members Present:** Lisa Gunion-Rinker (Chair), Lisa Lashbrook (Vice Chair), Erin Willett Holcomb (Secretary) Linda Blue, Ben Johnson, and Andrew Craig  
**Members Absent:** Lynn Sharp (Treasurer)  
**Staff/Visitors:** Mitch Nieman (City Staff Liaison), Tonia Burns (NCPRD Natural Resource Coordinator), Mayor Mark Gamba, and Amy Aschenbrenner (City Staff)

1) Welcome and Introductions

**Chair Gunion-Rinker** called the meeting to order and began introductions.

2) Review & Approve December 2015 Minutes

**Member Blue** moved to approve the minutes, **Member Craig** seconded; motion passed unanimously.

3) NCPRD DAB Meeting

It was decided this item would be discussed at the end of the meeting.

4) Tree City USA/Tree Ordinance/Tree Lists Update

**Mr. Nieman** explained the review process the ordinance had been through; the latest was that PARB had received comments from the City Attorney. The subcommittee would meet after this meeting and review the comments, and then the ordinance would be ready. Mr. Nieman hoped to present it to City Council during the February 16<sup>th</sup> meeting. If there were no issues, he explained, the ordinance would go forward to a Council meeting in March for adoption.

**Secretary Willett Holcomb** had a question regarding one position on the Tree Board going to a non-resident. **Member Craig** noted he was a resident and had interest in the position. **Secretary Willett Holcomb** noted that having such a position would provide good flexibility in the future. **Mr. Nieman** clarified that the wording stated for at least four of the five members of the Tree Board to be residents. The group was okay with that wording.

**Mr. Nieman** discussed the tree list, noting that the focus had been on getting the ordinance adopted first, and then the group would work on the tree list.

**Secretary Willett Holcomb** noted it might be easier to distinguish which trees not to plant, instead of listing what was allowed, since it was such a long list. She suggested providing a 1-page short list or cheat sheet for the public. From an uneducated eye, the list looked overwhelming.

**Mr. Nieman** noted that the tree list on the City website was 6 pages.

**Member Johnson** observed it was easy for him to navigate the list, since he had experience dealing with

similar lists, but did add that there were a lot of trees on Milwaukie's list.

**Member Craig** explained that there needed to be a clear idea of what the City wanted in terms of an urban forest. It was important to know currently how many trees were in the right of way, and added that a tree survey should be done to get an idea and help narrow the list. It was also important to look at the list of trees versus the availability. **Mr. Nieman** added that the neonicotinoid ban was coming up.

**Member Blue** added that she had no idea where her house would fall, as it was hard to know the right of way based on the lack of sidewalks.

**Secretary Willett Holcomb** said it would be good to have criteria in mind for desired trees in the City. She wanted clear criteria that would be in place if someone repealed to the board for a certain tree, that way the board could look at the request objectively.

**Member Craig** noted that few native trees would fit in the right of way. The tree list was comprehensive, but would likely shrink down once the City had an idea of what it wanted in its tree canopy. He explained first steps included doing a tree survey and looking at topographical photos.

The group talked about topographical mapping and noted this item could be added to a future meeting.

#### 5) Arbor Day/Week Celebration

The group discussed a possible Arbor Day celebration this year, in relation to the fact that the City was trying to achieve Tree City USA status.

**Mr. Nieman** discussed ideas of combining Earth Day with Arbor Day. The City was moving forward with an Earth Day celebration, which would include the bike/pedestrian bridge opening. Since it would all be in the same area, an Arbor Day/tree celebration could be included as well.

The group discussed pros and cons of having a separate or combined Arbor Day event. They also discussed planting native trees during the undesired time of year. Finally, the group discussed if the City needed to have an Arbor Day celebration before applying to Tree City USA.

**Ms. Burns** noted that NCPRD was still working on Spring Park as a priority, and needed a lot of volunteer hours. She wondered if it could be spun that the City was caring for and maintaining plants that were previously planted.

**Secretary Willett Holcomb** said if an Arbor Day celebration was required, then it needed to happen. If not, a big launch and celebration could be planned for next year.

**Mr. Nieman** would see what the Tree City USA requirements were. He added that he was going to Council on February 16<sup>th</sup> to update them on Earth Day plans.

**Member Johnson** wondered if the event could include a tree sale.

**Vice Chair Lisa Lashbrook** explained that education was important, and wanted to make an important event that was not rushed.

**Member Craig** said it would be good to get Oregon Community Trees involved, especially Kristin Ramstad.

**Mayor Gamba** summarized that if an Arbor Day celebration was required before applying to Tree City

USA, the City could plant a celebratory tree. Otherwise, the big day and celebration would be next year. The group discussed the fact that ideal planting season was during November, December, and January.

#### 6) Riverfront Park Flooding/Landscaping/Geese

**Mr. Nieman** reported that the City engineer would give a report on the bridge to Council at the February 2, 2016, Council meeting. Mr. Nieman had been in touch with the Oregon Marine Board about the closure.

**Mayor Gamba** talked to the City engineer, and reported that the borings showed there was not good soil anywhere near the current footings of the bridge. It could last a year or two, but more likely would need to be replaced with a new bridge with footings farther back in better soil.

**Mr. Nieman** reported that the work of the Geese Guys to mitigate the problem was going well and that the planting plan was on hold because that area of the park had been washed away.

**Mayor Gamba** asked about plantings in the open field related to the geese experts' recommendations.

**Mr. Nieman** explained that PARB's planting plan was related to funding and geese access from the water.

The group discussed different ideas of modifying the park with the funds available and different ways to approach multiple goals. **Ms. Burns** noted the multiple needs and explained the importance of focusing on the different strategies and goals. She talked about the communication problem between the Riverfront Task Force (RTF), PARB, and other interests involved.

The group discussed the communication problems between RTF and the short and long term goals related to plantings and geese management.

**Ms. Burns** talked about the importance of identifying clear objectives from the top, organizing time to accomplish the goals, and then as a team finding out what needed to be done to accomplish the plans. It was vital that everyone knew the goals and the timeline. She discussed NCPRD's involvement and the willingness to work on whichever goals were deemed top priority.

**Secretary Willett Holcomb** identified it as a systems problem. There were too many people who owned interests and it was confusing.

**Mr. Nieman** and **Mayor Gamba** discussed ideas and approaches for Riverfront Park.

**Member Blue** stated that all parties should sit together.

**Ms. Burns** discussed the requirements that come with having NCPRD involved in a particular project and in a partnership as a whole.

**Chair Gunion-Rinker** summarized that these discussions were a microcosm of the greater issues.

**Member Johnson** was happy to have a rough draft of an open space plantings plan ready to take to the RTF meeting later this month, and would bring it to the PARB meeting afterwards.

**Ms. Burns** returned to the Earth Day discussion and noted that once NCPRD went into an area, they had a long-term commitment to that area. Otherwise you lost ground. She reiterated that intention and priorities were critical. She reported that Spring Park and Riverfront Park were the highest priorities for

NCPRD. Dogwood Park and Kronberg Park would be the next emergency priority. NPCRD needed help understanding priorities to have intention; otherwise, they get pulled to other priorities. She was asking for help so that NCPRD and the District Advisory Board (DAB) knew the priorities.

7) 501(c)3 Parks Foundation

**Chair Gunion-Rinker** explained that the subcommittee had not yet had a first meeting.

**Ms. Burns** noted that Oregon City just started a foundation; she would give Chair Gunion-Rinker the contact information.

The group discussed that the subcommittee consisted of Treasurer Sharp, Vice Chair Lisa Lashbrook, Member Blue, and Secretary Willett Holcomb to help with 501(c)3 details. **Mr. Nieman** would confirm the list of subcommittee members and send out an email to help set up a meeting time.

8) NCPRD Update

**Ms. Burns** summarized Spring Park had a great planting event, with 1800 plants planted. Another event was scheduled on February 13<sup>th</sup> from 9 to 1pm. NCPRD was also working on the interpretive sign and then the park will be ready for a grand opening. NCPRD was thinking Earth Day may be a good time for that, but it was still under consideration and they would work with the City.

**Ms. Burns** also reported that there was a special DAB session which focused on the Happy Valley issues. It sounded like the groups were possibly moving towards a resolution to the issue between Happy Valley and NCPRD. **Mr. Nieman** noted he would send the memo from Happy Valley out to PARB.

**Ms. Burns** noted that NCPRD was going into budget season, another reason it was important to prioritize items, for grant purposes.

9) Council/PARB Goals

It was decided that this topic would be first on the agenda during the next meeting.

10) Member News/Reports

None.

11) Adjournment – A motion to adjourn was made by **Vice Chair Lisa Lashbrook**, with a second by **Member Blue**. The meeting was adjourned at 9:10am.

Prepared by: Amy Aschenbrenner, City staff



MILWAUKIE CITY COUNCIL  
**STAFF REPORT**

Agenda Item: **SS 4.**  
Meeting Date: **Feb. 18, 2016**

To: Mayor and City Council  
From: Mitch Nieman, Asst. to City Manager  
Through: Bill Monahan, City Manager

Subject: **Draft Tree Ordinance**

Date: **02/09/2016**

**ACTION REQUESTED**

Review and comment on draft tree ordinance.

**HISTORY OF PRIOR ACTIONS AND DISCUSSIONS**

On August 4, 2015, the Milwaukie Parks and Recreation Board (PARB) informed City Council that they were working on updating the City's tree ordinance to achieve Tree City USA recognition.

**BACKGROUND**

Members of PARB, City Staff, the City Attorney's Office, and representatives from the State of Oregon Department of Forestry have been working in unison to create an ordinance that meets Tree City USA application guidelines for future designation. Staff and PARB intend to make application in fall 2016.

Major details of this amendment include:

- It only applies to public rights-of-way and to city-owned properties
- It triggers establishment of a City Tree Board for technical oversight
- It clarifies the role of the permitting department (engineering)
- It establishes professional planting standards and tree designations

Over 30 redlined versions of the existing ordinance were compiled by multiple stakeholders to create this draft. Therefore, no final redlined version exists, so the attached draft includes yellow highlights to represent language added, and the attached original includes blue highlights to represent language deleted.

Also, current tree lists are outdated and disorganized, so PARB has been working with staff to update lists to make them more modern and user friendly and to coincide with the subject amendment. Tree lists are approved by the engineering director and are tied to issuance of the permit—not referenced in the ordinance.

## **FISCAL AND WORK LOAD IMPACTS**

Financial and work load impacts of achieving this goal involves a combination of paid staff time, unpaid volunteer time, and approximately 20 hours of City Attorney time to prepare materials and/or correspondence for Council consideration, and any required follow-up action.

## **ALTERNATIVES**

1. Review and provide feedback
2. Direct staff to place on a future agenda for first public hearing

## **ATTACHMENTS**

1. Draft ordinance (yellow highlights represents proposed language)
2. Original ordinance (blue highlights represents deleted language)

## CHAPTER 16.32 TREE CUTTING

### 16.32.005 PURPOSE

The purpose of this chapter is to encourage preservation of trees located on city-owned land and in the public right-of-way toward the larger goal of creating and maintaining Milwaukee's urban forest for the livability of its citizens. Trees on city-owned land and in the public right-of-way are a public resource that beautify the streetscape and provide ecosystem services such as reducing the urban heat island effect, reducing stormwater flows, and stabilizing soils. The City may allow the removal or pruning of trees in some situations including, but not limited to, removing hazards, avoiding damage to public and private property, and allowing for construction of right-of-way improvements. Preference should generally be given to authorizing the minimal amount of disturbance to the tree that is necessary to address the situation. The intent of this chapter is also to mitigate the authorized removal of trees within the public right-of-way and on city-owned land by replanting new trees in the public right-of-way and on city-owned land wherever practicable. (Ord. 2022 § 1, 2011).

### 16.32.010 DEFINITIONS

The following definitions shall apply for terminology, used in this chapter:

“ANSI” The American National Standards Institute is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States.

“Arbor Day/Week” means a day/week designated by the City to celebrate and acknowledge the importance of trees in the urban environment, which can include a variety of public activities such as tree planting or tree maintenance.

“Crown” means area of the tree above the ground, including the trunk and branches, measured in mass or volume.

“City” means the City of Milwaukee.

“City Tree Board” means the City of Milwaukee Park and Recreation Board (Board) plus a certified arborist to be selected by the City Council, or a separate City Tree Board (including a certified arborist) appointed by the Mayor and approved by City Council.

“Council of Tree and Landscape Appraisers (CTLA)” – means the publishers of the Guide for Plant Appraisal.

“Cutting” means the felling or removal of a tree, or any procedure that naturally results in the death or substantial destruction of a tree. “Cutting” does not include normal trimming or pruning, but does include topping of trees.

“Dangerous tree” means the condition of the tree presents a foreseeable danger of inflicting damage that cannot be alleviated by treatment or pruning. A tree may be dangerous because it is likely to injure people or damage vehicles, structures, or development, such as sidewalks or utilities.

“Dead tree” means the tree is lifeless.



“Drip line” means the perimeter measured at the outermost crown.

“Dying tree” means the tree is diseased, infested by insects, deteriorating, or rotting, and cannot be saved by reasonable treatment or pruning, or must be removed to prevent the spread of infestation or disease to other trees.

“Engineering Director” means the Engineering Director of the City of Milwaukie or his or her designee.

“Hazardous tree” means the condition or location of the tree presents a clear public safety hazard or an imminent danger of property damage, and such hazard or danger cannot reasonably be alleviated by treatment or pruning.

“ISA” means the International Society of Arboriculture.

“Large trees” means trees that reach at least 65 feet in height at maturity.

“Major tree pruning” means removal of over 20% of the tree’s crown, or removal or injury of over 10% of the root system, during any 12-month period.

“Medium trees” means trees that at maturity are between 30 and 65 feet in height.

“Minor Tree Pruning” means trimming or removing less than 20% of any part of the branching structure of a tree in either the crown, trunk, or less than 10% of the root areas based on ANSI A300 and ANSI Z133 standards, within a 12-month period.

“Owner” means and includes, for the purposes of this chapter, any person with a freehold interest in land, or a lessee, agent, employee, or other person acting on behalf of the owner with the owner’s consent.

“Park Trees” are defined as trees, shrubs, bushes and other woody vegetation in named public parks or to which the public has free access as a park.

“Person” means any individual, firm, association, corporation, agency, or organization of any kind.

“Relative Value.” Relative value may be calculated using the methods described in the “Guide for Plant Appraisal” published by the CTLA. The values reflect the value to the public as a whole, rather than to the individual property owner. For example, a tree growing in full public view may have a high public value but be of low value to the property owner.

“Root zone” means the area of the ground around the base of the tree measured from the trunk to 5 feet beyond the outer base of the branching system.

“Small trees” are those that at maturity are less than 30 feet in height.

“Street tree” is defined as trees, shrubs, bushes and other woody vegetation on land lying within the City right-of-way on either side of all streets, avenues, or ways within the City and on all non-park properties owned or maintained by the City.

“Tree Removal” means the cutting or removing of 50% or more of the crown, trunk, or root system of a plant; the uprooting or severing of the main trunk of the tree; or any act which causes, or may reasonably be expected to cause, the tree to die, including without limitation damage inflicted upon the root system by machinery, storage materials, or soil compaction;

substantially changing the natural grade above the root system or around the trunk; excessive pruning; or paving with concrete, asphalt, or other impervious materials in a manner which may result in the loss of aesthetic or physiological viability.

“Topping” means the severe cutting back of the main stem and/or limbs to buds, stubs, or laterals large enough to undermine the tree’s crown to such a degree as to remove the normal crown and disfigure the tree.

“Tree” means any living woody plant characterized by one main stem or trunk and many branches, or a multistemmed trunk system with a definitely formed crown at least 16 feet in height at maturity. (Ord. 1836 § 1 (part), 1998)

“Urban Forest” means the trees that exist within the City.

“Utility Tree” means a tree that is less than 20 feet in height at maturity and thus suitable for planting under overhead utility lines.

### **16.32.015 CREATION AND ESTABLISHMENT OF A CITY TREE BOARD**

#### **A. Creation**

There is hereby created and established a City Tree Board (Tree Board) for the City of Milwaukie, Oregon, which shall consist of five members, at least four of which shall be residents of the City, and all five of which shall be appointed by the Mayor with approval of the City Council. The Tree Board may consist of the City of Milwaukie Parks and Recreation Board plus a certified arborist.

#### **B. Term of Office**

The term of the five persons to be appointed by the Mayor shall be three years except that the term of two of the members appointed to the first board shall be for only one year and the term of two members of the first board shall be for two years. In the event that a vacancy shall occur during the term of any member, his successor shall be appointed for the unexpired portion of the term. Tree Board members shall be limited to three consecutive terms.

#### **C. Compensation**

Members of the Tree Board shall serve without compensation.

#### **D. Duties and Responsibilities**

It shall be the responsibility of the Tree Board to study, investigate, develop and/or update annually, and administer a written plan for the care, preservation, pruning, planting, replanting, removal or disposition of trees and shrubs in parks, along streets and in other public areas. Such plan will be presented annually to the City Council and upon their acceptance and approval shall constitute the official urban forestry management plan for the City of Milwaukie, Oregon. The Tree Board will provide leadership in planning the City’s Arbor Day/Week proclamation and celebration.

The Tree Board, when requested by the City Council, shall consider, investigate, make findings, report and recommend upon any special matter or question coming within the scope of its work. The Tree Board shall inform and coordinate with the North Clackamas Park and Recreation District (NCPRD) or the City of Milwaukie to ensure that the provisions of this ordinance are complied with during performance of maintenance activities.

### **E. Operation**

The Tree Board shall choose its own officers, make its own rules and regulations and keep a journal of its proceedings. A majority of the members shall be a quorum for the transaction of business.

## **16.32.017 TREE PLANTING**

### **A. Species**

Tree species to be planted on city-owned land or in public rights of way are those approved by the Engineering Department of the City for different types of planting in those specified locations.

### **B. Spacing**

The spacing of Street Trees will be in accordance with the permit issued by the Engineering Department and in accordance with Department standards and specifications. Spacing will be determined in the planting plan for each site as determined by the City's Public Works Standards. In addition, the Engineering Director may approve special plantings designed or approved by a landscape architect, or for ecological restoration projects where seedlings or whips are likely to be planted at a much higher density to mimic natural conditions in forest regeneration.

### **C. Distance from Curb and Sidewalk**

The City's Public Works Standards shall provide the distance from which small, medium, and large trees may be planted from curbs or curblines and sidewalks

### **D. Distance from Street Corners and Fire Hydrants**

No Street Tree shall be planted closer than 35 feet from any street corner, measured from the point of nearest intersecting curbs or curblines. No Street Tree shall be planted closer than 10 feet from any fire hydrant.

### **E. Utilities**

No Utility Trees other than those species listed in in the City's Public Works Standards may be planted under or within 10 lateral feet of any overhead utility wire, or over or within 5 lateral feet of any underground water line, sewer line, transmission line or other utility.

### **F. Size**

Street trees must meet the size requirements set forth in the City's Public Works Standards for utility, small, medium, and large trees, based on the tree's size at maturity.

### **16.32.018 PUBLIC TREE CARE**

The City shall have the right to plant, prune, maintain and remove trees, plants and shrubs within the property lines of all streets, alleys, avenues, lanes, squares and public grounds, as may be necessary to ensure public safety or to preserve or enhance the symmetry and beauty of such public grounds.

The City Tree Board may remove or cause or order to be removed, any tree or part thereof which is in an unsafe condition or which by reason of its nature is injurious to sewers, electric power lines, gas lines, water lines, or other public improvements, or is affected with any injurious fungus, insect or other pest. This Section does not prohibit the planting of Street Trees by property owners adjacent to the street or right-of-way, provided that the selection and location of said trees is in accordance with Section 16.32.017 of this ordinance.

### **16.32.019 TREE TOPPING**

No person, firm, or City department shall top any Street Tree, Park Tree, or other tree on public property. Trees severely damaged by storms or other causes, or certain trees under utility wires or other obstructions where other pruning practices are impractical, may be exempted from this ordinance at the determination of the City Tree Board.

### **16.32.020 PRUNING, CORNER CLEARANCE**

Pursuant to Milwaukie Municipal Code 12.12.010, every owner of any tree overhanging any street or right-of-way within the City shall prune the branches so that such branches shall not obstruct the right of way. Enforcement of this section shall be pursuant to MMC 12.12 and compliant with ISA Best Management Practices (BMPs).

### **16.32.021 DEAD OR DISEASED TREE REMOVAL ON PRIVATE PROPERTY**

Owner shall remove all dead, diseased or dangerous trees, or broken or decayed limbs which may pose a significant risk to the safety of the public. If owner fails to do so, City shall have the right to cause the removal of such trees. The City Tree Board will notify, in writing, the owners of such trees. Removal shall be done by said owners at their own expense within sixty days after the date of service of notice. After removal is complete, the property owners shall notify the City in writing. In the event of failure of owners to comply with such provisions, the City shall have the authority to remove such trees and charge the cost of removal to the owners pursuant to MMC 8.04. In cases where the owner demonstrates extreme financial hardship, the City Council may grant a cost waiver. Some dead trees which provide wildlife habitat and are not a hazard may be left uncut.

### **16.32.022 REMOVAL OF STUMPS**

All stumps of street and park trees shall be removed below the surface of the ground so that the top of the stump shall not project above the surface of the ground, except for circumstances where the stumps do not pose a hazard to the public and may be left to improve wildlife habitat structure.

### **16.32.023 INTERFERENCE WITH CITY TREE BOARD**

No person shall prevent, delay or interfere with the City Tree Board, or any of its agents, while engaging in and about the planting, cultivating, mulching, pruning, spraying, or removing of any Street Trees, Park Trees, or trees on private grounds, as authorized in this ordinance.

#### **16.32.024 ARBORISTS LICENSE AND BOND**

All certified arborists operating in the City of Milwaukie shall be ISA-certified.

#### **16.32.025 REVIEW BY CITY COUNCIL**

The City Council shall have the right to review the conduct, acts and decisions of the Tree Board. Any person may appeal from any ruling or order of the Tree Board to the City Council who may hear the matter and make a final decision.

#### **16.32.026 PERMIT FOR MAJOR PRUNING OR REMOVAL OF STREET TREES OR TREES IN PUBLIC RIGHT-OF-WAY AND OTHER PUBLIC LAND**

##### **A. Applicability**

No person shall conduct major pruning or removal of any tree in a public right-of-way or on city-owned land, without first receiving a permit issued by the City, except as provided in chapter 16.32.030. Minor tree pruning shall not require a permit.

##### **B. Review Process**

1. A permit application for major pruning or tree removal shall be submitted to the Engineering Department on a Right of Way Permit Application.
2. The Engineering Department shall post notice of the major pruning or removal permit application on the property in a location which is clearly visible to vehicles traveling on a public street and readable by pedestrians walking by the property.
3. The notice shall state that the tree removal permit is pending for trees on the property marked by an orange plastic tagging tape, shall include the date of posting, and shall state that any person may request a meeting with the Engineering Director within 14 days of the date of the posting. The purpose of the meeting is to provide an opportunity to raise questions or concerns about the major pruning or removal prior to issuance of the administrative decision on the permit. The Engineering Director shall consider all concerns raised at such a meeting, but shall have final decision making authority over the issuance of a permit, based on the Approval Standards in Subsection C below.
4. The Engineering Department shall mark each tree proposed to be removed by tying or attaching orange plastic tagging tape to the tree 4 to 6 feet above mean ground level at the base of the trunk.
5. On the date that the tree removal notice is posted on the property, the Engineering Department shall send a letter to the neighborhood district association for the area, to notify the association of the major pruning or removal request.
6. The applicant shall file an affidavit stating that the property has been posted, the trees have been marked, and notice has been mailed pursuant to Section 16.32.026 or subsection 16.32.026.B.

7. The major pruning or tree removal permit shall not be issued for 14 days from the date of filing of the affidavit to allow for the filing of a request for a meeting. The applicant shall maintain the posting and marking for the full 14 days. When a meeting with the **Engineering Director** is requested, the **Engineering Director** shall not issue the permit decision until the meeting can be held.

### C. Approval Standards

The **Engineering Director** shall issue a permit for major pruning or removal of trees in a right-of-way **or on city-owned land** only if the following criteria are satisfied. The **Engineering Director** will consult a certified arborist where necessary to evaluate the criteria.

1. The proposed work will be done according to ISA **best management practices**, and qualified persons will perform the work.
2. **One** or more of the following criteria are satisfied:
  - a. It is determined that the tree is dead or dying and cannot be saved, according to current ISA standards.
  - b. The tree has become a nuisance by virtue of damage to personal property or improvements, either public or private, on the subject site or adjacent sites, and that extraordinary maintenance is required to prevent damage to such improvements or property.
  - c. The tree has lost its relative value as a street tree due to damage from natural or accidental causes, or for some other reason it can be established that it should be removed.
  - d. The tree has been determined to be unsafe to the occupants of the property, or adjacent property, or the general public.
  - e. Major pruning or removal is necessary to accommodate improvements in the right-of-way **or on city-owned land**, and it is not practicable to modify the proposed improvements to avoid major pruning or removal.

### D. Performance of Permitted Work

All work performed on street trees pursuant to a permit issued by the **Engineering Director** under this section shall be done within a 60-day period from the issuance of said permit, or within a longer period as specified by the **Engineering Director**.

### E. Replanting

The **Engineering Director** shall, **wherever practicable**, require tree replanting as a condition of approval for a major pruning or removal permit **on city-owned land** or in public rights of way. **For major pruning or removal of trees in the public rights of way, replanted trees shall be planted within the right-of-way fronting the property for which the tree permit was issued. For major pruning or removal of trees on city-owned land, replanted trees shall be planted on city-owned land for which the tree permit was issued.** The replanted tree shall be a species appropriate for the location where it is planted, as determined by the **Engineering Director, in conjunction with the issued permit and in compliance with applicable ANSI standards and ISA best management practices.** In addition to the tree maintenance requirements of **Milwaukie Municipal Code Chapter 8.04.110**, the abutting property owner shall be responsible for maintaining a replanted tree in a healthy condition for 3 years following replanting. (Ord. 2022 § 1, 2011; Ord. 1836 § 1 (part), 1998).

The optimal time of year for planting is the fall (September-November). If planting is necessary in other months, the Engineering Director may include conditions of the permit that require extra measures to ensure survival of newly planted trees.

#### **16.32.030 PERMIT EXEMPTIONS**

##### **A. Dangerous Tree**

If a tree is determined to be a dangerous tree, the Engineering Director may issue an emergency removal permit. The removal shall be in accordance with ANSI standards and ISA best management practices and be the minimum necessary to eliminate the imminent danger.

##### **B. Maintenance**

Regular maintenance or minor pruning which does not require removal of over 20% of the tree's crown, tree topping, or disturbance of over 10% of the root system during any 12-month period.

##### **C. Non-City Owned Land**

Tree cutting anywhere except in a public right-of-way or on city-owned land. (Ord. 2022 § 1, 2011; Ord. 1836 § 1, 1998)

#### **16.32.040 PENALTY**

Except where otherwise provided, any person, firm, or corporation violating any of the provisions of this chapter shall, upon conviction thereof, be punished by a fine not to exceed one thousand dollars (\$1,000.00). (Ord. 2022 § 1, 2011).



### CHAPTER 16.32 TREE CUTTING

#### 16.32.005 PURPOSE

The purpose of this chapter is to encourage preservation of trees located in the public right-of-way. Trees within the public right-of-way are a public resource that beautify the streetscape and provide ecosystem services such as reducing the urban heat island effect, reducing stormwater flows, and stabilizing soils. The City may allow the removal or pruning of trees in some situations including, but not limited to, removing hazards, avoiding damage to public and private property, and allowing for construction of right-of-way improvements. Preference should generally be given to authorizing the minimal amount of disturbance to the tree that is necessary to address the situation. The intent of this chapter is also to mitigate the authorized removal of trees within the public right-of-way by replanting new trees in the public right-of-way wherever practicable. (Ord. 2022 § 1, 2011)

#### 16.32.010 DEFINITIONS

The following definitions shall apply for terminology, used in this chapter:

“Canopy” means area of the tree above the ground, including the trunk and branches, measured in mass or volume.

“City” means the City of Milwaukee.

“Cutting” means the falling or removal of a tree, or any procedure that naturally results in the death or substantial destruction of a tree. “Cutting” does not include normal trimming or pruning, but does include topping of trees.

“Dangerous tree” means the condition or location of the tree presents a clear public safety hazard or an imminent danger of property damage, and such hazard or danger cannot reasonably be alleviated by treatment or pruning.

“Dead tree” means the tree is lifeless.

“Drip line” means the perimeter measured at the outermost canopy.

“Dying tree” means the tree is diseased, infested by insects, deteriorating, or rotting, and cannot be saved by reasonable treatment or pruning, or must be removed to prevent the spread of infestation or disease to other trees.

“ISA” means the International Society of Arboriculture.

“Major pruning” means removal of over 20% of the tree’s canopy, or injury or cutting of over 10% of the root system, during any 12-month period.

“Owner” means and includes, for the purposes of this chapter, any person with a freehold interest in land, or a lessee, agent, employee, or other person acting on behalf of the owner with the owner’s consent.

“Person” means any individual, firm, association, corporation, agency, or organization of any kind.

“Pruning” means trimming or removing any part of the branching structure of a plant in either the crown, trunk, or root areas based on standards of the ISA.

“Relative Value.” Relative value may be calculated using the methods described in the ISA’s “Guide for Plant Appraisal.” The values reflect the value to the public as a whole, rather than to

the individual property owner. For example, a tree growing in full public view may have a high public value but be of low value to the property owner.

“Removal” means the cutting or removing of 50% or more of the crown, trunk, or root system of a plant; the uprooting or severing of the main trunk of the tree; or any act which causes, or may reasonably be expected to cause, the tree to die, including without limitation damage inflicted upon the root system by machinery, storage materials, or soil compaction; substantially changing the natural grade above the root system or around the trunk; excessive pruning; or paving with concrete, asphalt, or other impervious materials in a manner which may result in the loss of aesthetic or physiological viability.

“Root zone” means the area of the ground around the base of the tree measured from the trunk to 5 feet beyond the outer base of the branching system.

“Street tree” means any tree located within a street right-of-way.

“Topping” means the severe cutting back of the main stem and/or limbs to buds, stubs, or laterals large enough to assure terminal role within the tree’s crown to such a degree as to remove the normal canopy and disfigure the tree.

“Tree” means any living woody plant characterized by 1 main stem or trunk and many branches, or a multistemmed trunk system with a definitely formed crown. (Ord. 1836 § 1, 1998)

### **16.32.020 PERMIT FOR MAJOR PRUNING OR REMOVAL OF STREET TREES OR TREES IN PUBLIC RIGHT-OF-WAY**

#### A. Applicability

No person shall conduct major pruning or removal of any tree in a public right-of-way, without first receiving a permit issued by the City. Tree pruning, as defined in this chapter, shall not require a permit.

#### B. Review Process

1. A permit application for major pruning or tree removal shall be submitted to the Planning Department on forms provided by the Community Development Director.
2. The applicant shall post notice of the major pruning or removal permit application on the property in a location which is clearly visible to vehicles traveling on a public street and readable by pedestrians walking by the property.
3. The notice shall state that the tree removal permit is pending for trees on the property marked by a yellow plastic tagging tape, shall include the date of posting, and shall state that any person may request a meeting with the Community Development Director within 14 days of the date of the posting. The purpose of the meeting is to provide an opportunity to raise questions or concerns about the major pruning or removal prior to issuance of the administrative decision on the permit.
4. The applicant shall mark each tree proposed to be removed by tying or attaching yellow plastic tagging tape to the tree 4 to 6 feet above mean ground level at the base of the trunk.
5. On the date that the property is posted, the applicant shall send a letter to the neighborhood district association for the area, to notify the association of the major pruning or removal request.

6. The applicant shall file an affidavit stating that the property has been posted, the trees have been marked, and notice has been mailed pursuant to Section 16.32.020 or subsection 16.32.020.B.

7. The major pruning or tree removal permit shall not be issued for 14 days from the date of filing of the affidavit to allow for the filing of a request for a meeting. The applicant shall maintain the posting and marking for the full 14 days. When a meeting with the Community Development Director is requested, the Community Development Director shall not issue the permit decision until the meeting can be held.

#### C. Approval Standards

The Community Development Director shall issue a permit for major pruning or removal of trees in a right-of-way, only if the following criteria are satisfied. The Community Development Director will consult a certified arborist where necessary to evaluate the criteria.

1. The proposed work will be done according to ISA standards, and qualified persons will perform the work.
2. 1 or more of the following criteria are satisfied:
  - a. It is determined that the tree is dead or dying and cannot be saved, according to current ISA standards.
  - b. The tree has become a nuisance by virtue of damage to personal property or improvements, either public or private, on the subject site or adjacent sites, and that extraordinary maintenance is required to prevent damage to such improvements or property.
  - c. The tree has lost its relative value as a street tree due to damage from natural or accidental causes, or for some other reason it can be established that it should be removed.
  - d. The tree has been determined to be unsafe to the occupants of the property, or adjacent property, or the general public.
  - e. Major pruning or removal is necessary to accommodate improvements in the right-of-way, and it is not practicable to modify the proposed improvements to avoid major pruning or removal.

D. All work performed on street trees pursuant to a permit issued by the Community Development Director under this section shall be done within a 60-day period from the issuance of said permit, or within a longer period as specified by the Community Development Director.

E. The Community Development Director shall require tree replanting as a condition of approval for a major pruning or removal permit wherever practicable. Replanted trees shall be planted within the right-of-way fronting the property for which the tree permit was issued. The replanted tree shall be a species appropriate for the location where it is planted, as determined by the Community Development Director. In addition to the tree maintenance requirements of Section 8.04.110, the abutting property owner shall be responsible for maintaining a replanted tree in a healthy condition for 3 years following replanting. (Ord. 2022 § 1, 2011; Ord. 1836 § 1, 1998)

### **16.32.030 PERMIT EXEMPTIONS**

#### **A. Dangerous Tree**

If a tree is determined to be a dangerous tree, the **Community Development Director** may issue an emergency removal permit. The removal shall be in accordance with **the ISA standards** and be the minimum necessary to eliminate the imminent danger.

#### **B. Maintenance**

Regular maintenance or pruning which does not require removal of over 20% of the tree's **canopy**, tree topping, or disturbance of over 10% of the root system during any 12-month period.

C. Tree cutting anywhere **but in a public right-of-way**. (Ord. 2022 § 1, 2011; Ord. 1836 § 1, 1998)

### **16.32.040 PENALTY**

Any person, firm, or corporation violating any of the provisions of this chapter shall, upon conviction thereof, be punished by a fine not to exceed one thousand dollars (\$1,000.00). (Ord. 2022 § 1, 2011)



# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## 2-1/2 to 3 foot Planting Strip - With or Without Overhead Power Lines

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Bigleaf Snowbell Tree	<i>Styrax obassia</i>	Slender tree with very large leaves that are dull, fuzzy, and rounded. Drooping white flower clusters 4-8" long.	35'	25'
Blireiana Plum	<i>Prunus x blireiana</i>	Globe-shaped habit. Foliage is reddish purple or green turning reddish-bronze in fall. Bright pink flower.	20'	20'
Blood Good Japanese Maple	<i>Acer palmatum</i> 'Blood Good'	Upright and round in habit. Bronze-purple foliage turns orange-red in fall.	18'	18'
Butterfly Japanese Maple	<i>Acer palmatum</i> 'Butterfly'	Stiffly upright in habit - variegated cream and light green foliage - magenta tint in fall.	12'	6'
Centurion Crab	<i>Malus</i> 'Centurion'	Oval habit. Purple to bronze foliage in summer. Flower is rose-red. Bright red fruit.	20'	15'
Columnar Goldenrain	<i>Koelreuteria paniculata</i> 'Fastigiata'	Columnar habit. Green leaves. Yellow flowers and fall color.	30'	6'
Columnar Siberian Crab	<i>Malus baccata</i> 'Columnaris'	Columnar habit. White flower, yellow-red fruit.	30'	10'
Crimson Cloud Hawthorn	<i>Crataegus laevigata</i> 'Crimson Cloud'	Oval habit. Glossy green leaves. Bright red flower with white center. Bright red fruit.	25'	18'
Japanese Snowbell	<i>Styrax japonicus</i>	Rounded shape. Covered in June with pure white, bell-shaped flowers. Beautiful small tree.	25'	25'
Japanese Tree Lilac	<i>Syringa reticulata</i>	Pyramidal in habit. White floral clusters. Yellow-brown fruit.	25'	20'
Prairifire Crabapple	<i>Malus</i> "Prairifire"	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Red Barron Crab	<i>Malus</i> 'Red Barron'	Columnar habit. Reddish-purple leaves becoming bronze-green. Dark red flower. Dark red, 1/2" fruit.	18'	8'
Rocky Mountain Glow Maple	<i>Acer grandidentatum</i> 'Schmidt'	Oval habit. Dark green foliage turns bright red in fall.	25'	15'
Sango Kaku Japanese Maple	<i>Acer palmatum</i> 'Sango Kaku'	Upright habit with bright medium green foliage and gold fall color.	18'	14'
Tschonoski Crab	<i>Malus tschonoskii</i>	Oval habit. Dark green foliage turns orange, red and purple in fall. Sparse yellow-green fruit.	30'	15'



# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## 3 to 3-1/2 foot Planting Strip - With or Without Overhead Power Lines

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Amur Maple	<i>Acer ginnala</i>	Globe-shaped habit. Green foliage turns yellow, orange or red in fall.	20'	20'
Autumn Brilliance Serviceberry	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Upright, moderately spreading habit. Bright red fall color. White flower clusters in spring.	20'	15'
Blood Good Japanese Maple	<i>Acer palmatum</i> 'Blood Good'	Upright and round in habit - bronze-purple foliage turning orange-red in fall.	18'	18'
Butterfly Japanese Maple	<i>Acer palmatum</i> 'Butterfly'	Stiffly upright in habit - variegated cream and light green foliage - magenta tint in fall.	12'	6'
Columnar Siberian Crab	<i>Malus baccata</i> 'Columnaris'	Columnar habit. White flower, yellow red fruit.	30'	10'
Crimson Sentry Norway Maple	<i>Acer platanoides</i> 'Crimson Sentry'	Oval habit. Foliage is dark purple, becoming maroon and reddish-bronze in fall.	25'	15'
Flowering Ash	<i>Fraxinus ornus</i>	Globe-shaped habit. Green leaves become yellow in fall. Off-white flower is fragrant.	30'	15'
Glorybower Tree	<i>Clerodendrum trichotomum</i>	Globe-shaped habit. Dark green leaves. Fragrant white flower clusters and blue-green fruit.	20'	20'
Goldenchain	<i>Laburnum watereri</i> 'vosii'	Upright or vase-shaped. Green foliage turns to yellow in fall. Long yellow racemes and flowers.	30'	20'
Japanese Snowbell	<i>Styrax japonicus</i>	Rounded shape. Covered in June with pure white, bell-shaped flowers. Beautiful small tree.	25'	25'
Newport Plum	<i>Prunus cerasifera</i> 'Newport'	Globe-shaped habit. Dark purple leaves change to reddish in fall. Flower is light pink. Dull purple fruit.	20'	20'
Paperbark Maple	<i>Acer griseum</i>	Upright, rounded habit. Foliage green with silver undersides, becoming bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Persian Parrotia	<i>Parrotia persica</i>	Low-branching, broadly pyramidal to rounded tree with unusual form and texture. Flowers have showy red stamens and fall color is excellent.	30'	20'
Prairifire Crabapple	<i>Malus</i> "Prairifire"	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Rocky Mountain Glow Maple	<i>Acer grandidentatum</i> 'Schmidt'	Oval habit. Dark green foliage turns bright red in fall.	25'	15'
Sango Kaku Japanese Maple	<i>Acer palmatum</i> 'Sango Kaku'	Upright in habit - bright medium green foliage - gold fall color.	18'	14'
Snowcloud Serviceberry	<i>Amelanchier laevis</i> 'Snowcloud'	Upright oval in habit. Dark green leaves - scarlet in fall. White flower clusters. Blue-purple fruit.	25'	15'
Trident Maple	<i>Acer buergerianum</i>	Oval habit. Dark green foliage turns yellow and orange in fall.	25'	20'
Tschonoski Crab	<i>Malus tschonoskii</i>	Oval habit. Dark green foliage turns orange, red and purple in fall. Sparse yellow-green fruit.	30'	15'



# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## 4 to 5-1/2 foot Planting Strip - With Overhead Power Lines

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Capital Pear	<i>Pyrus calleryana</i> 'Capital'	Columnar habit. Dark green foliage turns orange, red and purple in fall. White floral clusters.	35'	12'
Chinese Dogwood	<i>Cornus kousa chinensis</i>	Globe-shaped habit. Dark green foliage becomes red in fall. White flower and pinkish-red fruit.	25'	25'
Cleveland Select Pear (Chanticleer)	<i>Pyrus calleryana</i> 'Glen's Form'	Upright, pyramidal in habit. Glossy green foliage. White flowers. Purplish-red foliage in fall.	30'	20'
Columnar Norway Maple	<i>Acer platanoides</i> 'Columnar'	Columnar habit. Dark green foliage turns yellow in fall.	35'	15'
Columnar Sargent Cherry	<i>Prunus sargentii</i> 'Columnaris'	Columnar habit. Foliage is shiny, dark green. Orange and red fall color. Deep pink flower.	35'	15'
Edith Bogue Magnolia	<i>Magnolia grandiflora</i> 'Edith Bogue'	Globe-shaped habit. Green foliage turns bright yellow and red in fall.	30'	15'
Flowering Ash	<i>Fraxinus ornus</i>	Globe-shaped habit. Green leaves become yellow in fall. Off-white flower is fragrant.	30'	15'
Golden Desert Ash	<i>Fraxinus excelsior</i> 'Aureaefolia'	Globe-shaped. Outstanding yellow color throughout the year.	25'	20'
Hedge Maple	<i>Acer campestre</i>	Dense, rounded habit. Dark green foliage becomes yellow in fall.	30'	30'
Lavalle Hawthorn	<i>Crataegus x lavallei</i>	More erect and less twiggy growth than other hawthorns. Very handsome, vase-shaped tree.	30'	20'
Newport Plum	<i>Prunus cerasifera</i> 'Newport'	Globe-shaped habit. Dark purple leaves change to reddish in fall. Flower is light pink. Dull purple fruit.	20'	20'
Pacific Sunset Maple	<i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrenred'	Globe-shaped habit. Dark green foliage becomes yellow, orange and red in fall.	30'	25'
Paperbark Maple	<i>Acer griseum</i>	Upright, rounded habit. Foliage green with silver undersides, becoming bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Persian Parrotia	<i>Parrotia persica</i>	Low-branching, broadly pyramidal to rounded tree with unusual form and texture. Flowers have showy red stamens and fall color is excellent.	30'	20'
Prairifire Crabapple	<i>Malus</i> "Prairifire"	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Queen Elizabeth Maple	<i>Acer campestre</i> 'Evelyn'	Oval habit. Dark green foliage turns yellow in fall.	35'	30'
Redspire Pear	<i>Pyrus calleryana</i> 'Redspire'	Pyramidal, dense, and symmetrical with medium green, glossy foliage turning yellow to red in fall. Abundant white flowers.	35'	25'
Saratoga Ginkgo	<i>Ginkgo biloba</i> 'Saratoga'	Extremely free of pests. Very tolerant of pollution and salt. Requires little maintenance. Slow growing and long lived. Yellow fall color.	30'	30'
September Goldenrain	<i>Koelreuteria paniculata</i> 'September'	Globe-shaped habit. Green leaves. Yellow and orange fall color. Yellow flowers.	30'	25'
Variegated Norway Maple	<i>Acer platanoides</i> 'Drummondii'	Globe-shaped habit. Light green leaves have white margins.	35'	25'





# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## 6 to 8 foot Planting Strip - With Overhead Power Lines

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Akebono Flowering Cherry	<i>Prunus x yedoensis</i> 'Akebono'	Upright spreading with bright green foliage. Delicate pink flowers in spring. Yellowish fall color.	25'	25'
American Hophornbeam	<i>Ostrya virginiana</i>	Globe-shaped habit. Yellow fall color.	35'	25'
Black Tupelo	<i>Nyssa sylvatica</i>	Pyramidal when young, spreading and irregular with age. Dark green, glossy foliage. Hot, copper-red fall color.	35'	20'
Canada Red Chokecherry	<i>Prunus virginiana</i> 'Canada Red'	Upright round habit. Foliage green in spring, to dark purple in summer, to reddish in autumn. Small white flowers in long clusters. Red-purple fruit.	25'	20'
Chinese Dogwood	<i>Cornus kousa chinensis</i>	Globe-shaped habit. Dark green foliage becomes red in fall. White flower and pinkish-red fruit.	25'	25'
Cleveland Select Pear (Chanticleer)	<i>Pyrus calleryana</i> 'Glen's Form'	Upright, pyramidal in habit. Glossy green foliage. White flowers. Purplish-red foliage in fall.	30'	20'
Edith Bogue Magnolia	<i>Magnolia grandiflora</i> 'Edith Bogue'	Forms a tight pyramid. Evergreen with glossy, dark green leaves. Large, creamy white flowers.	30'	15'
Globe Norway Maple	<i>Acer platanoides</i> 'Globosum'	Dense, globe-shaped habit. Green foliage turns yellow in fall.	15'	20'
Hedge Maple	<i>Acer campestre</i>	Dense, rounded habit. Dark green foliage turns yellow in fall.	30'	30'
Kwanzan Cherry (on 6' min. graft)	<i>Prunus serrulata</i> 'Kwanzan'	Vase-shaped habit. Dark green foliage becomes bronze or orange in fall. Deep pink flower.	30'	20'
Lavalle Hawthorn	<i>Crataegus x lavallei</i>	More erect and less twiggy growth than other hawthorns. Very handsome, vase-shaped tree.	30'	20'
Pacific Sunset Maple	<i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrenred'	Globe-shaped habit. Dark green foliage becomes yellow, orange and red in fall.	30'	25'
Paperbark Maple	<i>Acer griseum</i>	Upright, rounded habit. Foliage green, silver undersides; bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Queen Elizabeth Maple	<i>Acer campestre</i> 'Evelyn'	Oval habit. Dark green foliage turns yellow in fall.	35'	30'
Raywood Ash	<i>Fraxinus oxycarpa</i> 'Raywood'	Oval with dense crown. Narrow green leaflets, fine textured foliage. Reddish purple fall color. Delicate fine-textured appearance.	35'	25'
Redbud	<i>Cercis canadensis</i>	Globe-shaped habit. Dark green leaves turn yellow in fall. Pink flower. Very shade tolerant. May suffer damage in windstorms.	25'	30'
Redspire Pear	<i>Pyrus calleryana</i> 'Redspire'	Pyramidal, dense, and symmetrical with medium green, glossy foliage turning yellow to red in fall. Abundant white flowers.	35'	25'
Saratoga Ginkgo	<i>Ginkgo biloba</i> 'Saratoga'	Extremely free of pests. Requires little maintenance. Slow growing and long lived. Yellow fall color.	30'	30'
September Goldenrain	<i>Koelreuteria paniculata</i> 'September'	Globe-shaped habit. Green leaves. Yellow and orange fall color. Yellow flowers.	30'	25'
Sourwood	<i>Oxydendrum arboreum</i>	Pyramidal in habit. Dark green leaves turn orange and scarlet in fall. Showy white flowers in summer.	35'	20'
Yellowwood	<i>Cladrastis lutea</i>	Globe-shaped habit. Bright green foliage turns golden-yellow in fall. Fragrant white flower clusters.	40'	40'





# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## Undeveloped Roadside Planting Strip

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Bigleaf Maple	<i>Acer macrophyllum</i>	Broad-topped, dense shade tree. Large 3- to 5-lobed leaves are 6 to 15 inches wide. Small yellow flowers in drooping clusters in April and May. Yellow fall color.	70'	60'
Black Hawthorn	<i>Crataegus douglasii</i> or <i>C. suksdorfii</i>	Medium growth rate. High relocate success. Small seedy fruits are appealing to birds. Often grows in a multi-stemmed form. Clusters of small white flowers appear in the spring.	45'	25'
Cascara	<i>Rhamnus purshiana</i>	Prefers shady, moist conditions. Often grows as understory tree with vine maple and red alder. Small, black berries attract birds. Slow growth rate.	30'	25'
Common Chokecherry	<i>Prunus virginiana</i>	Leaves are 2 to 4 inches long. Flowers in 3- to 6-inch clusters. Astringent red to black fruits. Nice fall color.	25'	20'
Douglas Fir	<i>Pseudotsuga menziesii</i>	Bark smooth and gray when young, becoming thick, furrowed, black to reddish-brown when mature. Flat, evergreen, linear needles one-inch long. Cones have distinctive 3-pointed bracts.	200'	60'
Grand Fir	<i>Abies grandis</i>	One of the largest firs, can grow up to 300 feet. Deep green, 1 to 1-1/2 inch long evergreen needles in two rows along branches; glossy above, white lines beneath.	300'	40'
Madrone	<i>Arbutus</i>	Smooth, reddish brown bark that peels in thin flakes. Leathery 3- to 6-inch long evergreen leaves are shiny dark green on top, dull gray beneath. Red-orange berries in fall.	100'	50'
Oregon Ash	<i>Fraxinus latifolia</i>	Light green leaves, 6-12 inches long. Will grow in standing water during winter months. Needs no dry-season water.	75'	25'
Oregon White Oak	<i>Quercus garryana</i>	Slow to moderate growth. Wide, rounded crown. Branches often twisted.	65'	45'
Ponderosa Pine	<i>Pinus ponderosa</i>	Large-needled evergreen. Thick bark has a reddish color and develops attractive dark furrows with age. Needles grow in clusters of three. Produces a cone 3-6 inches long.	200'	30'
Red Alder	<i>Alnus rubra</i>	Attractive smooth, light gray bark. Dark green, 2- to 4-inch leaves which are rust colored and hairy beneath. Very tolerant of brackish water.	100'	40'
Silver Fir	<i>Abies amabilis</i>	Pyramidal in habit. Needs lots of room to grow. Dark green evergreen needles, silvery underneath, curve upward along the branches.	50'	40'
Western Flowering Dogwood	<i>Cornus nuttallii</i>	Gray-barked branches grow in horizontal pattern. Oval 3- to 5-inch leaves are rich green above, grayish underneath. Yellow, pink and orange fall colors. Red to orange-red fruit forms in buttonlike clusters in fall.	50'	20'
Western Hemlock	<i>Tsuga heterophylla</i>	Feathery evergreen foliage. Small light-brown cones are produced in great quantities. Prefers full sun to full shade and moist to seasonally wet soil.	150'	40'
Western Red Cedar	<i>Thuja plicata</i>	Evergreen that thrives in moist conditions. Stringy reddish bark. Trunk is wide and fluted at bottom. Prefers full to part sun. High relocate success.	100'	30'



# Milwaukie Street Tree List

Planning/Engineering, 6101 SE Johnson Creek Blvd, 503-786-7600



## Downtown Area

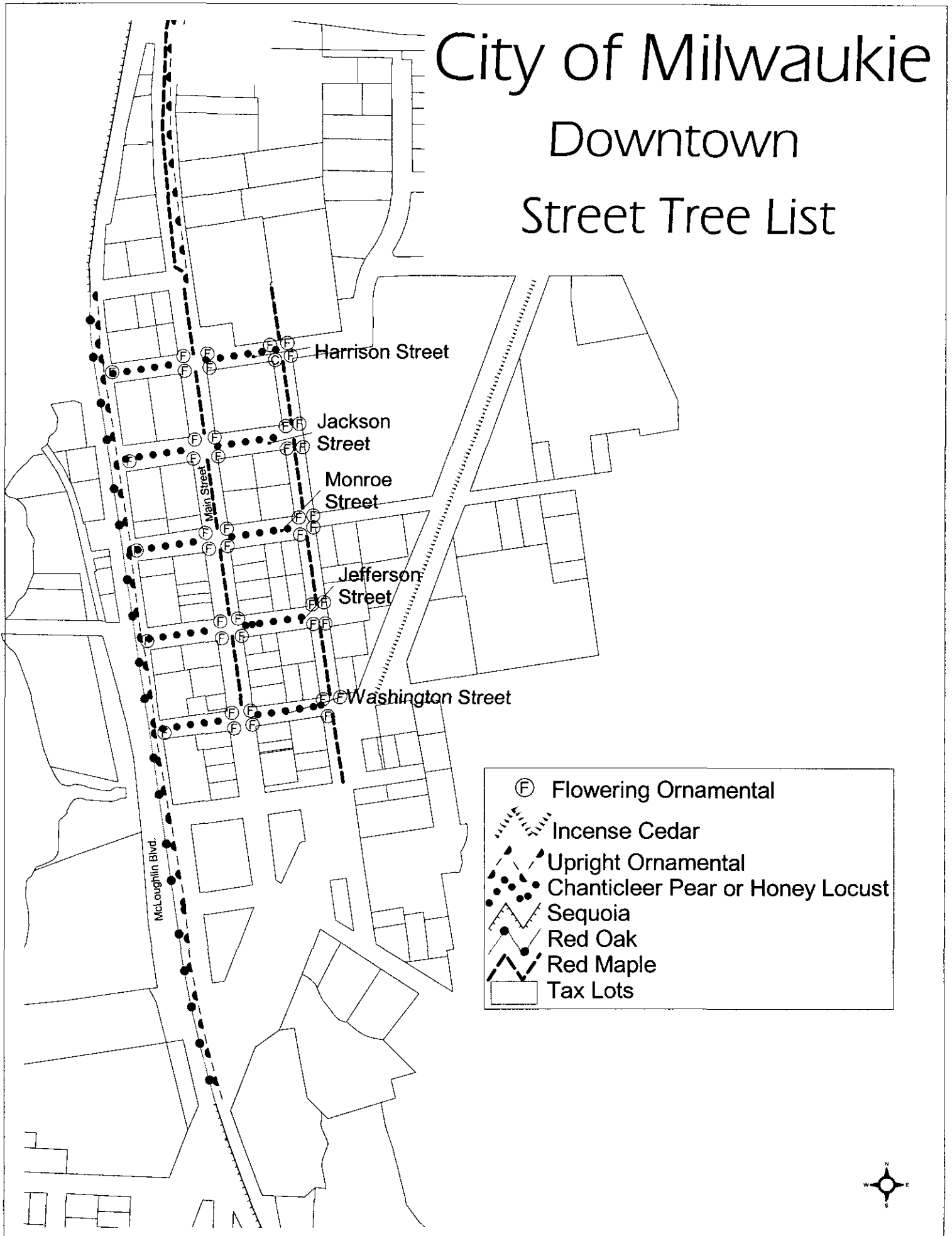
Street trees have been selected to soften expanses of concrete, provide an enclosed and intimate streetscape, and improve air quality. A variety of street trees - selected in large part by the Milwaukie Downtown Development Association - comprises the planting palette. All trees have been selected with maintenance in mind. None of the planting materials selected will block sight lines or severely impact buildings or walkways.

Tree Name	Remarks
Incense Cedar	Incense Cedar trees are indicated along the west side of the railroad track where they function as a buffer between the pedestrian and bicycle pathway and the railroad tracks. They have a columnar shape that will not interfere with the adjacent train, and their dense, evergreen foliage forms an effective edge.
Chanticleer Pear or Honey Locust	These medium size trees are indicated at cross streets where they help reinforce the contrasting east-west orientation of the streets. Their upright form or light branching patterns will not obstruct view corridors to the Willamette River.
Kwanzan Cherry	Ornamentals are indicated at Main Street intersection corners, to provide accent color at all intersections. Kwanzan Cherry offers pink spring blossoms as accent color.
Red Maple	Red Maples are indicated as the primary street tree for Main Street and 21st Avenue. They provide a broad canopy and beautiful fall color yet require little maintenance.
Red Oak	Red Oaks are indicated at McLoughlin Boulevard through the downtown area - repeating and complementing the rows of Red Oaks along McLoughlin at Sellwood Park.
Frans Fontaine Hornbeam	Upright Ornamental trees are indicated in the median along McLoughlin. They provide a contrast to the Red Oaks lining each side of McLoughlin and are well-suited for median planting because they will not obstruct travel lanes. The Frans Fontaine Hornbeam, with glossy dark green foliage, is appropriate along McLoughlin Boulevard.
Sequoia	Sequoia trees form gateways into Milwaukie from the north and south. They are indicated along McLoughlin north of the new street, where they extend the planting theme north of Highway 224 and south of the entrance road to the proposed hotel.

# City of Milwaukie

## Downtown

### Street Tree List



Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Bigleaf Snowbell Tree	<i>Styrax obassia</i>	Slender tree with very large leaves that are dull, fuzzy, and rounded. Drooping white flower clusters 4-8" long.	35'	25'
Blireiana Plum	<i>Prunus x blireiana</i>	Globe-shaped shape. Foliage is reddish purple or green turning reddish-bronze in fall. Bright pink flower.	20'	20'
Blood Good Japanese Maple	" <i>Acer palmatum</i> 'Blood Good'"	Upright and round in shape. Bronze-purple foliage turns orange-red in fall.	18'	18'
Butterfly Japanese Maple	" <i>Acer palmatum</i> 'Butterfly'"	Stiffly upright in shape - variegated cream and light green foliage - magenta tint in fall.	12'	6'
Centurion Crab	" <i>Malus</i> 'Centurion'"	Oval shape. Purple to bronze foliage in summer. Flower is rose-red. Bright red fruit.	20'	15'
Columnar Goldenrain	" <i>Koelreuteria</i> <i>paniculata</i> 'Fastiglata'"	Columnar shape. Green leaves. Yellow flowers and fall color.	30'	6'
Columnar Siberian Crab	" <i>Malus baccata</i> 'Columnaris'"	Columnar shape. White flower, yellow-red fruit.	30'	10'
Crimson Cloud Hawthorn	" <i>Crataegus laevigata</i> 'Crimson Cloud'"	Oval shape. Glossy green leaves. Bright red flower with white center. Bright red fruit.	25'	18'
Japanese Snowbell	<i>Styrax japonicus</i>	Rounded shape. Covered in June with pure white, bell-shaped flowers. Beautiful small tree.	25'	25'
Japanese Tree Lilac	<i>Syringa reticulata</i>	Pyramidal in shape. White floral clusters. Yellow-brown fruit.	25'	20'
Prairifire Crabapple	<i>Malus</i> "Prairifire"	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Red Barron Crab	" <i>Malus</i> 'Red Barron'"	Columnar shape. Reddish-purple leaves becoming bronze-green. Dark red flower. Dark red, 1/2" fruit.	18'	8'
Rocky Mountain Glow Maple	" <i>Acer grandidentatum</i> 'Schmidt'"	Oval shape. Dark green foliage turns bright red in fall.	25'	15'
"Sango Kaku Japanese Maple"	" <i>Acer palmatum</i> 'Sango Kaku'"	Upright shape with bright medium green foliage and gold fall color.	18'	14'
Tschonoski Crab	<i>Malus tschonoskii</i>	Oval shape. Dark green foliage turns orange, red and purple in fall. Sparse yellow-green fruit.	30'	15'



**CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.**

**STREET TREE PLANTING LIST**

**2 1/2 – 3 FOOT PLANTER STRIP – WITH/WITHOUT OVERHEAD POWER LINES**

DRAWING NO.

**708A**

APPROVED  
 12/14  
 CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	11/13	AJR

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Amur Maple	<i>Acer glabrum</i>	Globe-shaped shape. Green foliage turns yellow, orange or red in fall.	20'	20'
Autumn Brilliance Serviceberry	* <i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Upright, moderately spreading shape. Bright red fall color. White flower clusters in spring.	20'	15'
Blood Good Japanese Maple	* <i>Acer palmatum</i> 'Blood Good'	Upright and round in shape - bronze-purple foliage turning orange-red in fall.	18'	18'
Butterfly Japanese Maple	* <i>Acer palmatum</i> 'Butterfly'	Stiffly upright in shape - variegated cream and light green foliage - magenta tint in fall.	12'	6'
Columnar Siberian Crab	* <i>Malus baccata</i> 'Columnaris'	Columnar shape. White flower, yellow red fruit.	30'	10'
*Crimson Sentry Norway Maple	* <i>Acer platanoides</i> 'Crimson Sentry'	Oval shape. Foliage is dark purple, becoming maroon and reddish-bronze in fall.	25'	15'
Flowering Ash	<i>Fraxinus omus</i>	Globe-shaped shape. Green leaves become yellow in fall. Off-white flower is fragrant.	30'	15'
Glorybower Tree	<i>Clerodendrum trichotomum</i>	Globe-shaped shape. Dark green leaves. Fragrant white flower clusters and blue-green fruit.	20'	20'
Goldenchain	* <i>Laburnum watereri</i> 'vossii'	Upright or vase-shaped. Green foliage turns to yellow in fall. Long yellow racemes and flowers.	30'	20'
Japanese Snowbell	<i>Styrax japonicus</i>	Rounded shape. Covered in June with pure white, bell-shaped flowers. Beautiful small tree.	25'	25'
Newport Plum	* <i>Prunus cerasifera</i> 'Newport'	Globe-shaped shape. Dark purple leaves change to reddish in fall. Flower is light pink. Dull purple fruit.	20'	20'
Paperbark Maple	<i>Acer griseum</i>	Upright, rounded shape. Foliage green with silver undersides, becoming bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Persian Parrotia	<i>Parrotia persica</i>	Low-branching, broadly pyramidal to rounded tree with unusual form and texture. Flowers have showy red stamens and fall color is excellent.	30'	20'
Prairifire Crabapple	<i>Malus</i> 'Prairifire'	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Rocky Mountain Glow Maple	* <i>Acer grandidentatum</i> 'Schmidt'	Oval shape. Dark green foliage turns bright red in fall.	25'	15'
*Sango Kaku Japanese Maple	* <i>Acer palmatum</i> 'Sango Kaku'	Upright in shape - bright medium green foliage - gold fall color.	18'	14'
Snowcloud Serviceberry	<i>Amelanchier laevis</i> 'Snowcloud'	Upright oval in shape. Dark green leaves - scarlet in fall. White flower clusters. Blue-purple fruit.	25'	15'
Trident Maple	<i>Acer buergerianum</i>	Oval shape. Dark green foliage turns yellow and orange in fall.	25'	20'
Tschonoski Crab	<i>Malus tschonoskii</i>	Oval shape. Dark green foliage turns orange, red and purple in fall. Sparse yellow-green fruit.	30'	15'



**CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.**

**STREET TREE PLANTING LIST  
3-3 1/2 FOOT PLANTER STRIP – WITH/WITHOUT OVERHEAD POWER LINES**

DRAWING NO.

**708B**

APPROVED  
*J. BOWDICE* 12/14  
CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	11/13	AJR



Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Capital Pear	*Pyrus calleryana 'Capital'	Columnar shape. Dark green foliage turns orange, red and purple in fall. White floral clusters.	35'	12'
Chinese Dogwood	Cornus kousa chinensis	Globe-shaped shape. Dark green foliage becomes red in fall. White flower and pinkish-red fruit.	25'	25'
Cleveland Select Pear (Chanticleer)	*Pyrus calleryana 'Glen's Form'	Upright, pyramidal in shape. Glossy green foliage. White flowers. Purplish-red foliage in fall.	30'	20'
Columnar Norway Maple	*Acer platanoides 'Columnar'	Columnar shape. Dark green foliage turns yellow in fall.	35'	15'
Columnar Sargent Cherry	*Prunus sargentii 'Columnaris'	Columnar shape. Foliage is shiny, dark green. Orange and red fall color. Deep pink flower.	35'	15'
Edith Bogue Magnolia	*Magnolia grandiflora 'Edith Bogue'	Globe-shaped shape. Green foliage turns bright yellow and red in fall.	30'	15'
Flowering Ash	Fraxinus omus	Globe-shaped shape. Green leaves become yellow in fall. Off-white flower is fragrant.	30'	15'
Golden Desert Ash	*Fraxinus excelsior 'Aureafolia'	Globe-shaped. Outstanding yellow color throughout the year.	25'	20'
Hedge Maple	Acer campestre	Dense, rounded shape. Dark green foliage becomes yellow in fall.	30'	30'
Lavalle Hawthorn	Crataegus x lavelle	More erect and less twiggy growth than other hawthorns. Very handsome, vase-shaped tree.	30'	20'
Newport Plum	*Prunus cerasifera 'Newport'	Globe-shaped shape. Dark purple leaves change to reddish in fall. Flower is light pink. Dull purple fruit.	20'	20'
Pacific Sunset Maple	*Acer truncatum x A. platanoides 'Warrenred'	Globe-shaped shape. Dark green foliage becomes yellow, orange and red in fall.	30'	25'
Paperbark Maple	Acer griseum	Upright, rounded shape. Foliage green with silver undersides, becoming bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Persian Parrotia	Parrotia persica	Low-branching, broadly pyramidal to rounded tree with unusual form and texture. Flowers have showy red stamens and fall color is excellent.	30'	20'
Prairifire Crabapple	Malus 'Prairifire'	Upright, spreading, rounded form with purple to reddish green foliage. Excellent disease resistance. Long lasting pinkish red flowers and small red fruit.	20'	20'
Queen Elizabeth Maple	*Acer campestre 'Evelyn'	Oval shape. Dark green foliage turns yellow in fall.	35'	30'
Redspire Pear	Pyrus calleryana 'Redspire'	Pyramidal, dense, and symmetrical with medium green, glossy foliage turning yellow to red in fall. Abundant white flowers.	35'	25'
Saratoga Ginkgo	*Ginkgo biloba 'Saratoga'	Extremely free of pests. Very tolerant of pollution and salt. Requires little maintenance. Slow growing and long lived. Yellow fall color.	30'	30'
September Goldenrain	*Koelreuteria paniculata 'September'	Globe-shaped shape. Green leaves. Yellow and orange fall color. Yellow flowers.	30'	25'
Variegated Norway Maple	*Acer platanoides 'Drummondii'	Globe-shaped shape. Light green leaves have white margins.	35'	25'



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

STREET TREE PLANTING LIST

4-5 1/2 FOOT PLANTER STRIP – WITH OVERHEAD POWER LINES

DRAWING NO.

708C

APPROVED	NO.	REVISIONS	DATE	BY
<i>J. BOURICE</i>	1	NEW DRAWING	11/13	AR
CITY ENGINEER	DATE			

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Akebono Flowering Cherry	<i>Prunus x yedoensis</i> 'Akebono'	Upright spreading with bright green foliage. Delicate pink flowers in spring. Yellowish fall color.	25'	25'
American Hophornbeam	<i>Ostrya virginiana</i>	Globe-shaped shape. Yellow fall color.	35'	25'
Black Tupelo	<i>Nyssa sylvatica</i>	Pyramidal when young, spreading and irregular with age. Dark green, glossy foliage. Hot, copper-red fall color.	35'	20'
Canada Red Chokecherry	* <i>Prunus virginiana</i> 'Canada Red'	Upright round shape. Foliage green in spring, to dark purple in summer, to reddish in autumn. Small white flowers in long clusters. Red-purple fruit.	25'	20'
Chinese Dogwood	<i>Cornus kousa chinensis</i>	Globe-shaped shape. Dark green foliage becomes red in fall. White flower and pinkish-red fruit.	25'	25'
Cleveland Select Pear (Chanticleer)	* <i>Pyrus calleryana</i> 'Glen's Form'	Upright, pyramidal in shape. Glossy green foliage. White flowers. Purplish-red foliage in fall.	30'	20'
Edith Bogue Magnolia	* <i>Magnolia grandiflora</i> 'Edith Bogue'	Forms a tight pyramid. Evergreen with glossy, dark green leaves. Large, creamy white flowers.	30'	15'
Globe Norway Maple	* <i>Acer platanoides</i> 'Globosum'	Dense, globe-shaped shape. Green foliage turns yellow in fall.	15'	20'
Hedge Maple	<i>Acer campestre</i>	Dense, rounded shape. Dark green foliage turns yellow in fall.	30'	30'
"Kwanzan Cherry (on 6' min. graft)"	* <i>Prunus serrulata</i> 'Kwanzan'	Vase-shaped shape. Dark green foliage becomes bronza or orange in fall. Deep pink flower.	30'	20'
Lavalle Hawthorn	<i>Crataegus x lavallei</i>	More erect and less twiggy growth than other hawthorns. Very handsome, vase-shaped tree.	30'	20'
Pacific Sunset Maple	* <i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrenred'	Globe-shaped shape. Dark green foliage becomes yellow, orange and red in fall.	30'	25'
Paperbark Maple	<i>Acer griseum</i>	Upright, rounded shape. Foliage green, silver undersides; bright red-orange in fall. Reddish, peeling, paper-thin bark.	25'	20'
Queen Elizabeth Maple	* <i>Acer campestre</i> 'Evelyn'	Oval shape. Dark green foliage turns yellow in fall.	35'	30'
Raywood Ash	* <i>Fraxinus oxycarpa</i> 'Raywood'	Oval with dense crown. Narrow green leaflets, fine textured foliage. Reddish purple fall color. Delicate fine-textured appearance.	35'	25'
Redbud	<i>Cercis canadensis</i>	Globe-shaped shape. Dark green leaves turn yellow in fall. Pink flower. Very shade tolerant. May suffer damage in windstorms.	25'	30'
Redspire Pear	<i>Pyrus calleryana</i> 'Redspire'	Pyramidal, dense, and symmetrical with medium green, glossy foliage turning yellow to red in fall. Abundant white flowers.	35'	25'
Saratoga Ginkgo	* <i>Ginkgo biloba</i> 'Saratoga'	Extremely free of pests. Requires little maintenance. Slow growing and long lived. Yellow fall color.	30'	30'
September Goldenrain	* <i>Koeleruteria paniculata</i> 'September'	Globe-shaped shape. Green leaves. Yellow and orange fall color. Yellow flowers.	30'	25'
Sourwood	<i>Oxydendrum arboreum</i>	Pyramidal in shape. Dark green leaves turn orange and scarlet in fall. Showy white flowers in summer.	35'	20'
Yellowwood	<i>Cedrasis lutea</i>	Globe-shaped shape. Bright green foliage turns golden-yellow in fall. Fragrant white flower clusters.	40'	40'



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

STREET TREE PLANTING LIST  
6-8 FOOT PLANTER STIP-WITH OVERHEAD POWER LINES

DRAWING NO.

708D

APPROVED  
*[Signature]* 12/14  
CITY ENGINEER DATE

NO.	REVISIONS	DATE	BY
1	NEW DRAWING	11/13	AR

Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Bigleaf Maple	<i>Acer macrophyllum</i>	Broad-topped, dense shade tree. Large 3- to 5-lobed leaves are 6 to 15 inches wide. Small yellow flowers in drooping clusters in April and May. Yellow fall color.	70'	60'
Black Hawthorn	" <i>Crataegus douglasii</i> or <i>C. suksdorfii</i> "	Medium growth rate. High relocate success. Small seedy fruits are appealing to birds. Often grows in a multi-stemmed form. Clusters of small white flowers appear in the spring.	45'	25'
Cascara	<i>Rhamnus purshiana</i>	Prefers shady, moist conditions. Often grows as understory tree with vine maple and red alder. Small, black berries attract birds. Slow growth rate.	30'	25'
Common Chokecherry	<i>Prunus virginiana</i>	Leaves are 2 to 4 inches long. Flowers in 3- to 6-inch clusters. Astringent red to black fruits. Nice fall color.	25'	20'
Douglas Fir	<i>Pseudotsuga menziesii</i>	Bark smooth and gray when young, becoming thick, furrowed, black to reddish-brown when mature. Flat, evergreen, linear needles one-inch long. Cones have distinctive 3-pointed bracts.	200'	60'
Grand Fir	<i>Abies grandis</i>	One of the largest firs, can grow up to 300 feet. Deep green, 1 to 1-1/2 inch long evergreen needles in two rows along branches; glossy above, white lines beneath.	300'	40'
Madrone	<i>Arbutus</i>	Smooth, reddish brown bark that peels in thin flakes. Leathery 3- to 6-inch long evergreen leaves are shiny dark green on top, dull gray beneath. Red-orange berries in fall.	100'	50'
Oregon Ash	<i>Fraxinus latifolia</i>	Light green leaves, 6-12 inches long. Will grow in standing water during winter months. Needs no dry-season water.	75'	25'
Oregon White Oak	<i>Quercus garryana</i>	Slow to moderate growth. Wide, rounded crown. Branches often twisted.	65'	45'
Ponderosa Pine	<i>Pinus ponderosa</i>	Large-needled evergreen. Thick bark has a reddish color and develops attractive dark furrows with age. Needles grow in clusters of three. Produces a cone 3-6 inches long.	200'	30'
Red Alder	<i>Alnus rubra</i>	Attractive smooth, light gray bark. Dark green, 2- to 4-inch leaves which are rust colored and hairy beneath. Very tolerant of brackish water.	100'	40'
Silver Fir	<i>Abies amabilis</i>	Pyramidal in shape. Needs lots of room to grow. Dark green evergreen needles, silvery underneath, curve upward along the branches.	50'	40'
Western Flowering Dogwood	<i>Cornus nuttallii</i>	Gray-barked branches grow in horizontal pattern. Oval 3- to 5-inch leaves are rich green above, grayish underneath. Yellow, pink and orange fall colors. Red to orange-red fruit forms in buttonlike clusters in fall.	50'	20'
Western Hemlock	<i>Tsuga heterophylla</i>	Feathery evergreen foliage. Small light-brown cones are produced in great quantities. Prefers full sun to full shade and moist to seasonally wet soil.	150'	40'
Western Red Cedar	<i>Thuja plicata</i>	Evergreen that thrives in moist conditions. Stringy reddish bark. Trunk is wide and fluted at bottom. Prefers full to part sun. High relocate success.	100'	30'



CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.

STREET TREE PLANTING LIST  
UNDEVELOPED ROADSIDE PLANTER STRIP

DRAWING NO.

708E

APPROVED	NO.	REVISIONS	DATE	BY
<i>J. SOWICE</i>	1	NEW DRAWING	11/13	AJR
CITY ENGINEER	DATE			



Common Name	Scientific Name	Remarks	Mature Height	Canopy Spread
Afterburner Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Upright shape. Deep green leaves in the summer. Bright red late falling leaves in the fall. Fruit is a small black berry.	35'	20'
Blue Oak	<i>Quercus douglasii</i>	Round open shape. Small blue-green waxy leaves. Flowers small yellow-green catkins. Produces inch long acorns. Well suited for planting under power lines.	30'	25'
Cascara	<i>Rhamnus purshiana</i>	Round-oval shape. Long, dark green leaves, turning yellow in the fall. Small white flowers. Fruit is a pea sized purple berry. Well suited for planting under power lines.	30'	15'
Columnar Goldenrain	<i>Koelreuteria paniculata</i>	Columnar shape. Long serrated green leaves. Yellow flowers and fall color. Fruit is a 1.5 inch long pod.	30'	6'
Columnar Hornbeam	<i>Carpinus betulus</i> 'Fastigiata'	Pyramidal to oval-rounded crown. Oval, toothed bright medium green leaves that turn yellow-orange in the fall. Fruits are small nuts. Well suited for planting under power lines.	35'	25'
Eastern Rosebud	<i>Cercis canadensis</i>	Round shape. Reddish-purple leaves change to dark green, then to yellow. Rosy pink flowers. Fruit is a long flat pod, 2-4 inches long.	45'	30'
Emerald Pointe Hardy Rubber Tree	<i>Eucommia ulmoides</i> 'Empozam'	Oval to round shape. Leaves remain green through summer and fall. Fruit is a winged samara with one seed.	40'	15'
Hungarian Oak	<i>Quercus frainetto</i>	Oval shape. Dense foliage with striking, large, glossy leaves. Very adaptable.	50'	30'
Pacific Dogwood	<i>Cornus nuttallii</i>	Upright shape. Greenish-white flower. Green leaves turning brilliant red in autumn. Fruit is a compound pink-red berry 1 inch in size.	40'	25'
Sassafras	<i>Sassafras albidum</i>	Round shape. Brilliant display of fall foliage changing to colors of deep orange, scarlet, purple and yellow in the fall. Fruit is a small black berry.	35'	25'
Skinny Genes Oak	<i>Quercus robur</i> x <i>alba</i>	Tight columnar shape. Dark green glossy leaves, turning yellow in the fall.	45'	10'
Snowbells	<i>Styrax japonica</i>	Long pointed leaves turning to yellow or bright red in the fall. Large white flowers. Fruit is small white pea sized berry. Well suited for planting under power lines.	30'	30'
Sourwood	<i>Oxydendrum arboreum</i>	Oval shape. Fragrant, white flowers in early summer. Dazzling fall color turning yellow, red, and purple. Well suited for planting under power lines.	25'	15'
Striped Maple	<i>Acer pensylvanicum</i>	Broad, round shape. Large lobed leaves that turn pale yellow in autumn. Small yellow flower, and fruit is a small samara. Well suited for planting under power lines.	30'	25'
Yellowwood	<i>Cladrastis kentukea</i>	Round shape. White fragrant flowers in early summer. Leaves are dark green in the summer and turn a bright clear yellow in the fall. Fruit is a flat pod, 3 inches in length.	40'	45'



**CITY OF MILWAUKIE, OREGON – PUBLIC WORKS DEPT.**

**STREET TREE PLANTING LIST  
DOWNTOWN PLANTING**

DRAWING NO.

**708F**

APPROVED <i>[Signature]</i>	12/14	NO.	REVISIONS	DATE	BY
		1	NEW DRAWING	11/13	AJR
CITY ENGINEER	DATE				

2 1/2 to 3 foot Planting Strip - With or Without Overhead Power Lines				Values
Common Name	Scientific Name	At Maturity		
		Height (ft)	Canopy (ft)	
Bigleaf snowbell tree	Styrax obassia	20 – 30	10 – 15	
Billireiana plum	Prunus x bilireiana	20	20	
Blood good Japanese maple	Acer palmatum 'Blood Good'	15 – 20	15 – 20	
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
Centurion crab	Malus 'centurion'	20	15	
Columnar Siberian crab	Malus baccata 'Columnaris'	30	10	
Crimson cloud hawthorn	Crataegus laevigata 'Crimson cloud'	25	18	
Japanese snowbell	Styrax japonicus	25	25	
Japanese tree lilac	Syringa reticulata	25	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Red barron crab	Malus 'Red Barron'	18	8	
Rocky Mountain glow maple	Acer grandidentatum 'Schmidt'	25	15	
Tschonoski crab	Malus tschonoskii	30	15	
Vine Maple	Acer circinatum	5 – 15	5 – 10	native, few pests
Oceanspray (Native Shrub)	Holodiscus discolor	10 – 15	12	native, few pests
Strawberry Tree	Arbutus unedo	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Pink Princess Escallonia	Escallonia x exoniensis 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Serviceberry	Amelanchier alnifolia var. semi-integrifolia	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Fringeflower	Loropetalum chinense var. rubrum	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Dwarf Balsam Fir	Abies balsamea 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Fragrant Wintersweet	Chimonanthus praecox	6	6	nice shrub form, winter flwrs, pest free
Chamaecyparis	Chamaecyparis pisifera 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
Mock Orange	Philadelphus lewisii	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Bristlecone Pine	Pinus aristata	6	4	evergreen, specimen, few pests
Spike Winterhazel	Corylopsis spicata	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Oregon grape	Mahonia aquifolium	6	6	native shrub, evergreen
Dawn Viburnum	Viburnum bodnantense 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Osmanthus	Osmanthus delavayi	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	Myrica californica	10 – 20	10 – 20	evergreen shrub, native, few pests
David Viburnum	Viburnum davidii	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Red Flowering Currant	Ribes sanguineum	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Mugo Pine	Pinus mugo	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Burkwood Osmanthus	Osmanthus burkwoodii	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Doublefile Viburnum	Viburnum plicatum var. tomentosum	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Amur maple	Acer tataricum ssp. ginnala	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Enkianthus	Enkianthus campanulatus	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Magnolia	Magnolia stellata	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Rock Rose	Cistus x corbariensis	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Fringetree	Chionanthus virginicus	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
3 to 3 1/2 foot Planting Strip - With or Without Overhead Power Lines				
Common Name	Scientific Name	At Maturity		
		Height (ft)	Canopy (ft)	
Amur maple	Acer ginnala	20	20	
Autumn brilliance serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	20	15	
Blood good Japanese maple	Acer palmatum 'Blood Good'	18	18	
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
Columnar Siberian crab	Malus baccata 'Columnaris'	30	10	
Crimson sentry Norway maple	Acer platanoides 'Crimson sentry'	25	15	
Flowering ash	Fraxinus ornus	30	15	
Goldenchain	Laburnum watereri 'vosii'	30	20	
Japanese snowbell	Styrax japonicus	25	25	
Newport plum	Prunus cerasifera 'Newport'	20	20	
Paperbark maple	Acer griseum	25	20	
Persian parrotia	Parrotia persica	30	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Rocky Mountain glow maple	Acer grandidentatum 'Schmidt'	25	15	
Snowcloud serviceberry	Amelanchier laevis 'Snowcloud'	25	15	
Trident maple	Acer buergeranum	25	20	
Tschonoski crab	Malus tschonoskii	30	15	
Japanese Hornbeam	Carpinus japonica	20 – 30	20 – 30	nice form, foliage, no pests
Camperdown Elm	Ulmus glabra 'Camperdownii'	15 – 25	10 – 15	nice form, foliage, no pests
Wichita Blue Juniper	Juniperus scopulorum 'Wichita Blue'	30	3 – 10	evergreen shrub, color, form, habit, foliage, few pests
Oregon Myrtle	Umbellularia californica	25 – 30	25 – 30	evergreen shrub, native, color, bark, few pests
Corneliancherry Dogwood	Cornus mas	20 – 25	15 – 20	early flwrs, nice bark, wildlife, no pests
Coast Silkassel	Garrya elliptica	20 – 30	10	native, evergreen shrub, few pests
Shore Pine	Pinus contorta	25 – 30	10 – 15	native, evergreen shrub, some pests
Tanyosho Pine	Pinus densiflora 'umbraculifera'	20 – 30	20 – 30	evergreen shrub, specimen tree, parking lots, no pests
Tanbark Oak	Lithocarpus densiflorus	20 – 30	20 – 30	native evergreen, relatively pest free
Magnolia	Magnolia x soulangiana	25	25	accent or anchor plant, flwrs, few pests
Japanese Stewartia	Stewartia pseudocamellia	20 – 30	10 – 15	stunning tree, bark, flwrs, form, all seasons, few pests
4 to 5 1/2 foot Planting Strip - With Overhead Power Lines				
Common Name	Scientific Name	At Maturity		
		Height (ft)	Canopy (ft)	
Capital pear	Pyrus calleryana 'Capital'	35	12	
Chinese dogwood	Cornus kousa chinensis	25	25	
Chanticleer pear	Pyrus calleryana 'Glen's Form'	30	20	

Columnar Norway maple	Acer platanoides 'Columnar'	35	15	
Columnar Sargent cherry	Prunus sargentii 'Columnaris'	35	15	
Edith Bogue magnolia	Magnolia grandiflora 'Edith Bogue'	30	15	
Flowering ash	Fraxinus ornus	30	15	
Golden desert ash	Fraxinus excelsior 'Aureaefolia'	25	20	
Hedge maple	Acer campestre	30	30	
Lavalle hawthorn	Crataegus x lavallei	30	20	
Newport plum	Prunus cerasifera 'Newport'	20	20	
Pacific sunset maple	Acer truncatum x A. platanoides 'Warrenred'	30	25	
Paperbark maple	Acer griseum	25	20	
Persian parrotia	Parrotia persica	30	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Queen Elizabeth maple	Acer campestre 'Evelyn'	35	30	
Redspire pear	Pyrus calleryana 'Redspire'	35	25	
Saratoga ginkgo	Ginkgo biloba 'Saratoga'	30	30	
September goldenrain	Koelreuteria paniculata 'September'	30	25	
Variiegated Norway maple	Acer platanoides 'Drummondii'	35	25	
Japanese Stewartia	Stewartia pseudocamellia	35	15 – 20	stunning tree, bark, flwrs, form, all seasons, few pests
Katsura Tree	Cercidiphyllum japonicum	35	20 – 30	fall color, leaf foliage, branch lines, spicy odor, few pests
European Hornbeam	Carpinus betulus	35	20 – 30	nice form, foliage, no pests
<b>6 to 8 foot Planting Strip - With Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Akebono flowering cherry	Prunus x yedoensis 'Akebono'	25	25	
American hophornbeam	Ostrya virginiana	35	25	
Canada red chokecherry	Prunus virginiana 'Canada red'	25	20	suckers
Chinese dogwood	Cornus kousa chinensis	25	25	
Cleveland select pear (Chanticleer)	Pyrus calleryana 'Glen's Form'	30	20	
Edith Bogue magnolia	Magnolia grandiflora 'Edith Bogue'	30	15	
Globe Norway maple	Acer platanoides 'Globosum'	15	20	
Hedge maple	Acer campestre	30	30	
Kwanzan cherry (on 6 foot min. graft)	Prunus serrulata 'Kwanzan'	30	20	
Lavalle hawthorn	Crataegus x lavallei	30	20	
Pacific sunset maple	Acer truncatum x A. platanoides 'Warrenred'	30	25	
Paperbark maple	Acer griseum	25	20	
Queen Elizabeth maple	Acer campestre 'Evelyn'	35	30	
Raywood ash	Fraxinus oxycarpa 'Raywood'	35	25	
Redbud	Cercis canadensis	25	30	
Redspire pear	Pyrus calleryana 'Redspire'	35	25	
Saratoga ginkgo	Ginkgo biloba 'Saratoga'	30	30	
September goldenrain	Koelreuteria paniculata 'September'	30	25	
Sourwood	Oxydendrum arboreum	35	20	
Yellowwood	Cladrastis lutea	40	40	
Monterey Cypress	Cupressus macrocarpa 'Fine Gold'	25 – 40	25 – 35	evergreen shrub, color, form, habit, foliage, few pests
Japanese Umbrella Pine	Sciadopitys verticillata	25 – 40	8 – 15	evergreen specimen, few pests
<b>Undeveloped Roadside Planting Strip</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Bigleaf maple	Acer macrophyllum	70	60	
Black hawthorn	Crataegus douglasii or C. suksdorfii	45	25	
Cascara	Rhamnus purshiana	30	25	
Douglas-fir	Pseudotsuga menziesii	200	60	
Grand fir	Abies grandis	300	40	
Madrone	Arbutus menziesii	100	50	
Oregon ash	Fraxinus latifolia	75	25	
Oregon white oak	Quercus garryana	65	45	
Ponderosa pine	Pinus ponderosa	200	30	
Red alder	Alnus rubra	100	40	
Silver fir	Abies amabilis	50	40	
Western hemlock	Tsuga heterophylla	150	40	
Western red cedar	Thuja plicata	100	30	
Chinese Elm	Ulmus parvifolia	40 – 50	varies	evergreen to semi-evergreen tree, many cultivars, pest resistant
Amur Corktree	Phellodendron amurense	30 – 45	35 – 50	form, fall color, bark, foliage, pest free, male clone – no fruit
Japanese Zelkova	Zelkova serrata	50 – 80	40 – 50	fall color, form, pollution tolerant, pest resistant
Eastern White Pine	Pinus strobus	100 – 125	25 – 35	specimen tree, evergreen, few pests
Alaska Cedar	Chamaecyparis nootkatensis	60 – 90	20 – 25	native evergreen, relatively pest free, cultivated varieties
Western Yew	Taxus brevifolia	30 – 50	20 – 30	native evergreen, relatively pest free
Brewer's Weeping Spruce	Picea breweriana	30 – 50	30 – 50	pendulous form, evergreen, relatively pest free
Deodar Cedar	Cedrus deodara	70	40	specimen tree, evergreen, few pests, smaller cultivated varieties
Jeffrey Pine	Pinus jeffreyi	60 – 120	40 – 50	native evergreen, large, relatively pest free
California Incense Cedar	Calocedrus decurrens	70 – 100	35 – 50	native, evergreen specimen, few pests
Hoops Blue Spruce	Picea pungens 'Hoopsii'	30 – 60	10 – 20	good form, blue specimen, some pests
Spanish Fir	Abies pinsapo	50	15 – 30	evergreen tree, specimen, pest free
Japanese Cryptomeria	Cryptomeria japonica	100 – 150	20 – 30	graceful conifer, few pests, cultivated varieties
London Plane Tree	Platanus x acerifolia	40 – 80	40- 50	lg shade tree, exquisite bark, few pests
Dawn Redwood	Metasequoia glyptostroboides	80 – 90	25 – 30	lg shade tree, exquisite bark, evergreen, few pests
Blue Atlas Cedar	Cedrus libani ssp. Atlantica 'Glaucia'	150 – 200	30 – 40	specimen tree, evergreen, few pests
White Fir	Abies concolor	100 – 150	25 – 30	specimen tree, evergreen, few pests
Coast Redwood	Sequoia sempervirens	350	40 – 50	specimen tree, evergreen, few pests
Western Larch	Larix occidentalis	30 – 50	10 – 15	specimen tree, native, evergreen, few pests

Downtown Area	(There are other species downtown that aren't on the list below)	At Maturity		
Common Name	Scientific Name	Height (ft)	Canopy (ft)	
Incense cedar	Libocedrus decurrens	135	40	Guess
Chanticleer pear	Pyrus calleryana 'Glen's Form'	30	20	
Moraine honey locust	Gleditsia tricanthos 'Inermis'	135	40	Guess
Kwanzan cherry (on 6 foot min. graft)	Prunus serrulata 'Kwanzan'	30	20	
Red maple	Acer rubrum	120	50	Guess
Red oak	Quercus rubra	75	40	Guess
Frans Fontaine Hornbeam	Carpinus betulus 'Frans Fontaine'	50	25	
Giant sequoia	Sequoiadendron giganteum	300	50?	Guess

UTILITY TREES				
2 1/2 to 3 foot Planting Strip - With Overhead Power Lines				Values
Common Name	Scientific Name	At Maturity		
		Height (ft)	Canopy (ft)	
Amur maple	<i>Acer tataricum</i> ssp. <i>ginnala</i>	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Bilireiana plum	<i>Prunus x bilireiana</i>	20	20	
Blood good Japanese maple	<i>Acer palmatum</i> 'Blood Good'	15 – 20	15 – 20	
Bristlecone Pine	<i>Pinus aristata</i>	6	4	evergreen, specimen, few pests
Burkwood Osmanthus	<i>Osmanthus burkwoodii</i>	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Butterfly Japanese maple	<i>Acer palmatum</i> 'Butterfly'	12	6	
California Lilac	<i>Ceanothus thyrsiflorus</i>	12	8	evergreen shrub, flwrs, wildlife, few pests
Centurion crab	<i>Malus 'centurion'</i>	20	15	
Chamaecyparis	<i>Chamaecyparis pisifera</i> 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
David Viburnum	<i>Viburnum davidii</i>	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Dawn Viburnum	<i>Viburnum bodnantense</i> 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Doublefile Viburnum	<i>Viburnum plicatum</i> var. <i>tomentosum</i>	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Dwarf Balsam Fir	<i>Abies balsamea</i> 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Enkianthus	<i>Enkianthus campanulatus</i>	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Fragrant Wintersweet	<i>Chimonanthus praecox</i>	6	6	nice shrub form, winter flwrs, pest free
Fringeflower	<i>Loropetalum chinense</i> var. <i>rubrum</i>	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Fringetree	<i>Chionanthus virginicus</i>	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
Magnolia	<i>Magnolia stellata</i>	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Mock Orange	<i>Philadelphus lewisii</i>	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Mugo Pine	<i>Pinus mugo</i>	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Oceanspray (Native Shrub)	<i>Holodiscus discolor</i>	10 – 15	12	native, few pests
Oregon grape	<i>Mahonia aquifolium</i>	6	6	native shrub, evergreen
Osmanthus	<i>Osmanthus delavayi</i>	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	<i>Myrica californica</i>	10 – 20	10 – 20	evergreen shrub, native, few pests
Pink Princess Escallonia	<i>Escallonia x exoniensis</i> 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Prairiefire crabapple	<i>Malus 'Prairiefire'</i>	20	20	
Red barron crab	<i>Malus 'Red Barron'</i>	18	8	
Red Flowering Currant	<i>Ribes sanguineum</i>	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Rock Rose	<i>Cistus x corbariensis</i>	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Serviceberry	<i>Amelanchier alnifolia</i> var. <i>semi-integrifolia</i>	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Spike Winterhazel	<i>Corylopsis spicata</i>	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Strawberry Tree	<i>Arbutus unedo</i>	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Vine Maple	<i>Acer circinatum</i>	5 – 15	5 – 10	native, few pests
2 1/2 to 3 foot Planting Strip - Without Overhead Power Lines				Values
Common Name	Scientific Name	At Maturity		
		Height (ft)	Canopy (ft)	
Bigleaf snowbell tree	<i>Styrax obassia</i>	20 – 30	10 – 15	
Bilireiana plum	<i>Prunus x bilireiana</i>	20	20	
Blood good Japanese maple	<i>Acer palmatum</i> 'Blood Good'	15 – 20	15 – 20	
Butterfly Japanese maple	<i>Acer palmatum</i> 'Butterfly'	12	6	
Centurion crab	<i>Malus 'centurion'</i>	20	15	
Columnar Siberian crab	<i>Malus baccata</i> 'Columnaris'	30	10	
Crimson cloud hawthorn	<i>Crataegus laevigata</i> 'Crimson cloud'	25	18	
Japanese snowbell	<i>Styrax japonicus</i>	25	25	
Japanese tree lilac	<i>Syringa reticulata</i>	25	20	
Prairiefire crabapple	<i>Malus 'Prairiefire'</i>	20	20	
Red barron crab	<i>Malus 'Red Barron'</i>	18	8	
Rocky Mountain glow maple	<i>Acer grandidentatum</i> 'Schmidt'	25	15	
Tschonoski crab	<i>Malus tschonoskii</i>	30	15	
Vine Maple	<i>Acer circinatum</i>	5 – 15	5 – 10	native, few pests
Oceanspray (Native Shrub)	<i>Holodiscus discolor</i>	10 – 15	12	native, few pests
Strawberry Tree	<i>Arbutus unedo</i>	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Pink Princess Escallonia	<i>Escallonia x exoniensis</i> 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Serviceberry	<i>Amelanchier alnifolia</i> var. <i>semi-integrifolia</i>	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Fringeflower	<i>Loropetalum chinense</i> var. <i>rubrum</i>	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Dwarf Balsam Fir	<i>Abies balsamea</i> 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Fragrant Wintersweet	<i>Chimonanthus praecox</i>	6	6	nice shrub form, winter flwrs, pest free
Chamaecyparis	<i>Chamaecyparis pisifera</i> 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
Mock Orange	<i>Philadelphus lewisii</i>	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Bristlecone Pine	<i>Pinus aristata</i>	6	4	evergreen, specimen, few pests
Spike Winterhazel	<i>Corylopsis spicata</i>	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Oregon grape	<i>Mahonia aquifolium</i>	6	6	native shrub, evergreen
Dawn Viburnum	<i>Viburnum bodnantense</i> 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Osmanthus	<i>Osmanthus delavayi</i>	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	<i>Myrica californica</i>	10 – 20	10 – 20	evergreen shrub, native, few pests
David Viburnum	<i>Viburnum davidii</i>	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Red Flowering Currant	<i>Ribes sanguineum</i>	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Mugo Pine	<i>Pinus mugo</i>	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Burkwood Osmanthus	<i>Osmanthus burkwoodii</i>	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Doublefile Viburnum	<i>Viburnum plicatum</i> var. <i>tomentosum</i>	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Amur maple	<i>Acer tataricum</i> ssp. <i>ginnala</i>	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Enkianthus	<i>Enkianthus campanulatus</i>	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Magnolia	<i>Magnolia stellata</i>	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Rock Rose	<i>Cistus x corbariensis</i>	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Fringetree	<i>Chionanthus virginicus</i>	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests

California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
Hedge maple	Acer campestre	30	30	
Lavale hawthorn	Crataegus x lavallei	30	20	
Newport plum	Prunus cerasifera 'Newport'	20	20	
Pacific sunset maple	Acer truncatum x A. platanoides 'Warrenred'	30	25	
Paperbark maple	Acer griseum	25	20	
Persian parrotia	Parrotia persica	30	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Queen Elizabeth maple	Acer campestre 'Evelyn'	35	30	
Redspire pear	Pyrus calleryana 'Redspire'	35	25	
Saratoga ginkgo	Ginkgo biloba 'Saratoga'	30	30	
September goldenrain	Koelreuteria paniculata 'September'	30	25	
Variiegated Norway maple	Acer platanoides 'Drummond'	35	25	
Japanese Stewartia	Stewartia pseudocamellia	35	15 – 20	stunning tree, bark, flwrs, form, all seasons, few pests
Katsura Tree	Cercidiphyllum japonicum	35	20 – 30	fall color, leaf foliage, branch lines, spicy odor, few pests
European Hornbeam	Carpinus betulus	35	20 – 30	nice form, foliage, no pests
<b>3 to 3 1/2 foot Planting Strip - With Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Amur maple	Acer tataricum ssp. ginnala	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Autumn brilliance serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	20	15	
Bilireiana plum	Prunus x bilireiana	20	20	
Blood good Japanese maple	Acer palmatum 'Blood Good'	15 – 20	15 – 20	
Bristlecone Pine	Pinus aristata	6	4	evergreen, specimen, few pests
Burkwood Osmanthus	Osmanthus burkwoodii	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
Centurion crab	Malus 'centurion'	20	15	
Chamaecyparis	Chamaecyparis pisifera 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
David Viburnum	Viburnum davidii	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Dawn Viburnum	Viburnum bodnantense 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Doublefile Viburnum	Viburnum plicatum var. tomentosum	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Dwarf Balsam Fir	Abies balsamea 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Enkianthus	Enkianthus campanulatus	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Fragrant Wintersweet	Chimonanthus praecox	6	6	nice shrub form, winter flwrs, pest free
Fringeflower	Loropetalum chinense var. rubrum	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Fringetree	Chionanthus virginicus	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
Magnolia	Magnolia stellata	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Mock Orange	Philadelphus lewisii	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Mugo Pine	Pinus mugo	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Newport plum	Prunus cerasifera 'Newport'	20	20	
Oceanspray (Native Shrub)	Holodiscus discolor	10 – 15	12	native, few pests
Oregon grape	Mahonia aquifolium	6	6	native shrub, evergreen
Osmanthus	Osmanthus delavayi	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	Myrica californica	10 – 20	10 – 20	evergreen shrub, native, few pests
Pink Princess Escallonia	Escallonia x exoniensis 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Red barron crab	Malus 'Red Barron'	18	8	
Red Flowering Currant	Ribes sanguineum	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Rock Rose	Cistus x corbariensis	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Serviceberry	Amelanchier alnifolia var. semi-integrifolia	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Spike Winterhazel	Corylopsis spicata	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Strawberry Tree	Arbutus unedo	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Vine Maple	Acer circinatum	5 – 15	5 – 10	native, few pests
<b>3 to 3 1/2 foot Planting Strip - Without Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Amur maple	Acer ginnala	20	20	
Autumn brilliance serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	20	15	
Blood good Japanese maple	Acer palmatum 'Blood Good'	18	18	
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
Camperdown Elm	Ulmus glabra 'Camperdownii'	15 – 25	10 – 15	nice form, foliage, no pests
Coast Silkassel	Garrya elliptica	20 – 30	10	native, evergreen shrub, few pests
Columnar Siberian crab	Malus baccata 'Columnaris'	30	10	
Corneliancherry Dogwood	Cornus mas	20 – 25	15 – 20	early flwrs, nice bark, wildlife, no pests
Crimson sentry Norway maple	Acer platanoides 'Crimson sentry'	25	15	
Flowering ash	Fraxinus ornus	30	15	
Goldenchain	Laburnum watereri 'vosii'	30	20	
Japanese Hornbeam	Carpinus japonica	20 – 30	20 – 30	nice form, foliage, no pests
Japanese snowbell	Styrax japonicus	25	25	
Japanese Stewartia	Stewartia pseudocamellia	20 – 30	10 – 15	stunning tree, bark, flwrs, form, all seasons, few pests
Magnolia	Magnolia x soulangiana	25	25	accent or anchor plant, flwrs, few pests
Newport plum	Prunus cerasifera 'Newport'	20	20	
Oregon Myrtle	Umbellularia californica	25 – 30	25 – 30	evergreen shrub, native, color, bark, few pests
Paperbark maple	Acer griseum	25	20	
Persian parrotia	Parrotia persica	30	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	

Rocky Mountain glow maple	Acer grandidentatum 'Schmidt'	25	15	
Shore Pine	Pinus contorta	25 – 30	10 – 15	native, evergreen shrub, some pests
Snowcloud serviceberry	Amelanchier laevis 'Snowcloud'	25	15	
Tanbark Oak	Lithocarpus densiflorus	20 – 30	20 – 30	native evergreen, relatively pest free
Tanyosho Pine	Pinus densiflora 'umbraculifera'	20 - 30	20 – 30	evergreen shrub, specimen tree, parking lots, no pests
Trident maple	Acer buergeranum	25	20	
Tschonoski crab	Malus tschonoskii	30	15	
Wichita Blue Juniper	Juniperus scopulorum 'Wichita Blue'	30	3 – 10	evergreen shrub, color, form, habit, foliage, few pests
<b>4 to 5 1/2 foot Planting Strip - With Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Amur maple	Acer tataricum ssp. ginnala	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Blireiana plum	Prunus x blireiana	20	20	
Blood good Japanese maple	Acer palmatum 'Blood Good'	15 – 20	15 – 20	
Bristlecone Pine	Pinus aristata	6	4	evergreen, specimen, few pests
Burkwood Osmanthus	Osmanthus burkwoodii	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
Centurion crab	Malus 'centurion'	20	15	
Chamaecyparis	Chamaecyparis pisifera 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
David Viburnum	Viburnum davidii	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Dawn Viburnum	Viburnum bodnantense 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Doublefile Viburnum	Viburnum plicatum var. tomentosum	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Dwarf Balsam Fir	Abies balsamea 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Enkianthus	Enkianthus campanulatus	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Fragrant Wintersweet	Chimonanthus praecox	6	6	nice shrub form, winter flwrs, pest free
Fringeflower	Loropetalum chinense var. rubrum	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Fringetree	Chionanthus virginicus	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
Magnolia	Magnolia stellata	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Mock Orange	Philadelphus lewisii	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Mugo Pine	Pinus mugo	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Oceanspray (Native Shrub)	Holodiscus discolor	10 – 15	12	native, few pests
Oregon grape	Mahonia aquifolium	6	6	native shrub, evergreen
Osmanthus	Osmanthus delavayi	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	Myrica californica	10 – 20	10 – 20	evergreen shrub, native, few pests
Pink Princess Escallonia	Escallonia x exoniensis 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Red barron crab	Malus 'Red Barron'	18	8	
Red Flowering Currant	Ribes sanguineum	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Rock Rose	Cistus x corbariensis	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Serviceberry	Amelanchier alnifolia var. semi-integrifolia	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Spike Winterhazel	Corylopsis spicata	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Strawberry Tree	Arbutus unedo	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Vine Maple	Acer circinatum	5 – 15	5 – 10	native, few pests
<b>4 to 5 1/2 foot Planting Strip - Without Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Amur maple	Acer tataricum ssp. ginnala	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Blireiana plum	Prunus x blireiana	20	20	
Blood good Japanese maple	Acer palmatum 'Blood Good'	15 – 20	15 – 20	
Bristlecone Pine	Pinus aristata	6	4	evergreen, specimen, few pests
Burkwood Osmanthus	Osmanthus burkwoodii	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
Centurion crab	Malus 'centurion'	20	15	
Chamaecyparis	Chamaecyparis pisifera 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
Columnar Siberian crab	Malus baccata 'Columnaris'	30	10	
Crimson sentry Norway maple	Acer platanoides 'Crimson sentry'	25	15	
David Viburnum	Viburnum davidii	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Dawn Viburnum	Viburnum bodnantense 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Doublefile Viburnum	Viburnum plicatum var. tomentosum	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Dwarf Balsam Fir	Abies balsamea 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Enkianthus	Enkianthus campanulatus	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Flowering ash	Fraxinus ornus	30	15	
Fragrant Wintersweet	Chimonanthus praecox	6	6	nice shrub form, winter flwrs, pest free
Fringeflower	Loropetalum chinense var. rubrum	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Fringetree	Chionanthus virginicus	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
Goldenchain	Laburnum watereri 'vosii'	30	20	
Japanese snowbell	Styrax japonicus	25	25	
Magnolia	Magnolia stellata	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Mock Orange	Philadelphus lewisii	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Mugo Pine	Pinus mugo	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Newport plum	Prunus cerasifera 'Newport'	20	20	
Oceanspray (Native Shrub)	Holodiscus discolor	10 – 15	12	native, few pests
Oregon grape	Mahonia aquifolium	6	6	native shrub, evergreen
Osmanthus	Osmanthus delavayi	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	Myrica californica	10 – 20	10 – 20	evergreen shrub, native, few pests

Paperbark maple	Acer griseum	25	20	
Persian parrotia	Parrotia persica	30	20	
Pink Princess Escallonia	Escallonia x exoniensis 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Red barron crab	Malus 'Red Barron'	18	8	
Red Flowering Currant	Ribes sanguineum	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Rock Rose	Cistus x corbariensis	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Rocky Mountain glow maple	Acer grandidentatum 'Schmidt'	25	15	
Serviceberry	Amelanchier alnifolia var. semi-integrifolia	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Snowcloud serviceberry	Amelanchier laevis 'Snowcloud'	25	15	
Spike Winterhazel	Corylopsis spicata	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Strawberry Tree	Arbutus unedo	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Trident maple	Acer buergeranum	25	20	
Tschoonoski crab	Malus tschoonoskii	30	15	
Vine Maple	Acer circinatum	5 – 15	5 – 10	native, few pests
<b>6 to 8 foot Planting Strip - With Overhead Power Lines</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Amur maple	Acer tataricum ssp. ginnala	10 – 20	15 – 20	small tree, form, flwrs, fragrant, fall color, easy to transplant, few pests
Bilireiana plum	Prunus x bilireiana	20	20	
Blood good Japanese maple	Acer palmatum 'Blood Good'	15 – 20	15 – 20	
Bristlecone Pine	Pinus aristata	6	4	evergreen, specimen, few pests
Burkwood Osmanthus	Osmanthus burkwoodii	6 – 10	6 – 10	evergreen shrub, flwrs, few pests
Butterfly Japanese maple	Acer palmatum 'Butterfly'	12	6	
California Lilac	Ceanothus thyrsiflorus	12	8	evergreen shrub, flwrs, wildlife, few pests
Centurion crab	Malus 'centurion'	20	15	
Chamaecyparis	Chamaecyparis pisifera 'Filifera Aurea'	10	5 – 10	evergreen shrub, color, form, habit, foliage, few pests
David Viburnum	Viburnum davidii	3 – 5	3 – 4	evergreen shrub, flwrs, few pests
Dawn Viburnum	Viburnum bodnantense 'Dawn'	10	5 – 8	shrub, winter flwrs, fragrant, few pests
Doublefile Viburnum	Viburnum plicatum var. tomentosum	5 – 6	4 – 5	shrub, form, flwrs, wildlife, fall color, pollution tolerant, no pests
Dwarf Balsam Fir	Abies balsamea 'Nana'	3 – 4	3 – 4	evergreen shrub, nice form, few pests
Enkianthus	Enkianthus campanulatus	10 – 20	5 – 10	small shrub, fall color, form, flwrs, no pests
Fragrant Wintersweet	Chimonanthus praecox	6	6	nice shrub form, winter flwrs, pest free
Fringeflower	Loropetalum chinense var. rubrum	5 – 10	4 – 6	evergreen shrub, flwrs, foliage, few pests
Fringetree	Chionanthus virginicus	12 – 20	12 – 20	small tree, form, flwrs, fragrant, wildlife, pollution tolerant, no pests
Globe Norway maple	Acer platanoides 'Globosum'	15	20	
Magnolia	Magnolia stellata	15 – 20	10 – 15	small tree, specimen, flwrs, fragrant, no pests
Mock Orange	Philadelphus lewisii	6 – 12	6 – 8	native, flwrs, fragrance, few pests
Mugo Pine	Pinus mugo	3 – 5	5	evergreen shrub, form, habit, foliage, few pests
Oceanspray (Native Shrub)	Holdodiscus discolor	10 – 15	12	native, few pests
Oregon grape	Mahonia aquifolium	6	6	native shrub, evergreen
Osmanthus	Osmanthus delavayi	4 – 6	5 – 7	evergreen shrub, fragrant, winter flwrs, few pests
Pacific Waxmyrtle	Myrica californica	10 – 20	10 – 20	evergreen shrub, native, few pests
Pink Princess Escallonia	Escallonia x exoniensis 'Frades'	6	6	evergreen shrub, foliage, flwrs, few pests
Prairiefire crabapple	Malus 'Prairiefire'	20	20	
Red barron crab	Malus 'Red Barron'	18	8	
Red Flowering Currant	Ribes sanguineum	8 – 10	6 – 8	native shrub, flwrs, wildlife, few pests
Rock Rose	Cistus x corbariensis	3 – 4	4 – 8	small evergreen shrub, erosion control, flwrs, no pests
Serviceberry	Amelanchier alnifolia var. semi-integrifolia	10 – 20	5	native, flwrs, wildlife, erosion control, few pests
Spike Winterhazel	Corylopsis spicata	4 – 6	8 – 12	nice shrub, early flwrs, fall color, pest resistant
Strawberry Tree	Arbutus unedo	8 – 12	8 – 12	evergreen shrub, parking lots, wildlife, few pests
Vine Maple	Acer circinatum	5 – 15	5 – 10	native, few pests
<b>Undeveloped Roadside Planting Strip</b>				
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Bigleaf maple	Acer macrophyllum	70	60	
Black hawthorn	Crataegus douglasii or C. suksdorfii	45	25	
Cascara	Rhamnus purshiana	30	25	
Douglas-fir	Pseudotsuga menziesii	200	60	
Grand fir	Abies grandis	300	40	
Madrone	Arbutus menziesii	100	50	
Oregon ash	Fraxinus latifolia	75	25	
Oregon white oak	Quercus garryana	65	45	
Ponderosa pine	Pinus ponderosa	200	30	
Red alder	Alnus rubra	100	40	
Silver fir	Abies amabilis	50	40	
Western hemlock	Tsuga heterophylla	150	40	
Western red cedar	Thuja plicata	100	30	
Chinese Elm	Ulmus parvifolia	40 – 50	varies	evergreen to semi-evergreen tree, many cultivars, pest resistant
Amur Corktree	Phellodendron amurense	30 – 45	35 – 50	form, fall color, bark, foliage, pest free, male clone – no fruit
Japanese Zelkova	Zelkova serrata	50 – 80	40 – 50	fall color, form, pollution tolerant, pest resistant
Eastern White Pine	Pinus strobus	100 – 125	25 – 35	specimen tree, evergreen, few pests
Alaska Cedar	Chamaecyparis nootkatensis	60 – 90	20 – 25	native evergreen, relatively pest free, cultivated varieties
Western Yew	Taxus brevifolia	30 – 50	20 – 30	native evergreen, relatively pest free
Brewer's Weeping Spruce	Picea breweriana	30 – 50	30 – 50	pendulous form, evergreen, relatively pest free



Deodar Cedar	<i>Cedrus deodara</i>	70	40	specimen tree, evergreen, few pests, smaller cultivated varieties
Jeffrey Pine	<i>Pinus jeffreyi</i>	60 – 120	40 – 50	native evergreen, large, relatively pest free
California Incense Cedar	<i>Calocedrus decurrens</i>	70 – 100	35 – 50	native, evergreen specimen, few pests
Hoops Blue Spruce	<i>Picea pungens</i> 'Hoopsii'	30 – 60	10 – 20	good form, blue specimen, some pests
Spanish Fir	<i>Abies pinsapo</i>	50	15 – 30	evergreen tree, specimen, pest free
Japanese Cryptomeria	<i>Cryptomeria japonica</i>	100 – 150	20 – 30	graceful conifer, few pests, cultivated varieties
London Plane Tree	<i>Platanus x acerifolia</i>	40 – 80	40- 50	lg shade tree, exquisite bark, few pests
Dawn Redwood	<i>Metasequoia glyptostroboides</i>	80 – 90	25 – 30	lg shade tree, exquisite bark, evergreen, few pests
Blue Atlas Cedar	<i>Cedrus libani</i> ssp. <i>Atlantica</i> 'Glauca'	150 – 200	30 – 40	specimen tree, evergreen, few pests
White Fir	<i>Abies concolor</i>	100 – 150	25 – 30	specimen tree, evergreen, few pests
Coast Redwood	<i>Sequoia sempervirens</i>	350	40 – 50	specimen tree, evergreen, few pests
Western Larch	<i>Larix occidentalis</i>	30 – 50	10 – 15	specimen tree, native, evergreen, few pests
<b>Downtown Area</b>	<b>(There are other species downtown that aren't on the list below)</b>			
		<b>At Maturity</b>		
<b>Common Name</b>	<b>Scientific Name</b>	<b>Height (ft)</b>	<b>Canopy (ft)</b>	
Incense cedar	<i>Libocedrus decurrens</i>	135	40	Guess
Chanticleer pear	<i>Pyrus calleryana</i> 'Glen's Form'	30	20	
Moraine honey locust	<i>Gleditsia tricanthos</i> 'Inermis'	135	40	Guess
Kwanzan cherry (on 6 foot min. graft)	<i>Prunus serrulata</i> 'Kwanzan'	30	20	
Red maple	<i>Acer rubrum</i>	120	50	Guess
Red oak	<i>Quercus rubra</i>	75	40	Guess
Frans Fontaine Hornbeam	<i>Carpinus betulus</i> 'Frans Fontaine'	50	25	
Giant sequoia	<i>Sequoiadendron giganteum</i>	300	50?	Guess

## Nieman, Mitchell

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**From:** Kristen Grompone <kristen.grompone@gmail.com> on behalf of Kristen Grompone <kristen@geeseguys.com>  
**Sent:** Wednesday, February 17, 2016 4:25 PM  
**To:** Nieman, Mitchell  
**Subject:** Re: Addling geese eggs?

Hi Mitch,

Here is an overview for you to share with Council, hopefully this is helpful.

Yes, depredation of resident Canada goose nests is included in our plan and pricing at Riverfront Park. USFW defines “residents” as those nesting within the lower 48 States in the months of March, April, May, or June, and reside within the lower 48 States in the months of April, May, June, July, and August. Basically, if we find Canada geese nesting in Oregon, they are residents and we can legally treat eggs or remove the nests to prevent hatch-out.

We will do our due diligence to locate nests from March 1st - June in the park and immediate vicinity. Once a nest is located, we gently remove the female with soft bristle brooms, then we determine the age of the eggs by performing a float test. If the eggs are 14 incubation days old or younger we will proceed with oiling the eggs per Humane Society of US standards. We perform a nest recheck one week after initial treatment to be sure the female has not laid any additional eggs. She will lay 1 egg per day over the course of 5-12 days, and will begin incubating the eggs once they have all been laid. We encourage the female to sit on the treated nest, as this decreases the likely of re-nesting within a season. It is also generally believed to be the least stressful and therefore most humane option for the adults. The caveat to this is that pairs can sometimes become quite aggressive while nesting. In the event geese become aggressive with humans or pets in the park or near public areas, those nests can be removed. With this option it is likely that the pair will re-nest nearby and the process will need to be repeated.

Egg depredation is included at Riverfront Park based on our proposal. We can certainly do so at Kellogg Lake/Kronberg as well, we would bill this separately @ a rate of \$50 per nest treated.

Spring migration is already underway and will continue through the last week of May. So yes, migratory visitors will be gone by the summer. Summer time is characterized by molted flightless adult residents and developing flightless goslings. Adults both with and without goslings molt their flight feathers and regrow them each summer, and goslings can fly ~10-12 weeks after hatch out. Once everyone can fly again, hazing will resume.

Because all the geese are grounded during the summer, our strategy shifts so that we don't lose gains. Our focus becomes exclusion (fencing at the waters edge and Flight Control PLUS) rather than hazing. Some of our Willamette river properties will have us herd the families off the property and down to the river with dogs ON LEASH. The families aren't chased, they are gently ushered/walked down to the water. This is completely up to the council discretion, and it is important to keep community perception in mind. We prefer exclusion to herding when it comes to families, as people become very emotionally attached to those adorable little yellow fluff ball goslings. Which is completely understandable, they are pretty cute in spite of being messy little buggers.

Exclusion activities will need to begin in March (ideally the last week of March), prior to goslings hatching out along the Willamette.

Here is a basic timeline of what to expect:

1. **Pairing/Territory Establishment/Nest Building:** begins around February 14th
2. **Egg Laying/Incubation (28-30 day incubation period):** begins around March 1st - June 1st
3. **Flight Control PLUS + Fencing installed:** No later than the last week of March to exclude goose families from the park.
4. **Hatch Out:** April 1st - May 15th
5. **Spring goose migration ends:** June 1st
6. **Hazing stops:** Residents - once goslings hatch, but hazing continues on migratory flocks through May.
7. **First Flight for goslings and molted adults:** Mid June- Early August
8. **Hazing Resumes:** Early August on resident geese
9. **Fall Migration begins:** October 1st
10. **2016-2017 Migration:** October 1st - June 1st

I hope this clarifies things. Please don't hesitate to reach out with questions; I recognize this is a lot of information to process.

Best,

**Kristen M. Grompone**

President / Wildlife Biologist: Geese Guys, LLC

T: 184-GOTGEESE ext 701

[Kristen@geeseguys.com](mailto:Kristen@geeseguys.com)

[www.geeseguys.com](http://www.geeseguys.com)



On Feb 16, 2016, at 8:41 AM, Nieman, Mitchell <[NiemanM@milwaukieoregon.gov](mailto:NiemanM@milwaukieoregon.gov)> wrote:

Hi Kristen- this e-mail came from one of my Councilmembers. I'd like your help in fact checking my response (below) before I reply to her...

If my memory serves me correctly, I think your scope of work includes depredation (including oiling of eggs or a similar technique). Also, your contract runs through first week of July, so typically migratory geese have moved on by then?

Any insight is appreciated.

Thanks,  
Mitch

-----Original Message-----

From: Batey, Lisa

Sent: Tuesday, February 16, 2016 12:18 AM

To: [TBurns@co.clackamas.or.us](mailto:TBurns@co.clackamas.or.us); Nieman, Mitchell; [astrantialgr@gmail.com](mailto:astrantialgr@gmail.com)

Subject: Addling geese eggs?

All:

So I know no decision was made to oil-coat the goose eggs around Riverfront Park, but should we be revisiting that? There, and in Kellogg Lake/Kronberg, too?

I just wanted to raise the question, as the time to do so is coming soon. Once the chicks come, the hazing has to stop, right? So will we loose all the ground we've gained?

Thanks! --Lisa

Lisa Batey, Council President  
Milwaukie City Council  
Phone: 503-786-7512  
[BateyL@milwaukieoregon.gov](mailto:BateyL@milwaukieoregon.gov)

Sent from my iPad

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**Goose Management Data - January 2016**

Property Name: Milwaukie Riverfront Park:  
11211 SE McLoughlin Blvd, Milwaukie, OR 97222

Date and Time arrived	Account	# of adult geese present	Goose Activity	Direction geese flew after clearing	Dog used?	RC Boat used?	Laser used?	Kayak Used?	Geese Flying Overhead?	Wildlife Activity Observed (n-geese)	Property Notes
1/31/2016 15:02:00	Milwaukie Riverfront Park: JEFF	0									
1/31/2016 13:30:00	Milwaukie Riverfront Park: JEFF	50	Feeding	NW	X						
1/31/2016 11:10:00	Milwaukie Riverfront Park: JEFF	0									
1/31/2016 8:55:00	Milwaukie Riverfront Park: JEFF	0									
1/31/2016 7:38:00	Milwaukie Riverfront Park: JEFF	3	Feeding	NW	X						
1/30/2016 14:55:00	Milwaukie Riverfront Park: JEFF	13	Feeding	W	X						
1/30/2016 11:00:00	Milwaukie Riverfront Park: JEFF	30	Feeding, Loafing, Swimming	W	X		X				
1/30/2016 8:47:00	Milwaukie Riverfront Park: JEFF	15	Feeding	W	X				X		
1/30/2016 7:28:00	Milwaukie Riverfront Park: JEFF	0							X		
1/29/2016 23:55:00	Milwaukie Riverfront Park: JEFF	30	Feeding, Loafing, Swimming	W	X		X				
1/29/2016 15:13:00	Milwaukie Riverfront Park: JEFF	12	Feeding	W	X						
1/29/2016 9:21:00	Milwaukie Riverfront Park: JEFF	0									
1/29/2016 7:37:00	Milwaukie Riverfront Park: JEFF	0									
1/28/2016 16:05:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Loafing, Swimming	W	X	X					
1/28/2016 10:19:00	Milwaukie Riverfront Park: JEFF	22	Feeding, Loafing, Swimming	W	X		X				
1/28/2016 8:45:00	Milwaukie Riverfront Park: JEFF	0									
1/28/2016 7:35:00	Milwaukie Riverfront Park: JEFF	0									
1/27/2016 15:45:00	Milwaukie Riverfront Park: JEFF	25	Feeding, Loafing, Swimming	W	X		X				
1/27/2016 10:35:00	Milwaukie Riverfront Park: JEFF	9	Feeding, Loafing	W	X		X				
1/27/2016 8:55:00	Milwaukie Riverfront Park: JEFF	0									
1/27/2016 7:42:00	Milwaukie Riverfront Park: JEFF	30	Feeding	W	X				X		
1/26/2016 14:20:00	Milwaukie Riverfront Park: JEFF	0									
1/26/2016 11:15:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Swimming	W			X				
1/26/2016 8:50:00	Milwaukie Riverfront Park: JEFF	0									
1/26/2016 7:40:00	Milwaukie Riverfront Park: JEFF	20	Feeding	W	X				X		
1/25/2016 15:42:00	Milwaukie Riverfront Park: JEFF	30	Feeding, Loafing	W	X				X		
1/25/2016 12:40:00	Milwaukie Riverfront Park: JEFF	30	Feeding	W	X						
1/25/2016 8:27:00	Milwaukie Riverfront Park: JEFF	0									
1/25/2016 7:02:00	Milwaukie Riverfront Park: JEFF	0									
1/24/2016 14:42:00	Milwaukie Riverfront Park: JEFF	0									
1/24/2016 12:59:00	Milwaukie Riverfront Park: JEFF	0									
1/24/2016 11:30:00	Milwaukie Riverfront Park: JEFF	0									
1/24/2016 8:25:00	Milwaukie Riverfront Park: JEFF	0									
1/24/2016 7:35:00	Milwaukie Riverfront Park: JEFF	0							X		
1/23/2016 14:39:00	Milwaukie Riverfront Park: JEFF	17	Feeding, Loafing	W	X						
1/23/2016 11:45:00	Milwaukie Riverfront Park: JEFF	0									
1/23/2016 8:37:00	Milwaukie Riverfront Park: JEFF	9	Feeding	W	X				X		
1/23/2016 7:24:00	Milwaukie Riverfront Park: JEFF	0									
1/22/2016 15:09:00	Milwaukie Riverfront Park: JEFF	12	Feeding, Loafing	W	X						
1/22/2016 11:33:00	Milwaukie Riverfront Park: JEFF	14	Feeding	W	X						
1/22/2016 9:20:00	Milwaukie Riverfront Park: JEFF	0									
1/22/2016 7:47:00	Milwaukie Riverfront Park: JEFF	0									
1/21/2016 16:18:00	Milwaukie Riverfront Park: JEFF	0									
1/21/2016 12:50:00	Milwaukie Riverfront Park: JEFF	30	Feeding	W			X				
1/21/2016 8:40:00	Milwaukie Riverfront Park: JEFF	0									
1/21/2016 7:32:00	Milwaukie Riverfront Park: JEFF	0									
1/20/2016 13:12:00	Milwaukie Riverfront Park: JEFF	15	Loafing	W			X				
1/20/2016 8:59:00	Milwaukie Riverfront Park: JEFF	0							X		
1/20/2016 7:40:00	Milwaukie Riverfront Park: JEFF	0									
1/19/2016 14:55:00	Milwaukie Riverfront Park: JEFF	0									
1/19/2016 12:55:00	Milwaukie Riverfront Park: JEFF	0									
1/19/2016 11:36:00	Milwaukie Riverfront Park: JEFF	30	Feeding, Loafing	W			X				
1/19/2016 8:38:00	Milwaukie Riverfront Park: JEFF	0									
1/19/2016 7:33:00	Milwaukie Riverfront Park: JEFF	0									
1/18/2016 14:48:00	Milwaukie Riverfront Park: JEFF	0									
1/18/2016 12:11:00	Milwaukie Riverfront Park: JEFF	0									
1/18/2016 8:45:00	Milwaukie Riverfront Park: JEFF	0									
1/18/2016 7:36:00	Milwaukie Riverfront Park: JEFF	10	Feeding	NW	X				X		



**Goose Management Data - January 2016**

Property Name: Milwaukie Riverfront Park:  
11211 SE McLoughlin Blvd, Milwaukie, OR 97222

Date and Time arrived	Account	# of adult geese present	Goose Activity	Direction geese flew after clearing	Dog used?	RC Boat used?	Laser used?	Kayak Used?	Geese Flying Overhead?	Wildlife Activity Observed (n-geese)	Property Notes
1/17/2016 14:58:00	Milwaukie Riverfront Park: JEFF	100	Feeding	SW	X				X		
1/17/2016 13:40:00	Milwaukie Riverfront Park: JEFF	0							X		
1/17/2016 11:25:00	Milwaukie Riverfront Park: JEFF	0									
1/17/2016 10:45:00	Milwaukie Riverfront Park: JEFF	0									
1/17/2016 8:50:00	Milwaukie Riverfront Park: JEFF	0							X		
1/17/2016 7:29:00	Milwaukie Riverfront Park: JEFF	50	Feeding	SW	X				X		
1/16/2016 15:30:00	Milwaukie Riverfront Park: JEFF	0									
1/16/2016 12:15:00	Milwaukie Riverfront Park: JEFF	0									
1/16/2016 8:52:00	Milwaukie Riverfront Park: JEFF	12	Feeding	W	X						
1/16/2016 7:27:00	Milwaukie Riverfront Park: JEFF	0									
1/15/2016 16:04:00	Milwaukie Riverfront Park: JEFF	0									
1/15/2016 12:20:00	Milwaukie Riverfront Park: JEFF	9	Feeding	W	X		X				
1/15/2016 9:21:00	Milwaukie Riverfront Park: JEFF	9	Feeding, Loafing	W	X						
1/15/2016 7:47:00	Milwaukie Riverfront Park: JEFF	9	Feeding, Loafing	W	X				X		
1/14/2016 16:02:00	Milwaukie Riverfront Park: JEFF	0									
1/14/2016 12:07:00	Milwaukie Riverfront Park: JEFF	0									
1/14/2016 8:49:00	Milwaukie Riverfront Park: JEFF	0							X		
1/14/2016 7:31:00	Milwaukie Riverfront Park: JEFF	0									
1/13/2016 15:37:00	Milwaukie Riverfront Park: JEFF	0									
1/13/2016 11:25:00	Milwaukie Riverfront Park: JEFF	0									
1/13/2016 9:28:00	Milwaukie Riverfront Park: JEFF	0							X		
1/13/2016 7:40:00	Milwaukie Riverfront Park: JEFF	500	Feeding, Swimming	NW	X				X		
1/12/2016 14:53:00	Milwaukie Riverfront Park: JEFF	0									
1/12/2016 12:25:00	Milwaukie Riverfront Park: JEFF	80	Feeding, Swimming	NW			X		X		
1/12/2016 8:40:00	Milwaukie Riverfront Park: JEFF	0							X		
1/12/2016 7:34:00	Milwaukie Riverfront Park: JEFF	0							X		
1/11/2016 15:59:00	Milwaukie Riverfront Park: JEFF	24	Feeding	W	X						
1/11/2016 11:21:00	Milwaukie Riverfront Park: JEFF	0									
1/11/2016 9:12:00	Milwaukie Riverfront Park: JEFF	0									
1/11/2016 7:25:00	Milwaukie Riverfront Park: JEFF	2	Feeding	NW	X				X		
1/10/2016 15:05:00	Milwaukie Riverfront Park: JEFF	0							X		
1/10/2016 10:46:00	Milwaukie Riverfront Park: JEFF	50	Feeding, Swimming	W	X						
1/10/2016 8:55:00	Milwaukie Riverfront Park: JEFF	0							X		
1/10/2016 7:40:00	Milwaukie Riverfront Park: JEFF	10	Feeding	W	X				X	2 cormorants, 50 gulls	
1/9/2016 15:27:00	Milwaukie Riverfront Park: JEFF	0									
1/9/2016 11:40:00	Milwaukie Riverfront Park: JEFF	0									
1/9/2016 8:38:00	Milwaukie Riverfront Park: JEFF	0									
1/9/2016 7:25:00	Milwaukie Riverfront Park: JEFF	0									
1/8/2016 14:43:00	Milwaukie Riverfront Park: JEFF	0							X		
1/8/2016 11:30:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Swimming	NW	X				X		
1/8/2016 8:31:00	Milwaukie Riverfront Park: JEFF	0							X		
1/8/2016 7:29:00	Milwaukie Riverfront Park: JEFF	0							X		
1/7/2016 16:00:00	Milwaukie Riverfront Park: JEFF	0									
1/7/2016 12:05:00	Milwaukie Riverfront Park: JEFF	0									
1/7/2016 9:18:00	Milwaukie Riverfront Park: JEFF	0									
1/7/2016 7:40:00	Milwaukie Riverfront Park: JEFF	1000	Feeding, Swimming	NW	X				X		
1/6/2016 16:05:00	Milwaukie Riverfront Park: JEFF	0									
1/6/2016 11:00:00	Milwaukie Riverfront Park: JEFF	0									
1/6/2016 9:15:00	Milwaukie Riverfront Park: JEFF	0									
1/6/2016 7:40:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Swimming	NW	X				X		
1/5/2016 15:58:00	Milwaukie Riverfront Park: JEFF	0									
1/5/2016 12:25:00	Milwaukie Riverfront Park: JEFF	0									
1/5/2016 9:25:00	Milwaukie Riverfront Park: JEFF	0							X		
1/5/2016 8:15:00	Milwaukie Riverfront Park: JEFF	2	Feeding	NE	X				X		
1/4/2016	Milwaukie Riverfront Park: JEFF	No Service	Ice Storm Hazardous Conditions								
1/3/2016	Milwaukie Riverfront Park: JEFF	No Service PM	Ice Storm Hazardous Conditions								
1/3/2016 10:30:00	Milwaukie Riverfront Park: JEFF	25	Feeding	W	X						Someone is distributing cracked corn on the property to feed the bird
1/2/2016 14:03:00	Milwaukie Riverfront Park: JEFF	0	Swimming								200 geese observed at the mouth of Johnson creek in the Willamette



**Goose Management Data - January 2016**

**Property Name:** Milwaukie Riverfront Park:  
11211 SE McLoughlin Blvd, Milwaukie, OR 97222

Date and Time arrived	Account	# of adult geese present	Goose Activity	Direction geese flew after clearing	Dog used?	RC Boat used?	Laser used?	Kayak Used?	Geese Flying Overhead?	Wildlife Activity Observed (n-geese)	Property Notes
1/2/2016 12:01:00	Milwaukie Riverfront Park: JEFF	0									
1/2/2016 9:20:00	Milwaukie Riverfront Park: JEFF	0							X		
1/2/2016 8:35:00	Milwaukie Riverfront Park: JEFF	96	Feeding	W	X						
1/1/2016	Milwaukie Riverfront Park: JEFF	No Service	New Year's Day Holiday								
	Total Goose Count: DEC. 2015	3234									
	Hazing Events	42									
	Site Visits	117									
	Service Days	29									









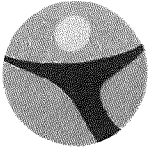
**Goose Management Data - December 2015**

**Property Name:** Milwaukie Riverfront Park:  
11211 SE McLoughlin Blvd, Milwaukie, OR 97222

Date and Time arrived	Account	# of adult geese present	Goose Activity	Direction geese flew after clearing	Dog used?	RC Boat used?	Laser used?	Kayak Used?	Geese Flying Overhead?	Wildlife Activity Observed (non-geese)	Account Notes
12/31/2015 16:08:00	Milwaukie Riverfront Park: JEFF	0					X		X		
12/31/2015 11:37:00	Milwaukie Riverfront Park: JEFF	0							X		
12/31/2015 8:45:00	Milwaukie Riverfront Park: JEFF	0									
12/31/2015 7:35:00	Milwaukie Riverfront Park: JEFF	500	Feeding	NW	X						
12/30/2015 16:10:00	Milwaukie Riverfront Park: JEFF	0					X		X		
12/30/2015 14:12:00	Milwaukie Riverfront Park: JEFF	0									
12/30/2015 9:00:00	Milwaukie Riverfront Park: JEFF	0									
12/30/2015 7:45:00	Milwaukie Riverfront Park: JEFF	50	Feeding	W	X						
12/29/2015 21:24:00	Milwaukie Riverfront Park: JEFF	0					X		X		
12/29/2015 15:02:00	Milwaukie Riverfront Park: JEFF	50	Feeding		X		X				
12/29/2015 10:41:00	Milwaukie Riverfront Park: JEFF	0									
12/29/2015 8:01:00	Milwaukie Riverfront Park: JEFF	500	Feeding	W	X						
12/28/2015 15:59:00	Milwaukie Riverfront Park: JEFF	0					X		X		
12/28/2015 11:55:00	Milwaukie Riverfront Park: JEFF	0									
12/28/2015 9:10:00	Milwaukie Riverfront Park: JEFF	0									
12/28/2015 7:35:00	Milwaukie Riverfront Park: JEFF	0									
12/27/2015 15:04:00	Milwaukie Riverfront Park: JEFF	0					X				
12/27/2015 10:30:00	Milwaukie Riverfront Park: JEFF	0									
12/27/2015 9:15:00	Milwaukie Riverfront Park: JEFF	0									
12/27/2015 8:00:00	Milwaukie Riverfront Park: JEFF	0									
12/26/2015 16:02:00	Milwaukie Riverfront Park: JEFF	0					X				
12/26/2015 14:37:00	Milwaukie Riverfront Park: JEFF	100	Feeding, Loafing	W	X		X				
12/26/2015 10:51:00	Milwaukie Riverfront Park: JEFF	0									
12/26/2015 7:31:00	Milwaukie Riverfront Park: JEFF	0							X		
12/25/2015 OFF	Milwaukie Riverfront Park: JEFF	No Service	Christmas Holiday								
12/24/2015 10:50:00	Milwaukie Riverfront Park: JEFF	0									
12/24/2015 7:34:00	Milwaukie Riverfront Park: JEFF	0									
12/23/2015 16:42:00	Milwaukie Riverfront Park: JEFF	0					X				
12/23/2015 13:16:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Loafing, Swimming		X		X		X		
12/23/2015 10:14:00	Milwaukie Riverfront Park: JEFF	0									
12/23/2015 7:45:00	Milwaukie Riverfront Park: JEFF	0							X		
12/22/2015 14:40:00	Milwaukie Riverfront Park: JEFF	0					X				
12/22/2015 12:07:00	Milwaukie Riverfront Park: JEFF	200	Feeding, Loafing		X		X				
12/22/2015 9:49:00	Milwaukie Riverfront Park: JEFF	0							X		
12/22/2015 7:35:00	Milwaukie Riverfront Park: JEFF	50	Feeding	W	X				X		
12/21/2015 15:20:00	Milwaukie Riverfront Park: JEFF	10	Swimming		X		X				
12/21/2015 12:00:00	Milwaukie Riverfront Park: JEFF	50	Feeding, Loafing	W	X						
12/21/2015 10:47:00	Milwaukie Riverfront Park: JEFF	100	Feeding, Loafing		X				X		
12/21/2015 8:45:00	Milwaukie Riverfront Park: JEFF	0									
12/21/2015 7:31:00	Milwaukie Riverfront Park: JEFF	10	Feeding	W	X						
12/20/2015 16:11:00	Milwaukie Riverfront Park: JEFF	0					X				
12/20/2015 13:17:00	Milwaukie Riverfront Park: JEFF	0									
12/20/2015 8:55:00	Milwaukie Riverfront Park: JEFF	0							X		
12/20/2015 7:32:00	Milwaukie Riverfront Park: JEFF	50	Feeding	W	X						
12/19/2015 13:35:00	Milwaukie Riverfront Park: JEFF	50	Feeding, Loafing	W	X				X		
12/19/2015 11:41:00	Milwaukie Riverfront Park: JEFF	0									
12/19/2015 8:49:00	Milwaukie Riverfront Park: JEFF	100	Feeding, Loafing, Swimming	W	X						
12/19/2015 7:28:00	Milwaukie Riverfront Park: JEFF	0									
12/18/2015 15:13:00	Milwaukie Riverfront Park: JEFF	0									
12/18/2015 14:06:00	Milwaukie Riverfront Park: JEFF	0									
12/18/2015 9:14:00	Milwaukie Riverfront Park: JEFF	0							X		

12/18/2015 7:37:00	Milwaukie Riverfront Park: JEFF	0								
12/17/2015 14:11:00	Milwaukie Riverfront Park: JEFF	40	Feeding		X		X			
12/17/2015 13:33:00	Milwaukie Riverfront Park: JEFF	0								
12/17/2015 11:24:00	Milwaukie Riverfront Park: JEFF	18	Feeding, Loafing		X		X			
12/17/2015 7:34:00	Milwaukie Riverfront Park: JEFF	0								
12/16/2015 14:55:00	Milwaukie Riverfront Park: JEFF	0								
12/16/2015 14:15:00	Milwaukie Riverfront Park: JEFF	0								
12/16/2015 11:56:00	Milwaukie Riverfront Park: JEFF	0							X	
12/16/2015 7:40:00	Milwaukie Riverfront Park: JEFF	0								
12/15/2015 15:59:00	Milwaukie Riverfront Park: JEFF	20	Feeding	W	X		X		X	
12/15/2015 12:44:00	Milwaukie Riverfront Park: JEFF	0							X	
12/15/2015 9:10:00	Milwaukie Riverfront Park: JEFF	0								
12/15/2015 7:32:00	Milwaukie Riverfront Park: JEFF	0							X	
12/14/2015 15:10:00	Milwaukie Riverfront Park: JEFF	0							X	
12/14/2015 13:29:00	Milwaukie Riverfront Park: JEFF	0								
12/14/2015 11:38:00	Milwaukie Riverfront Park: JEFF	50	Feeding, Loafing		X					
12/14/2015 8:52:00	Milwaukie Riverfront Park: JEFF	0								
12/14/2015 7:44:00	Milwaukie Riverfront Park: JEFF	0								
12/13/2015 14:00:00	Milwaukie Riverfront Park: JEFF	0							X	
12/13/2015 11:45:00	Milwaukie Riverfront Park: JEFF	0								
12/13/2015 10:22:00	Milwaukie Riverfront Park: JEFF	0							X	
12/13/2015 7:47:00	Milwaukie Riverfront Park: JEFF	0								
12/12/2015 16:32:00	Milwaukie Riverfront Park: JEFF	0								
12/12/2015 14:29:00	Milwaukie Riverfront Park: JEFF	0								
12/12/2015 8:36:00	Milwaukie Riverfront Park: JEFF	0								
12/12/2015 7:35:00	Milwaukie Riverfront Park: JEFF	2	Feeding	W	X					
12/11/2015 15:19:00	Milwaukie Riverfront Park: JEFF	75	Feeding, Loafing		X		X			
12/11/2015 12:39:00	Milwaukie Riverfront Park: JEFF	0								
12/11/2015 8:43:00	Milwaukie Riverfront Park: JEFF	50	Feeding	W	X					
12/11/2015 7:40:00	Milwaukie Riverfront Park: JEFF	0								
12/10/2015 15:00:00	Milwaukie Riverfront Park: JEFF	0								
12/10/2015 11:55:00	Milwaukie Riverfront Park: JEFF	0							X	
12/10/2015 9:00:00	Milwaukie Riverfront Park: JEFF	0								
12/10/2015 7:40:00	Milwaukie Riverfront Park: JEFF	0								
12/9/2015 16:25:00	Milwaukie Riverfront Park: JEFF	0								
12/9/2015 12:36:00	Milwaukie Riverfront Park: JEFF	0							X	
12/9/2015 10:12:00	Milwaukie Riverfront Park: JEFF	0							X	
12/9/2015 8:00:00	Milwaukie Riverfront Park: JEFF	0								
12/8/2015 16:30:00	Milwaukie Riverfront Park: JEFF	0							X	
12/8/2015 11:45:00	Milwaukie Riverfront Park: JEFF	0								
12/8/2015 9:30:00	Milwaukie Riverfront Park: JEFF	0							X	
12/8/2015 8:00:00	Milwaukie Riverfront Park: JEFF	0							X	
12/7/2015 14:42:00	Milwaukie Riverfront Park: JEFF	0								
12/7/2015 13:31:00	Milwaukie Riverfront Park: JEFF	0							X	
12/7/2015 11:26:00	Milwaukie Riverfront Park: JEFF	0							X	
12/7/2015 8:58:00	Milwaukie Riverfront Park: JEFF	40	Feeding	W	X					
12/7/2015 7:51:00	Milwaukie Riverfront Park: JEFF	0								
12/6/2015 15:08:00	Milwaukie Riverfront Park: JEFF	0								
12/6/2015 11:47:00	Milwaukie Riverfront Park: JEFF	0							X	
12/6/2015 8:55:00	Milwaukie Riverfront Park: JEFF	0							X	
12/6/2015 7:46:00	Milwaukie Riverfront Park: JEFF	0								
12/5/2015 14:50:00	Milwaukie Riverfront Park: JEFF	0							X	
12/5/2015 13:47:00	Milwaukie Riverfront Park: JEFF	0								
12/5/2015 11:45:00	Milwaukie Riverfront Park: JEFF	0								
12/5/2015 8:38:00	Milwaukie Riverfront Park: JEFF	0								
12/5/2015 7:27:00	Milwaukie Riverfront Park: JEFF	0							X	
12/4/2015 14:37:00	Milwaukie Riverfront Park: JEFF	0								
12/4/2015 11:46:00	Milwaukie Riverfront Park: JEFF	0								





**NORTH CLACKAMAS  
PARKS & RECREATION DISTRICT**

Administration

150 Beaver Creek Rd  
Oregon City, OR 97045  
503 742 4348 phone, 503 742 4349 fax  
ncprd.com

February 25, 2016

The Board of Commissioners acting as the Governing Body  
of the North Clackamas Parks and Recreation District

COPY

Members of the Board:

Board Order Authorizing North Clackamas Parks and Recreation District to Apply for Oregon Parks and Recreation Department Land and Water Conservation Fund Grant Program for Wichita Park

<b>Purpose/Outcomes</b>	N CPRD requests approval to apply for Oregon Parks and Recreation Department (OPRD) Land and Water Conservation (LWCF) funding to develop Wichita Park
<b>Fiscal Impact</b>	The grant application seeks approximately \$250,000 in funding to match N CPRD funds. The total project is estimated at \$510,000.
<b>Funding Source</b>	N CPRD Proposed Capital Projects Fund, 2016/2017 FY
<b>Duration</b>	If awarded, grant funds are available for two years
<b>Previous Action</b>	Not applicable.
<b>Strategic Plan Alliance</b>	<ol style="list-style-type: none"> <li>1. Honor, Utilize, Promote and Invest in our Natural Resources</li> <li>2. Ensure Safe, Healthy, and Secure Communities</li> </ol>
<b>Contact Person</b>	Katie Dunham, Senior Planner, 503-742-4358

**BACKGROUND:**

N CPRD partnered with the City of Milwaukie to complete 30% construction plans and specifications for Wichita Park in 2015. The park master plan, which was updated in 2014, identifies a play structure, perimeter path, picnic tables, benches and a disk golf basket within the park. The park is identified as a high priority need in the 2004 N CPRD Master Plan and 2007 N CPRD Parks and Recreation System Development Charges (SDC) Update Methodology Report and Capital Improvements Plan.

N CPRD is partnering with the City of Milwaukie and the Linwood Neighborhood District Association (NDA) to plan for and develop the neighborhood park. The City of Milwaukie owns the park and N CPRD plans for, develops, and manages the City's parks under an Intergovernmental Agreement. N CPRD is seeking approximately \$250,000 in OPRD LWCF grant funding to begin construction of the neighborhood park. Matching funds are budgeted in the proposed N CPRD 2016/2017 FY Capital Projects Fund and will be provided through SDCs and donations from the Linwood NDA. N CPRD has dedicated adequate funding for ongoing operations and maintenance of the new park.

The N CPRD Advisory Board recommended approval of this grant project in their February 10 meeting.

**RECOMMENDATION:**

Staff respectfully recommends that The Board of Commissioners, acting as the Governing Body of the North Clackamas Parks and Recreation District, approve the Board Order authorizing staff to proceed with the Oregon Parks and Recreation Department Land and Water Conservation Fund application.

Respectfully submitted,

Gary Barth, Director

BEFORE THE BOARD OF  
**NORTH CLACKAMAS PARKS AND RECREATION DISTRICT**  
OF CLACKAMAS COUNTY, STATE OF OREGON

**In the Matter of authorizing the North Clackamas Parks and Recreation District to apply for Local Government Grant assistance from the Oregon Parks and Recreation Department for Development of Wichita Park**

Order No. \_\_\_\_\_

Whereas, the Oregon Parks and Recreation Department is accepting applications for the Local Government Grant Program; and

Whereas, the North Clackamas Parks and Recreation District (NCPRD) desires to participate in this grant program to the greatest extent possible as a means of providing needed park and recreation improvements and enhancements; and

Whereas, the NCPRD Advisory Board and the Board of Directors of the NCPRD, have identified neighborhood park improvements at Wichita Park, within the Linwood neighborhood in Milwaukie, as a high project priority need in the NCPRD 2007 Parks and Recreation System Development Charges (SDC) Update Methodology Report and Capital Improvements Plan; and

Whereas, NCPRD and the City worked together to complete 30% Plans and Specifications for the park in May, 2015 and the park master plan is an element of the City of Milwaukie Comprehensive Plan; and

Whereas, NCPRD hereby certifies that the matching share for this application is readily available at this time; and

Whereas, NCPRD has estimated that annual neighborhood park maintenance costs will be approximately \$14,200 at completion of the park and NCPRD has dedicated adequate funding for on-going operations and maintenance of this park and recreation facility; and

NOW, THEREFORE, IT IS HEREBY ORDERED that the Clackamas County Board of Commissioners, acting as the Board of Directors of NCPRD, demonstrates its support for the submittal of a grant application to the Oregon Parks and Recreation Department for development of the Wichita Park and does hereby authorize the District to apply for approximately \$250,000 for site improvements, as specified above.

**DATED** this \_\_\_\_\_ day of February, 2016

**BOARD OF COUNTY COMMISSIONERS**

\_\_\_\_\_  
Chair

\_\_\_\_\_  
Recording Secretary



MILWAUKIE CITY COUNCIL  
**STAFF REPORT**

Agenda Item:  
Meeting Date: **August 4, 2015**

To: Mayor and City Council

Through: Mitch Nieman, Asst. to City Manager  
Bill Monahan, City Manager

Subject: **Parks and Recreation Board Annual Update**

Date: **July 28, 2015**

### **ACTION REQUESTED**

Receive and file annual update from the Milwaukie Parks and Recreation Board and provided insight and direction as needed.

### **BACKGROUND**

As part of its annual work plan, the Milwaukie Parks and Recreation Board (PARB) meets with Council each year to receive direction and insight and to convey progress made on tasks and strategies.

### **DISCUSSION**

PARB seeks direction, insight and concurrence on the following four major work items:

1. PARBs role in facilitating Council's goal: Complete neighborhood parks and develop a stronger strategy for maintenance of existing
  - PARB identified above goal as being two separate goals:
    - Complete neighborhood parks
      - **Action requested:** Council to prioritize what parks are to be completed and in which order
      - **Action requested:** NCPRD to provide a competitive assessment of all uncompleted parks to determine which are best positioned to receive grant funding
      - **Action requested:** NCPRD and Council to provide confirmation/forecast of a future ballot measure
    - Develop a stronger strategy for maintenance of existing
      - **Proposed strategy:** Creation of "Friends" groups to oversee site-specific and focused maintenance projects
        - Groups are 100% citizen-based and focus is limited to initiatives set by PARB
      - **Proposed strategy:** Adopt-a-Park Program
        - Engage NDAs, businesses, churches, and service organizations to facilitate ongoing maintenance

- **Proposed strategy:** Enhanced NCPRD/City communication
  - Professional staff to hold standing meetings to provide for increased accountability to PARB
- **Proposed strategy:** NCPRD maintenance analysis
  - PARB to work with NCPRD to analyze site specific maintenance programs to evaluate efficiency
- **Proposed strategy:** Enhanced community relations
  - Determine priorities of park users and correlate priorities with existing maintenance resources

## 2. PARB mission and vision statements

- Proposed Mission: Promote livability, sustainability, and use of shared parks, trails and open spaces throughout the City of Milwaukie
  - **Action requested:** Council to define “sustainability” in a broad context with respect to facilitating parks-based sustainability goals (micro) versus city-based sustainability goals (macro)
- Proposed Vision: Advise and make recommendations to City Council and NCPRD concerning shared parks, trails and open spaces throughout the City of Milwaukie in matters of use, livability and sustainability

## 3. Administration and oversight of Riverfront Park and Riverfront Park Task Force

- Riverfront Park
  - **Action requested:** Council to clarify PARBs role in providing technical oversight for daily operations and for modifications or improvements to existing and future phases of Riverfront Park
  - **Proposed strategy for short-term geese mitigation:** PARB recommends application of Flight Control Plus provided City and NCPRD public outreach strategies are accurate and forthright. Further, PARB recommends an RFP be issued for short-term hazing tactics
- Riverfront Park Task Force
  - **Action requested:** Council to clarify Riverfront Park Task Force’s role in providing technical oversight for daily operations and for modifications or improvements to existing and future phases of Riverfront Park
  - **Proposed strategy:** Council to make Riverfront Park Task Force a subcommittee of PARB



#### 4. Tree City USA/Heritage Tree Program

- PARB has been working diligently on updating the City's tree ordinance to enable the City to achieve "Tree City USA" designation.
  - **Action requested:** Council to review draft ordinance on August 27 and be ready to adopt ordinance on September 15

\*Other work items that are ongoing:

- Park Liaison Visits
- Sustainability Tour (September 19-20)

#### **FISCAL IMPACTS**

PARB receives no line item budget appropriation in the Biennium to administer above tasks and strategies in any of its work plans. All work is carried out through community volunteers and coordinated through a City staff liaison.

#### **WORK LOAD IMPACTS**

Liaising and preparation of materials and/or correspondence for Council consideration, and any required follow-up action

#### **ALTERNATIVES**

Possible alternatives depend on Council consideration of each issue identified above

#### **ATTACHMENTS**

None