

City Council Meeting November 1, 2021

Executive Session - 5:00 p.m. Work Session – 5:30 p.m. Council Meeting - 7:00 p.m. Urban Renewal Agency – Following Council Meeting (Held in Council Chambers)

This meeting is taking place with social distancing precautions in place.

To Provide Public Comment:

- Written comments may be submitted to the City Recorder (Wilsonville City Hall, 29799 SW Town Center Loop East, Wilsonville, OR 97070).
- Digital comments (email) may be submitted to cityrecorder@ci.wilsonville.or.us.
- Individuals may participate online through the Zoom videoconferencing platform.
- Contact City Recorder at (503) 570-1506 cityrecorder@ci.wilsonville.or.us to register.

You can watch the City Council Meeting here:

YouTube: <u>youtube.com/c/CityofWilsonvilleOR</u> Zoom: <u>https://us02web.zoom.us/j/81536056468</u>

City of Wilsonville

City Council Meeting November 1, 2021



AGENDA

WILSONVILLE CITY COUNCIL MEETING NOVEMBER 1, 2021 7:00 P.M.

CITY HALL 29799 SW TOWN CENTER LOOP EAST WILSONVILLE, OREGON

Mayor Julie Fitzgerald

Council President Kristin Akervall Councilor Charlotte Lehan Councilor Joann Linville Councilor Ben West

CITY COUNCIL MISSION STATEMENT

To protect and enhance Wilsonville's livability by providing quality service to ensure a safe, attractive, economically vital community while preserving our natural environment and heritage.

Executive Session, Work Session, City Council, and URA meetings will be held in the Council Chambers, City Hall, 1 st Floor			
5:00 P.M. A. Pursu	EXECUTIVE SESSION nant to: ORS 192.660 (2)(e) Real Property Transactions ORS 192.660(2)(h) Legal Counsel / Litigation	[25 min.]	
Break to swite	ch Zoom accounts	[5 min.]	
5:30 P.M.	REVIEW OF AGENDA AND ITEMS ON CONSENT	[5 min.]	
5:35 P.M.	COUNCILORS' CONCERNS	[5 min.]	
B. Urban	PRE-COUNCIL WORK SESSION al Housing Development Zones (Rybold) Forest Management Plan (Rappold) ential Building Code Adoption (Carlson/Adams)	[30 min.] [30 min.] [15 min.]	
6:55 P.M.	ADJOURN		
Break to swite	ch Zoom accounts	[5 min.]	

CITY COUNCIL MEETING

The following is a summary of the legislative and other matters to come before the Wilsonville City Council a regular session to be held, Monday, November1, 2021 at City Hall. Legislative matters must have been filed in the office of the City Recorder by 10 a.m. on October 19, 2021 Remonstrances and other documents pertaining to any matters listed in said summary filed at or prior to the time of the meeting may be considered there with except where a time limit for filing has been fixed.

10/26/2021 1:59 PM Last Updated

7:00 P.M. CALL TO ORDER

- A. Roll Call
- B. Pledge of Allegiance
- C. Motion to approve the following order of the agenda.

7:05 P.M. MAYOR'S BUSINESS

A. Upcoming Meetings

7:15 P.M. COMMUNICATIONS

7:15 P.M. CITIZEN INPUT AND COMMUNITY ANNOUNCEMENTS

This is an opportunity for visitors to address the City Council on items *not* on the agenda. It is also the time to address items that are on the agenda but not scheduled for a public hearing. Staff and the City Council will make every effort to respond to questions raised during citizens input before tonight's meeting ends or as quickly as possible thereafter. <u>Please limit your comments to three minutes</u>.

7:25 P.M. COUNCILOR COMMENTS, LIAISON REPORTS AND MEETING ANNOUNCEMENTS

- A. Council President Akervall
- B. Councilor Lehan
- C. Councilor West
- D. Councilor Linville

7:45 P.M. CONSENT AGENDA

A. Resolution No. 2926

Resolution Of The City Of Wilsonville Adopting The Oregon Residential Specialty Code. (Carlson/Adams)

B. Resolution No. 2933

A Resolution Of The City Of Wilsonville Authorizing The City Manager To Execute A Professional Services Agreement Contract With Murraysmith, Inc. For Owner's Representative Services For The Boeckman Road Corridor Project (Capital Improvement Project # 2102, 4205, 4206, 4212). (Weigel)

C. Minutes of the October 18, 2021 City Council meeting. (Veliz)

7:50 P.M. NEW BUSINESS

A. None.

7:50 P.M. CONTINUING BUSINESS A. None.

- 7:50 P.M. PUBLIC HEARING
 - A. None.
- 7:50 P.M. CITY MANAGER'S BUSINESS
- 7:55 P.M. LEGAL BUSINESS
- 8:00 P.M. ADJOURN

INFORMATION ITEMS – No Council Action Necessary.

AN URBAN RENEWAL AGENCY MEETING WILL IMMEDIATELY FOLLOW THE CITY COUNCIL MEETING

Time frames for agenda items are not time certain (i.e. Agenda items may be considered earlier than indicated.) Assistive Listening Devices (ALD) are available for persons with impaired hearing and can be scheduled for this meeting if required at least 48 hours prior to the meeting. The city will also endeavor to provide the following services, without cost, if requested at least 48 hours prior to the meeting: Qualified sign language interpreters for persons with speech or hearing impairments. Qualified bilingual interpreters. To obtain services, please contact the City Recorder, (503) 570-1506 or cityrecorder@ci.wilsonville.or.us.



CITY COUNCIL MEETING STAFF REPORT

Meeting Date: November 1, 2021			Subject: Vertical Housing Development Zones (VHDZ)			
		Staff Member : Kimberly Rybold, AICP, Senior Planner				
		Department: Community Development				
Action Required			sory Board/Com	mission		
☐ Motion		_	Approval			
Public Hearing Date:			Denial			
			None Forwarded			
 □ Ordinance 1st Reading Dat □ Ordinance 2nd Reading Dat 						
•	le.	 Not Applicable Comments: N/A 				
□ Resolution		Com	iments: N/A			
\boxtimes Information or Direction						
□ Information Only						
□ Council Direction						
Consent Agenda						
Staff Recommendation: Pro	ovide di	rection	n on local VHDZ cr	iteria and confirm the		
boundary for VHDZ in Town C	enter.					
Recommended Language for Motion: N/A						
Project / Issue Relates To:						
⊠Council Goals/Priorities: ⊠Add			Master Plan(s):	□Not Applicable		
			ge Master Plan,			
Implementation Town C		Center P	lan			

ISSUE BEFORE COUNCIL:

The project team will share recommendations for local criteria to promote active ground floor uses and a proposed VHDZ boundary in Town Center.

EXECUTIVE SUMMARY:

Vertical Housing Development Zones (VHDZ) offers a partial property tax exemption on building improvement value for developments that include housing with non-residential use on the ground floor, with the amount of tax exemption increasing based on the size of the project. Two recent planning processes, the Town Center Plan and Equitable Housing Strategic Plan, identified the use of VHDZ as a tool to incentivize multi-story, mixed-use development in specific locations in Wilsonville. The 2019 Town Center Plan included a short-term implementation action (ED.10 – Consider Adopting a VHDZ) to explore locations in Town Center where this may be a suitable tool to help achieve the Plan's goals by stimulating targeted construction of vertical mixed-use buildings. The 2020 Equitable Housing Strategic Plan included VHDZ as one of the tax abatements to explore (Action 1D: Create Housing Tax Abatement Programs to Achieve Housing Diversity and Affordability) to promote the development of housing with access to services and amenities in the Villebois Village Center and Town Center.

At the August 2 City Council work session, the project team shared the findings of a memorandum to support Council's consideration of VHDZ implementation. Council generally supported adoption of VHDZ in Villebois Village Center and Town Center, but requested additional information on specific options for local criteria to ensure that projects provide active ground floor uses that are accessible to the public. Following the work session, the project team conducted interviews with the three cities in the Portland region that have adopted VHDZ programs with some local criteria (Tigard, Milwaukie, and Beaverton) to get input on which types of criteria would be best suited to address Council's direction. ECONorthwest prepared a research memo (Attachment 1) summarizing these conversations and, based on the findings, developed a recommended list of criteria the City could use to determine VHDZ project eligibility.

The memo notes that all of these cities use design-related criteria to ensure that non-residential space is constructed to be functional for businesses and has direct pedestrian access to the street. Milwaukie explicitly applies these standards to live/work spaces in addition to other non-residential spaces. The cities also noted the importance of clearly defining the policy intent for the program, requiring consistency with adopted plans and policies for the area. To address Council's desire for projects to provide active ground floor spaces that will be accessible to the public, the project team recommends the following:

- Design criteria for commercial spaces, including direct entrances to the street, design to accommodate users engaged in the exchange of goods or services with the public, and a requirement for staff review and approval that the design meets the criteria.
- Specific live/work design criteria, including direct entrances to the street, window/transparency requirements, and limits on how much of the required non-residential floor area can be met through live/work space in a project.
- A requirement for policy consistency with adopted plans for each area.

The project team also requests further Council direction on which parcels should be eligible for VHDZ in Town Center. Considerations such as planned future uses, existing uses, and location influence the effectiveness of this tool in achieving the Town Center Plan's goals. The attached memo outlines how these factors apply to specific areas within Town Center and how this type of incentive could interact with possible future use of Urban Renewal in Town Center. Based on these factors, the memo includes a proposed VHDZ boundary that the project team believes best captures future development opportunities that will implement the Town Center Plan's vision for an active,

vibrant main street. This boundary includes most parcels within the Main Street sub-district (MSD), where active ground floor uses are focused in the Town Center Plan, as well as other parcels adjacent to these where current or future street frontage and allowed building height would support multi-story residential development with active ground floor uses. Parcels where residential uses are less desirable, such as areas adjacent to Interstate 5, are not included within the proposed boundary. Because VHDZ applies at a parcel level, the boundary does not align perfectly with the Town Center sub-districts.

To determine if the project team is ready to begin the process of implementing VHDZ in these areas, the project team seeks feedback on the following questions:

- Do you agree with the recommended list of local policy and design criteria for the City's VHDZ program? Are there any criteria that should be added or removed?
- Does the proposed VHDZ boundary align with your expectations of where VHDZ should be applied in Town Center to incentivize multi-story residential development with active ground floor space? Should any parcels be added or removed?

Based on City Council direction, the project team will begin the process to establish VHDZ in the Villebois Village Center and in Town Center.

EXPECTED RESULTS:

City Council will provide staff with direction on applying criteria to eligible projects and confirm the desired VHDZ boundary for Town Center.

TIMELINE:

Pending City Council direction, additional work to implement VHDZ will occur throughout 2021, with adoption anticipated in early 2022.

CURRENT YEAR BUDGET IMPACTS:

Total project scope is approximately \$45,000. Funding for consultant services will be partially funded by professional services funds from the Planning Division budget, supplemented by funding from CIP project #3004 for Town Center related VHDZ work. The adopted budget for FY2021-22 includes approximately \$230,000 for Town Center Implementation. Staff time will be required to create and administer the VHDZ program.

FINANCIAL REVIEW:

Reviewed by: <u>KAK</u> Date: <u>10/25/2021</u>

LEGAL REVIEW:

Reviewed by: <u>BAJ</u> Date: <u>10/26/2021</u>

COMMUNITY INVOLVEMENT PROCESS:

The Town Center Plan included a robust and inclusive public outreach process where VHDZ was identified as an implementation action. The priorities identified in the Equitable Housing Strategic Plan, including tax abatements for housing, were generated through a community input process that included focus groups, surveys, and Task Force input. Any mixed-use development qualifying

VHDZ Staff Report

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for VHDZ will go through the typical City development review process before the Development Review Board, which allows for public comment from residents, neighbors and property owners.

POTENTIAL IMPACTS OR BENEFIT TO THE COMMUNITY:

Adoption of VHDZ would provide a targeted incentive for ground-floor retail uses to support the community's vision for more vibrant, walkable, mixed-use places as called for in the Villebois Village Master Plan and Town Center Plan. Ultimately, adoption of VHDZ can create long-term community wealth through the construction of mixed-use buildings that will be fully taxed after the partial abatement ends.

ALTERNATIVES:

City Council can request additional research from the project team for review at a later work session or provide direction to allow future mixed-use development in the Villebois Village Center and Town Center to happen organically without the assistance of a tax abatement incentive.

CITY MANAGER COMMENT:

N/A

ATTACHMENT:

1. Vertical Housing Development Zone Evaluation: October 2021



ECONOMICS · FINANCE · PLANNING

DATE: October 15, 2021 TO: Wilsonville City Council CC: Kim Rybold, City of Wilsonville FROM: Becky Hewitt, Lorelei Juntunen, and Oscar Saucedo-Andrade, ECONorthwest SUBJECT: Vertical Housing Development Zone Evaluation: Local Criteria and Town Center **Boundaries**

Introduction

The City of Wilsonville contracted with ECONorthwest to assist with evaluating implementation of one or more Vertical Housing Development Zones (VHDZs)-a property tax abatement program aimed at incentivizing mixed use development—in the Villebois Village Center and/or Wilsonville Town Center. City Council has discussed the potential VHDZs at two recent meetings (May 3, 2021 and August 2, 2021). ECONorthwest (in collaboration with staff) produced a previous memo addressing the initial information requested at the August 2 City Council meeting. At the end of the August 2 meeting, City Council directed staff and ECONorthwest to provide additional analysis and recommendations to guide City Council in implementing a VHDZ program. This memo provides City Council with the following requested guidance:

- Recommendations for adopting local criteria for ground-floor commercial space to qualify for VHDZ; and
- VHDZ boundary options for the Town Center.

This memorandum addresses these topics to support Council decision-making at the upcoming meeting on November 1, 2021 regarding how to proceed with VHDZ adoption for the areas in question.

Local Criteria for Ground-Floor Commercial Space

What local criteria should the City adopt related to ground-floor commercial space for projects to qualify for vertical housing tax abatement?

Experience from Other Jurisdictions

Roughly 25 cities across Oregon have established one or more VHDZs to incentivize multistory, mixed-use developments. Of the VHDZ programs reviewed by the Project Team (including Tigard, Milwaukie, Beaverton, Hillsboro, Gresham, and Canby), several rely on state statutory requirements to determine project eligibility and do not impose additional local criteria. However, Tigard, Milwaukie, and Beaverton have design-related criteria or definitions that help ensure that the commercial space meets City expectations. To better understand the effectiveness of these local criteria and definitions and the type of ground-floor commercial spaces that have been built with VHDZ, the Project Team conducted interviews with the three cities in the Portland region that have adopted VHDZ programs with some local criteria

(Tigard, Milwaukie, and Beaverton). Themes and findings from those interviews are summarized below.

Local Criteria and Review

- Several cities have design-related criteria that they use to make sure the space is functional for businesses and contributes to a pedestrian-oriented building. These criteria have resulted in projects with independent commercial spaces that are functional for businesses. Design-related reviews for VHDZ are separate from the land use review process.
 - Beaverton requires additional design input by City program staff to ensure the design of each VHDZ project conforms to adopted City plans, policies and urban design frameworks. While the criteria references existing plans and policies, the separate review process allows staff to address details that may not be spelled out in code or policies, such as how people access the commercial space. The city's application form also asks applicants to describe "how the proposed project is in the best interest of the community and will enhance the local area."
 - Tigard includes a specific definition of commercial space: "A space that is publicly accessible from the primary public street and operated by an entity engaged in the exchange of goods or services with the public, as allowed by the underlying base zone. Examples of commercial uses include restaurants, convenience markets, retail stores and professional offices."
- Other jurisdictions recommended having explicit criteria related to live/work space to confirm whether and under what circumstances live / work space counts towards meeting the commercial space requirements. Milwaukie explicitly allows live/work spaces to count, and requires that the work portion have direct access to street level entrances. Beaverton and Tigard do not explicitly address live/work space in their criteria.
- Criteria are the same across VHDZs within a jurisdiction. While several of the jurisdictions interviewed have multiple areas designated as VHDZs, they apply the same criteria to all areas, and recommend this approach for consistency. (One possible way to differentiate between different areas may be to require consistency with goals/policies for the area, though this approach is not in use in any of the jurisdictions contacted.)
- Decisions are made by staff, often with consultation across departments. Economic development / community development staff are typically the lead in administering the program. Decisions are often somewhat discretionary, particularly regarding commercial criteria.
- Clear policy intent is helpful in supporting staff decisions. Milwaukie staff
 particularly recommended stating the intent of the program and ensuring that
 developments seeking the VHDZ tax abatement are meeting that intent. This could
 potentially tie back to adopted plans and policies for the area.

Outcomes in Development Projects

- The new buildings that have received VHDZ have had a range of outcomes for businesses occupying the commercial space. Many of the buildings are not fully leased. Some spaces have never been occupied and require additional investment in tenant improvements to make them usable. However, others have been leased to neighborhood-serving businesses, such as a coffee shop, plant store, barber shop, home goods store, nail salon, tea shop, and tap room. One (in downtown Beaverton) has a food hall. The retail spaces in Central Beaverton have been most successful, likely due to a combination of sustained investment by the City, a restaurant recruitment strategy, and additional incentives to bring businesses to the area, such as tenant improvement grants. One Beaverton developer ECONorthwest spoke with who has built projects under the VHDZ program specifically pointed to the importance of tenant improvement grants to attract tenants to the spaces.
- Both Milwaukie and Beaverton have approved projects for VHDZ with live/work to meet some or all of the commercial requirements. Both jurisdictions that have approved VHDZ with live/work expressed mixed feelings about those projects but noted that the retail market in the locations in question may not have been strong enough to support additional retail space at the time. However, Beaverton staff reported that one VHDZ project with live/work space has since filled many of the spaces with businesses.

Recommended Criteria

Based on the experience and recommendations of other jurisdictions and ECONorthwest's prior research, the project team recommends including local criteria for the City's VHDZ program. These local criteria should build from a clear statement of policy intent to address:

- Design criteria for commercial spaces, such as:
 - direct entrances to the street
 - being designed for use by an entity engaged in the exchange of goods or services with the public
 - requirement for staff review and approval that the design meets the criteria
- Specific live/work design criteria, such as:
 - Direct entrances to the street
 - Window / transparency requirements
 - Limits on how much of the non-residential floor area required can be met through live/work space
- Requirement for policy consistency with adopted plans for each area

Town Center VHDZ Boundary Options

If the City adopts VHDZ for the Town Center, where should it apply?

Plan and Policy Context

With guidance from City staff, ECONorthwest reviewed relevant plans and policies including the Wilsonville Town Center Plan and associated land use designations to better understand the vision for the Town Center and how can VHDZ help support development to better serve the interest and needs of residents, visitors, businesses, and local employers.

Exhibit 1, below, illustrates the land use designations for the Town Center. It also describes the intended uses and scale of development envisioned for each area of the Town Center. Based on this policy intent, ECONorthwest summarized implications for applying VHDZ in the Town Center in Exhibit 2. These implications are intended to help narrow down the specific parcels that would be best suited for VHDZ given the policy intent for allowed uses and scale of development.

Exhibit 1. Town Center Land Use

Source: Wilsonville Town Center Plan



Main Street District (MSD)

Mixed-use buildings with active ground floor uses, generally 3 to 4 stories.

Commercial - Mixed-Use (C - MU)

Mixed of office, entertainment, hospitality, civic uses, generally 3 to 5 stories, residential if not adjacent to freeway.

Mixed-Use (MU)

Mix of residential retail, office, services, generally 2 to 4 stories.

Neighborhood - Mixed-Use (N - MU)

Mix of townhomes, small-scale commercial businesses, generally 2 to 3 stories.

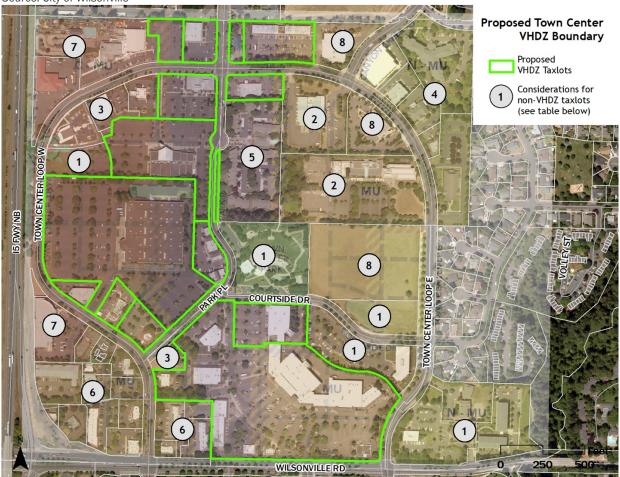
Land Use Designation	Land Use Purpose	Implications for VHDZ
Main Street District (MSD)	Allow 3-4 story mixed- use buildings with active ground floor uses.	 Encourages vertical mixed-use (different uses in the same building, stacked vertically) with an active ground floor, which is what VHDZ is intended to incentivize. 3-4 story development supports mixed-use development that would qualify for VHDZ, but might not be tall enough to maximize VHDZ incentives.
Commercial – Mixed-Use (C – MU)	Allow 3-5 story buildings with a mixed of office, entertainment, hospitality and civic uses. Allow residential uses if not adjacent to freeway.	 VHDZ is not a good fit for areas adjacent to the freeway given that residential uses are not intended there. Areas further from the freeway may be appropriate. Pedestrian-oriented buildings may not be a priority everywhere within this land use designation. Parcels fronting a key roadway where an active ground floor is a priority would be best suited for VHDZ. Emphasis of mixed uses and height is supportive of VHDZ-eligible mixed-use development.
Mixed-Use (MU)	Allow 2-4 story buildings with mix of residential, retail, office and services.	 Supports mixed-use development, but vertical mixed-use is not necessarily a priority. Active ground floor uses may not be a priority everywhere within this land use designation. Parcels fronting a key roadway where an active ground floor is a priority would be best suited for VHDZ. 2 stories too low to be practical for vertical development that also includes ground-floor retail uses. 3-4 story development supports mixed-use development that would qualify for VHDZ, but might not be tall enough to maximize VHDZ incentives.
Neighborhood - Mixed-Use (N - MU)	Allow 2-3 story buildings with a mix of townhomes and small-scale commercial businesses.	 2-3 stories is not supportive of vertical mixed-use development. The intended scale and mix suggests smaller buildings and horizontal mixed use (different uses in different buildings) rather than vertical mixed use.

Exhibit 2. Town Center Land Use Designations and Implications for VHDZ

Source: Wilsonville Town Center Plan ECONorthwest Analysis

Town Center VHDZ Boundary Options

Based on the considerations outlined above, City staff prepared the map in Exhibit 3 that illustrates a proposed Town Center VHDZ boundary. The proposed VHDZ focuses on parcels within or partially within the Main Street District. It also includes limited other parcels where the planned land use encourages vertical mixed-use development with residential uses and active ground floors, with sufficient height to take advantage of the incentive, and where the parcel has or will have frontage on a key street where active ground floors are a priority. Exhibit 3 shows the proposed boundary and areas that are not proposed for inclusion. The Town Center area includes many large parcels that span multiple land use designations and are planned for future streets that do not currently exist. Because VHDZ applies at a parcel level, the VHDZ boundary may not align perfectly with future land use districts.



Page 16 of 236

Exhibit 3.Town Center VHDZ Boundary Options

Source: City of Wilsonville

Areas not proposed for inclusion in the VHDZ are numbered on Exhibit 3 to correspond with the considerations listed below.

- **1** Property owned by the City, future development suitable for VHDZ is unlikely.
- **2** Tax-exempt property (these properties could be added later if redevelopment with taxable uses were anticipated).
- **3** Properties that were built recently (e.g., within the last 20 years) and are less likely to redevelop.
- **4** The N-MU subdistrict does not allow sufficient building height for efficient vertical mixed-use development.
- **5** Existing housing (apartments) where residents would be displaced if the property were redeveloped.
- 6 Small businesses that would be displaced if the property were redeveloped.
- 7 Areas adjacent to the highway are not well suited for residential development; the City should not incentivize housing there.
- **8** Areas where the Town Center Plan anticipates more horizontal mixed use and does not emphasize mixed-use buildings with active ground floors.

VHDZ Interaction with Future TIF District

The City of Wilsonville is considering establishing a tax increment financing (TIF) district in the Town Center as one possible funding/financing tool for public infrastructure investments needed to spur private development. TIF is a statutorily authorized tool used by many Oregon jurisdictions to fund investments in redevelopment and infrastructure. Once a TIF district is established, the TIF revenues generated by growth in assessed value (AV) from existing development¹ and new development² are used to fund capital projects identified in the adopted TIF plan. New development is the major driver of TIF revenue, and the timing of that development in the life of the TIF district is critical to the financial success of most TIF districts. Overall, VHDZ affects revenues to a TIF district in a similar way that it affects revenue to other taxing districts if TIF is not in place: there is some increase in taxable value and tax revenue when the building is first built, based on the portion of the building that is not tax-exempt, but the full assessed value of the building does not hit the tax rolls until 10 years later. Exhibit 4 illustrates the tax revenue over time from an example project receiving a vertical housing tax abatement. How much of the tax increment (the light blue area in Exhibit 4) flows to the TIF district vs. overlapping taxing districts depends on when development occurs relative to when the TIF district takes effect.

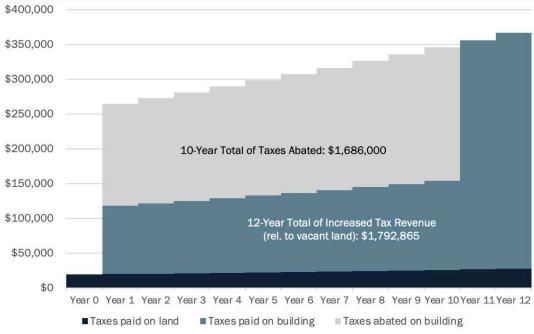


Exhibit 4. Tax Revenue and Abatement Analysis (Villebois Market Conditions) Source: ECONorthwest

Note: Tax revenue and abatement analysis was modeled after the 4th and Main mixed-use development.

¹ The Oregon Constitution (Measure 50) limits the rate of growth of property's taxable value to a maximum of 3% each year, unless there are major improvements to the property.

² New development or major improvements create new AV, but not at its full market value. The initial AV for new development is set based on the average ratio between Real Market Value (RMV) and AV for that type of property within a jurisdiction.

Establishing a TIF district requires a feasibility study that includes revenue projections and consideration of inflation and borrowing costs to estimate the district's capacity to invest in projects. If the VHDZ is in place before a TIF district is established, the feasibility study can (and should) account for the potential use of the tax abatement by some of the area's development, as this would affect the timing and amount of property tax revenue the district is projected to collect and consequently affect the capacity for the TIF district to fund new projects. As part of that feasibility study, the City would want to evaluate how much of the expected redevelopment might be eligible for the tax abatement.

In sum, having a VHDZ overlap with at TIF district does have some impact on the finances of the TIF district, but generally not to a degree that would pose a substantial obstacle to the success of TIF. However, it is another reason to focus the VHDZ to only the areas where it will have the greatest benefit.

Conclusion and Requested Council Direction

To address Council's desire for true commercial space in new mixed-use buildings, other jurisdictions' experience and ECONorthwest's research suggest use of design-based criteria. This approach allows the City to ensure that buildings supported with VHDZ offer space that works for desired businesses while basing decisions on information available at the time of application for the VHDZ program, when specific commercial tenants may not be known. Specific design requirements are particularly important for any live/work space that is intended to meet commercial space requirements, so that the space is designed in ways that can work for small businesses.

Additionally, it is important to be strategic in where to apply VHDZ in the Town Center to align with the City's other goals and policies, avoid potential for displacing existing residents and small businesses, and limit impacts to a potential future TIF district. The VHDZ boundary should focus on areas with the greatest opportunity for near- to mid-term mixed-use residential development with active ground floor uses.

Based on these findings, the project team recommends the following for Council's consideration:

- Advance two VHDZs for adoption: one in the Villebois Village Center and one in the Town Center's Main Street District, in the area shown in Exhibit 3.
- Apply local criteria in addition to those in statute to ensure that spaces used to meet the requirement for ground-floor commercial use are designed to be functional and desirable for businesses.

To further address Council's desires to promote neighborhood-serving businesses in the Villebois Village Center and to complement a VHDZ program, the project team also recommends exploring additional economic development strategies and programs aimed at supporting desired businesses in locating within the Village Center as a next step following VHDZ adoption.



CITY COUNCIL MEETING STAFF REPORT

Meeting Date: November 1, 2021		Sub	Subject: Urban Forest Management Plan			
		Staff Member : Kerry Rappold, Natural Resources Manager				
		Department: Community Development				
Action Required		Advisory Board/Commission Recommendation				
	Motion		Approval			
	Public Hearing Date:		Denial			
	Ordinance 1 st Reading Date:		None Forwarded			
	Ordinance 2 nd Reading Date:	\boxtimes	Not Applicable			
	Resolution	Cor	nments: N/A			
\boxtimes	Information or Direction					
	Information Only					
	Council Direction					
	Consent Agenda					
Sta	Staff Recommendation: Review and provide input on the draft Urban Forest Management					
Plar	Plan.					
Recommended Language for Motion: N/A						

Project / Issue Relates To:		
⊠Council Goals/Priorities: Goal 7: Protect Wilsonville's environment and increase access to sustainable lifestyle choices.	□Adopted Master Plan(s)	□Not Applicable

ISSUE BEFORE COUNCIL:

The project team will provide an overview of the draft Urban Forest Management Plan (UFMP) and seek input from the City Council.

Urban Forest Management Plan Staff Report

EXECUTIVE SUMMARY:

In 2020, the City began the UFMP to guide the City's programs and actions related to the urban forest. Active management of the community's urban forest is becoming more critical as it ages and changes. This will be the City's first comprehensive Urban Forest Management Plan. With the initial timeline for the project, the draft Plan was scheduled for the City Council in early summer, but due to delays associated with incorporating new data from the American Forests Tree Equity Score and an updated street tree inventory that resulted from the winter storm, review of the draft Plan was rescheduled for the fall.

The UFMP provides an integrated approach to preserving, sustaining and regenerating Wilsonville's urban forest into the future. While the UFMP covers the entire City, it has two focus areas: Charbonneau and Town Center. In Charbonneau, the focus was primarily on the red oak population along French Prairie Road, and in Town Center, an inventory was conducted identifying trees that would be good candidates for retention as part of future redevelopment scenarios. Recommendations in the Plan address issues and topics specific to the urban forest in these areas. An important foundational component of the UFMP is the City's street tree inventory completed in 2018. Over 24,000 trees were inventoried and entered into the City's asset management system, Cartegraph. The inventory provided a critical starting point for developing the plan as it relates to the management of publically owned trees.

An interdisciplinary team, comprised of staff from Community Development, Public Works, and Parks and Recreation, have participated with the consultant (PlanIt Geo) in the development of the Plan. The team members have provided their expertise about Wilsonville's urban forest and identified key issues to be addressed within the Plan.

In fall 2020, the public participated in online surveys and virtual meetings, available on *Let's Talk, Wilsonville!*, to discuss the planning process, plan framework, and focus areas. Nearly 100 people took the surveys and participated in the virtual meetings. In addition, more than eighty tree photos were submitted by residents as part of a project photo contest. Ultimately, three prize winners were chosen and their photos are featured prominently in the UFMP document.

In September and October 2021, the project team conducted work sessions with the Planning Commission and incorporated feedback into the draft UFMP. To finalize the development of the Plan prior to the Planning Commission public hearing on November 10, 2021 and the City Council public hearing scheduled for December 6, 2021, the project team seeks Council feedback on the following questions:

- Does anything in the draft Urban Forest Management Plan require edits or modifications?
- Are there any other key elements or considerations that should be included in the draft Urban Forest Management Plan?

EXPECTED RESULTS:

The project team will incorporate input from the Council into the final draft of the Urban Forest Management Plan for the City Council adoption hearing.

TIMELINE:

Based on the work session, the project team will incorporate the Council's input into the final version of the draft for the December 6, 2021 public hearing before the City Council. In addition, staff will bring forward the recommendation from the Planning Commission public hearing on November 10, 2021.

CURRENT YEAR BUDGET IMPACTS:

The amended FY21/22 budget includes \$15,569 in general funds as part of Project #9165 Urban Forest Management Plan to complete the planned work.

FINANCIAL REVIEW:

Reviewed by: KAK Date: 10/25/2021

LEGAL REVIEW:

Reviewed by: <u>BAJ</u> Date: <u>10/26/2021</u>

COMMUNITY INVOLVEMENT PROCESS:

Community involvement and public outreach have been a key component of the project. Surveys, virtual open houses and the photo contest have provided a variety of opportunities for the public to engage in the process and provide their input.

POTENTIAL IMPACTS OR BENEFIT TO THE COMMUNITY:

The UFMP identifies actions that support a healthy and regenerative urban forest across Wilsonville's publically and privately owned lands through the combined efforts of City government, businesses, and residents. It will be important to engage the community in the care of our urban forest and make them a partner in implementing the Plan.

ALTERNATIVES:

N/A

CITY MANAGER COMMENT:

N/A

ATTACHMENTS:

1. Draft Urban Forest Management Plan – October 2021

ATTACHMENT 1



WILSONVILLE, OREGON OCTOBER | 2021





Page 23 of 236

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URBAN FOREST MANAGEMENT PLAN WILSONVILLE, OREGON





ACKNOWLEDGMENTS

A special "thank you" to community members and all who participated in this planning process. We appreciate your time and input.

City Council

Mayor Julie Fitzgerald Kristin Akervall, Council President Charlotte Lehan, Councilor Joann Linville, Councilor Ben West, Councilor

Planning Commission

Kamran Mesbah, Chair Jennifer Willard, Vice Chair Olive Gallagher Jerry Greenfield Ronald Heberlein Breanne Tusinski Aaron Woods

City Staff

Kerry Rappold, Natural Resources Manager Miranda Bateschell, Planning Director Philip Bradford, Associate Planner Bill Evans, Communications and Marketing Manager Delora Kerber, Public Works Director Cindy Luxhoj, Associate Planner Chris Neamtzu, Community Development Director Daniel Pauly, Planning Manager Kim Rybold, Senior Planner Dustin Schull, Parks Supervisor Page 25 of 236

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A VISION FOR WILSONVILLE'S URBAN FOREST

Healthy Trees, Healthy Wilsonville. Wilsonville's urban forest is a thriving and sustainable mix of tree and understory species and ages that creates a contiguous and healthy ecosystem that is valued and cared for by the City and all residents as an essential environmental, economic, and shared community asset that reinforces Wilsonville's identity and legacy as a forested, livable city.

WILSONVILLE URBAN FOREST MANAGEMENT PLAN MISSION STATEMENT

The City of Wilsonville, in partnership with the community and urban forestry consultants, completed this Urban Forest Management Plan in 2022. This Plan is a guide to maintain, protect, and enhance Wilsonville's already extensive tree canopy cover resource and the multitude of associated benefits. The Urban Forest Management Plan extends beyond maintenance and operational guidance to include a variety of long-term goals, strategies, and priorities to achieve optimal levels of urban forest management, sustainability, and equity in a comprehensive and systematic manner. Achieving the goals set forth in this Plan requires a shared commitment and partnership between the City and its community to sustain a thriving urban forest providing benefits to Wilsonville's environment, economy, and well-being for future generations.



Photo courtesy of Zach Herrmann, winner of the UFMP photo contest, November 2020

Page 27 of 236

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TABLE OF CONTENTS

EXECUTIVE SUMMARY

OVERVIEW OF RESEARCH



INTRODUCTION AND BACKGROUND

DEFINING THE URBAN FOREST
BENEFITS OF THE URBAN FOREST
KEY ISSUES FACING URBAN FORESTS
WILSONVILLE'S URBAN FORESTRY BACKGROUNI
WILSONVILLE'S URBAN FOREST FOCUS AREAS

11 23

URBAN FOREST MANAGEMENT PLAN FRAMEWORK

	l.
PLAN PURPOSE	
PLAN APPROACH	
GOAL AND ACTION FRAMEWORK	
APPENDICES AND SUPPORTING STUDIES	
CITY OF WILSONVILLE URBAN FORESTRY GOALS	
ACTION AND TARGET FRAMEWORK	

TREE MANAGEMENT POLICY (MP)



33

CAPACITY, TRAINING, AUTHORITY (CT)



ASSESSMENT AND PLANS (AP)



COMMUNITY ENGAGEMENT (CE)

51

GREEN ASSET MANAGEMENT (GA)

55

57

63

URBAN FOREST MANAGEMENT FOR CITY FOCUS AREAS

GOAL AND ACTION SUMMARY

IMPLEMENTATION GUIDANCE	
MONITORING PLAN	

CONCLUSION



APPENDICES

APPENDIX A. CITYWIDE RECOMMENDED TREE LIST	B
APPENDIX B. TREE CANOPY GOAL SETTING GUIDANCE	J
APPENDIX C. TREE PLANTING PRIORITIZATION GUIDANCE	N
APPENDIX D. PRESERVATION OF TREES IN FOCUS AREAS	P
APPENDIX E. TREE REMOVALS AND REPLACEMENTS IN FOCUS AREAS	AA
APPENDIX F. FUNDING MECHANISMS	AO
APPENDIX G. TREES AND HARDSCAPE CONFLICTS SOLUTIONS WORKBOOK	AQ
APPENDIX H. EXISTING AND POTENTIAL URBAN FORESTRY PARTNERS	AY
APPENDIX I. STORM AND DISASTER MANAGEMENT GUIDANCE	AZ

LIST OF TABLES

TABLE 1. TREES COMPRISING THE URBAN FOREST AND THE MAINTENANCE RESPONSIBILITY	V
TABLE 2. CITY STAFF INVOLVED IN THE PLANNING PROCESS	6
TABLE 3. SUMMARY OF CITY STAFF MEETINGS	15
TABLE 4. OVERVIEW OF THE 2018 AND 2020 PUBLIC STREET TREE ANALYSIS*	16
TABLE 5. SUMMARY OF TREE CITY USA BENCHMARKING RESEARCH RESULTS	
TABLE 6. SUMMARY OF THE 2014 COMMUNITY FORESTRY CENSUS BENCHMARKING RESEARCH RESULTS	17
TABLE 7. OVERVIEW OF PUBLIC SURVEY RESULTS GATHERED IN AUGUST AND DECEMBER 2020	17
TABLE 8. OUTCOMES OF THE URBAN FOREST AUDITING PROCESS FOR WILSONVILLE	20
TABLE 9. CONCLUSIONS TO THE URBAN FORESTRY PROGRAM EVALUATION PLANNING ELEMENTS	21
TABLE 10. GOALS FOR WILSONVILLE'S URBAN FOREST	26
TABLE 11. NUMBER OF TREES TO REACH THE RECOMMENDED TREE CANOPY GOAL BY CENSUS BLOCK	29
TABLE 12. SUMMARY OF ECOSYSTEM BENEFITS FROM PLANTING 27,000 TREES AND REACHING 36 PERCENT	30
TABLE 13. FRAMEWORK AND DESCRIPTION OF URBAN FORESTRY ACTIONS	
TABLE 14. EXAMPLE FRAMEWORK OF THE URBAN FORESTRY ACTIONS	31
TABLE 15. EXAMPLE FRAMEWORK OF THE URBAN FORESTRY ACTION TARGETS	31
TABLE 16. TREE MANAGEMENT POLICY ACTIONS	34
TABLE 17. TREE MANAGEMENT POLICY ACTION TARGETS	
TABLE 18. CAPACITY, TRAINING, AUTHORITY ACTIONS	38
TABLE 19. CAPACITY, TRAINING, AUTHORITY ACTION TARGETS	39
TABLE 20. ASSESSMENT AND PLANS ACTIONS	
TABLE 21. ASSESSMENT AND PLANS ACTION TARGETS	43
TABLE 22. COMMUNITY ENGAGEMENT ACTIONS	46
TABLE 23. COMMUNITY ENGAGEMENT ACTION TARGETS	
TABLE 24. GREEN ASSET MANAGEMENT ACTIONS	52
TABLE 25. GREEN ASSET MANAGEMENT ACTION TARGETS	
TABLE 26. URBAN FORESTRY ACTIONS SPECIFIC TO CITY FOCUS AREAS	
TABLE 27. SUMMARY OF URBAN FOREST MANAGEMENT ACTIONS BY PRIORITY AND RATIONALE	
TABLE 28. WILSONVILLE'S URBAN FOREST BENCHMARK VALUES	59
TABLE 29. EVALUATION, MONITORING, AND REPORTING TECHNIQUES TO ACHIEVE THE URBAN FORESTRY	60
TABLE 30. CITYWIDE RECOMMENDED TREE LIST (ABBREVIATED)	
TABLE 31. EXAMPLE OF THE ZONING TYPES AND POSSIBLE PLANTING AREA TO ESTABLISH CANOPY GOALS	
TABLE 32. EXAMPLE TREE CANOPY GOALS AND PLANTING TARGETS BY ZONING TYPE	
TABLE 33. TREE PRESERVATION TIERS FOR TOWN CENTER	
TABLE 34. ANNUAL ECOSYSTEM BENEFITS AND SERVICES OF TREES IN PRESERVATION TIERS FOR TOWN	W
TABLE 35. TREE PRESERVATION TIERS FOR CHARBONNEAU	Y
TABLE 36. ANNUAL ECOSYSTEM BENEFITS AND SERVICES OF TREES IN PRESERVATION TIERS FOR	
TABLE 37. TREE SPECIES RECOMMENDED FOR REMOVAL IN TOWN CENTER	AB
TABLE 38. SUMMARY OF THE STATUS OF THE REPLANTING SITES IN TOWN CENTER	AB
TABLE 39. SUMMARY OF TREE SPECIES RECOMMENDED FOR REMOVAL IN CHARBONNEAU	AD
TABLE 40. CITY OF WILSONVILLE'S EXISTING TREE SPECIES LIST	AE
TABLE 41. LIST OF RECOMMENDED TREES FROM FRIENDS OF TREES "CLIMATE TREES FOR THE 21ST	AE
TABLE 42. WILSONVILLE PUBLIC WORKS AND PLANNING TREE SPECIES LIST	AG
TABLE 43. LIST OF TREES FOR REMOVAL IN TOWN CENTER AND THE RECOMMENDED REPLACEMENT	
TABLE 44. COUNT OF RECOMMENDED REPLACEMENT TREES IN TOWN CENTER BY SPECIES	
TABLE 45. LIST OF TREES FOR REMOVAL IN CHARBONNEAU AND THE RECOMMENDED REPLACEMENT	
TABLE 46. RECOMMENDED REPLACEMENT TREE SPECIES FOR REMOVALS IN CHARBONNEAU	
TABLE 47. FINANCING OPTIONS FOR WILSONVILLE'S URBAN FOREST MANAGEMENT PROGRAMS	
TABLE 48. DESCRIPTION OF POSSIBLE ALTERNATIVE SOLUTIONS FOR TREE AND CONSTRUCTION CONFLICTS.	
TABLE 49. ACTIONS TO SUPPORT WILSONVILLE'S STORM TREE RESPONSE PLAN.	
TABLE 50. TREES IN THE CITY'S RECOMMENDED TREE SPECIES LIST (APPENDIX A) AND STORM	BF

LIST OF FIGURES

FIGURE 1. MAPS OF TREES INVENTORIED IN WILSONVILLE	VI
FIGURE 2 MOST COMMON PUBLIC TREES IN WILSONVILLE	VI
FIGURE 3. TREE EQUITY SCORES FOR WILSONVILLE'S CENSUS BLOCK GROUPS WERE USED TO ESTABLISH	VII
FIGURE 4. SIZE CLASSES OF TOWN CENTER'S INVENTORIED TREES	8
FIGURE 5. TREE SPECIES IN TOWN CENTER	9
FIGURE 6. CONDITION OF TOWN CENTER'S TREES	9
FIGURE 7. CHARBONNEAU'S INVENTORIED TREES	10
FIGURE 8. TREE SPECIES IN CHARBONNEAU	11
FIGURE 9. CONDITION OF CHARBONNEAU'S TREES	11
FIGURE 10. FRAMEWORK TO DEVELOP THE URBAN FOREST MANAGEMENT PLAN	13
FIGURE 11. MAP DISPLAYING TREE EQUITY SCORES, CANOPY GOALS, AND TABLE REFERENCE LETTERS	29
FIGURE 12. EXAMPLE OF THE PLAN IMPLEMENTATION, EVALUATION, AND REVISION PROCESS	62
FIGURE 13. MAP DISPLAYING THE SIZE CLASSES OF TREES INVENTORIED IN TOWN CENTER	Q
FIGURE 14. MAP DISPLAYING THE MOST COMMON TREE SPECIES INVENTORIED IN TOWN CENTER	R
FIGURE 15. MAP DISPLAYING THE CONDITION OF TREES INVENTORIED IN TOWN CENTER	
FIGURE 16. MAP DISPLAYING THE SIZE CLASSES OF TREES INVENTORIED IN CHARBONNEAU	T
FIGURE 17. MAP DISPLAYING THE MOST COMMON TREE SPECIES INVENTORIED IN CHARBONNEAU	U
FIGURE 18. MAP DISPLAYING THE CONDITION OF TREES INVENTORIED IN CHARBONNEAU	
FIGURE 19. MAP DISPLAYING ALL RECOMMENDED TREES FOR PRESERVATION IN TOWN CENTER (2021)	W
FIGURE 20. TOP TEN TREE SPECIES IN TOWN CENTER TREE PRESERVATION TIERS	Х
FIGURE 21. SIZE CLASSES OF TOWN CENTER TREE PRESERVATION TREES	Х
FIGURE 22. TREES FOR PRESERVATION IN CHARBONNEAU	Y
FIGURE 23. COUNT OF TREES FOR PRESERATION IN CHARBONNEAU BY PRESERVATION TIER	
FIGURE 24. TREE SPECIES FOR PRESERVATION IN CHARBONNEAU	Z
FIGURE 25. DIAMETER CLASS OF TREES RECOMMENDED FOR PRESERVATION IN CHARBONNEAU	Z
FIGURE 26. MAINTENANCE NEEDS OF TREES FOR PRESERVATION IN CHARBONNEAU	Z
FIGURE 27. MAP SHOWING THE LOCATION OF TREES FOR REMOVAL IN TOWN CENTER AND THE SIZE	AA
FIGURE 28. CONDITION OF TREES RECOMMENDED FOR REMOVAL IN TOWN CENTER	AB
FIGURE 29. DIAMETER OF RECOMMENDED TREE REMOVALS IN TOWN CENTER	
FIGURE 30. MAP SHOWING THE LOCATION OF TREES FOR REMOVAL IN CHARBONNEAU AND THE SIZE	AC
FIGURE 31. COUNT OF TREES BY REMOVAL CATEGORY - CHARBONNEAU	
FIGURE 32. DIAMETER CLASS OF TREES RECOMMENDED FOR REMOVAL IN CHARBONNEAU	AD
FIGURE 33. PROPOSED DECISION MATRIX FOR TREE AND CONSTRUCTION CONFLICTS	
FIGURE 34. EXAMPLE OF ALTERNATIVE SOLUTIONS FOR TREE AND CONSTRUCTION CONFLICTS	AW
FIGURE 35. GROUPS THAT SUPPORT TREE CARE OR MANAGEMENT BASED ON A SURVEY OF 317	
FIGURE 36. OVERVIEW OF WILSONVILLE'S 2021 WINTER STORM TREE RESPONSE PLAN	BD

Page 31 of 236

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URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR







2021 Urban Forest Management Plan

SUMMARY



EXECUTIVE SUMMARY

Page 33 of 236

HEALTHY TREES, HEALTHY WILSONVILLE

Wilsonville's urban forest is a thriving and sustainable mix of tree and understory species and ages that creates a contiguous and healthy ecosystem that is valued and cared for by the City and all residents as an essential environmental, economic, and shared community asset that reinforces Wilsonville's identity and legacy as a forested, livable city.



Photo courtesy of "Rene", photo contest contestant, November 2020

WILSONVILLE'S URBAN FOREST TODAY

Wilsonville's urban forest is a thriving, constantly evolving blend of native and ornamental (or planted) trees located throughout the community that citizens cherish and which provides a unique sense of place rich with natural beauty defining Wilsonville's identity.

Wilsonville's location in the north Willamette Valley, along the banks of the Willamette River result in a beautiful landscape that blends mature native Oregon white oak specimens that have been incorporated into the fabric of the community with the planted trees that are part of the development of the city over the past 50 years. Together, these elements combine to create the City of Wilsonville's urban forest.

The numerous creeks traversing the City are lined with large stands of native coniferous trees, mostly Douglasfir, that create unique wildlife habitat, shade creeks and provide picturesque backdrops to many of the community's neighborhoods. The planted trees are a unique mix of species that line streets, enhance parks and shade shopping and employment areas with canopy providing visual interest and seasonal beauty through a diverse mix of species. Many cultivated varieties of oak, maple, ash and linden, amongst others, come together to create the dynamic and evolving urban forest we know and appreciate today.

The City has a vibrant urban forest that continues to be created, modified, and removed primarily by people, and sustaining it will require ongoing human intervention. The goal of this intervention is a sustainable urban forest— an urban forest that optimizes the benefits of trees while meeting established safety and economic goals. Achieving this requires robust management, diverse funding, adequate staffing, effective policies, and maintenance actions consistent with best practices.

The urban forest offers many benefits, some of which are directly identifiable and quantifiable, and others that are experienced. Recognition of the role urban forests play in improving human health and well-being in addition to being critical climate change mitigators continues to increase

OCTOBER 2021

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR

An analysis of the total street and public tree population valued the ecosystem services and benefits at an estimated \$35.5 million annually. The trees that have been inventoried in the City (25,950 trees) provide an annual value of over \$1.9 million. Most notably, these inventoried trees prevent over 4.6 million gallons of stormwater runoff annually by intercepting precipitation. The function and structure of the inventoried tree population results in a replacement value of over \$46.4 million as of 2020. The City's legacy of trees continues to grow and caring for this asset is an important part of maintaining a sustainable and vibrant city.

This Urban Forest Management Plan is the City's first of its kind. This Plan will set the stage for future actions and efforts that will ensure the long-term health, management and success of the trees that comprise the urban forest. In the Plan, two specific focus areas were analyzed, the Town Center area and the Charbonneau District. In Town Center, a recently adopted master plan (2020) envisions redevelopment of significant portions of the area. Redevelopment will be dependent on understanding the health and condition of the existing trees so the City can determine what to incorporate into the next generation of projects in the Town Center. In Charbonneau, the focus of the study area is the over 800 mature northern red oaks that line French Prairie Drive. These trees are a defining element of the Chabonneau community and have become very large, presenting challenges with existing infrastructure and improvements. Balancing the needs of this red oak population with the needs of the residents of the Charbonneau community is a focus of the Plan.

Over the past year, the community has experienced extreme weather events that are an indication of global climate change. Massive scale fire events in the area to the south over the summer of 2020 were followed by a devastating ice storm in the winter of 2020 that took a significant toll on the urban forest as a whole. Interns were hired in the summer of 2021 to update the citywide inventory of 2018 to determine what trends could be observed so that adjustments to the management of the City's urban forest could take place.

In August 2021, the interns completed a report about the update to the 2018 Street Tree Inventory. Many trees were destroyed, or damaged beyond recovery, during the winter storm, and the report provides a comprehensive analysis of the tree loss and insight into the characteristics of those trees that suffered damage. Results from the updated Street Tree Inventory provide a unique opportunity to quantify and assess the resilience and vulnerability of Wilsonville's urban forest.



Page 35 of 236

OCTOBER 2021



PUBLIC ENGAGEMENT PROCESS

Prior to the development of the City of Wilsonville's Urban Forest Management Plan, the Program Manager of the City's Natural Resources Program and supporting staff worked with City departments, partners, and the community to identify the needs of the urban forest. To inform the Plan, a series of meetings and interviews were conducted with 13 City staff representing three departments and six divisions for a comprehensive understanding of urban forest management workflows, strengths, challenges, and priorities. In addition, traditional and non-conventional stakeholder engagement occurred throughout the planning process.

The public engagement sessions consisted of virtual public meetings, two online surveys (~100 participants), news articles, social media posts, content sharing on Let's Talk, Wilsonville!, and a photo contest where nearly 90 photos from the public were submitted.

Feedback received through these efforts was used to produce a draft Plan with a shared vision for the urban forest. The team then shared draft goals, strategies, and actions with City staff, key stakeholders, and the citizens of Wilsonville to ensure initial input was accurately captured. The team received specific feedback related to managing the urban forest for extreme weather events such as the February 2021 ice storm, consistent and inclusive outreach to all neighborhood groups, and tree preservation and removal guidance in the project's focus areas of Town Center and Charbonneau.

Action priorities were developed to provide technical guidance for City departments that are relevant, accessible, and tangible to the community.







EXECUTIVE SUMMARY

MANAGING THE URBAN FOREST

The urban forest is comprised of trees across the City landscapes with varying ownership, maintenance responsibility, and authority. The table below provides an overview of the tree types and respective maintenance responsibility.

	Тгее Туре	Public Trees	Street Trees	Private Trees	Maintenance Responsibility
Locations	Definition	Trees main- tained by the City	Trees in the public right-of- way	Private property trees	City (C) or Property <u>Owner (P)</u>
Public Parks & Open Space		Х	0	0	С
Rights-of-Way		/	Х	0	C/P
Public Properties		х	0	0	С
Private Property		0	0	Х	C/P (City oversight on development)

Table 1. Trees comprising the urban forest and the maintenance responsibility

X = Yes; O = No; / = Partly or Some

Primarily, the City maintains public trees within public parks and open space, on public properties, and some trees within the public rights-of-way. The City only oversees private trees for development projects. In most cases, private property owners maintain street trees in the public rights-of-way and on private property. Currently, the City has an inventory consisting of street and public trees. This shared responsibility demonstrates the need for coordinated efforts and cooperation guided by the Urban Forest Management Plan.

The City has a diversity of existing policies, programs, regulations, and incentives that are used to manage Wilsonville's urban forest. Three City departments are engaged in Wilsonville's urban forest planning effort to provide important expertise, perspective, and resources to this commitment. The management of the City's public tree population is funded by nearly \$272,000 (2020) and is overseen by experienced and qualified personnel. The City urban forestry team within the Community Development Department, Public Works, and Parks and Recreation departments plants and cares for public and City-owned street trees, provides free trees for residents through partnering organizations, protects and restores forested parklands, manages public park and open space trees on over 1,500 acres, regulates the removal of trees, and promotes stewardship of the urban forestry programs.

Wilsonville's urban forest is a diverse ecosystem consisting of young and mature trees of varying species, function, and associated benefits.



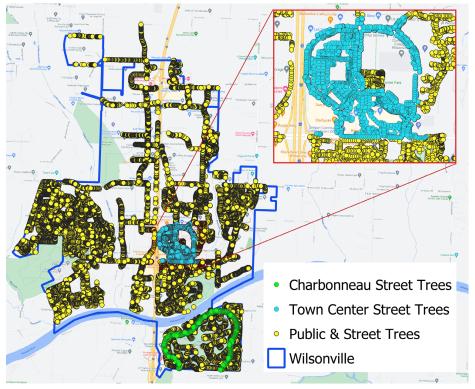
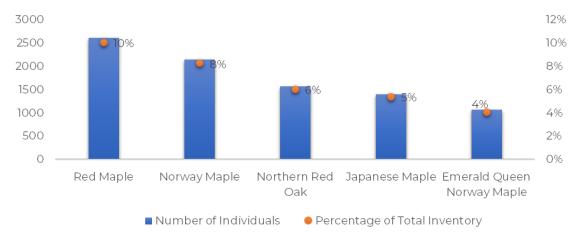


Figure 2. Most common public trees in Wilsonville



PLANNING THE URBAN FOREST

The planning process consisted of two phases; the needs assessment summarized in the Research Summary and the goal and action framework in this Urban Forest Management Plan. The first phase establishes a baseline from which short- and long-term strategies can be developed and monitored over time. The needs of the urban forest and the programs that manage it were evaluated through an audit of existing conditions and operations to establish a baseline from which progress can be measured. This diligent approach to Wilsonville's urban forest management gauges the City's readiness and available resources to achieve optimal levels of urban forest management and sustainability. Through this phased approach, a comprehensive understanding was gathered of the urban forest, the programs that manage it, and the community that benefits from and shapes it to inform strategic goals and actions.

The main tenets of this Plan focus on ensuring public safety, increasing operational efficiencies, facilitating short- and long-term sustainable urban forest planning, validating budgets and programs, ensuring equitable distribution of green resources and services, and standardizing methodology for asset management of the urban forest.



The Urban Forest Management Plan adheres to the following guiding principles:

- Recognize that the trees of the urban forest are more than aesthetic enhancements.
- Recognize trees as the backbone of the urban ecosystem and an essential part of the community's green infrastructure.
- Promote the health and growth of the urban forest by following scientifically established best management practices for tree selection, planting, watering, and pruning.
- Promote a robust urban forest through policies and practices that reduce its vulnerability to known diseases or pest infestations, and future threats, including the anticipated effects of climate change.
- Engage in a continuous process of long-range planning for the growth and maintenance of the urban forest.
- Promote public appreciation of the urban forest through educational outreach programs.
- Support local businesses, institutions, organizations, and individuals in their efforts to grow and maintain the urban forest through community education.
- Proceed in a manner that is inclusive and transparent.



URBAN FOREST MANAGEMENT PLAN GOAL FRAMEWORK

The City's project team consisting of Wilsonville Community Development Department's Natural Resources Program staff and urban forestry consultants developed a set of diverse, comprehensive goals to guide urban forestry work. These goals were informed by an inclusive engagement process with the community and stakeholders undertaken throughout the planning process. The results of these efforts are a series of urban forestry goals to address the resource, the programs, and the people.

Urban Forest Management Plan Vision

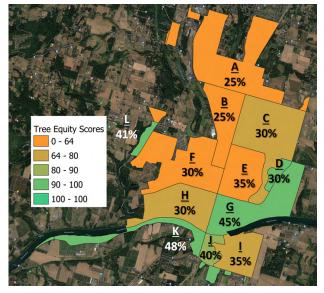
Healthy Trees, Healthy Wilsonville. Wilsonville's urban forest is a thriving and sustainable mix of tree and understory species and ages that creates a contiguous and healthy ecosystem that is valued and cared for by the City and all residents as an essential environmental, economic, and shared community asset that reinforces Wilsonville's identity and legacy as a forested, livable city.

Supporting the Vision: Wilsonville's Tree Canopy and Equity Goal

Tree canopy is a valuable component of Wilsonville's urban ecosystem and expanding the urban forest is part of the solution to the City's social, environmental, and economic concerns— it is integral to enhancing public health programs, increasing land values and local tax bases, providing job training and employment opportunities, reducing costs of city services, increasing public safety, improving air quality, offsetting

carbon emissions, managing stormwater runoff, and conserving energy. To achieve the vision for the urban forest, the City has established a goal to increase its tree canopy coverage by 6 percent— up from 30 percent currently— over a 25-year timespan or "36 percent by 2046" ("36 by 46").

To reach this goal, approximately 27,000 new trees need to be planted over the 25-year timeframe while preserving the City's existing urban tree canopy cover. The goal of 36 percent canopy and 27,000 new trees is based on a variety of factors including species diversity, urban forest benefits, maintenance responsibility, and an equitable distribution of tree canopy. In turn, the 27,000 trees will add annual benefits of nearly \$351,000 and improve tree equity across the City, bringing all Census Block Groups to a Tree Equity Score of at least 75 (out of 100) according to the American Forests' Tree Equity Score Tool (TES, TreeEquityScore.org). Figure 3. Tree Equity Scores for Wilsonville's Census Block Groups were used to establish the City's 36% canopy goal



Urban Forest Management Plan Goals

Supporting the vision and the overarching canopy goal of 36 percent canopy by the year 2046 are a series of urban forestry goals. These strategic goals were derived from the outcomes of the planning effort involving City staff and stakeholder engagement and extensive analyses of the urban forest. The following items are not listed by any particular priority or order.

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR



TREE MANAGEMENT POLICY (MP):

The City's urban forest policies are the foundation for preserving the environmental benefits, management, and character of Wilsonville's urban forest.



CAPACITY, TRAINING, AND AUTHORITY (CT):

Wilsonville has the capacity and expertise to provide optimal levels of service for sound urban forest management.



ASSESSMENTS AND PLANS (AP):

A thorough understanding of the urban forest ensures data-driven decisions, sustainable and comprehensive planning, and amplified tree benefits.



COMMUNITY ENGAGEMENT (CE):

Sustainable urban forest management and equity is achieved through a partnership with the City and its residents resulting in improved well-being, human health, and local economies.



GREEN ASSET MANAGEMENT (GA):

Wilsonville proactively manages the public trees, continues to grow and expand a healthy canopy, effectively mitigates storm damage, maintains public safety, and optimizes urban forest benefits.

Strategic actions were developed in each goal area to reach desired outcomes. Tree Management Policy actions address collaboration, strengthening of policies, sustaining canopy and achieving planting targets, and stewardship of the resource. Capacity actions relate to planning, training, and service levels and actions to address the Assessments and Plans goal, which include inventories, assessments, and plans to inform management. Community Engagement actions include a focus on enhancing community engagement through outreach, education, and partnerships. Green Asset Management actions address programs and services to effectively manage the urban forest for the long-term.



Photo courtesy of Susan Reep, UFMP photo contest contestant, November 2020

ACTION AGENDA

The action agenda outlines the steps that the City of Wilsonville and community partners will take to implement the Urban Forest Management Plan over a 25-year planning horizon. The action agenda was informed by the inclusive engagement process consisting of key stakeholders and the public at large. Departmental work plans for Plan implementation will provide additional details on those aspects of the urban forest that each department can manage. For example, the Community Development Department is responsible for ensuring street trees are planted as part of a Capital Improvement Project or a development project and the Public Works Department oversees the replanting and maintenance of City-owned street trees.

City government will continue to perform key ongoing, urban forestry work including:

- Planting trees within Wilsonville and administering the City's tree-related policies to support a Citywide tree canopy goal.
- Developing plans and strategies to manage the urban forest on City of Wilsonville natural landscapes and properties.
- Removing invasive plants from Wilsonville's forested areas.
- Coordinating departmental work and collaborating on urban forestry Citywide efforts.
- Updating initiatives and regulations in support of Wilsonville's urban forest.

The actions provided in the Plan build on the ongoing work and will be the focus of implementation throughout the 25-year horizon. Successful completion of all actions in this Plan will require additional staffing and resources that should be secured using the supporting studies such as the Funding Mechanisms and Existing and Potential Urban Forestry Partners in the appendices.

City departments will continue to support urban forestry efforts with available funding. The action items listed in the Plan could help expedite the recovery of Wilsonville's most vulnerable communities by increasing tree canopy cover and urban forestry services but the urban forestry planning team is aware of the challenging times ahead. As economic recovery takes place following the 2020 pandemic and additional funding becomes available, the urban forestry planning team recommends that new funding be prioritized toward the following efforts:

- Ongoing funding for tree and natural area crews to maintain the urban forest.
- Continuing to perform urban forest assessments to inform management.
- Leverage existing planning, outreach, partners, and engagement efforts in focus areas to achieve common goals.

"Urban trees and forests are considered integral to the sustainability of cities as a whole. Yet, sustainable urban forests are not born, they are made. They do not arise at random, but result from a community wide commitment to their creation and management." CLARK et al., 1997, A Model of Urban Forest Sustainability

HEALTHY TREES, HEALTHY CITY: CALL TO ACTION

Urban forests are an important green infrastructure asset for communities across Oregon. However, the capacity of urban forests to support healthy and resilient cities is constrained and challenged by stressors such as climate change impacts including extreme weather events, urban development pressures, altered soils, exotic tree pests and diseases, and invasive species. Now more than ever there is a critical need to sustain large, healthy, genetically appropriate trees on public and private land through long-term planning and budgeting, inclusive decision-making, and strategic policy development that supports adaptive management. Thus, comprehensive urban forest support must extend well beyond tree planting initiatives.

Management of urban forests is often considered the sole responsibility of municipal governments. In reality, responsibility should also be shared by private citizens, community groups, and other partners. All of these groups have important roles to play. Successful management frameworks must recognize that the urban forest is part of a complex system that includes the built environment, and is influenced by human activities and policies and practices that shape Wilsonville's urban areas. Furthermore, decision-making must be made in the context of future uncertainty associated with climate change. Wilsonville's Urban Forest Management Plan ("Plan") provides the framework and road map for efficient, sustainable, and equitable urban forestry practices.

This coordinated planning effort— led by the City's staff, stakeholders, and consultants— included an updated inventory of public trees in the Town Center and Charbonneau focus areas to inform management, tree maintenance and removal priorities, tree replacement strategies, and policies and procedures for tree preservation. This Plan also provides specific guidance relating to the urban forest and extreme weather events.

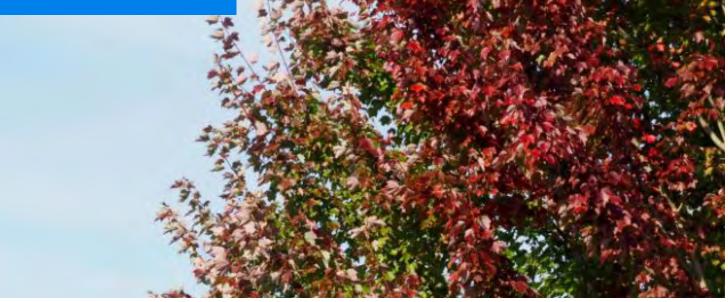
In February of 2021, the City experienced a winter storm causing thousands of power outages, hundreds of downed trees and limbs, and property damage. The City and the community quickly jumped to its feet by clearing roads, removing tree debris, and restoring power. From this event, the City's Emergency Management Program strengthened its protocols relating to City trees and this Plan provides additional guidance for the City to be even more prepared and resilient to extreme weather events (see <u>Appendix I</u>).

In the update to the 2018 Street Tree Inventory, data was gathered about the current condition and status of Wilsonville's street trees. One of the more concerning findings was the number of trees damaged by the ice storm or subsequently removed because of the event, which included 1,100 trees or 4% of the trees inventoried in 2018. Tree species that suffered the most storm damage included paper birch, cherry plum, silver birch, Raywood ash, and scarlet oak.

This planning effort consisted of ongoing community engagement through press releases, public surveys, newsletters, community meetings, photo contests, website content, and social media to educate and gather viewpoints and feedback as it relates to the trees in Wilsonville. From these engagement activities, the vision for the urban forest was identified, key concerns were uncovered, strategies were developed, and a shared commitment to the urban forest resource was fostered.

From this shared commitment between the City and property owners, the vision and goals for Wilsonville's urban forest can be achieved. Reaching and sustaining the urban forest vision will require ongoing monitoring, analysis, and reporting of this Plan to keep urban forest partners involved and focused on accomplishing the actions. The Plan should be a living document that is updated as changes occur to the resource and other planning efforts. As the Plan is updated, it should continue to serve as a road map with strategic priorities and recommended actions to assist the City and stakeholders in their efforts to grow, protect, and sustain a healthy urban forest for all residents and future generations.

Page 43 of 236



URBAN FOREST MANAGEMENT PLAN

HEALTHY TREES, HEALTHY CITY





EXECUTIVE SUMMARY



INTRODUCTION AND BACKGROUND

The City of Wilsonville, in spearheading this Urban Forest Management Plan (UFMP or Plan), recognizes its trees as one of its most valuable resources and shows that it is dedicated to the preservation, proper maintenance, and continued enhancement of their urban forest. The trees throughout Wilsonville are an asset that bring value and benefits to the community: increased property values, heightened environmental benefits and enhanced quality of life are just a few examples of the benefits that the urban forest provides for all of Wilsonville's community members. Implementation of this Urban Forest Management Plan is an excellent opportunity to strengthen the City's urban forest through proper management of this valuable resource.

As is the case with most urban areas, the trees that make up the urban forest in Wilsonville suffer from the severity of urban life, including pests and diseases, the current and changing climate, air pollution, compacted soils, limited growing spaces, and limited resources. In order to overcome such harsh conditions for the City's trees and reap the benefits of these most valuable assets, the care of the urban forest must be strategically and efficiently planned and cared for.

This Plan aligns with the City's Comprehensive Plan updated in 2020 by recommending adequate tree management levels, potential increases in staffing and funding, applying input from the community, and recommending changes to tree-related policy. Adequate tree management includes efficient and effective tree care, bolstered tree plantings to maintain age and species diversity in the public tree population, the preservation and enhancement of canopy coverage Citywide to enhance the character and aesthetics of neighborhoods, and exemplary stewardship of the forest from all who live and work in Wilsonville. The Plan must be regarded as both a long-range policy guide and a living document that will respond to changing conditions over its life. It requires a close partnership between policy makers, staff, and the community. Adoption of this Plan enables the City to accomplish these objectives.



Photo Courtesy of Friends of Trees

DEFINING THE URBAN FOREST

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"Urban forestry can be defined as the art, science, and technology of managing trees and forest resources in and around community ecosystems for the physiological, sociological, economic, and aesthetic benefits trees provide to society." HELMS, 1998

Any inhabited area that has trees and vegetation is considered a community forest though more urbanized communities often refer to this resource as an urban forest. Based on Wilsonville's population density, tree population, and the public interaction with and received benefits from trees, Wilsonville's resource is referred interchangeably as an urban and community forest in this Plan. The Plan focuses on the City-owned trees in public rights-of-way, trees in public parks, and street trees maintained by adjacent property owners but also has implications for the trees on private property and attention to these are addressed through community outreach and education efforts.

The concept of urban and community forest management developed in the 1960s out of the death and devastation of the elm tree population throughout the United States due to Dutch Elm disease. The discipline of urban forestry strongly advocates for species and age diversity in a city's tree population so that the elm tree devastation of the 1960s does not happen again. Unfortunately, native and invasive pests and diseases continue to spread.

During the last three decades, urban forestry has evolved as researchers and practitioners learn more about the structure and function of trees and their unique role in providing environmental, economic, and social benefits to urban areas. Urban forestry provides each of these benefits in differing circumstances—as infrastructure, as part of design and development, and as efficient and productive providers of economic development.

Residents traditionally have indicated that they consider the trees in the community a priority. In urban environments, street and park trees are sometimes the only day-to-day interaction with nature that many residents may enjoy. As Wilsonville continues to grow, the urban forest needs a strong advocate. This will happen with the education and support of the City's constituency, staff, and elected officials informed by an approved Urban Forest Management Plan. The urban forest is unique in the array of benefits it provides to the community, and a management plan effectively collects and showcases these values.

While a management plan is useful in helping educate and ensure future viability, it also establishes useful parameters for the daily operations and care of the urban forest. A fresh look at all urban forestry-related policies currently in place brings into focus what is necessary for day- to-day activities to ensure long-term viability and safety of the urban forest.

While a management plan is useful in helping educate and ensure future viability, it also will set up useful parameters for the daily operations and care of the urban forest. A fresh look at all urban forestry-related policies currently in place will bring into focus what is necessary for day- to-day activities to ensure long-term viability and safety of the urban forest.

BENEFITS OF THE URBAN FOREST

The quality of life of the citizens in any community depends on the urban forest, as trees make a vital and affordable contribution to the sense of community, pedestrian-friendly neighborhoods, surface temperatures, and air quality. Wilsonville's Community Development Department and supporting departments are critical to meeting the City's commitment to climate change mitigation and adaptation, carbon sequestration, stormwater reduction, wildlife habitat enhancement, and water conservation. Trees are one of the few infrastructure investments that, if properly maintained, will grow in value over time. The Plan provides an assessment of these benefits and services and the actions necessary to sustain and enhance them.

Note: The following data was derived from the Alliance for Community Trees.



Clean the Air and Breathe Easier

Shade trees reduce pollution and return oxygen to the atmosphere. In addition to carbon dioxide, trees' leaves or needles absorb pollutants, such as ozone, nitrogen dioxide, sulfur dioxide, and some particulate matter.



Save Energy and Lower Energy Costs for Buildings

As natural screens, trees can insulate homes and businesses from extreme temperatures, keep properties cool, and reduce air conditioning utility bills. A 20 percent canopy of deciduous trees over a house results in annual cooling savings of 8 to 18 percent and annual heating savings of 2 to 8 percent. By planting shade trees on sunny exposures, residents and businesses can save up to 50 percent on hot-day energy bills.

Positively Influence Climate to Ensure Sustainability



Trees absorb carbon dioxide and store carbon in wood, which helps to reduce greenhouse gases. Carbon emissions from vehicles, industries, and power plants are a primary contributor to increased air temperatures in metropolitan areas. Trees in the United States store 700 million tons of carbon valued at \$14 billion with an annual carbon sequestration rate of 22.8 million tons per year valued at \$460 million annually.



Reduce the Need for Street Maintenance

Shaded streets last longer and require far less pavement maintenance, reducing long- term costs. Canopy diminishes pavement fatigue, cracking, rutting, and other damage. A study from University of California at Davis found that 20 percent shade cover on a street improves pavement condition by 11 percent, which is a 60 percent savings for resurfacing over 30 years.



Raise Property Values

Trees are sound investments, for businesses and residents alike, and their value increases as they grow. Sustainable landscapes can increase property values up to 37 percent. The value of trees appreciates over time, because the benefits grow as they do. For businesses, trees have added value, including higher revenues. Shoppers seek out leafy promenades that frame storefronts. Research shows that shoppers spend more—between 9 and 12 percent more—on products in tree-lined business districts.



Conserve Water and Soil

A tree's fibrous roots, extending into the soil, are premier pollution filtration and soil erosion prevention systems. Intensely urbanized areas are covered with a large number of impermeable surfaces. In contrast to an impervious hardscape, a healthy urban forest can reduce annual storm water runoff up to 7 percent. Highly efficient trees also utilize or absorb toxic substances such as lead, zinc, copper, and biological contaminants. One study estimated that eliminating the need for additional local stormwater filtration systems would result in savings exceeding \$2 billion.



Cooler Pavement Diminishes Urban Heat Islands

Broad canopy trees lower temperatures by shading buildings, asphalt, and concrete. They deflect radiation from the sun and release moisture into the air. The urban heat island effect is the resulting higher temperature of areas dominated by buildings, roads, and sidewalks. Cities are often 5° to 10°F hotter than undeveloped areas, because hot pavement and buildings have replaced cool vegetated land. In addition, high temperatures increase the volatility of automobile oil and oil within the asphalt itself, releasing the fumes into the atmosphere. Shade trees can reduce asphalt temperatures by as much as 36°F, which diminishes the fumes and improves air quality.



Protect Wildlife and Restore Ecosystems

Planting and protecting trees can provide habitat for hundreds of birds and small animals. Urbanization and the destruction of valuable ecosystems have led to the decline of many species. Adding trees, particularly native trees, provides valuable habitat for wildlife.



Build Safe Communities and Decrease Crime

Police and crime prevention experts agree that trees and landscaping cut the incidence of theft, vandalism, and violence by enhancing neighborhoods. Thriving trees on well-maintained streets indicate pride of ownership. Public housing residents with nearby trees and natural landscapes reported 25 percent fewer acts of domestic aggression and violence. Apartment buildings with high levels of greenery had 52 percent fewer crimes than those without any trees. Buildings with medium amounts of greenery had 42 percent fewer crimes.



Calm Traffic and Make Neighborhoods Safer and Quieter

People drive more slowly and carefully through tree-lined streets, because trees create the illusion of narrower streets. One study found a 46 percent decrease in crash rates across urban arterial and highway sites after landscape improvements were installed. The presence of trees in a suburban landscape reduced the cruising speed of drivers by an average of 3 miles per hour. Faster drivers and slower drivers both drove at decreased speeds in the presence of trees. Trees reduce noise pollution, buffering as much as half of urban noise. By absorbing sounds, a belt of trees 100 feet wide and 50 feet tall can reduce highway noise by 6 to 10 decibels. Buffers composed of trees and shrubs can reduce 50 percent of noise.



Reduce Stress and Improve the Quality of Life

Neighborhoods with generous canopies of trees are uplifting and good for public health. Greater contact with natural environments correlates with lower levels of stress, improving performance. Students' concentration levels go up when they are able to look out onto a green landscape. Studies show that children with attention deficit disorder function better after activities in green settings. A green environment impacts worker productivity. Workers without views of nature from their desks claimed 23 percent more sick days than workers with views of nature. Residents of areas with the highest levels of greenery were 3 times as likely to be physically active and 40 percent less likely to be overweight than residents living in the least green settings.

KEY ISSUES FACING URBAN FORESTS

The City of Wilsonville has a unique urban form and character. Its size, layout, and development density influence the landscape and has created a charming and livable city. Wilsonville's citizens show pride in their city, and their neighborhoods are well cared for. The City's climate is ideal for a wide range of plants and street trees and many of the City's streets and landscapes exhibit a unique and rich planting character. Some of the City's historic neighborhoods and its newest developments have a rich urban forest that illustrates Wilsonville's commitment to be a tree-filled city guided by a strategic plan.

Cities around the world, and specifically in the Willamette River Valley face dramatically intensifying extreme weather and climate impacts including drought, frequent storms, flooding, and an increase in sustained high temperatures. In many instances, these impacts are already exceeding the designed capacity of city infrastructure to protect the health and safety of residents, businesses, and neighborhoods, which in turn threatens the fiscal viability of cities and regions. Urban trees can play a significant role in making cities resilient to weather and climate extremes, and in protecting human and ecosystem health and safety. To do so, trees must be consciously selected, planted and managed as the central component of an urban forest where individual trees are managed as part of a greater system with the purpose of improving the urban environment and enhancing benefits.

Yet the ability of urban trees and urban forests to achieve desired benefits is often drastically limited due to poor maintenance and management stemming from insufficient municipal budgets, lacking urban forest management systems and programs, limited training of tree care professionals, and a lack of enforcement of tree-management best practices to support tree health. Consequently, long-term tree health is compromised in many cities, resulting in limiting the beneficial functions of trees, leaving trees more susceptible to pests and disease, and leading to premature tree death. The impact of this is compounded for disadvantaged communities. As stated by Jad Daley, president and CEO of American Forests, "The single greatest threat from climate change to people in cities is extreme heat."

In turn, urban trees face multiple challenges to surviving and thriving. Trees that die years prematurely will not create the root systems and canopies needed to reach their benefit potential and maximize their return on investment. Planting and maintaining an urban forest that exists in concert with other green infrastructure must include management by trained individuals, the use of tree inventory data, an understanding of baseline conditions and forecasted environmental changes, collaboration among departments to mainstream urban forest management, a community with a shared vision for the urban forest, and a roadmap for management provided in a plan.



These issues are exacerbated in lower income communities with limited resources. The City needs a comprehensive plan to preserve and expand the urban forest which results in an equitable distribution of tree canopy, associated benefits, and urban forestry opportunities. The City, its partners, and the community support a plan for the urban forest that sustains the resource and provides benefits to all who live, work, and recreate in the City.

To address these challenges, the Urban Forest Management Plan offers Wilsonville an opportunity to study, evaluate, and plan for improving urban forest management toward the goal of supporting human and ecosystem health and well-being. The urgency of protecting the urban forest has risen sharply as drought, pests, disease, climate impacts and budget cuts lead to rapidly rising tree mortality. To address and reverse tree die-off and the loss of ecosystem benefits, Wilsonville needs a robust system of professional management and resident engagement for the care and expansion of the urban forest.

WILSONVILLE'S URBAN FORESTRY BACKGROUND

Located just south of the Portland metro area and along the banks of the Willamette River, Wilsonville started as a small farming community but has quickly grown to become an important bridge between its urban neighbors to the north and a gateway to the agriculturally rich Willamette Valley to the south. The Willamette Valley region of Oregon is an area known for its natural beauty and agricultural history. As such, the City is focused on preserving the natural environment while supporting sustainability through a range of strategies such as the Comprehensive Plan and this Urban Forest Management Plan, in an effort to grow and improve the health of the urban forest.

Regarding maintenance of the City's urban forest, it is a shared responsibility between Wilsonville property owners and the Public Works and Parks and Recreation departments to maintain trees on City streets, parks, and maintained facilities. Wilsonville's Community Development Department, leading this Plan effort, contributes to public health, safety, and quality of life for residents and visitors of the City by managing the urban forest. Management of the urban forest by City departments is mobilized through long-range planning and enforcement of municipal code relating to tree preservation and protection by the Community Development Department. The Public Works and Parks and Recreation departments support long-range urban forest planning by reviewing Capital Improvement Projects and development plans.

Guided by the Tree Preservation and Protection ordinance (Section 4.600), the City is responsible for the care of trees in public spaces and property owners maintain street trees though the urban forest extends beyond these areas. The preservation and growth of the Citywide urban forest canopy across public and private boundaries should be a shared commitment guided by the Urban Forest Management Plan. This Plan is the next step for the urban forestry program as the City continues to grow and evolve.

Existing City plans and efforts impact and influence Wilsonville's urban forest. The City has been recognized as a Tree City USA community for 23 years and has shown a dedication to maintaining and caring for their urban forest through their planting efforts and the care of its trees.

Community Development	Admin	Planning	Natural Resources
Parks & Recreation	Parks Maintenance		
Public Works	Admin	Facilities	Roads & Stormwater

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 7

Elements of urban forest management are woven into the framework of City operations and the understanding of the importance of trees in an urban setting was exemplified in this planning effort. A total of 13 City staff representing three departments and six divisions participated in the development of the Urban Forest Management Plan due to their interactions with public trees within their respective programs. Other divisions involved in public tree management though not included in the planning exercises include Engineering, Building, and Parks Planning. Through this effort, City staff contributed ideas, discussed resource needs, identified efficiencies, and formulated strategies relating to their activities involving public trees. By engaging staff involved in the management and care of Wilsonville's trees the Plan was developed to mainstream urban forest management across departments to improve workflows and achieve common goals.



WILSONVILLE'S URBAN FOREST FOCUS AREAS

The two focus areas, Charbonneau and Town Center, were originally developed in the 1970s and 80's, respectively, and provide unique opportunities and challenges when looking at Wilsonville's urban forest. As part of the Urban Forest Management Plan project, an inventory of existing trees was completed by Certified Arborists accredited by the International Society of Arboriculture to plot the location of trees, identify the species, measure the size, assess the condition, note observations, and assign a recommended maintenance task if necessary for all trees in Town Center and along French Prairie Road in Charbonneau. The detailed assessment of these trees provided the information to develop specific actions for these focus areas.

Town Center

Town Center provides a mix of commercial and residential uses and a centrally located park. It is central to the City and serves as the heart and hub of the community at the I-5 juncture. Town Center is primarily local commercial retail and services unlike other similarly-zoned areas in the City. In 2019, the City adopted a new plan for Town Center. The goals in the Town Center plan included environmental stewardship, harmonious design, mixed uses, safe access and connectivity, community gathering places, and economic prosperity. The future vision for this focus area is described in the Town Center Plan which recognizes the creative use of landscaping including trees.



Source: Wilsonville Town Center Plan

The Urban Forest Management Plan provides an opportunity to take a closer look at the urban forest in Town Center and provide recommendations for improving its aesthetics and long-term viability. To inform the Plan, a detailed visual survey was completed for all trees in Town Center that would be suitable candidates for retention as part of redevelopment of the area. To support this effort, additional studies and analyses were completed providing guidance for tree removals, tree replacements, and tree preservation in Town Center as described in <u>Appendix D</u> and E.

The urban forest management actions specific to Town Center's trees are provided in the <u>Urban Forest Management</u> for City Focus Areas section though the following provides an overview of recommendations.

- Continue to inventory and monitor all public trees in the focus area.
- Prioritize tree maintenance and removals based on need and available resources.
- Preserve existing trees through sound policies, education, and enforcement. Use <u>Appendix D</u> to support tree preservation decisions.
- Develop a strategy to replace the trees recommended for removal. Use <u>Appendix E</u> for tree replacement guidance.
- Plant trees based on the site requirements and desired function and design using the Citywide Recommended Tree List in <u>Appendix A</u>.
- Continue to engage members of the community for input, feedback, and stewardship.
- Plant and preserve the urban forest to sustain the associated benefits that are shared by all in the focus area.

Key Findings for Town Center's Trees

Note: the following data summaries are based on the July 2020 tree inventory. These values and summaries may differ from existing conditions due to the February 2021 storm and other variables. For larger detailed maps, see <u>Appendix D</u>

Total Trees Inventoried: 1,449

Tree Size Classes			
0-3 inches	7%		
3-6 inches	11%		
6-12 inches	28%		
12-18 inches	34%		
18-24 inches	14%		
24-30 inches	5%		
>30 inches	1%		

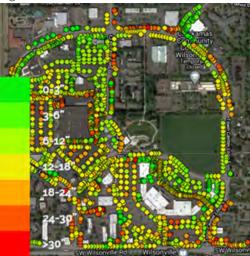


Figure 4. Size classes of Town Center's inventoried trees

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 9

Tree Species (Top 5)			
Red maple	20%		
Callery pear	19%		
Red oak	11%		
Vine maple	6%		
Douglas fir	6%		

Figure 5. Tree species in Town Center

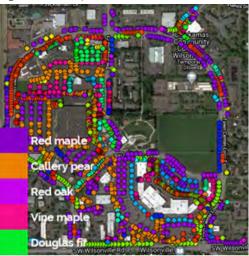
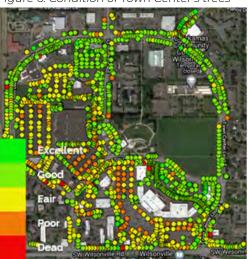


Figure 6. Condition of Town Center's trees

Tree Condition			
Excellent	3%		
Good	55%		
Fair	31%		
Poor	8%		
Dead	2%		



Charbonneau

Charbonneau, located south of the Willamette River, is one of Oregon's earliest planned communities. Within Charbonneau there is a small commercial district, 27-hole golf course, and a variety of housing types. The age, condition, and types of street trees in this community are the primary focus, as well as their relationship to the livability and aesthetics of the area.

The goals and actions in this Plan place emphasis along French Prairie Road in Charbonneau, which has over 800 mature northern red oak (Quercus rubra) trees in various states of health and beginning to cause damage to infrastructure in the form of decorative walls, sidewalks, paths, and home foundations. These street trees are primarily maintained by the City while other trees within the community are maintained by the HOA and Country Club. In 2014, the Charbonneau Consolidated Improvement Plan identified four utilities



Source: 2014 Charbonneau Consolidated Improvement Plan

in the community that are deficient— sewer, storm, streets, and water. The Plan provides key data and considerations for trees such as trees to preserve and recommended trees for planting as installations and repairs are planned for utilities. Understanding the health and condition of the northern red oaks informs decision-making criteria that can guide the review of tree removal requests. This Plan provides a comprehensive look at these trees, informed by an updated tree inventory, and the best way to manage them over time to avoid problems while maintaining their place in the community. Specific recommendations to address management of Charbonneau's trees are provided in the Plan's actions and supporting appendices.

The urban forest management actions specific to Charbonneau's trees are provided in the <u>Urban Forest Management</u> <u>for City Focus Areas</u> section though the following provides an overview of recommendations.

- Continue to inventory and monitor all public trees in the focus area.
- Prioritize tree maintenance and removals based on need and available resources.
- Develop a strategy to replace the aging oaks before and after removals. See <u>Action AP.03</u>, <u>Appendix D</u>, and <u>Appendix E</u> for guidance.
- The City should utilize tree inventory management software such as TreePlotter or the City's Cartegraph system to refine the data and prioritize removals and replacements within Charbonneau. Changes made to the urban forest should be tracked within these programs.
- Plant trees based on the site requirements and desired function and design using the Citywide Recommended Tree List in <u>Appendix A</u>.
- Continue to engage members of the community for input, feedback, and stewardship.

• Plant and preserve the urban forest to sustain the associated benefits that are shared by all in the focus area. All trees along French Prairie Road should be preserved unless they pose a risk— as defined by industry standards and City protocols— that cannot be mitigated without removal. <u>Appendix G</u>, "Trees and Hardscape Conflicts Solutions Workbook" provides guidance on evaluating trees, infrastructure, and the conflict(s) to make a decision that is consistent and transparent.

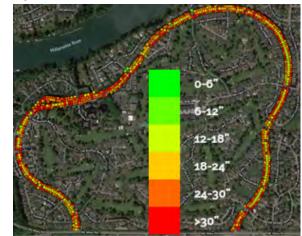
Key Findings for Charbonneau's Trees

Note: the following data summaries are based on the July 2020 tree inventory. These values and summaries may differ from existing conditions due to the February 2021 storm and other variables. For larger detailed maps, see <u>Appendix D</u>.

Total Trees Inventoried: 916

Tree Condition			
Excellent	0.3%		
Good	71%		
Fair	25%		
Poor	2%		
Dead	1%		

Figure 7. Size classes of Charbonneau's inventoried trees



URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR

Tree Species (Top 5)			
Red oak	80%		
Pin oak	7%		
Scarlet oak	5%		
Douglas fir	3%		
Hinoki cypress	2%		

Figure 8. Tree species in Charbonneau

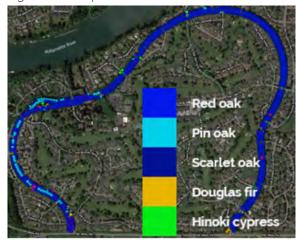


Figure 9. Condition of Charbonneau's trees



Tree Size Classes			
0-6 inches	0.3%		
6-12 inches	3%		
12-18 inches	12%		
18-24 inches	22%		
24-30 inches	32%		
>30 inches	30%		

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OVERVIEW of research

Development of the Research Summary

The systematic evaluation of the City of Wilsonville's urban forest management processes, resources, staffing, structure, and policies was conducted by completing the six planning elements: 1) Existing Policies and Plans, 2) City Workflows and Operations, 3) Baseline Conditions, 4) Urban Forest Benchmarks, 5) Community Engagement, and 6) Urban Forest Audit System. The outcomes from these planning elements were detailed in the **Research Summary to the Urban Forest Management Plan**— a comprehensive summary document that details the baseline assessment from which goals and actions were developed for this **Urban Forest Management Plan**. Additional information regarding the methodology, findings, and interpretations of the planning elements are provided in the Research Summary. The following section provides a high-level overview of these planning elements.

Figure 10. Framework to develop the urban forest management plan



EXISTING POLICIES AND PLANS FINDINGS

The purpose of this element— Existing Policies and Plans— is to gauge the City's commitment and readiness for urban forest sustainability. Evaluating the alignment and efficacy of existing policies and plans ensures a strong connection among the programs that manage the urban forest and the projects and initiatives that support them. Proper alignment of urban forestry program recommendations reduces the risk of wasting resources and enables success of key projects that support urban forestry goals. Plans cannot live in isolation, therefore, cross-examining various plans and documents may bring to light projects or initiatives that are potentially a misplacement of resources and time.

A total of 39 documents and resources were reviewed and indexed as part of the information discovery process and 218 references to urban forestry were identified. These documents included:

Primary Documents

- **Comprehensive Plan**: The City's official policy guide for future development-related decisions. It is general and long-range in nature and provides a picture of how the community wishes to develop over the next 15 to 20 years. The plan discusses the importance of tree protection, scenic value, wildlife corridors, and other aspects of urban forestry.
- Approved Budget FY 2020-2021: The budget document is the blueprint for financial and policy decisions implemented during each fiscal year. It also includes the staffing structure, budgets, and activities relating to City departments with a role in urban forest management.
- **City Code**: Chapters 4 and 8 of the Wilsonville City Code address tree preservation, public safety, benefits of the urban forest, tree planting, topping, arborist credentials, and the City Tree Fund, among other items.
- **Town Center Plan:** A plan for modernizing and improving Town Center. The document contains references to the importance of an UFMP in creating a more vibrant Town Center through plantings, increases tree health, and natural design elements.
- Charbonneau Consolidated Improvement Plan: This plan provides information regarding important tree issues in Charbonneau, including tree root damage, removals, and ADA compliance.

Supporting Documents

- Council Goals Work Plan
- Stormwater & Surface Water Design and Construction Standards
- Stormwater Master Plan
- Natural Hazard Mitigation Plan
- Parks and Recreation Master Plan
- Integrated Pest Management (IPM) Plan
- Urban Renewal Plan

CITY WORKFLOWS AND OPERATIONS FINDINGS

To gather an understanding of the departments and programs managing and influencing the public trees in Wilsonville, a series of meetings were held in 2020. A total of three different departments or offices were represented at the meetings and a total of 13 City staff members participated. The departments or offices represented include:

- 1. Community Development (CD)
- 2. Public Works (PW)
- 3. Parks and Recreation (PR)

Over the course of these meetings, recurring issues and resource needs were identified. The following provides an overview of these trends that supported the development of this Plan:

Table 3. Summary of the City staff meetings

MEETING THEMES	RECURRING NEEDS
A) Landscape and Maintenance	 The programs managing the urban forest could be supported by documentation of ISA Best Management Practices (BMPs) and American National Standards Institute's (ANSI) Standards along with standard operating procedures (SOP). To address the sidewalk issues, the grant program for sidewalks could be expanded which
	 To address the sidewark issues, the grant program for sidewarks could be expanded which would include more frequent and systematic assessments of sidewalks (data available in Cartegraph) along with the guidance for alternative solutions to sidewalk repair/ replacement.
B) City Code and Policies	 To support the in-house tree maintenance program, a plan to phase out the dying oaks in Charbonneau should be established along with the resources to implement.
	• Ensure significant trees in Town Center that are worthy of preservation are retained and incorporated into the Town Center Plan. Potential exists for using a tiered priority system based on a combination of factors such as tree size, location (land use, growing space type) species, proximity trees and relative canopy cover, growing space, longevity, function, maintenance regimen, planned development, etc.
C) Planning, Design, and Development	 Guidelines relating to the types of replacement tree species, planting goals or benchmarks by park, and watering protocols could improve efficiencies and support Citywide urban forestry efforts. These updates to the program would require additional resources and improved tracking of trees in parks and the associated maintenance and pest/disease monitoring and treatments.
	 To support a comprehensive tree maintenance program as recommended through industry standards, the Plan could include a budget and staffing case study as well as case studies to evaluate potential tree pruning rotations and costs of deferred maintenance.
D) Data and Information Technology	 Improvements could be made by completing an entire inventory of trees in maintained areas, especially where trees abut private property.
E) Community Outreach and	• The current tree maintenance program is effective but there needs to be some clarifications of responsibility shared with the community.
Education	• Similar to trees, the sidewalk repair/replacement responsibility needs to be shared with the community. Information is shared through the sidewalk program but messaging and frequency could improve. Especially as sidewalk issues continue to rise for streets developed in the 1980's and 1990's.

BASELINE CONDITIONS FINDINGS

To identify the existing conditions of the urban forest from which goals and actions can be measured, an analysis of existing tree-related datasets was completed as part of the evaluation process. These datasets included the 2018 City-wide tree inventory as well as the 2020 Town Center and Charbonneau focus area inventories.

2018 and 2020 Public Street Tree Inventories

The 2018 and 2020 public street tree survey data was used to assess tree abundance, distribution, composition, size classes, and functional benefit. The urban forestry consultants for this Plan analyzed the datasets to confirm the findings and these findings are summarized below to inform Plan recommendations. An overview of ecosystem services and benefits is provided in the following section. For the complete analysis and summary, see the Research Summary document developed as part of this planning effort.

Table 4. Overview of the 2018 and 2020 public street tree analysis*

25,954	Street trees	9 %	Focus area trees
24%	Coniferous	76 %	Deciduous
104	Unique genera	313	Unique tree species
29 %	Maple (Acer) trees	9 %	Oak (<i>Quercus</i>) trees
1,138	Trees with sidewalk damage	3,195	Trees with utility conflicts
48 %	Trees in the 0-6"-inch class	2%	Trees in the >30"-inch class
1,446	Public trees in Town Center	916	Public trees in Charbonneau

* An update to the inventory was completed in September 2021 following completion of this Plan's analysis and should be utilized in conjunction with the data provided in the table above.

URBAN FOREST BENCHMARKS FINDINGS

The following summary provides an overview of the urban forest benchmarking results based on the analysis of two datasets; Arbor Day Foundation's 2019 Tree City USA database and the Municipal Tree Care and Management in the United States – a 2014 Urban and Community Forestry Census of Tree Activities by R. Hauer and W. Peterson. For a complete summary of the benchmarking research findings, see the Research Summary document developed as part of this planning effort.

2019 Tree City USA - Wilsonville2019 Tree City USA - Regional\$263kTree management budget\$149kAverage budget\$10.42Per capita forestry budget\$7.00Average per capita budget\$83kTree maintenance budget\$51kAverage maintenance budget	
\$10.42 Per capita forestry budget \$7.00 Average per capita budget	
\$83kTree maintenance budget\$51kAverage maintenance budget	
\$7kTree planting/care budget\$24kAverage planting/care budget	
110 Trees pruned 804 Average trees pruned	
19 Trees removed 66 Average trees removed	
40 Trees planted 836 Average trees planted	

Table 5. Summary of Tree City USA benchmarking research results

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 17

2014 Census - Wilsonville		2014 Census - Population Group	
\$263k	Forestry program budget (est.)	\$344k	Average forestry budget
0.14%	Of total budget for forestry	0.63%	Average forestry budget compared to total budget
26k	Estimated public trees	26k	Average count of public trees
\$9.67	Budget per public tree	\$13.31	Average budget per public tree
\$10.42	Budget per capita	\$9.75	Average budget per capita
1.02	Public trees per capita	0.83	Average public trees per capita
3,243	Public trees per staff	5,967	Average public trees per staff
212	Acres of parks and open space	388	Average acres of parks and open space

Table 6. Summary of the 2014 Community Forestry Census benchmarking research results

COMMUNITY ENGAGEMENT FINDINGS

A series of 33 questions directly related to Wilsonville's existing urban forest, the resources to manage it, and the management activities were drafted to gather community perceptions and viewpoints. The survey was shared online via the City's communications channels and nearly 100 City residents responded. Following the web surveys, public meetings were conducted online to share the UFMP process, framework, and next steps. Citizen feedback was incorporated into various aspects of recommendations, goals, and observations in the UFMP. Selected questions from the surveys and a brief synopsis of observations are included below. For a comprehensive summary, see the Research Summary document developed as part of this planning effort.

Table 7. Overview of public survey results gathered in August and December 2020

		~		
95	Total responses		65 %	Feel there should be more canopy coverage
25%	Think urban forest health has declined in the last 10 years		77 %	Think the City is doing good to very good when it comes to managing public trees
49 %	Said tree maintenance and hazard trees are the most urgent issue		42 %	Feel the City is not planting enough trees
42 %	Unsure of who manages ROW trees		72%	Support a City-wide Canopy Goal
72 %	Concerned about sidewalk damage		72 %	Desire more trees in commercial areas
22%	Feel that current tree risk management is poor		50 %	Desire community orchards and fruit gleaning
61%	Think pruning is the highest priority for Char- bonneau		56 %	Think Town Center needs more species diversity
89 %	Feel that trees positively impact community physical and mental health		94%	Support a tree protection ordinance

Top Trends in Survey Comments

- Concerns regarding trees and sidewalk damage
- Increased tree plantings and species diversity
- Efforts to reduce tree risk
- Increased pruning and maintenance on large trees in Charbonneau
- Increased planting spaces for trees in Town Center
- Creation of a City-wide canopy goal
- Tree protection during development
- Improve tree species diversity
- Education and training
- Need for a planting plan

Public Photo Contest

In October 2020, a photo contest was announced inviting community members to share urban forestry related photos on the Let's Talk, Wilsonville! website, on social media using hashtags, or through email. A total of 85 photos were received from 15 participants. The top three photos were voted on and used in the cover photos of this Plan. The winners included Sandy Wilson, Steve Harrell, and Zach Herrmann.

News Articles

City Seeks Community Input to Develop Urban Forestry Plan

Wilsonville's urban forest includes all trees, both native and planted, that contribute to our seasonal beauty and livability.

Whether it is a majestic 200-year old Oregon white oak or a young flowering cherry, trees greatly contribute to our sense of place and quality of life. Trees help clean the air, conserve soil and water, reduce heating and cooling costs and bring nature close to home. If maintained, Wilsonville's urban forest is a valuable asset that will continue to add to the health of our community for generations to come.

The City is developing an Urban Forest Management Plan ("Plan") with PlanIT Geo's urban forestry consultants. This Plan is identifying an integrated approach to preserving, sustaining, diversifying, and regenerating Wilsonville's urban forest. Goals and actions



will be developed for urban forest management City-wide, with special focus on Charbonneau and

Town Center. Through virtual public meetings and online surveys on "Let's Talk, Wilsonville!," the City is listening to community viewpoints. A survey is available at LetsTalkWilsonville.com to gauge public opinion on urban forestry topics. On Sept. 15, a virtual community



meeting is being held to provide an interactive forum for community stakeholders to participate directly in the planning process.

Everyone benefits from the proper care and enhancement of Wilsonville's urban forest. With the community, the City is developing a strategic plan to sustain trees, maintain public safety, establish a sustainable and resilient urban forest and strengthen and create new partnerships. A plan is expected for the City Council's consideration by Spring 2021

For more information, visit LetsTalkWilsonville. com. If you have questions or comments, contact Kerry Rappold, Natural Resources Program Manager, at 503-570-1570, rappold@ci.wilsonville.or.us.



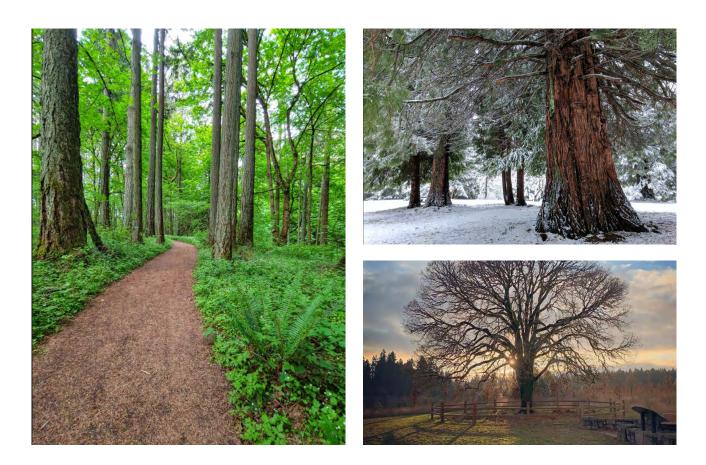
Photo Contest: Celebrate our City's Beautiful Urban Forest ... and Win!

To celebrate Wilsonville's urban forest, submit an original photo that includes a Wilsonville tree. Post your photo on Instagram using the hashtag #Wilsonvilletrees or submit your photo online at LetsTalkWilsonville.com/ufmp by Oct. 30 at 5 pm.

The Urban Forest Management Plan (UFMP) project team is judging eligible entries and selecting, three winning photos by Nov. 13.

Winners will each receive a prize, and their photos may also be included in the City's Urban Forest Management Plan. The contest is free of charge, and entrants can submit multiple photos.

Learn more about the UFMP and see complete contest rules at LetsTalkWilsonville.com/ufmp.



URBAN FOREST AUDIT SYSTEM

To develop this Plan, 39 documents, plans, and resources were gathered and reviewed by applying the U.S. Forest Service's Urban Forest Sustainability and Management Audit's Discovery Matrix. This process enables the development of key criteria and indicators for urban forest management and planning (J. Clark, 1997; A. Kenney, 2011). The matrix within this audit includes a total of 11 urban forest categories, each containing a multitude of supporting elements. All resources were reviewed to identify references to any of these categories and supporting elements. Examples of the elements supporting the Management Policy and Ordinances category include (but not limited to) climate change, no net loss, risk management, canopy goals, tree protection, and human health. Based on the review of resources, a total of 60 resources mention one or more elements within this Management Policy and Ordinances category. There are a total 219 instances where the 39 resources reference the 11 categories and supporting elements. The number of resources referencing elements of urban forest sustainability and management demonstrate Wilsonville's readiness for changes driven by this Plan. Strategies and recommendations in this Plan align and/or complement components of these supporting resources. For a complete list of categories, elements, and supporting resources, see the Research Summary document developed as part of this planning effort.

According to the Urban Forest Sustainability and Management Audit of Wilsonville's urban forest completed in 2020, the City is at a management and sustainability level of 62 percent. This ranking is to be expected of a city in the process of elevating their urban forestry program from a base level to a more advanced and sustainable level. While all areas of urban forestry require improvement under the guidance of an urban forestry program manager, significant improvements could be made in the Funding/Accounting, Inventories, Plans, Risk Management, Disaster Planning, and Green Asset Evaluation categories — all of which are below the City's overall audit score of 62 percent.

Based on the audit of 126 subcategories (11 primary categories), Wilsonville is achieving "Adopted Common Practice" for 53 (41 percent) of these. 49 subcategories (38 percent) are "In Development". Applying the multipliers of 2 for

Adopted Practice and 1 for In Development results in a total score of 157 out of 254 possible points, or 62 percent (detailed in the following table). A complete breakdown of rankings by subcategory/category is available in the Research Summary.

Table 8. Outcomes of the urban forest auditing process for Wilsonville

#	DESCRIPTION	SOC* (% ACHIEVED)	BASE** (% ACHIEVED)	OVERALL RATING	OVERALL (% ACHIEVED)
1	Management Policy, Ordinances	75%	67%	20	71%
2	Professional Capacity and Training	83%	NA	10	63%
3	Funding and Accounting	75%	NA	7	58%
4	Decision, Management Authority	75%	50%	5	63%
5	Inventories	NA	31%	12	46%
6	Urban Forest Management Plans	NA	33%	12	50%
7	Risk Management	67%	50%	11	61%
8	Disaster Planning	NA	50%	6	43%
9	Standards and BMPs***	50%	75%	38	63%
10	Community	50%	NA	25	89%
11	Green Asset Evaluation	NA	NA	11	55%
тс	TOTAL		51%	157	62 %

*Standard of Care (SOC) elements represent the minimum group of urban forestry management "best practices" that a municipality should consider for implementation. SOC refers to the degree of prudence and caution required of an individual who is under a duty of care (i.e., legal obligation of the controlling authority, owner, or manager) to minimize risk. Neither state, regional, nor national minimum management components have been established for SOC but these are interim recommendations for consideration. (NA = not applicable)

**Base Practices (BP) elements represent additional urban forest management activities or components that may effectively expand a program beyond the SOC group (see footnote above). These elements are typically precursors to other "non-core" elements in the category. (NA = not applicable)

***Best Management Practices (BMPs)

The information provided in the table above describe the current conditions of Wilsonville's urban forest, the programs that manage it, and the community framework. As recommended in the Plan's actions, the City should use this framework to evaluate implementation progress, report successes, and inform changes to Plan actions.

SUMMARY OF FINDINGS

Table 9. Conclusions to the Urban Forestry Program Evaluation planning elements

ELEMENT	CONCLUSION
1) Existing Policies and Plans	The City has a strong framework of policies and plans that allude to or reference urban forestry, but a strategic Urban Forest Management Plan is needed to con- nect these elements. The City should implement actions in this Plan to update policies and inform existing and ongoing City plans.
2) City Workflows and Operations	Multiple City departments support the development of more well-defined roles for ongoing urban forestry operations and management. More cohesive planning and management will improve efficiencies, provide support, and improve the lev- els of service provided to City residents. Departments currently coordinate tree maintenance in parks and streetscapes effectively within the constraints of re- sources and rely on residents to care for trees in the Right-of-Way adjacent to their property.
3) Baseline Conditions	The City has several tree-related datasets to support the Urban Forest Manage- ment Plan, but should consider a regular and comprehensive inventory of street trees and trees in maintained areas of parks. The City public tree population would benefit from increased species and age diversity driven by a strategic planting and management as outlined in the Plan.
္တာလ္ 4) Urban Forest Benchmarks	The City should evaluate its staffing levels and responsibilities to better manage the public tree population at levels consistent with industry standards and cities of similar population size. The budget for urban forest management should align with the recommended actions in this Plan. Wilsonville should also consider de- veloping a science-based citywide tree canopy goal, a common urban forestry benchmark, from which progress can be measured.
5) Community 600 Engagement	The City's residents expressed the importance of tree protection during develop- ment and infrastructure construction to preserve the environmental, economic, and social benefits provided by trees. Residents support a healthy and resilient urban forest maintained through proper planting, species selection, invasive man- agement, tree maintenance, and stewardship opportunities.
6) Urban forest Audit System	Overall, the City scored 62 percent based on the U.S. Forest Service's Urban Forest Audit system that evaluates 11 categories of urban forest management and sus- tainability. A low scoring was anticipated since the City is taking purposeful steps in elevating their urban forest management program. Implementation of actions in this Plan will improve the City's ranking and frequent auditing exercises should be conducted to measure progress and adjust strategies in an adaptive manage- ment approach.

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URBAN FOREST MANAGEMENT PLAN FRAMEWORK

Understanding the benefits and functions of the urban forest, the City has developed this Urban Forest Management Plan.

"Without a plan, the governments and individuals responsible for taking care of an urban forest will not be effective in meeting the true needs of the trees and the community. A plan establishes a clear set of priorities and objectives related to the goal of maintaining a productive and beneficial community forest."

AMERICAN PUBLIC WORKS ASSOCIATION, 2007

PLAN PURPOSE

Many city planning and management actions, especially those that occur during redevelopment, have a large impact on the character and condition of the urban forest. A thriving and well-maintained public tree population provides a wide variety of benefits to the community. A healthy urban forest contributes to the economic vitality of Wilsonville, provides environmental stability, and provides a better quality of life. Care for the natural environment by the City, contractors, citizens, and volunteers is necessary to maintain and enhance the quality and benefits of the urban forest to which all residents are entitled.

Wilsonville's Urban Forest Management Plan ("Plan") is a crucial planning effort to build a more sustainable resource, a healthy community, and progression towards carbon neutrality. Tree planting is one of the few tangible actions the City can directly take to address non-source specific pollution in Wilsonville and this management plan supports strategic planning for continued plantings resulting in long-lasting benefits.

When making improvements to the urban forest, efforts should be prioritized to improve environmental justice, equity, access, and levels of service for underserved and vulnerable areas. These considerations may include additional tree plantings for an equitable distribution of urban forest cover and benefits, intensive tree management, diverse outreach approaches, and unique stewardship programs.

This strategic plan for Wilsonville's urban forest strengthens City Code, policies, ordinances, standards, practices, and procedures; analyzes staffing structures and authority; identifies opportunities for sustained and diversified funding; provides guidance for routine and systematic inventories and assessments; identifies tree maintenance efficiencies and planting/canopy goals and priorities; addresses storm, disaster, and risk management needs; and bolsters community outreach, education, and engagement.

To help ensure Wilsonville's urban forest will continue to prosper, the City has developed this long-term Plan to account for the needs of trees in the urban environment with an emphasis on the community focus areas of Charbonneau and Town Center. To develop and maintain desired urban forest resource and program conditions, necessary management actions need to be executed in a timely manner. This Plan provides actions for management to maximize the benefits of the urban forest within the confines of available resources. This Plan assists the City in improving urban forest management practices by:

- Establishing a baseline assessment of the urban forest resource, resources for management, and the community engagement framework.
- Providing analyses of urban forest management criteria resulting in goals and strategic actions to advance the City's levels of service.

- Providing the criteria for achieving goals of sustainable urban forest management in a phased approach based on available resources.
- Serving as a living document by providing the framework and guidance for adaptive management.

The Guiding Principles of the Urban Forest Management Plan

The Urban Forest Management Plan will adhere to the following guiding principles:

- Recognize that the trees of the urban forest are more than aesthetic enhancements.
- Recognize trees as the backbone of the urban ecosystem and an essential part of the community's green infrastructure.
- Promote the health and growth of the urban forest by following scientifically established best management practices for tree selection, planting, watering, and pruning.
- Promote a robust urban forest through policies and practices that reduce its vulnerability to known diseases or pest infestations, and future threats, including the anticipated effects of climate change.
- Engage in a continuous process of long-range planning for the growth and maintenance of the urban forest.
- Promote public appreciation of the urban forest through educational outreach programs.
- Support local businesses, institutions, organizations, and individuals in their efforts to grow and maintain the urban forest through community education.
- Proceed in a manner that is inclusive and transparent.

PLAN APPROACH

The optimal approach to managing an urban forest is to develop an organized, proactive program using information to set goals and measure progress. This information is utilized to establish priorities, plan strategically, draft cost-effective budgets, and ultimately minimize the need for costly, reactive solutions to crises or urgent risk mitigation. Based on the results of the **Research Summary**, incremental steps to achieve these improvements described above were developed that can be applied as the City continues to progress.

To develop Wilsonville's Urban Forest Management Plan, a systematic evaluation was conducted as a baseline assessment to inform the Plan's goals and actions. The goals of the Plan focus on preserving, maintaining, and enhancing the urban forest to ultimately benefit the residents of Wilsonville. The framework for this Plan supports the urban forestry vision:

Healthy Trees, Healthy Wilsonville: Wilsonville's urban forest is a thriving and sustainable mix of tree and understory species and ages that creates a contiguous and healthy ecosystem that is valued and cared for by the City and all residents as an essential environmental, economic, and shared community asset that reinforces Wilsonville's identity and legacy as a forested, livable city.



Source: City of Wilsonville Facebook

The Plan provides the goals, actions, and targets for Citywide management of the urban forest resource with an emphasis on the community focus areas of Charbonneau and Town Center. In this section, the Citywide urban forestry goals are presented followed by specific action items for the Charbonneau and Town Center focus areas. These action items are integrated into the Citywide urban forestry actions and also separated into individual summaries for direct implementation to benefit the focus areas.

Goals

Goals supporting the urban forest vision are provided based on strengths and opportunities identified during the development of the Research Summary. Each goal is supported by actions and targets the City and partners will use to attain the goal.

Actions

Actions are Specific, Measurable, Achievable, Relevant, and Time-bound to be implemented to acquire the goals of each planning theme. These actions include recommended timeframes or "target year(s)" beginning upon plan adoption and the lead department or partner(s) for implementation. Each action is rated based on the priority, level of effort and/or resources required, and the efficacy of the action.

Targets

Targets are performance standards and measurable values of specific indicators that enable monitoring of the actions to determine attainment of the actions and goals.

Evaluation

Using the Urban Forest Audit System described in the Research Summary and the Plan targets, implementation progress and success can be evaluated and annually reported. The evaluation using the Audit provides the information necessary for adaptive management.

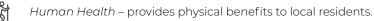
Co-benefits of Plan Implementation

Each action is accompanied by a graphic depiction of co-benefits, illustrating added value that comes with achieving that action and respective goal. For example, a neighborhood with dense tree canopied streets and landscape may have cooler summer temperatures that lead to fewer heat illnesses reported. Each action impacts four different co-benefits at various levels; the greatest relative level of impact is indicated by the presence of one or more of the following graphics in the Plan's action tables:



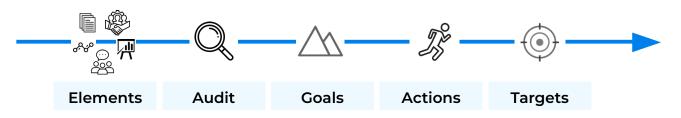
Community - actions that engage the public.

Equity - opportunities to satisfy essential needs and achieve full potential.



Natural Environment – benefits of air quality, water quality, and habitat.

GOAL AND ACTION FRAMEWORK



Results from the planning elements were used to complete the Urban Forest Audit of Wilsonville's urban forest and the programs that manage it. The City's strengths and opportunities were systematically evaluated to inform the Plan's goals, actions, and evaluation criteria for adaptive management. The goals in the Plan are consistent with the categories in the Urban Forest Audit system.

Table 10. Goals for Wilsonville's urban forest

GOAL THEME	AUDIT SCORE*	GOAL DESCRIPTION
Tree Management Policy (MP)	67% avg.	The City's urban forest policies are the foundation for preserving the environmental benefits, management, and character of Wil- sonville's urban forest.
Capacity, Training, and Authority (CT)	63% avg.	Wilsonville has the capacity and expertise to provide optimal levels of service for sound urban forest management.
Assessments and Plans (AP)	48% avg.	A thorough understanding of the urban forest ensures data-driven decisions, sustainable and comprehensive planning, and amplified tree benefits.
Community Engagement (CE)	89% avg.	Sustainable urban forest management and equity is achieved through a partnership with the City and its residents resulting in improved well-being, human health, and local economies.
Green Asset Management (GA)	53% avg.	Wilsonville proactively manages the public trees, continues to grow and expand a healthy canopy, effectively mitigates storm damage, maintains public safety, and optimizes urban forest benefits.

*Based on the 2021 evaluation of Wilsonville's urban forestry asset, programs, and community framework. Tree Management Policy includes Management Policy and Ordinances (71%) and Standards and BMPs (63%)— an average of 67%. Capacity, Training, and Authority includes Capacity and Training (63%) and Decision and Management Authority (63%)— an average of 63%. Assessments and Plans includes Inventories (46%) and Urban Forest Management Plans (50%)— an average of 48%. Green Asset Management includes the Risk Management (61%), Disaster Planning (43%), and Green Asset Management (55%) audit categories— an average of 53%

APPENDICES AND SUPPORTING STUDIES

To guide implementation of the actions in this Urban Forest Management Plan a series of appendices and supporting studies were completed. The need for these resources was uncovered during the planning stages. The research, City staff meetings, tree assessments, and community engagement informed the comprehensive audit system that identified Wilsonville's strengths and opportunities as it relates to the urban forest. It is recommended the City departments utilize these resources to implement actions and integrate them into daily operations and workflows where applicable. These resources include:

Appendix A. Citywide Recommended Tree List: Provides a series of recommended trees for various planting scenarios. The list is organized by tree stature, function, requirements, and climate resiliency. It is intended to be used for strategic replanting of Town Center, Charbonneau, and elsewhere throughout City-managed areas.

Appendix B. Tree Canopy Goal Setting Guidance: Guidance for setting a tree canopy goal for the City was established for the City to review, refine, and adopt. This ground-up approach looks at what is feasible by zoning type or Census Block Groups, the number of trees required, and the associated urban forest benefits and services provided by the trees once established. Canopy goals inform planting strategies, policies, maintenance, and outreach efforts. They provide a baseline and target to guide the urban forestry program and can only be achieved with a shared commitment from the community.

Appendix C. Tree Planting Prioritization Guidance: To support the recommended canopy goal, guidance for prioritizing tree plantings is provided. A series of themes are detailed in maps to demonstrate the approach for prioritization, securing funding and grants, planting, and post-planting care.

Appendix D. Preservation of Trees in Town Center: Based on the tree inventory, tiers of tree preservation were established for the trees in Town Center. Preservation tiers are based on the location, size, health, species, benefits, and other tree attributes that should be supported by policies as Town Center continues to grow and change.

Appendix E. Tree Removals and Replacements in Town Center: Using the inventory data, trees that require removal were assigned a recommended replacement species to sustain the associated benefits and services trees provide to Town Center and the City as a whole. Replacement species are based on tree diversity goals, resiliency to changing climates, site conditions, and other parameters that should be considered when replanting Town Center's urban forest.

Appendix F. Funding Mechanisms: To support the implementation of actions in this Plan, a matrix of funding mechanisms is provided that describe the funding option, requirements, considerations, and limitations. The City should have a diverse portfolio of funding sources to be sustainable and achieve the vision of the urban forest.

Appendix G. Trees and Hardscape Conflicts Solutions Workbook: Existing trees in the landscape share limited space with other City infrastructure. As such, the assets are competing for space which may result in conflicts between trees and hardscape. This workbook provides the decision matrix to assess the tree(s), the site(s), and the conflict(s) in a transparent and consistent manner. In addition, alternative solutions for tree and hardscape conflicts are provided for the City to consider for established trees and future tree plantings.

Appendix H. Existing and Potential Urban Forestry Partners: Achieving and sustaining the vision for the urban forest requires a diverse network of partners implementing programs and activities that share a common goal. In this resource, a series of existing and potential partners and programs are provided for the City to evaluate to establish or strengthen its network of community tree stewards.

Appendix I. Storm and Disaster Management Guidance: The effects of climate change are ever more felt after the 2021 winter storm in Wilsonville. This resource provides guidance on the preparation, response, and recovery efforts relating to storms and extreme weather events.

CITY OF WILSONVILLE URBAN FORESTRY GOALS

Wilsonville's Tree Canopy and Equity Goal: 36 by 46

Urbanization creates significant changes in land use and land cover, affecting the structure, pattern, and function of ecosystems. The public is increasingly concerned about how these changes influence daily life and affect the sustainability of "quality of life" for future generations. Improving air quality, cooling urban heat islands, building resiliency against storms, and reducing stormwater runoff are challenges facing the City of Wilsonville. Rapid growth in Wilsonville (29 percent increase from 2010 to 2018, City source), is accelerating these problems. The problems need solutions as the City tries to protect and restore environmental quality while enhancing economic opportunity.

Tree canopy is a valuable component of Wilsonville's urban ecosystem. Thus, expanding the urban forest is part of the solution to the City's social, environmental, and economic problems— it is integral to enhancing public health programs, increasing land values and local tax bases, providing job training and employment opportunities, reducing costs of city services, increasing public safety, improving air quality, offsetting carbon emissions, managing stormwater runoff, and conserving energy.

With this understanding, the City evaluated the feasibility of creating a canopy goal. Currently, 30 percent of Wilsonville's land area is covered by tree canopy when viewed from above. This value provides a baseline metric that forms the foundation of the strategies in the Plan. To achieve the vision for the urban forest, the City has established a goal to increase its tree canopy coverage by 6 percent over a 25-year timespan— "36 by 46". To reach this goal, approximately 27,000 new trees need to be planted over the 25-year timeframe while preserving the City's existing urban tree canopy cover. The goal of 36 percent canopy and 27,000 new trees is based on a variety of factors including species diversity, urban forest benefits, and an equitable distribution of tree canopy.

Regarding tree canopy equity, trees are generally sparse in socioeconomically disadvantaged neighborhoods and more prominent in wealthier neighborhoods. Focused on addressing this inequity, the American Forests organization created the Tree Equity Score (TES, TreeEquityScore.org) tool that measures tree equity across 150,000 U.S. neighborhoods and 486 municipalities in urban areas. Each community's TES indicates whether there are enough trees for everyone to experience the health, economic, and climate benefits that trees provide. The scores are based on how much tree canopy and surface temperature align with income, employment, race, age, and health factors. A 0- to-100-point system makes it easy to understand how a community is doing. With the knowledge the score provides, Wilsonville's community leaders, tree advocates, and residents alike can address climate change and public health through the lens of social equity, attract new resources, factor the scores into technical decisions, guide implementation of the Urban Forest Management Plan, and track progress toward achieving tree equity. A score of 100 represents tree equity.

The Tree Equity Score for the City of Wilsonville is currently at a score of 77 out of 100. This score is based on a combination of metrics for 12 Census Block Groups (CBG) comprising the City (refer to figure below). As shown in the figure below, only one of the CBGs is attaining tree equity with a score of 100 and three CBGs are just below the optimal score. The majority (four) of CBGs though, are in the 0-63 Tree Equity Score range.



URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 29

To improve tree equity and the associated benefits of more tree canopy cover, a goal was established for each Census Block Group to have a Tree Equity Score of at least 75. To achieve this, a total of 27,000 new trees need to be planted across the City which would increase the tree canopy cover from 30 percent to 36 percent. The City should be strategic in planting new trees to address the CBGs with the lowest TES while maintaining existing tree canopy cover across Wilsonville.

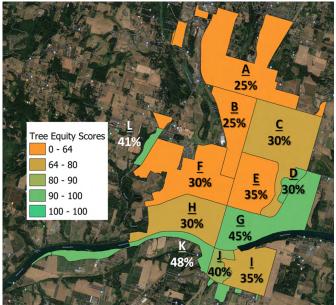
The following provides recommended canopy goals and planting targets for Wilsonville to achieve 36 percent tree canopy cover and improve the Tree Equity Scores for its Census Block Groups.

#*	Census Block Group	Tree Equity Score	Current Canopy	Canopy Goal	# of Trees	Trees per Year
А	CBG 410670321101	62	17%	25%	6,745	270
В	CBG 410050227071	61	13%	25%	4,559	182
С	CBG 410050244001	77	29%	30%	666	27
D	CBG 410050244002	97	30%	30%	0	0
E	CBG 410050244003	60	24%	35%	3,694	148
F	CBG 410050227072	56	16%	30%	8,732	349
G	CBG 410050227101	96	44%	45%	500	20
н	CBG 410050227082	72	27%	30%	1,148	46
I	CBG 410050228002	74	31%	35%	1,084	43
J	CBG 410050228001	88	38%	40%	167	7
К	CBG 410050228003	99	48%	48%	0	0
L	CBG 410050227081	100	41%	41%	0	0
	Citywide	77	30%	36 %	27,295	1,092

Table 11. Number of trees to reach the recommended tree canopy goal by Census Block Group and Citywide

*See Figure 11 below for a map displaying the reference letters in Table 11 and the canopy goal.

Figure 11. Map displaying Tree Equity Scores, canopy goals, and table reference letters for Census Block Groups



Planting 27,000 trees in the City will result in substantial increases to tree canopy cover and associated environmental, economic, and social benefits. Based on the Tree Equity Score tool, it is estimated these new trees will bring an added annual ecosystem service value of \$350,633 once fully implemented. Planting trees that grow to large-canopied specimens at maturity and are healthy will sequester over 360 tons of carbon, 0.3 tons of carbon monoxide, 0.3 tons of sulfur dioxide, and 5.9 tons of ozone annually— all pollutants contributing to the greenhouse gas effect and changing climate. In addition, the 27,000 trees will reduce particulate matter by 1.7 tons (PM10) and 0.4 tons (PM2.5) annually and prevent the runoff of 15,117,774 gallons of stormwater each year.

Carbon Sequestered	Carbon Monoxide	Nitrogen Dioxide
362.0 tons	0.3 tons	1.0 tons
Sulfur Dioxide	PM10 Pollution	PM2.5 Pollution
0.3 tons	1.7 tons	0.4 tons
Ozone	Runoff Avoided	Rain Interception
5.9 tons	15,117774 gallons	40,950,102 gallons

Table 12. Summary of ecosystem benefits from planting 27,000 trees and reaching 36 percent canopy cover

It is the responsibility of the City, its partners, and the community to review the recommendations in this report and the Urban Forest Management Plan to formally adopt tree canopy goals and strategies. Additional analyses of possible planting area and potential planting priorities should be conducted to support goal development. In addition, the City should utilize the Recommended Master Tree List, Tree Maintenance Manuals, Tree Ordinance Revision Recommendations, and other studies supporting the Plan and this Report. The TES and canopy goals will be refined, and aligned more closely to the City limits, with the completion of a high-resolution urban tree canopy (UTC) assessment (Action MP.03).

Urban Forest Management Goals

The following series of urban forestry goals to address the resource, the programs, and the people and are not listed by any particular priority or order.



TREE MANAGEMENT POLICY (MP):

The City's urban forest policies are the foundation for preserving the environmental benefits, management, and character of Wilsonville's urban forest.



CAPACITY, TRAINING, AND AUTHORITY (CT):

Wilsonville has the capacity and expertise to provide optimal levels of service for sound urban forest management.



ASSESSMENTS AND PLANS (AP):

A thorough understanding of the urban forest ensures data-driven decisions, sustainable and comprehensive planning, and amplified tree benefits.



COMMUNITY ENGAGEMENT (CE):

Sustainable urban forest management and equity is achieved through a partnership with the City and its residents resulting in improved well-being, human health, and local economies.



GREEN ASSET MANAGEMENT (GA):

Wilsonville proactively manages the public trees, continues to grow and expand a healthy canopy, effectively mitigates storm damage, maintains public safety, and optimizes urban forest benefits.

Action and Target Framework

Table 13. Framework	, , . , .	C I	C , , ·
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PRIORITY	EFFORT	ACTION # & ORDER	ACTION DESCRIPTION	CO-BENEFITS**	LEAD* & TARGET YEAR
1-3 ranking of action importance indicated by cell color	1-3 ranking of resources required indicated by cell color	Action number with a reference to the Urban Forest Audit categories.	Description of the action for the respective goal	Additional benefits to Wilsonville. Up to 3 dots ("•") possible. More dots, greater impact.	Implementer lead and collaborator. Calendar year(s) to implement
(3 cells = highest priority)	(3 cells = highest level of effort)	Number to indicate overall order of implementation		C=Community, H= Human Health E=Equity N=Natural Environment	

Table 14. Example framework of the urban forestry actions

PRIORITY EFFOR	ACTION # ORDER	TREE MANAGEMENT POLICY (MP) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
	MP.01 וו	Support canopy goals in Town Center with effective tree preservation policies (i.e., City Code 4.600 - 4.640.20). Use <u>Ap-</u> <u>pendix B-E</u> as guidance.	• • • • C H E N	CD , PW 2021

Table 15. Example framework of the urban forestry action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
An intermediate target leading to final target aligned with action "target year" and desired outcome	An intermediate target leading to final target aligned with action "target year" and desired outcome	Targets in bold font and goal color are the primary target to measure success of implementing the corresponding action

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

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GOAL 1 TREE MANAGEMENT POLICY (MP)

The City's urban forest policies are the foundation for preserving the environmental benefits, management, and character of Wilsonville's urban forest.

URBAN FOREST AUDIT:

Management Policy and Ordinances at 71% Attainment (2021) Standards and Best Management Practices at 63% Attainment (2021)

STRENGTHS:

Chapter 4.600 of City Code describes the policies and requirements for tree preservation and protection and City Code section 4.176 (Planning and Land Development Ordinance) describes the landscaping standards for development. In addition, the City has the Charbonneau Tree Preservation Program primarily for the care and enhancement of the large oak trees in the neighborhood.

OPPORTUNITIES:

Policies relating to urban forestry can be updated with current industry standards and best practices to support tree preservation Citywide and specifically in Town Center. A high-resolution tree canopy assessment can identify the location and extent of the urban forest resource in terms of canopy cover and the opportunities available for planting more trees. This data can guide policies, planning and development requirements, planting strategies, and baseline assessments.

PURPOSE:

- <u>Support</u>: An urban forestry program implementing actions without the appropriate support from policy and ordinances is at risk of using resources and time inefficiently and may lack the enforcement necessary for permanent improvements. A weak or outdated framework of policy and ordinances for urban forest management jeopardizes the success of key projects that support this Plan.
- <u>Connections</u>: Alignment of policy and ordinances ensures a strong connection among the urban forestry program's high-level strategic goals, and the projects and initiatives that support these goals.
- <u>Holistic</u>: Programs cannot live in isolation. Therefore, cross-examining and aligning various plans, policies, and ordinances brings to light any projects or initiatives that are a misplacement of resources.

TREE MANAGEMENT POLICY (MP) ACTIONS

Table 16. Tree Management Policy actions

PRIORITY	EFFORT	ACTION # ORDER	TREE MANAGEMENT POLICY (MP) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
		MP.01 וו	Support canopy goals in Town Center with effec- tive tree preservation policies (i.e., City Code 4.600 - 4.640.20). Use <u>Appendix B-E</u> as guidance.	 	CD , PW 2022
_		MP.02 15	Strengthen storm and disaster preparations, mitigations, recovery strategies, and protocols (see <u>Appendix I</u>), protocols, and mechanisms, in- cluding flexibility related to obvious tree removals to shorten the permitting process.`	C H E N	CD , PR, PW 2022
		MP.03 27	Complete a comprehensive high-resolution urban tree canopy (UTC) assessment using industry recommended protocols to measure progress towards canopy goals and tree equity.	C H E N	CD , PW 2025
-		MP.04 30	Develop a tree manual for planners, develop- ers, homeowners, and tree care companies that includes tree-related policies, guidelines, best practices, and standards.	C H E N	CD 2026

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

TREE MANAGEMENT POLICY (MP) TARGETS

Table 17. Tree Management Policy action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
MP.01: Guidance in <u>Appendix</u> <u>B-E</u> of the UFMP is reviewed and incorporated accordingly (Year 1)	MP.01: Tree preservation policies are enforced in Town Center (Year 1)	MP.01: The City has staffing levels to adequately monitor development projects and enforce tree preservation policies to achieve canopy goals in Town Center (Year 25)
MP.02: <u>Appendix I</u> is reviewed and a strategy is developed (Year 1)	MP.02: A plan or manual detailing storm and disaster preparation, response, and mitigation is updated (Year 2)	MP.02: The plan or manual is actively utilized and reduces costs of storm response. The urban forest is more resilient (Year 25)
MP.03: A decision on in-house or consultant-led tree canopy assessment is determined (Year 3)	MP.03: A budget proposal is prepared if needed (Year 4)	MP.03: An urban tree canopy assessment is completed and canopy goals are established, supported by Master Tree Planting Plans (Year 5)
MP.04: A statement of need and an outline for the tree manual(s) is prepared (Year 4)	MP.04: A decision on in-house or consultant-led manual is determined (Year 5)	MP.04: Tree manual(s) developed to support goals of a healthy and sustainable urban forest (Year 6)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action.

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GOAL 2 CAPACITY, TRAINING, AUTHORITY (CT)

Wilsonville has the capacity and expertise to provide optimal levels of service for sound urban forest management.

URBAN FOREST AUDIT:

Capacity and Training at 63% Attainment (2021) Authority at 63% Attainment (2021)

STRENGTHS:

The Community Development Department and Natural Resources Program along with the Parks and Public Works departments have a robust team of certified, qualified, and trained staff for the management of the urban forest. Supporting this team is the framework established to utilize certified consultants and contractors as needed. City staff maintain certifications and continue to expand skillsets and offer trainings and presentations relating to the City's urban forest.

OPPORTUNITIES:

It is recommended the City consider consolidating programs to reduce inefficiencies and improve cohesive planning and management of the public trees. The City should continue to support in-house and outsourced training as it relates to tree maintenance, safety, risk, and other needs. The City should update Standard Operating Procedures (SOPs) as changes occur such as increasing staffing to support more frequent public tree pruning as recommended by industry standards

PURPOSE:

- <u>Quality</u>: The complexity of urban forests requires adept personnel for its appropriate care, growth, and resiliency. A city with quality staff reduces the variance of quality in service.
- <u>Efficiency</u>: A City with adequate staffing levels who are appropriately trained can meet the needs of the community timely and effectively. Staff with an understanding and training in processes affecting the urban forest can align efforts to achieve common goals.
- <u>Safety</u>: Safe practice of arboriculture and urban forestry is critical for City staff, contractors, and the public to reduce the potential risk of public hazards.
- <u>Service</u>: This Plan evaluates tree maintenance responsibilities in public areas to achieve targets of improved urban forest health.

CAPACITY, TRAINING, AUTHORITY (CT) ACTIONS

Table 18. Capacity, Training, Authority actions

PRIORITY	EFFORT	ACTION # ORDER	CAPACITY, TRAINING, AUTHORITY (CT) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
		ст.оі 1	Establish an urban forestry working group with regular meetings to monitor progress of imple- menting actions. Finalize lead implementers.	 	CD , PR, PW 2022
	_	CT.02 13	Maintain International Society of Arboriculture (ISA) Certified Arborist certifications and other credentials such as ISA Tree Risk Assessment Qualification (TRAQ).	C H E N	PW , PR, CD 2022
-	_	CT.03 18	Educate and train City staff to adhere to Best Management Practices, including industry re- search, science, and technology through various platforms, for the maintenance of all City trees. Provide education to the public for the proper care of trees on private property.	C H E N	CD , PR, PW 2023

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

CAPACITY, TRAINING, AUTHORITY (CT) TARGETS

Table 19. Capacity, Training, Authority action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
CT.01: Necessary representation and skillsets of members needed is determined, outreach conducted (Year 1)	CT.01: Urban forestry working group established and regular meetings scheduled (Year 1)	CT.01: The UFMP is actively implemented, monitored, reported, and revised by the working group (Year 2-25)
CT.02: A needs assessment identifies necessary training and certifications of all staff (Year 1)	CT.02: Necessary certifications and credentials are maintained (Year 2)	CT.02: All City staff involved in urban forestry activities have the appropriate and recommended training and certifications (Year 25)
CT.03: Training needs are identified (Year 2)	CT.03: City staff are trained on BMPs and public is informed of proper tree care (Year 3)	CT.03: BMPs are implemented for all public trees and less malpractice on private trees occurs (Year 10)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action.

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GOAL 3 ASSESSMENT AND PLANS (AP)

A thorough understanding of the urban forest ensures data-driven decisions, sustainable and comprehensive planning, and amplified tree benefits.

URBAN FOREST AUDIT:

Inventories at 46% Attainment (2021) Urban Forest Management Plans at 50% Attainment (2021)

STRENGTHS:

The City has a comprehensive inventory of public trees along streetscapes and in maintained areas of parks housed in an asset management program. Tree management staff routinely utilize the database for prioritizing and scheduling maintenance and conduct physical assessments of City-owned trees. In addition to assessments, the City has a Parks and Recreation Master Plan, stormwater management plans, Urban Renewal Strategic Plan, plans for City focus areas such as Town Center and Charbonneau, and recognizes trees as vital assets in the Comprehensive Plan.

OPPORTUNITIES:

The City should continue to manage and update the inventory database as changes to the public tree population occur. To support the focus areas of Charbonneau and Town Center, a Master Tree planting Plan would provide the strategies for preserving existing trees and replacing removed trees to maintain and grow a sustainable urban forest. Other related City plans should be updated with information relating to the Urban Forest Management Plan, as necessary, and the Urban Forest Management Plan should be routinely evaluated and adapted as the resource and programs change over time.

PURPOSE:

- <u>Informed Management</u>: An inventory of Wilsonville's valuable assets—public trees—provides the data for informed management and resource decisions.
- <u>Measured</u>: An understanding of the population of trees provides baseline information from which progress and change resulting from this Plan and an urban forestry program can be measured for adaptive management.
- <u>Value</u>: The inventory of public trees provides information that can be used to quantify the ecosystem services and benefits provided to Wilsonville's residents, environment, and economy.
- <u>Inclusivity</u>: The urban forest is comprised of public and private trees spanning a multitude of ecosystems and land uses. Plans for trees across these landscapes ensures all aspects of urban forestry are included in a cohesive, strategic manner.

ASSESSMENTS AND PLANS (AP) ACTIONS

Table 20. Assessment and Plans actions

PRIORITY	EFFORT	ACTION # ORDER	ASSESSMENTS AND PLANS (AP) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
	=	AP.01 4	Maintain an inventory of public trees Citywide and within Focus Areas and update as mainte- nance and new plantings occur. Monitor tree loss and gain through annual tree removal and plant- ing permit reporting.	C H E N	PW , CD Annually
	=	AP.02 16	Utilize Appendix A-E to develop a Master Tree Planting Plan for Town Center, aligned with the local and Citywide canopy goals. Preserve existing trees in Town Center to the extent possible by using guidance provided in Appendix D.	C H E N	CD , PW 2023
	_	AP.03 17	Utilize <u>Appendix A-E</u> to develop a Master Tree Planting Plan for Charbonneau's aging oak (Quercus) population, aligned with the local and Citywide canopy goals.	 	CD , PW 2023
		AP.04 20	Complete an urban forest audit using similar criteria as the 2020 audit completed for the UFMP to evaluate improvements in urban forest management and adapt strategies. As needed, modify existing actions and develop new actions to continue to achieve goals of the UFMP.	• • • • • • • • C H E N	CD 2026
		AP.05 26	Utilize <u>Appendix G</u> to develop a Trees and Con- struction Operations Plan for alternative solutions to conflicts between public trees and infrastruc- ture/construction.	C H E N	CD , PW 2026
-	_	AP.06 27	Quantify the ecosystem benefits and appropriate appraisal values to conduct a cost-benefit anal- yses of public trees. This informs maintenance and planting recommendations and raises public awareness of urban forest benefits. For example, explore the cost effectiveness and safe use of uti- lizing urban forest biomass on City properties.	• • • • • • • • C H E N	CD 2028

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

ASSESSMENTS AND PLANS (AP) TARGETS

Table 21. Assessment and Plans action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
AP.01: Tree database updated to reflect changes to the public tree population (Year 1-10)	AP.01: Tree database updated to reflect changes to the public tree population (Year 10)	AP.01: All public trees in a maintained database. Includes sample inventories of all forested public space (Year 25)
AP.02: The Citywide Recommended Tree List in <u>Appendix A</u> is adopted (Year 1)	AP.02: Strategic planning for the preservation of trees in Town Center using <u>Appendix D</u> is completed (Year 2)	AP.02: A Master Tree Planting Plan for Town Center is developed (Year 3)
AP.03: The Citywide Recommended Tree List in <u>Appendix A</u> is adopted (Year 1)	AP.03: Strategic planning for the oaks in Charbonneau is completed using the 2020 inventory and UFMP guidance (Year 2)	AP.03: A Master Tree Planting Plan for Charbonneau's aging oak population is developed (Year 3)
AP.04: An updated urban forest audit is completed (Year 4)	AP.04: UFMP actions and strategies are updated based on the 2023 audit (Year 5)	AP.04: An updated urban forest audit is completed (Year 6)
AP.05: Alternative solutions provided in <u>Appendix G</u> of the UFMP are reviewed (Year 4)	AP.05: Alternative solutions and best practices are approved (Year 5)	AP.05: A Trees and Construction Operations Plan is completed (Year 6)
AP.06: Using the tree database, changes to the public tree population are measured (Year 3-6)	AP.06: The ecosystem benefits and appraisal values of public trees is quantified (Year 7)	AP.06: A cost-benefit analysis is completed informing planting, maintenance, and biomass utilization options (Year 8)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action.

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GOAL 4 COMMUNITY ENGAGEMENT (CE)

Sustainable urban forest management and equity is achieved through a partnership with the City and its residents resulting in improved well-being, human health, and local economies.

URBAN FOREST AUDIT:

Community at 89% Attainment (2021)

STRENGTHS:

The City has a strong partnership with neighborhood and regional organizations for the planting and care of trees. Urban forestry related information is available on the City's website and the City utilizes an outreach website for keeping residents engaged. The City also has a successful Tree Fund program for homeowner mitigation plantings. Wilsonville has maintained Arbor Day Foundation's Tree City USA status for 22 years (as of June 2020) and received numerous "Growth Awards" for outstanding urban forestry projects. In addition, the City manages a Heritage Tree Program recognizing significant trees throughout Wilsonville.

OPPORTUNITIES:

Existing partnerships should be maintained and opportunities for non-conventional partnerships should be explored for representation of all neighborhoods and demographics in Wilsonville. Urban forestry related events, workshops, and training for the public should be held in coordination with partners as funding allows and the City should strive to diversify and expand the number of volunteers for community tree stewardship. Under the current capacity these efforts are difficult to pursue therefore, the City should explore the feasibility of a volunteer coordinator for urban forestry and other related efforts.

PURPOSE:

- <u>Inclusivity</u>: Residential property contains a large portion of the City's total tree canopy cover. Sustaining Wilsonville's urban forest requires residential collaboration and feedback and fostering long-term relationships to improve outcomes.
- <u>Transparency</u>: Program and funding transparency are essential in building resilient community partnerships.
- <u>Resourcefulness</u>: Public participation and insight provide resourceful and impactful urban forest program growth.
- <u>Community</u>: Active participation in nature-related efforts foster community pride and ownership, and breaks down walls, helping bring communities closer together as they become closer to nature.

COMMUNITY ENGAGEMENT (CE) ACTIONS

Table 22. Community Engagement actions

PRIORITY	EFFORT	ACTION # ORDER	COMMUNITY ENGAGEMENT (CE) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
-		CE.01 2	Update the City's website and materials based on information from the Plan. On a regular basis, share informative urban forestry and tree-relat- ed content to a social media, City website, and other communication platforms. Prioritize citizen service requests and update the City website with frequently asked questions and resources.	C H E N	СD 2022
=	-	CE.02 5	As funding permits, conduct annual urban forest- ry events, or partner-events—especially involving youth and HOAs—relating to tree planting and pruning to increase capacity for the care of public trees led by citizen tree stewards. Prioritize areas with lower urban tree canopy and other consider- ations such as underserved communities.	• • • • • • • • • • C H E N	CD , PR Annually
		CE.03	Continue to track and annually report urban forestry activities of all partners and continue to maintain Arbor Day Tree City USA designation. Data will support future budget requests.	• • • • C H E N	CD , PR, PW Annually
	=	CE.04 7	Continue to strengthen partnerships with civic groups, volunteers, institutions, neighborhoods, and non-profit organizations. Clarify tree main- tenance authority and responsibilities among entities such as Homeowners Associations (HOAs), utilities, and special districts in a Standard Operating Procedure (SOP). Provide resources to private landholders on an as-needed basis.	C H E N	CD Annually
-		CE.05 8	As funding permits, provide information and educational workshops and materials about the proper tree species for given sites and conditions. Increase public outreach and notification of cur- rent and future pest/disease concerns and what they can do to support and sustain the urban tree canopy.	C H E N	CD Annually
=	_	CE.06 10	Continue to utilize the City Tree Fund for home- owner mitigation plantings. Increased awareness and support of urban forestry in the City will increase City Tree Fund contributions allowing the City to reevaluate mitigation amount (\$100 currently).	• • C H E N	CD 2022

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

COMMUNITY ENGAGEMENT (CE) TARGETS

Table 23. Community Engagement action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
CE.01: A community outreach strategy is aligned with other City efforts with consistent messaging (Year 1)	CE.01: Information from the UFMP is shared on a multitude of City platforms for the public (Year 1)	CE.01: Citizen service requests are reviewed and the City website is updated with FAQs (Year 1)
CE.02: A list of existing and potential events, partners, and subject matter is prepared (Year 1 -25)	CE.02: Regular meetings with City partners are done to align efforts and resources (Year 1-25)	CE.02: Events are held to raise awareness and build a community of stewards aligned with needs identified in surveys and audits (Year 1-25)
CE.03: Appropriate urban forestry activities are tracked and reported and Tree City USA award is received (Year 1-25)	CE.03: Appropriate urban forestry activities are tracked and reported and Tree City USA award is received (Year 1-25)	CE.03: City acquires Arbor Day Foundation's Growth Awards and Sterling Tree City status and other industry recognition (Year 25)
CE.04: A list of existing and potential partners and programs is managed utilizing <u>Appendix H</u> in the UFMP (Year 1-25)	CE.04: SOPs are reviewed and updated regularly as needed, information for urban and rural forest management available for private landholders (Year 1-25)	CE.04: Partnerships represent all neighborhoods, demographics, and cultures in the City (Year 10)
CE.05: Materials and information to address priority concerns are prepared and shared (Year 1-25)	CE.05: Based on public surveys and tracking, residents of the City actively plant appropriate tree species and monitor for pest/disease concerns (Year 10)	CE.05: The urban forest is more resilient to climate change and tree pests and diseases (Year 25)
CE.06: City Tree Fund is utilized (Year 1)	CE.06: City Tree Fund contributions are reevaluated as demand increases (Year 10)	CE.06: A shared partnership between the City and the community achieves local and Citywide canopy goals (Year 25)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action

COMMUNITY ENGAGEMENT (CE) ACTIONS CONTINUED

Table 22. Community Engagement actions (continued)

PRIORITY	EFFORT	ACTION # ORDER	COMMUNITY ENGAGEMENT (CE) ACTIONS	CO-BENEFITS**	LEAD* & TARGET YEAR
-	-	CE.07 12	Support and sustain partnerships with local and regional participatory organizations (see <u>Appendix H</u>). Encourage and support horizontal volunteer collaboration between organizations. Increase the number of community volunteers annually.	C H E N	CD , PR, PW Annually
-		CE.08 15	Develop strategies to remove barriers to partici- pation for all community members. Barriers to ad- dress include ADA communications compliance, internet availability, language, cultures, location, and transportation. Utilize partnerships with neighborhood organizations (see <u>Appendix H</u>).	• • • • • • • • C H E N	CD , PR, PW 2022, Annually
		CE.09 19	Recognize exemplary urban forest stewards and volunteers representing youth, residents, orga- nizations, and business owners. Consider a tree donation or use of the City Tree Fund framework for costs associated with this program.	C H E N	CD 2023, Annually
	_	CE.10 23	Conduct biannual community surveys to gauge public viewpoints and receive feedback on im- plementation of the UFMP, and program success. Survey responses should inform future urban forest decision making.	C H E N	CD 2024, Bi-Annually
	=	CE.11 24	Establish non-conventional partnerships that serve single and/or multiple City neighborhoods. At minimum, all neighborhoods should be repre- sented in partnerships.	• • • • • • • • • • • • • • • • • • •	CD , PR, PW 2025

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

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COMMUNITY ENGAGEMENT (CE) TARGETS CONTINUED

Table 23. Community Engagement action targets (continued)

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
CE.07: A list of existing and potential partners and programs is managed utilizing <u>Appendix H</u> in the UFMP. (Year 1-25)	CE.07: Annual increase in the number of volunteers, hours, and diversity (Year 1-25)	CE.07: Annual increase in the number of volunteers, hours, and diversity (Year 1-25)
CE.08: Strategies to remove barriers are developed (Year 2)	CE.08: Annual increase in the number of volunteers, hours, and diversity (Year 3-25)	CE.08: Annual increase in the number of volunteers, hours, and diversity (Year 3-25)
CE.09: The framework for a recognition program is developed (Year 2)	CE.09: The recognition program is launched (Year 3)	CE.09: The recognition program continues to grow with participants from various sectors to support the City's urban forest (Year 4-25)
CE.10: A strategy for community surveys is prepared (Year 3)	CE.10: A community survey is shared to gather viewpoints and feedback that informs urban forest management (Year 4)	CE.10: Ongoing surveys conducted every 2 years, survey input is appropriately addressed (Year 5-25)
CE.11: A list of existing and potential partners and programs is managed utilizing <u>Appendix H</u> in the UFMP (Year 3)	CE.11: Outreach and meetings with potential partners are conducted (Year 4)	CE.11: Non-conventional partnerships are established that represent all City neighborhoods (Year 5)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action

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GREEN ASSET MANAGEMENT (GA)

Wilsonville proactively manages the public trees, continues to grow and expand a healthy canopy, effectively mitigates storm damage, maintains public safety, and optimizes urban forest benefits.

URBAN FOREST AUDIT:

Green Asset Management at 55% Attainment (2021) Risk Management at 61% Attainment (2021) Disaster Planning at 43% Attainment (2021)

STRENGTHS:

City departments manage public trees along streetscapes and in parks, implement industry best management practices and standards, and conduct pest management practices as funding allows. Current tree planting regimen considers diversity of species and age. Certain City-owned trees are given fertilizer injections and treated for pests such as aphids.

OPPORTUNITIES:

Most public tree pruning performed by adjacent property owners and is reactionary and seldom proactive. The City should explore costs and staffing requirements to prune City-owned street trees on a recommended rotation to improve tree health, reduce risk, and improve efficiencies. HOAs conducting tree maintenance in their respective neighborhoods can support this evaluation and effort. Consideration for staffing requirements to achieve tree canopy cover goals should also be made. Large oak trees are outgrowing their space or impeding hardscape in areas such as Charbonneau and a strategic replanting strategy should be developed and aligned with canopy goals. Wilsonville should explore strategies to address storm preparation, response, and recovery as it relates to the urban forest and expand its pest management program to maintain a healthy and sustainable urban forest.

PURPOSE:

- <u>Efficiency</u>: Alignment of operations improves workflows, encourages resourcefulness, and reduces conflicts. Routine systematic tree maintenance reduces surges of maintenance and removal demands, identifies issues before they become more expensive, and optimizes available time and resources.
- <u>Safety</u>: Appropriate management of green assets reduces the risk of tree failures as well as person and property damage. Utilizing industry standards and best practices reduces on-the-job incidents to the extent possible.
- <u>Sustainability</u>: Managing urban forests as City assets will support stormwater management, climate resiliency, and human health goals. Appropriate maintenance and planting will support a healthy, long-lived urban tree canopy equitably distributed across a city.
- <u>Proactive</u>: Routine maintenance reduces future costs. Planting the urban forest with the appropriate species also reduces future costs, conflicts, and climate change impacts.

GREEN ASSET MANAGEMENT (GA) ACTIONS

Table 24. Green Asset Management actions

PRIORITY	EFFORT	ACTION # ORDER	GREEN ASSET MANAGEMENT (GA) ACTIONS	co-	BEN	IEFI1	S**	LEAD* & TARGET YEAR
=	-	GA.01 3	Use Citywide tree inventory data and best avail- able science for long-term planning and man- agement of existing and future tree pests and dis- eases impacting the City's urban forest and trees specific to Focus Areas.	e C	• • H	• E	• • N	CD 2022
=		GA.02 9	Prioritize and mitigate risk trees as well as young and large tree maintenance based on updated inventory data and resources. Continue to inform adjacent property owner(s) of tree maintenance or removal responsibilities using established protocols.	e C	• • H	Ē	• • N	CD , PR, PW Annually
		GA.03 22	Develop a more strategic approach to tree species and site selection to ensure their resilience and optimize ecosystem service provision of Wilson- ville's urban forest. Use <u>Appendix A</u> as guidance.	e C	• • • H	• • E	• • • N	CD , PR, PW 2024
	=	GA.04 23	In conjunction with watershed goals, green stormwater infrastructure plans, and other plan- ning efforts, evaluate staffing resources required to effectively plant and maintain trees aligned with canopy goals and provide post-planting care.	• C	• • H	e E	• • N	CD , PR, PW 2024

*Lead: CD-Community Development Department; PR- Parks and Recreation Department; PW-Public Works Department

**<u>Co-Benefits</u>: C = Community; E = Equity; H = Human Health; N = Natural Environment

<u>Acronyms</u>: ANSI-American National Standards Institute, BMPs-Best Management Practices, ISA-International Society of Arboriculture, SOP-Standard Operating Procedure, UFMP-Urban Forest Management Plan

GREEN ASSET MANAGEMENT (GA) TARGETS

Table 25. Green Asset Management action targets

ACTION TARGET 1	ACTION TARGET 2	ACTION TARGET 3
GA.01: Tree database updated to reflect changes to the public tree population and analyzed for potential risks (Year 1)	GA.01: A plan is in place for managing tree pests and diseases in an integrated approach aligned with the Master Tree Planting Plan resulting from actions AP.02 and AP.03 (Year 10)	GA.01: The urban forest is more resilient to climate change and tree pests and diseases (Year 25)
GA.02: A maintained tree database informs routine and risk tree maintenance (Year 1-25)	GA.02: Tree maintenance responsibility is understood by the public observed in surveys and less service requests (Year 10)	GA.02: The public tree population is actively managed to reduce tree risk and all street trees are pruned on an appropriate rotation (Year 25)
GA.03: The Citywide Recommended Tree List in <u>Appendix A</u> is adopted (Year 1)	GA.03: A maintained tree database informs tree species and locations for planting (Year 3)	GA.03: A Citywide Master Tree Planting Plan is developed in line with Focus Area planting plans (Year 4)
GA.04: City and partner programs and efforts are documented (Year 3)	GA.04: Coordination meetings are held to effectively develop planting targets and canopy goals (Year 4)	GA.04: A shared commitment achieves local and Citywide tree canopy goals with staffing to properly maintain the growing urban forest (Year 25)

Targets in bold font and colored by goal color are the primary target to measure success of implementing the corresponding action

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CITY FOCUS AREAS

In addition to the Citywide urban forest management actions, strategic actions were developed for the City's focus areas of Charbonneau and Town Center. These actions are integrated into the Citywide actions and summarized below for direct implementation to improve the management, sustainability, and community framework of trees in these focus areas.

SPECIFIC ACTIONS FOR THE URBAN FOREST IN CITY FOCUS AREAS

Table 26. Urban forestry actions specific to City Focus Areas

ACTION #*	FOCUS AREA	ACTIONS	TARGET YEARS
MP.01	Town Center	Support canopy goals in Town Center with effective tree preservation policies (i.e., City Code 4.600 - 4.640.20). Use <u>Appendix B-E</u> as guidance.	2021
MP.03	Charbonneau Town Center	Complete a comprehensive high-resolution urban tree canopy (UTC) assessment using industry recommended protocols to measure progress towards canopy goals and tree equity.	2025
MP.04	Charbonneau Town Center	Develop a tree manual for planners, developers, homeowners, and tree care companies that includes tree-related policies, guidelines, best prac- tices, and standards.	2026
AP.01	Charbonneau Town Center	Maintain an inventory of public trees Citywide and within Focus Areas and update as maintenance and new plantings occur. Monitor tree loss and gain through annual tree removal and planting permit reporting.	Annually
AP.02	Town Center	Utilize <u>Appendix A-E</u> to develop a Master Tree Planting Plan for Town Center, aligned with the local and Citywide canopy goals. Preserve existing trees in Town Center to the extent possible by using guidance provided in <u>Appendix D</u> .	2023
AP.03	Charbonneau	Utilize <u>Appendix A-E</u> to develop a Master Tree Planting Plan for Charbonneau's aging oak (<i>Quercus</i>) population, aligned with the local and Citywide canopy goals.	2023
CE.01	Charbonneau Town Center	Update the City's website and materials based on information from the Plan. On a regular basis, share informative urban forestry and tree-related content to a social media, City website, and other communication plat- forms. Prioritize citizen service requests and update the City website with frequently asked questions and resources.	2021
CE.02	Charbonneau Town Center	As funding permits, conduct annual urban forestry events, or part- ner-events—especially involving youth and HOAs—relating to tree planting and pruning to increase capacity for the care of public trees led by citizen tree stewards. Prioritize areas with lower urban tree canopy and other considerations such as underserved communities.	Annually
CE.03	Charbonneau Town Center	Continue to track and annually report urban forestry activities of all part- ners and continue to maintain Arbor Day Tree City USA designation. Data will support future budget requests.	Annually
CE.04	Charbonneau Town Center	Continue to strengthen partnerships with civic groups, volunteers, insti- tutions, neighborhoods, and non-profit organizations. Clarify tree mainte- nance authority and responsibilities among entities such as Homeowners Associations (HOAs), utilities, and special districts in a Standard Operating Procedure (SOP). Provide resources to private landholders on an as-need- ed basis.	Annually

* MP = Tree Management Policy goal; AP = Assessments and Plans goal; CE = Community Engagement goal; GA = Green Asset Management goal

Acronyms: ADA = Americans with Disabilities Act

OCTOBER 2021

Table 26. Urban forestry actions specific to City Focus Areas (continued)

ACTION #*	FOCUS AREA	ACTIONS	TARGET YEARS
CE.05	Charbonneau Town Center	As funding permits, provide information and educational workshops and materials about the proper tree species for given sites and conditions. Increase public outreach and notification of current and future pest/ disease concerns and what they can do to support and sustain the urban tree canopy.	Annually
CE.06	Charbonneau Town Center	Continue to utilize the City Tree Fund for homeowner mitigation plant- ings. Increased awareness and support of urban forestry in the City will increase City Tree Fund contributions allowing the City to reevaluate mitigation amount (\$100 currently).	2021
CE.07	Charbonneau Town Center	Support and sustain partnerships with local and regional participato- ry organizations (see <u>Appendix H</u>). Encourage and support horizontal volunteer collaboration between organizations. Increase the number of community volunteers annually.	Annually
CE.08	Charbonneau Town Center	Develop strategies to remove barriers to participation for all community members. Barriers to address include ADA communications compliance, internet availability, language, cultures, location, and transportation. Uti- lize partnerships with neighborhood organizations (see <u>Appendix H</u>).	2022, Annually
CE.09	Charbonneau Town Center	Recognize exemplary urban forest stewards and volunteers represent- ing youth, residents, organizations, and business owners. Consider a tree donation or use of the City Tree Fund framework for costs associated with this program.	2023, Annually
CE.10	Charbonneau Town Center	Conduct biannual community surveys to gauge public viewpoints and receive feedback on implementation of the UFMP, and program success. Survey responses should inform future urban forest decision making.	2024, Bi-Annually
CE.11	Charbonneau Town Center	Establish non-conventional partnerships that serve single and/or multiple City neighborhoods. At minimum, all neighborhoods should be repre- sented in partnerships.	2025
GA.01	Charbonneau Town Center	Use Citywide tree inventory data and best available science for long-term planning and management of existing and future tree pests and diseases impacting the City's urban forest and trees specific to Focus Areas.	2021
GA.02	Charbonneau Town Center	Prioritize and mitigate risk trees as well as young and large tree main- tenance based on updated inventory data and resources. Continue to inform adjacent property owner(s) of tree maintenance or removal re- sponsibilities using established protocols.	Annually

* MP = Tree Management Policy goal; AP = Assessments and Plans goal; CE = Community Engagement goal; GA = Green Asset Management goal

Acronyms: ADA = Americans with Disabilities Act

GOAL AND ACTION

Urban trees are regarded as assets similar to other infrastructure investments. Protecting the asset and ensuring a healthy and sustainable urban forest requires sound and deliberate management guided by strategic goals and actions. This Urban Forest Management Plan was developed to establish the protocols, outcomes, and services related to Wilsonville's urban forest over a long-term 25-year planning horizon. The actions presented in the previous section are ordered by goal theme though the City may find it advantageous to order by priority or other action attribute (see the Goal and Action Framework worksheet as part of the UFMP project). The table below provides the actions in order of priority and the key considerations for implementing the respective action.

Table 27. Summary of urban forest management actions by priority and rationale

	ACTION #	KEY CONSIDERATIONS OR RATIONALE
	MP.01	Effective policies ensure long-term urban forest sustainability.
	MP.03	Equal access to green spaces and an equitable distribution of tree canopy provides social, econom- ic, and environmental benefits.
Σ	СТ.01	Coordinating implementation of the UFMP enables success.
NON ROR	СТ.02	Staff training reduces costs and improves production, safety, levels of service, and the urban forest.
T PR	AP.01	Inventories inform maintenance, resource needs, planting, and ecosystem benefits.
HIGHEST PRIORITY	AP.02	A strategic plan for planting can achieve canopy goals, sustainability, and equity.
Ę	AP.03	A strategic plan for planting can achieve canopy goals, sustainability, and equity.
	AP.04	Evaluations enable adaptive management.
	CE.03	A city must demonstrate that it cares about its urban forest.
	CE.04	Partnerships enable efficient achievement of shared goals.
	СТ.03	A well-managed urban forest is sustainable, resilient, lower risk, and beneficial.
	CT.04	Effective policies ensure long-term urban forest sustainability.
	AP.05	A plan to address tree and hardscape conflicts resolves issues, is consistent, transparent, and achieves common goals.
	AP.06	An understanding of benefits, services, and value can be conveyed to the public and inform man- agement.
	CE.01	Readily available information raises awareness and increases support to achieve common goals.
	CE.02	A community that participates in stewardship takes ownership and provides support.
PRIORITY	CE.06	The community expresses strong interest in supporting urban forestry goals but may be financially constrained.
RIC	CE.07	Partnerships enable efficient achievement of shared goals.
Σ	CE.08	A community that participates in stewardship takes ownership and provides support.
MEDIUM	CE.09	A city must demonstrate it cares about its urban forest and the individuals caring for it.
Σ	CE.10	Gathering feedback and input from the community informs future strategies, messaging, and resource needs.
	CE.11	Partnerships enable efficient achievement of shared goals.
	GA.01	A well-managed urban forest is sustainable, resilient, lower risk, and beneficial.
	GA.02	A well-managed urban forest is sustainable, resilient, lower risk, and beneficial.
	GA.03	A well-managed urban forest is sustainable, resilient, lower risk, and beneficial.
	GA.04	A diverse urban forest is resilient to tree pests and diseases and climate change but must be plant- ed according to tree and site requirements, timing, and desired function.
	GA.05	Partnerships and coordination enable efficient achievement of shared goals.

Tarble 27 Currence are	af urban faraat	many many and and a stick	o bu or right or	nd rationale (continue	11
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	ACTION #	KEY CONSIDERATIONS OR RATIONALE
RITY	MP.02	A systematic approach to risk assessments and mitigation will reduce risk and improve the urban forest.
PRIORI	MP.04	A well-managed urban forest is sustainable, resilient, lower risk, and beneficial.
LOW	CE.05	Readily available information raises awareness and increases support to achieve common goals.

IMPLEMENTATION GUIDANCE

The framework of the goals and actions in the Urban Forest Management Plan provides the City of Wilsonville with the means to measure progress and adapt to an everchanging environment and availability of resources. Each of the five goals align with the U.S. Forest Service's Urban Forest Audit System and the actions are intended to guide the City towards improvements in ranking for each of the 126 elements within the 11 categories of urban forest management. As actions are implemented, the City may conduct new iterations of the Urban Forest Audit to gauge success, evaluate progress, and adjust accordingly.

As part of the project, an interactive worksheet of goals, actions, and targets was provided to enable the City's implementers to sort actions by order, priority, effort, goal theme, implementation year, and other action attributes. It is recommended the City establish an urban forestry working group to manage Plan implementation and monitoring. This team should coordinate the implementation of actions with the respective partners or collaborators. For the Plan, actions were provided by goal theme though the City may find it advantageous to view the actions by recommended order, priority, level of effort, or target year.

MONITORING PLAN

This Urban Forest Management Plan will be updated and revised periodically to reflect changes in the urban forest resource structure and function, to incorporate changes in industry standards, to consider community response, and to measure the progress of the urban forest partners in implementing the recommendations and reaching the established goals. This process should be implemented by an Urban Forest Working Group (UFMP Action CT.01) using the Evaluate, Monitor, Report, and Revise methodology.

Knowing how the City of Wilsonville and its partners are doing will require a continual process of evaluation. This section presents examples of how to monitor, analyze, and revise the Plan, which will keep stakeholders informed of the status of the urban forest program. To monitor progress toward implementing the Plan recommendations, an evaluation similar to the U.S. Forest Service's Urban Forest Audit conducted to develop the initial Plan should be completed. This evaluation will identify progress and shortfalls compared to the baseline audit.

In addition, a report card could be created based on outcomes of the audit and distributed to the public every two to three years. This will measure the progress toward implementing the Plan recommendations. The following example provides a suggested reporting structure to measure success toward accomplishing each goal. Other indicators to measure progress may need to be developed to ensure a thorough and accurate evaluation.

Evaluate

The Urban Forest Audit System provides a framework for routine evaluations of the urban forest, the programs that manage it, and the community that shapes and benefits from it. The Research Summary to this Urban Forest Management Plan provides the guidance for completing the audit. It is recommended the City Project Team or the Urban Forest Working Group complete a bi-annual audit to inform any alterations to actions and strategies.

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 59

This audit system consists of 11 categories of urban forest management, sustainability, and community. Within the 11 categories are approximately 130 elements. Each element was ranked or scored based on the consultants' evaluations in 2021 for the Urban Forest Management Plan. The City Project team or Urban Forest Working Group should complete an update to this ranking bi-annually to inform Plan reporting, monitoring, and revision as described in the following sections.

Monitor

Measuring accomplishment of the actions will require ongoing analysis. The outcomes of the Urban Forest Audit System in the "Evaluate" section can be used to monitor change over time. These benchmark values should be tracked, and a state of the urban forest report should be prepared and distributed to the public every 5 to 10 years. Analysis may include an updated street tree inventory, i-Tree benefits analyses, or urban tree canopy assessments. The state of the urban forest report should include the benchmark values as reported in the Plan and the Urban Forest Audit System as of 2021, so that the City can measure and compare changes to the urban forest. The report should reflect changes to the audit system that are measured.

Wilsonville's Urban Forest Benchmark Values

Table 28. Wilsonville's urban forest benchmark values

URBAN TREE CANOPY (UTC) COVER (2021)	
UTC	Unknown
Recommended Canopy Goal	To be determined
Total Number of Trees to Plant for Canopy Goal	To be determined
ESTIMATED TREE COUNT	
Total Public Trees Managed	Unknown
Public Trees Inventoried	25,950
Total Public Trees (streets, parks, natural areas)	Unknown
TREE SPECIES DIVERSITY (SPECIES EXCEEDING 10%)	
Public Trees (2020)	Red Maple (10%)
TREE BENEFITS	
Citywide (Public Trees)	2020: \$35.5 million (annual est.)
Inventoried Public Trees (25,950)	2020: \$1.9 million (annual) 2020: \$46.4 million (structural value)
Focus Areas (Town Center & Charbonneau)	2020: \$280,000 (annual)
TREE AND BUDGET DISTRIBUTION (2019)	
Public Trees per Capita	1.02
Budget per Capita	\$10.42
Budget per Public Tree	\$9.67
Total Public (managed) Trees per Staff	3,243 (of inventoried trees)
MANAGEMENT ACTIVITIES (2019)	
City-owned Street Trees Pruned	110
City-owned Street Trees Removed	19
City-owned Street Trees Planted	40
Number of Volunteers and/or Hours	Unknown
Privately maintained Street Trees Pruned/Removed	Unknown/Unknown

Table 28. Wilsonville's urban forest benchmark values (continued)

URBAN FOREST AUDIT SYSTEM (TOTAL SCORE	DF 2021: 62%)
Management Policy and Ordinances	71%
Professional Capacity and Training	63%
Funding and Accounting	58%
Decision and Mangaement Authority	63%
Inventories	46%
Urban Forest management Plans	50%
Risk Management	61%
Disaster Planning	43%
Standards and Best Management Practices	63%
Community	89%
Green Asset Evaluation	55%

REPORT

Based on the evaluation of Plan implementation progress, the City Project Team or Urban Forest Working Group should track, record, and report, as practical or necessary, on the metrics described below that are measures or indicators of success for each goal and supporting actions.

Table 29. Evaluation, monitoring, and reporting techniques to achieve the urban forestry goals

	TREE MANAGEMENT POLICY (MP):		
	The City's urban forest policies are the foundation for preserving the environmental benefits, management, and character of Wilsonville's urban forest.		
1	 List existing and potential partners. List all City and partner-led planning efforts. Describe related planning efforts. List opportunities to align efforts with Town Center and Charbonneau. List opportunities to align efforts with other neighborhoods. Establish a Citywide canopy goal and local planting targets. List recommended changes to City Code, policies, and manuals. List audit score and actions/targets achieved, ongoing, and not started. 		
	CAPACITY, TRAINING, AND AUTHORITY (CT):		
	Wilsonville has the capacity and expertise to provide optimal levels of service for sound urban forest management.		
2	 List the team members assembled to implement and monitor the Plan. List the existing staff and supporting departments and partners. Describe existing and needed certifications, qualifications, and training. Describe changes in levels of service based on citizen service requests. Report the number of unattended tree maintenance and service requests. Report the number trees preserved and planted through development. 		

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR 61



- Report the budget, partner funding, permit revenue, and donations.
- List audit score and actions/targets achieved, ongoing, and not started.

A thorough understanding of the urban forest ensures data-driven decisions, sustainable and

Sustainable urban forest management and equity is achieved through a partnership with the

Wilsonville proactively manages the public trees, continues to grow and expand a healthy canopy, effectively mitigates storm damage, maintains public safety, and optimizes urban

City resources enable comprehensive urban forest management for the preservation and

REVISE

Completion of this Plan is the first step towards meeting the vision for Wilsonville's urban forest. Continual monitoring, analysis, and reporting will help to keep urban forest partners involved and focused on accomplishing the actions. Plans are typically revised every 10 to 15 years; however, the Plan will need formal revision to respond and adapt to changes as they develop. Formal revision of the Plan should coincide with the update of the City's Comprehensive Plan, Focus Area Plans, Parks and Recreation Master Plan, Urban Renewal Strategic Plan, Town Center Plan, Charbonneau Consolidated Improvement Plan, and other relevant planning efforts. Recommendations and goals of each should be compared. Revisions to the Plan should occur with major events, such as newly discovered pests or diseases, changes in program budget and resources, or significant changes to industry standards or legal codes.

Figure 12. Example of the plan implementation, evaluation, and revision process

ACT AND REPORT	EVALUATE AND REVISE	ACT AND REPORT	EVALUATE AND REVISE
Years 1-5	Year 5	Years 6-10	Year 10
Annual Action Plans and	Urban Forest Audit and Plan	Annual Action Plans and	Urban Forest Audit and
Reports	Amendments	Reports	Plan Update
Monthly Activities and	Updated Benchmarks and P	Monthly Activities and	Updated Benchmarks and
Annual Report	lan Actions	Annual Report	Plan Actions

CONCLUSION -

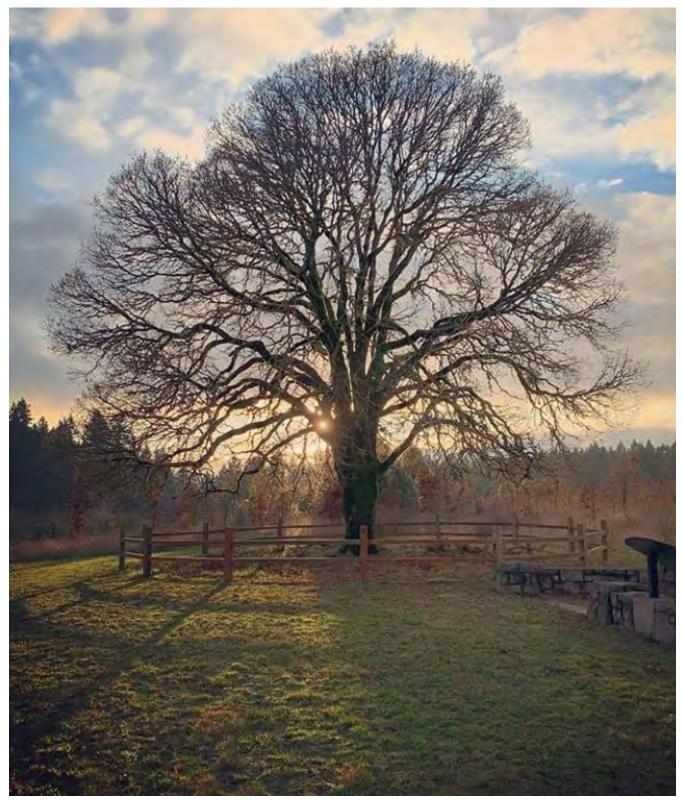


Photo courtesy of Zach Herrmann, winner of the UFMP photo contest, November 2020

Trees are an integral part of the community and the ecological systems in which they exist. They provide significant economic, social, and ecological benefits, such as carbon sequestration, reduction of urban heat islands, energy savings, reduction of stormwater runoff, improvement of water quality, enhancement of human health and wellness, and increase the value of properties. Planting and maintaining trees help Wilsonville become more sustainable and reduce the negative impacts on the ecosystem from urban development. Trees are as necessary as water, infrastructure, and energy to sustaining healthy communities. The health of the urban forest is directly linked to the health of the region.

The goal framework in Wilsonville's Urban Forest Management Plan is based on outcomes of the audit system and in alignment with existing plans to allow the City to incrementally implement actions, effectively monitor progress, and efficiently adapt in an everchanging environment. Successful implementation of actions in this Plan will bring Wilsonville to a higher level of service that is more equitably distributed across the City resulting in a sustainable and thriving urban forest that benefits all residents and future generations.

Wilsonville's trees, forests, and other natural resources are recognized as integral to sustaining life and health for all City residents. A healthy, thriving, and sustainable urban forest should be a community priority, to be thoughtfully managed and cared for by partnerships between the City and its residents to maximize public safety and benefits that include a thriving ecosystem, vibrant economy, improved human health, and livable communities shared by all who live, work, and play in Wilsonville. James Clark, emphasizes the importance of an Urban Forest Management Plan in A Model of Urban Forest Sustainability (1997):

"Urban trees and forests are considered integral to the sustainability of cities as a whole. Yet, sustainable urban forests are not born, they are made. They do not arise at random, but result from a community wide commitment to their creation and management." CLARK, 1997

As stated in this quote, an effective urban forestry program supported by the City's passion for the natural environment and associated benefits will lead Wilsonville to a more sustainable and thriving urban forest.



Photo courtesy of Susan Reep, UFMP photo contest contestant, November 2020

66

APPENDICES

APPENDIX A APPENDIX B APPENDIX C APPENDIX D PRESERVATION OF TREES IN FOCUS AREAS......P **APPENDIX E APPENDIX F APPENDIX G** APPENDIX H EXISTING AND POTENTIAL URBAN FORESTRY PARTNERS......AY **APPENDIX I**

APPENDIX A. CITYWIDE RECOMMENDED TREE LIST

See the Wilsonville, OR Master Street Tree List spreadsheet for further information.

Table 30. Citywide recommended tree list (abbreviated)

Small-Statured Trees

TREE TYPE		SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
Cherry	Bird Cherry	<i>Prunus avium</i> 'Lapins' STARKRIMSON SWEET	15 x 15	Flowers, fruit, wildlife	
Crabapple	Tschonoskii Crabapple	Malus tschonoskii	30 x 15	Wildlife, flowers, fall color	Υ
Crape Myrtle	Tuscarora Crape Myrtle	Lagerstroemia 'Tuscarora'	20 x 20	Flowers, fall color, unique bark	Y
Crape Myrtle	Muskogee Crape Myrtle	Lagerstroemia 'Muskogee'	20 x 20	Flowers, fall color, unique bark	Y
Crape Myrtle	Natchez Crape Myrtle	Lagerstroemia 'Natchez'	20 x 20	Flowers, fall color, unique bark	Y
Dogwood	Milky Way Dogwood	Cornus kousa 'Milky Way'	20 x 20	Flowers, wildlife	
Dogwood	Venus® Dogwood	Cornus elwinortonii 'KN30-8'	25 x 20	Wildlife, flowers, fall color	
Dogwood	Starlight® Dogwood	Cornus elwinortonii 'KN4-43'	30 x 20	Wildlife, flowers, fall color	
Hawthorn	Lavalle Hawthorn	Crataegus X lavalleei	25 x 20	Wildlife, flowers, fall color	
Madrone	Strawberry Tree	Arbutus unedo	15 x 15	Evergreen, showy fruit	Y
Maple	Paperbark Maple	Acer griseum	30 x 25	unique bark, fall color	
Maple	Cretan Maple	Acer sempervirens	20 x 20	Semi evergreen	
Persian Ironwood	Ruby Vase® Persian Ironwood	<i>Parrotia persica</i> 'Ruby Vase'	35 x 20	Fall color, unique bark	
Redbud	Eastern Redbud	Cercis canadensis	30 x 30	Flowers, fall color	Y
Redbud	Western Redbud	Cercis occidentalis	30 x 30	Flowers, fall color	
Redbud	Merlot Redbud	Cercis canadensis 'Merlot'	15 x 15	Flowers	
Snowbell	Pink Chimes Japanese Snowbell	<i>Styrax japonicus '</i> Pink Chimes'	25 x 20	Flowers	
Snowbell	Emerald Pagoda Japanese Snowbell	Styrax japonicus 'Emerald Pagoda'	25 x 20	Flowers	
Snowbell	Snow Charm® Japanese Snowbell	Styrax japonicus 'JFS-E'	25 x 20	Flowers	
Snowbell	Bigleaf Snowbell	Styrax obassia	25 x 20	Flowers	

Page 110 of 236 URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR C

A detailed interactive worksheet is provided as part of the Urban Forest Management Plan project. "Sister Climate City Tree" refers to the analysis of Wilsonville's changing climate and the tree species that would be suitable based on tree species growing in a climate that will be similar to Wilsonville's 60 years from 2021. Consider <u>Appendix I</u> when planting trees for storm resistance.

Medium-Statured Trees

TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
Beech	Dawyck Purple Beech	Fagus sylvatica 'Dawyck Purple'	50 x 15	Unique foliage, unique bark	
Birch	Dura-Heat® River Birch	Betula nigra 'BNMTF'	45 x 35	Unique bark	
Cascara	Cascara	Frangula purshiana	30 x 25	Native, wildlife, fall color	
Chitalpa	Chitalpa	X Chitalpa tashkentensis 'Pink Dawn'	30 x 30	Flowers	
Cork Tree	His Majesty Cork Tree	Phellodendron amurense 'His Majesty'	40 x 35	Fall color, unique bark	
Cork Tree	Eyestopper® Cork Tree	Phellodendron amurense 'Longenecker'	40 x 35	Fall color, unique bark	
Dogwood	Pacific Dogwood	Cornus nuttallii	40 x 25	Flower, fall color	
Dogwood	Eddie's White Wonder Dogwood	Cornus 'Eddie's White Wonder'	35 x 20	Wildlife, flowers, fall color	
Dogwood	June Snow® Giant Dogwood	Cornus controversa 'June Snow-JFS'	40 x 30	Wildlife, flowers, fall color	
Fringtree	Chinese Fringetree	Chionanthus retusus	20 x 25	Wildlife, flowers, unique bark	Υ
Ginkgo biloba	Saratoga Ginkgo Biloba	Ginkgo Biloba 'Saratoga'	35 x 25	Fall color	
Ginkgo biloba	Halka Ginkgo Biloba	Ginkgo Biloba 'Halka'	40 x 35	Fall color	
Ginkgo biloba	Fairmount Ginkgo Biloba	Ginkgo biloba 'Fairmount'	45 x 25	Fall color	
Ginkgo biloba	Shangri-La Ginkgo Biloba	Ginkgo Biloba 'Shangri-La'	45 x 35	Fall color	
Goldenrain Tree	Goldenrain Tree	Koelreuteria paniculata	30 x 25	Flowers, fall color, unique bark	Y
Hardy Rubber Tree	Hardy Rubber Tree	Eucommia ulmoides	40 x 40	Form	
Hophornbeam	American Hophornbeam	Ostrya virginiana	30 x 25	Fall color	
Hornbeam	Emerald Avenue European Hornbeam	Carpinus betulus 'JFS- KW1CB'	40 x 30	Fall color	
Hornbeam	American Hornbeam	Carpinus caroliniana	35 x 35	Fall color, unique bark	
Hornbeam	Palisade® American Hornbeam	Carpinus caroliniana 'CCSQU'	30 x 15	Fall color	

Medium-Statured Trees (continued)

D URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR

TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?	
Hornbeam	Rising Fire American Hornbeam	Carpinus caroliniana 'Uxbridge'	30 x 15	Fall color		
Hornbeam	Firespire® American Hornbeam	Carpinus caroliniana 'J.N. Upright'	30 x 25	Fall color, unique bark		
Hornbeam	Native Flame® American Hornbeam	Carpinus caroliniana 'JFS-KW6'	30 x 25	Fall color, unique bark		
Hornbeam	European Hornbeam	Carpinus betulus	40 x 25	Fall color	Y	
Hornbeam	Pyramidal European Hornbeam	<i>Carpinus betulus</i> 'Fastigiata'	40 x 25	Fall color		
Horsechestnut	California Buckeye	Aesculus californica	30 x 40	Flowers		
Japanese Raisintree	Japanese Raisintree	Hovenia dulcis	35 x 25	Wildlife, flowers		
Linden	Summer Sprite® Linden	<i>Tilia cordata</i> 'Halka'	20 x 15	Fall color	Y	
Linden	Harvest Gold Littleleaf Linden	<i>Tilia</i> 'Harvest Gold'	35 x 25	Fall color	Y	
Linden	Silver Linden	<i>Tilia tomentosa</i> 'Sterling'	45 x 35	Fall color		
Maackia	Amur Maackia	Maackia amurensis	30 x 25	Flowers, fall color, unique bark		
Magnolia	Victoria Southern Magnolia	Magnolia grandiflora 'Victoria'	30 x 20	Evergreen, flowers	Y	
Magnolia	Galaxy Magnolia	Magnolia 'Galaxy'	30 x 20	Flowers	Y	
Magnolia	Elizabeth Magnolia	Magnolia 'Elizabeth'	30 x 20	Flowers		
Magnolia	Sweetbay Magnolia	Magnolia virginiana	30 x 20	Evergreen, flowers		
Maple	Rocky Mountain Glow Maple	Acer grandidentatum 'Schmidt'	25 x 15	Fall color		
Oak	Bambooleaf Oak	Quercus myrsinifolia	35 x 25	Evergreen, wildlife		
Oak	Silverleaf Oak	Quercus hypoleucoides	50 x 35	Evergreen, wildlife		
Oak	Forest Green® Oak	<i>Quercus frainetto</i> 'Schmidt'	55 x 30	Wildlife	Y	
Osage-orange	White Shield Osage-orange	Maclura pomifera 'White Shield'	35 x 35	Fall color		
Persian Ironwood	Vanessa Persian Ironwood	Parrotia persica 'Vanessa'	35 x 20	Fall color, unique bark		
Pine	Limber Pine	<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	35 x 15	Evergreen		
Redbud	Forest Pansy Redbud	<i>Cercis canadensis</i> 'Forest Pansy'	30 x 35	Flowers, unique foliage		
Silverbell	Carolina Silverbell	Halesia carolina	40 x 35	Flowers, fall color		

Medium-Statured Trees (continued)

TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
Tree Lilac	Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	20 x 15	Flowers, unique bark	Y
Tree Lilac	Summer Charm® Tree Lilac	Syringa pekinensis 'DTR 124'	20 x 20	Flowers, unique bark	
Tree Lilac	China Snow® Tree Lilac	Syringa pekinensis 'Morton'	20 x 20	Flowers, unique bark	
Tree Lilac	Great Wall® Tree Lilac	Syringa pekinensis 'WFH2'	20 x 20	Flowers, unique bark	
Tree Lilac	Beijing Gold® Tree Lilac	<i>Syringa pekinensis</i> 'Zhang Zhiming'	20 x 20	Flowers, unique bark	
Tupelo	Gum Drop® Tupelo	Nyssa sylvatica 'JFS- PN Legacy1'	30 x 20	Fall color	
Tupelo	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	40 x 25	Wildlife, fall color	Υ
Tupelo	Wildfire Black Tupelo	Nyssa sylvatica 'Wildfire'	40 x 25	Wildlife, fall color	
Tupelo	Black Tupelo	Nyssa sylvatica 'Firestarter'	40 x 25	Wildlife, fall color	
Tupelo	Red Rage® Black Tupelo	Nyssa sylvatica 'Haymanred'	40 x 25	Wildlife, fall color	
Tupelo	Sheri's Cloud Black Tupelo	<i>Nyssa sylvatica</i> 'Sheri's Cloud'	40 x 25	Wildlife, fall color	
Yellowwood	American Yellowwood	Cladrastis kentukea	40 x 40	Flowers, fall color	
Zelkova	City Sprite® Japanese Zelkova	Zelkova serrata 'JFS- KW1'	25 x 20	Fall color	Υ

A detailed interactive worksheet is provided as part of the Urban Forest Management Plan project. "Sister Climate City Tree" refers to the analysis of Wilsonville's changing climate and the tree species that would be suitable based on tree species growing in a climate that will be similar to Wilsonville's 60 years from 2021. Consider <u>Appendix I</u> when planting trees for storm resistance.

Large-Statured Trees

TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X	FEATURES	SISTER CLIMATE
			WIDTH (FT)		CITY TREE?
Beech	Roble Beech	Nothofagus obliqua	100 x 50	Wildlife	
Beech	Fernleaf Beech	Fagus sylvatica 'Asplenifolia'	60 x 50	Unique leaf	
Beech	Rivers Purple Beech	Fagus sylvatica 'Riversii'	60 x 50	Unique leaf, unique bark	
Beech	Copper Beech	Fagus sylvatica 'Atropurpurea'	60 x 50	Unique leaf	
Beech	Japanese Chinquapin	Castanopsis cuspidata	50 x 30	Wildlife, flowers, evergreen	
Beech	Tricolor Beech	<i>Fagus sylvatica</i> 'Roseomarginata'	40 x 30	Unique foliage, unique bark	
Birch	Heritage® River Birch	Betula nigra 'Heritage'	45 x 35	Unique bark	
Catalpa	Chinese Catalpa	Catalpa ovata	25 x 25	Flowers	
Catalpa	Hybrid Catalpa	Catalpa xerubescens 'Purpurea'	45 x 45	Wildlife, flowers	
Catalpa	Northern Catalpa	Catalpa speciosa	50 x 30	Wildlife, flowers	
Chestnut	Spanish Chestnut	Castanea sativa	70 x 50	Wildlife	
Coastal Redwood	Coast Redwood	Sequoia sempervirens	100 x 30	Evergreen, unique bark	
Cypress	Baker Cypress	Cupressus bakeri	50 x 35	Evergreen, unique bark	
Cypress	Bald Cypress	Taxodium distichum	65 x 30	Fall color	
Cypress	Shawnee Brave® Bald Cypress	Taxodium distichum 'Mickelson'	50 x 20	Fall color	
Dawn Redwood	Dawn Redwood	Metasequoia glyptostroboides	75 x 30	Fall color	
Douglas-Fir	Douglas-Fir	Pseudotsuga menziesii	100 x 30	Native, evergreen, wildlife	
Dove-Tree	Dove-Tree	Davidia involucrata	50 x 30	Fall color	
Elm	Triumph Elm	Ulmus 'Morton Glossy'	55 x 45	Fall color	
Elm	Accolade® Elm	Ulmus 'Morton'	60 x 50	Fall color	Y
Elm	Valley Forge American Elm	Ulmus americana 'Valley Forge'	65 x 55	Fall color	Y
Elm	Jefferson American Elm	Ulmus americana 'Jefferson'	65 x 55	Fall color	
Elm	Princeton American Elm	Ulmus americana 'Princeton'	65 x 55	Fall color	
Elm	Patriot Elm	Ulmus 'Patriot'	50 x 40	Fall color	
Elm	Emerald Sunshine® Elm	Ulmus propinqua 'JFS-Bierbach'	35 x 25	Fall color, unique bark	Υ
Elm	Frontier Elm	Ulmus carpinifolia x U. parvofolia 'Frontier'	40 x 30	Fall color, unique bark	Υ
False Cedar	Incense Cedar	Calocedrus decurrens	60 x 20	Evergreen	
False Cedar	Sekkan Sugi Japanese Cedar	Cryptomeria japonica 'Sekkan Sugi'	50 x 15	Evergreen	

Large-Statured Trees (continued)

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TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
False Cedar	Western Redcedar	Thuja plicata	70 x 25	Native, evergreen, wildlife, unique bark	
Filbert	Turkish Filbert	Corylus colurna	50 x 30	Wildlife	
Fir	Grand Fir	Abies grandis	80 x 25	Native, evergreen, wildlife	
Fir	Spanish Fir	Abies pinsapo	50 x 30	Evergreen	
Giant Sequoia	Giant Sequoia	Sequoiadendron giganteum	80 x 50	Evergreen, unique bark	
Ginkgo biloba	Princeton Sentry Ginkgo	<i>Ginkgo biloba</i> 'Princeton Sentry'	50 x 30	Unique leaf, fall color	Υ
Ginkgo biloba	Emperor Ginkgo biloba	<i>Ginkgo biloba</i> 'Emperor'	50 x 40	Fall color	
Ginkgo biloba	Presidential Gold® Ginkgo biloba	<i>Ginkgo biloba</i> 'The President'	50 x 40	Fall color	
Ginkgo biloba	Autumn Gold Ginkgo Biloba	<i>Ginkgo Biloba</i> 'Autumn Gold'	45 x 35	Fall color	Υ
Ginkgo biloba	Golden Colonade® Ginkgo Biloba	Ginkgo Biloba 'JFS- UGA2'	40 x 25	Fall color	
Ginkgo biloba	Magyar Ginkgo Biloba	Ginkgo Biloba 'Magyar'	45 x 35	Fall color	
Hackberry	Hackberry	Celtis occidentalis	50 x 45	Wildlife, fall color, unique bark	Υ
Hemlock	Western Hemlock	Tsuga heterophylla	80 x 30	Native, evergreen	
Honeylocust	Halka® Honeylocust	Gleditsia triacanthos 'Christie'	45 x 40	Fall color	
Honeylocust	Shademaster Honeylocust	<i>Gleditsia triacanthos</i> 'Shademaster'	45 x 40	Fall color	
Honeylocust	Skyline® Honeylocust	Gleditsia triacanthos 'Skycole'	45 x 40	Fall color	
Horsechestnut	Red Horsechestnut	Aesculus x carnea	40 x 35	Flowers, wildlife	Υ
Japanese Pagodatree	Japanese Pagodatree	Styphnolobium japonicum	65 x 40	Wildlife, flowers	
Katsura	Katsura	Cercidiphyllum japonicum	50 x 30	Fall color	
Kentucky Coffeetree	Kentucky Coffeetree	Gymnocladus dioicus	60 x 40	Fall color	Υ
Kentucky Coffeetree	Espresso™ Kentucky Coffeetree	Gymnocladus dioicus 'Espresso-JFS'	60 x 40	Fall color	Υ
Kentucky Coffeetree	True North™ Kentucky Coffeetree	Gymnocladus dioicus 'UMNSynergy'	60 x 40	Fall color	Υ
Linden	Greenspire® Littleleaf Linden	<i>Tilia cordata</i> 'PNI 6025'	50 x 40	Fall color	Υ
Linden	Redmond American Linden	Tilia americana 'Redmond'	45 x 35	Fall color	Υ
London Planetree	Exclamation™ London Planetree	Platanus xacerifolia 'Morton Circle'	55 x 40	Unique bark	

Large-Statured Trees (continued)

TREE TYPE	COMMON NAME	SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
London Planetree	Bloodgood London Planetree	Platanus x acerifolia 'Bloodgood'	55 x 40	Unique bark	
London Planetree	Columbia London Planetree	Platanus x acerifolia 'Columbia'	55 x 40	Unique bark	
London Planetree	Yarwood London Planetree	Platanus x acerifolia 'Yarwood'	55 x 40	Unique bark	
London Planetree	Liberty London Planetree	Platanus x acerifolia 'Liberty'	55 x 40	Unique bark	
Madrone	Pacific Madrone	Arbutus menziesii	80 x 25	Evergreen, flowers, unique bark	
Magnolia	Cucumber Magnolia	Magnolia acuminata	50 x 40	Flowers, unique leaf	
Maple	Autumn Blaze Maple	Acer x freemanii 'Jeffersred'	55 x 40	Fall color	
Maple	Scarlet Sentinel Maple	Acer rubrum 'Scarsen' Acer x freemanii 'Scarsen'	45 x 25	Fall color	
Maple	Bigleaf Maple	Acer macrophyllum	75 x 75	Fall color	
Maple	October Glory Red Maple	<i>Acer rubrum</i> 'October Glory'	50 x 40	Fall color	Υ
Maple	Red Sunset Maple	Acer rubrum 'Franksred' RED SUNSET	50 x 40	Fall color	Y
Maple	Hedge Maple	Acer campestre	35 x 35	Unique leaf	
Maple	Armstrong Red Maple	Acer rubrum 'Armstrong'	70 x 15	Fall color	Y
Maple	Green Column Black Maple	Acer saccharum subsp. nigrum 'Green Column'	70 x 30	Fall color	
Maple	Queen Elizabeth Hedge Maple	Acer campestre 'Evelyn'	35 x 35	Fall color	
Myrtle	Oregon Myrtle	Umbellularia californica	60 x 60	Evergreen, wildlife	
Oak	Blue Oak	Quercus douglasii	70 x 45	Wildlife	
Oak	Coast Live Oak	Quercus agrifolia	80 x 35	Evergreen, wildlife	Y
Oak	Interior Live Oak	Quercus wislizenii	50 x 40	Evergreen, wildlife	
Oak	Cork Oak	Quercus suber	60 x 60	Evergreen, wildlife	Υ
Oak	Sawtooth Oak	Quercus acutissima	50 x 40	Wildlife	Y
Oak	Holly Oak	Quercus ilex	50 x 50	Evergreen, wildlife	Υ
Oak	California Black Oak	Quercus kelloggii	60 x 45	Wildlife, fall color	
Oak	Willow Oak	Quercus phellos	50 x 40	Wildlife, fall color	
Oak	Bur Oak	Quercus macrocarpa	70 x 45	Wildlife	

Large-Statured Trees (continued)

TREE TYPE		SCIENTIFIC NAME	HEIGHT X WIDTH (FT)	FEATURES	SISTER CLIMATE CITY TREE?
Oak	Chinkapin Oak	Quercus muehlenbergii	50 x 45	Wildlife	
Oak	Red Oak	Quercus rubra	Quercus rubra 50 x 45 Wildlife, fall color		Υ
Oak	Shumard Oak	Quercus shumardii	75 x 55	Wildlife, fall color	Υ
Oak	Canyon Live Oak	Quercus chrysolepis	55 x 30	Evergreen, wildlife	
Oak	Canby Oak	Quercus canbyi	45 x 40	Evergreen, wildlife	
Oak	Hungarian Oak	Quercus frainetto	100 x 60	Wildlife, fall color	Y
Oak	Valley Oak	Quercus lobata	50 x 40	Wildlife	Y
Oak	Southern Live Oak	Quercus virginiana	70 x 70	Evergreen, wildlife	
Oak	Swamp White Oak	Quercus bicolor	60 x 50	Wildlife	
Oak	Oregon White Oak	Quercus garryana	65 x 45	Native, wildlife	
Oak	Oracle Oak	Quercus ×morehus	50 x 30	Wildlife	
Oak	Monterrey Oak	Quercus polymorpha	55 x 50	Evergreen, wildlife	
Oak	Scarlet Oak	Quercus coccinea	60 x 45	Wildlife, fall color	
Pine	Willamette Valley Ponderosa	Pinus ponderosa x benthamiana	150 x 30	Unique bark, evergreen	
Pine	Deodar Cedar	Cedrus deodara	50 x 40	Evergreen	
Pine	Cedar of Lebanon	Cedrus libani	60 x 60	Evergreen	
Pine	Atlas Cedar	Cedrus atlantica	60 x 40	Evergreen	
Pine	Bosnian Pine	Pinus heldreichii (Pinus leucodermis)	65 x 30	Evergreen, wildlife	
Pistache	Chinese Pistache	Pistachia chinensis	30 x 25	Fall color	Y
Tanoak	Tanoak	Notholithocarpus densiflorus	40 x 30	Evergreen	
Tuliptree	Tuliptree	Liriodendron tulipifera	70 x 40	Fall color	Y
Walnut	English Walnut	<i>Juglans regia</i> 'Carpathian'	50 x 50	Wildlife, unique bark	
Zelkova	Wireless® Japanese Zelkova	Zelkova serrata 'Schmidtlow'	25 x 30	Fall color	Υ
Zelkova	Village Green® Japanese Zelkova	Zelkova serrata 'Village Green'	40 x 30	Fall color, unique bark	Y
Zelkova	Green Vase® Japanese Zelkova	<i>Zelkova serrata</i> 'Green Vase'	40 x 30	Fall color, unique bark	Υ

A detailed interactive worksheet is provided as part of the Urban Forest Management Plan project. "Sister Climate City Tree" refers to the analysis of Wilsonville's changing climate and the tree species that would be suitable based on tree species growing in a climate that will be similar to Wilsonville's 60 years from 2021. Consider <u>Appendix I</u> when planting trees for storm resistance.

APPENDIX B. TREE CANOPY GOAL SETTING GUIDANCE

It is recommended the City of Wilsonville conduct a high-resolution Tree Canopy Assessment (TCA)—often referred to as an Urban Tree Canopy (UTC) assessment— for a baseline assessment of the Citywide urban forest across all boundaries. This assessment would identify the extent of land cover types such as tree canopy, vegetative plantable space (grass or turf), impervious surfaces (parking lots, driveways, sidewalks), and other desired land cover.

About Urban Tree Canopy Assessments



Like other valued assets, urban trees require proper planning and management to withstand pressures from development, drought, fire, pests/diseases, storms, and pollution. This entails natural resource staff (municipal/ private/nonprofit/academia), various plans, and tree protection codes, regulations, or ordinances. Progressive cities like Wilsonville can leverage technologies like i-Tree, multispectral imagery, LiDAR, and Tree Canopy Assessments to fuel their advocacy efforts, develop green infrastructure protection strategies, and inform management and master plans.

Tree canopy assessments provide a top-down view of land cover types across various spatial scales. The City can hire consultants or conduct an assessment in-house using GIS technologies to establish an accurate baseline of tree canopy extent and available planting areas across various geopolitical and planning boundaries, identify locations that would benefit from increased tree plantings to address environmental and health issues, and provide GIS data, decision support tools, and report content including methods, findings, maps, and broad recommendations. The process and outcomes would support land cover and land development strategies that protect and enhance tree canopy, benefiting generations to come.

The City should acquire the deliverables in a number of formats that seamlessly translate into the success of the City's urban forest planning, modeling, and implementation to facilitate ongoing community conversations and support the development of plans, policies, recommendations, and management objectives with the City's many partners.

A canopy cover assessment and analysis for Wilsonville would:

- Establish a known, documented, and accurate baseline of the City's tree canopy on public and private lands using the latest technologies and assessment methodologies.
- Integrate with the City's street and park tree inventory data to describe the urban forest's composition and structure.
- Inform urban forestry, conservation, and green infrastructure planning processes.

Setting Canopy Goals

To guide urban forestry efforts and raise awareness, communities with this data often set tree canopy cover goals based on the existing tree canopy cover amount and the aim to provide an equitable distribution of canopy cover and associated benefits. For Wilsonville, the planning consultants provided the guidance to establish recommended tree canopy goal tiers and a Citywide canopy goal once the UTC is completed. Tree canopy goals can be accomplished by implementing actions in the City's Urban Forest Management Plan though supporting analyses and strategies should be developed from the UTC assessment. <u>Appendix C</u> provides tree planting prioritization guidance to support implementation of tree canopy goals that Wilsonville establishes. Progress towards these canopy goals should be tracked, measured, and shared to guide urban forest management and maintain community interest and support.

Canopy Goals - Purpose and Approach

Across the U.S. cities are setting goals— some based on careful study of current canopy, community needs, and availability of planting space, other base their goals on the principle that more trees are better than fewer, set ambitious campaign goals, then work to mobilize efforts to meet it. Generally, the U.S. Forest Service recommends canopy cover of 40-60 percent in northwestern communities and in 1997, the American Forests organization established a benchmark of 40 percent after analyzing the tree canopy in dozens of cities from 1992 to 1997 and working closely with the research community. While incredibly valuable and groundbreaking at the time, technology and research have significantly evolved over the past 20 years, leading to a consensus that more nuanced approaches to canopy goal setting are necessary. Supporting this statement, U.S. Forest Service Research Forester Greg McPherson of the Pacific Southwest Research Station adds, "Tree canopy cover targets are difficult to specify broadly because the opportunities to create canopy are highly variable among cities, even within a climatic region or land use class."

- Tree canopy targets are best developed for specific cities and should consider constraints to creating canopy such as:
- Development densities (i.e., dense development patterns with more impervious surfaces have less opportunity for cover);
- Land use patterns (i.e., residential areas may have more opportunity for canopy than commercial areas, but canopy cover tends to be less in residential areas of disadvantaged communities versus wealthy ones);
- Ordinances (i.e., parking lot shade ordinances promote cover over some impervious areas); and
- Climate (i.e., canopy cover in desert cities is often less than tropical cities).

Within those parameters, quantifiable data can be used so a tree canopy goal achieves specific objectives, such as reaching the canopy percentage necessary to reduce urban heat island temperatures to a specific range, or to reduce stormwater runoff by a projected amount. According to a national analysis by U.S. Forest Service researchers, a 40-60 percent urban tree canopy is attainable under ideal conditions in forested states. Twenty percent in grassland cities and 15 percent in desert cities are realistic baseline targets, with higher percentages possible through greater investment and prioritization.

It is important to note, however, that urban tree canopy percentage is just one of many criteria to consider. A robust tree canopy comprised of largely invasive species, for example, is not a healthy urban forest. Age and species diversity, condition of trees and equitable distribution across income levels, to name a few, should also be considered (Leahy, American Forests, 2017).

Citywide and Zoning Type Tree Canopy Goals

The following presents the recommended approach to canopy goal setting though the City and partners should evaluate and refine these for approval by staff and City Council.

For the City of Wilsonville, the development of canopy goals should be driven by tree canopy cover data and findings from the 2021 Urban Forest Management Plan such as benchmarking research, analysis of existing and potential resources, City input, and community feedback.

Using this integrated approach, the City of Wilsonville can establish an ambitious and achievable canopy goal. The City must increase canopy by planting the appropriate number of trees per year based on calculations that can be provided as part of the UTC assessment. These tree plantings should be conducted through shared partnerships between the City, stakeholders, and the residents of Wilsonville. Most likely, the UTC assessment will show the residential property and parklands have the most existing tree canopy as well as the most opportunity (space) for planting new trees. Achieving a canopy goal would provide additional ecosystem services and benefits that can be calculated based on industry research and practices. Considerations when calculating these benefits include:

- A no-net-loss strategy, meaning the number of trees removed on private property or through development are replaced.
- Trees that mature into large canopy-bearing trees are planted wherever feasible.
- Includes City-led, partner, volunteer, and private tree plantings.
- Assumes a potential for young tree mortality post-planting.

The following provides a calculated process for establishing canopy goals for Wilsonville:

The amount of tree canopy cover and available planting space should be analyzed and summarized by an applicable planning geography such as City Zoning Type, Council District, or Focus Area. Using Zoning Type as an example, a percentage of total possible planting area (vegetative and impervious) to be planted should be assigned to each Zoning Type based on the total amount of plantable space, the existing canopy, limitations of the Zoning Type, available resources, and other City needs. This approach realizes the unique opportunities, limitations, extent, resources, and characteristics found among various city zoning classes. Canopy goals and planting targets must not be standardized across the City, they should be specific to the area. This method was applied and summarized in the following table as an example for the City to review and adopt upon completion of an Urban Tree Canopy Assessment.

ZONING TYPE	TOTAL POSSIBLE PLANTING AREA (%)	% OF TOTAL POSSIBLE PLANTING AREA TO BE PLANTED
Agriculture	42%	6%
City Property	45%	25%
Commercial	38%	33%
Downtown	4%	15%
Industrial	37%	20%
Mixed Use	35%	10%
Parkland	50%	30%
Residential	43%	24%
Right-of-Way	16%	10%

Table 31. Example of the zoning types and possible planting area to establish canopy goals

Using software such as PlanIT Geo's TreePlotter CANOPY software application, GIS, and Microsoft Excel, the number of trees required to achieve the planting target can be calculated based on total land area of the Zoning Type, existing tree canopy percent and acreage, total available planting area, and plantable space target. To calculate total added benefits, the U.S. Forest Service's i-Tree research and suite of tools can be utilized. The following table summarizes the example results of this recommended approach.

ZONING TYPE	TOTAL POSSIBLE PLANTING AREA (%)	% OF TOTAL POSSIBLE PLANTING AREA TO BE PLANTED	TREE CANOPY GOAL	NO. TREES TO REACH GOAL	ANNUAL ADDED ECOSYSTEM BENEFITS
Agriculture	42%	6%	40%	459	\$5,207
City Property	20%	25%	12%	569	\$6,456
Commercial	39%	33%	18%	5,588	\$63,372
Downtown	4%	15%	6%	14	\$164
Industrial	49%	20%	16%	15,002	\$170,126
Mixed Use	21%	10%	24%	1,263	\$14,324
Parkland	50%	30%	50%	2,626	\$29,775
Residential	43%	24%	32%	5,460	\$61,918
Right-of-Way	36%	20%	30%	3,000	\$34,500
TOTAL				33,981	\$385,842

Table 32. Example tree canopy goals and planting targets by Zoning Type

Once the City has established planting targets and the number of trees required to achieve the targets by Zoning Type or other planning boundary, the total Citywide tree canopy goal will be discovered. This ground up approach establishes feasible canopy goals based on local constraints and opportunities rather than creating a lofty Citywide goal that does not fully understand the planting demands at a local level.

APPENDIX C. TREE PLANTING PRIORITIZATION GUIDANCE

Tree planting is critical to the health and longevity of Wilsonville's urban forest. However, tree planting should be methodically planned with a specific purpose in mind. One of the best ways to do this is to define and adopt an official planting strategy to be included in a planting strategy. The first step in developing a planting strategy is to define the goals. Often times, this goal aligns with a citywide tree canopy cover goal and the timeframe to achieve it.

Key Considerations for a Tree Planting Plan

A planting strategy is crucial to urban forest sustainability and should be based on data, available resources, partnerships, and community input. Some of the more common goals that define a planting strategy include:

- Equitable Distribution. With this goal, priority of planting is given to areas determined to be the most in need based on the goal of an even distribution of benefits trees provide to all residents. Beyond equal distribution, an area defined to be "in-need" is determined locally and can be a combination of priorities or focused on one specific priority.
- Areas of Predicted Future Canopy Loss. Older neighborhoods with a more established tree canopy can anticipate significant losses in future years. One method to planning future planting efforts is to target these replanting areas now to aid in a less drastic succession of trees over time.
- Benefits-Based Plantings. Areas that have a specific issue like poor air or water quality, or a large percentage of older residents sensitive to heat stress, may work to plant trees based on the anticipated benefits in years to come.
- Regular, Methodical Planting in Concert with Cyclical Tree Care Efforts. Planting may be most effective if it follows the City's inventory, and pruning and removal cycle of care. Regular methodical planting can also be considered a worthy goal.
- **Species Diversity**. Planting strategies should not only identify where to plant but also what is being planted. Species diversity in Wilsonville is currently an issue, with high levels of oaks and maples. A policy on this issue should be included in the strategy.
- **Partners in Planting**. Wilsonville's planting strategy should also include who is doing the planting. This work can be done by City partners, neighborhood groups, developers, and other interested parties, thus allowing the City to focus on specialized care (pruning, removals, assessments).

Utilizing Urban Tree Canopy Assessment Data for Planting Priorities

Once the City finalizes local and Citywide tree canopy goals, it is recommended to establish priority areas based on a variety of themes and community needs. Themes may include ownership type (public and private), areas of low existing tree canopy, and greatest amount of available planting space while other themes may address air quality, stormwater reduction and water quality. Others may evaluate opportunities to address disadvantaged areas, densely populated regions, and human health factors such as asthma cases, median age, and mental health. In any planting prioritization scenario, the scale may include U.S. Census Bureau Census Blocks, Zoning Type, Focus Areas, and Citywide.

A series of recommended prioritization techniques is provided that should be considered once an Urban Tree Canopy (UTC) assessment is completed.

• <u>Planning areas with the most opportunity</u>. This approach may include areas with less than the average Citywide tree canopy cover and greater than average total possible planting area.

- <u>Census Blocks where trees can mitigate air quality issues</u>. Street and rights-of-way corridors typically have higher concentrations of particulate matter. Trees can be planted along roads to absorb vehicle exhaust and reduce pollution. This approach would analyze areas with the highest percent of road surface area. Higher concentrations of road surfaces may indicate poor air quality.
- <u>Tree planting in Census Blocks to reduce stormwater runoff</u>. Trees can be integrated to help manage stormwater, specifically when targeting impervious surfaces. This approach may utilize data such as available planting area on impervious surfaces and available planting areas within 100 feet of all surface water bodies.
- <u>Tree planting in underserved or disadvantaged Census Blocks</u>. Tree canopy is positively correlated with higher median income. Planting trees in lower income communities can support environmental equity. This approach would utilize Census Bureau data such as the percentage of residents living below the poverty level.
- <u>Tree plantings to offset population density</u>. Larger numbers of people will benefit from the ecosystem services that increased tree canopy coverage can provide.
- <u>Tree plantings to improve human health</u>. Planting trees can be a cost-effective way of improving a city's overall public health. Health reports with information about the reported asthma cases and mental health concerns can be utilized to target tree planting efforts.

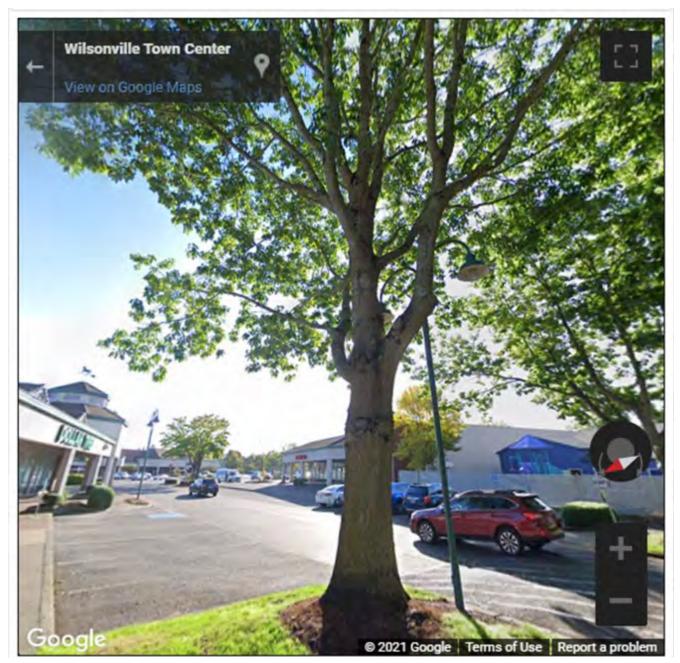
Suggested policies on planting and tree preservation are provided in Wilsonville's Urban Forest Management Plan. These policies include references to aging canopy to emphasize that every tree the City removes must be replaced, and to ensure that annual inventory work includes cataloging future planting sites, and expediting tree planting work as planting funds become available. Further analysis is also recommended to analyze the impact of development (losses, canopy saved, replacement plantings in developments). Results of that analysis will further define an effective planting program.

Larger trees provide more services to the community. They intercept more stormwater, remove more air pollution, provide more energy savings, and sequester more carbon. However, it is important to understand that this increase in services is exponential. For this reason, preservation of large trees should be a higher priority for communities than planting alone. Therefore, Wilsonville should utilize the guidance provided in <u>Appendix D</u> and <u>Appendix E</u> regarding tree preservation and replacement for Town Center's trees and apply this methodology Citywide.

Wilsonville's vision for the urban forest should be to maintain and enhance the services trees provide to residents. Therefore, prioritizing care for existing trees (over planting new trees) is critical for a healthy community. P URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR

APPENDIX D. PRESERVATION OF TREES IN FOCUS AREAS

To inform the urban forestry goals and strategies specific to Town Center and Charbonneau, a comprehensive inventory of trees was completed by International Society of Arboriculture (ISA) Certified Arborists. Using TreePlotter inventory management software and the City's desired set of attributes, each tree in Town Center and Charbonneau was inventoried, mapped, and assigned attributes for fields such as: Location (Lat/Long), Address, Land Use, Growing Space, Tree Common Name, Tree Scientific Name, Diameter at Breast Height (measured at 4.5 feet above grade), Height, Condition, Observations, Maintenance Need, and Date Added.



Example of a tree recommended for preservation in Town Center (tier 1)

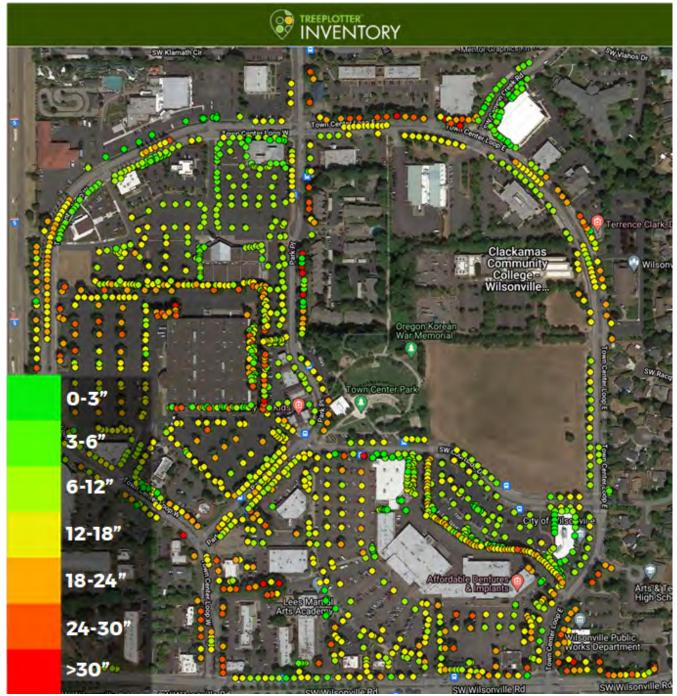
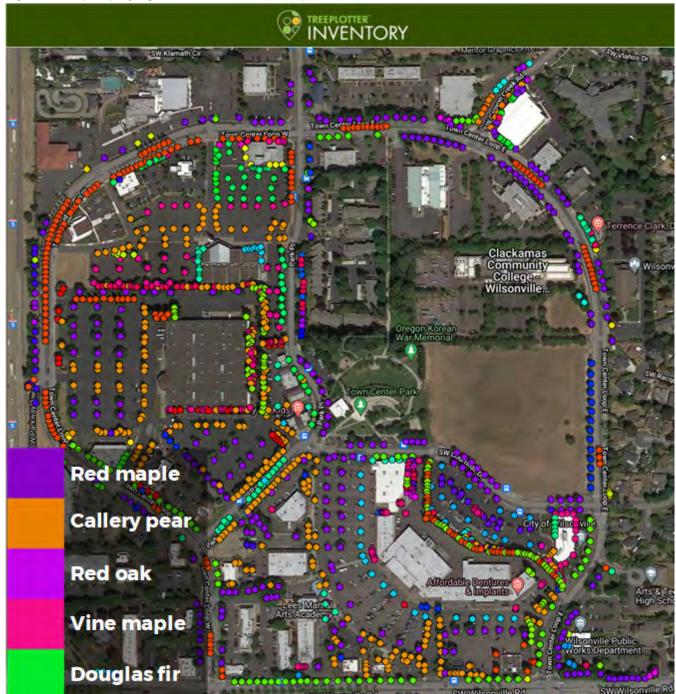


Figure 13. Map displaying the size classes of trees inventoried in Town Center

Figure 14. Map displaying the most common tree species inventoried in Town Center



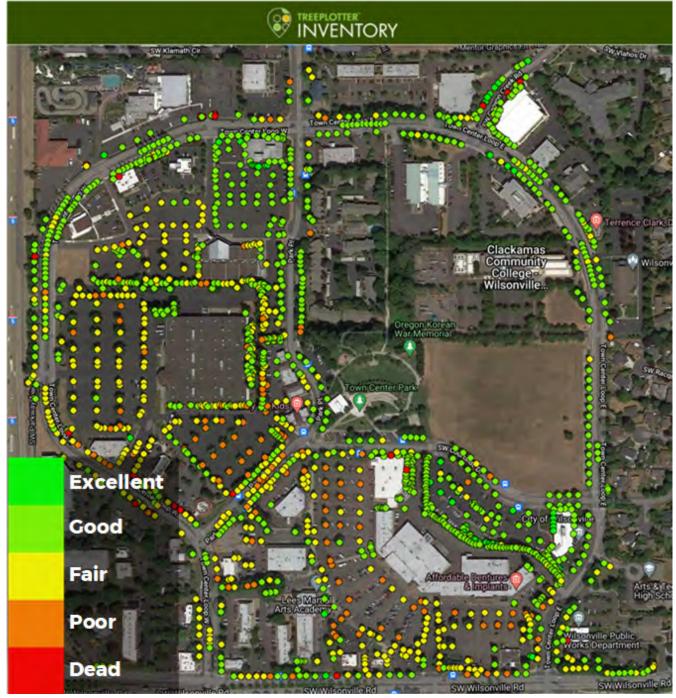


Figure 15. Map displaying the condition of trees inventoried in Town Center

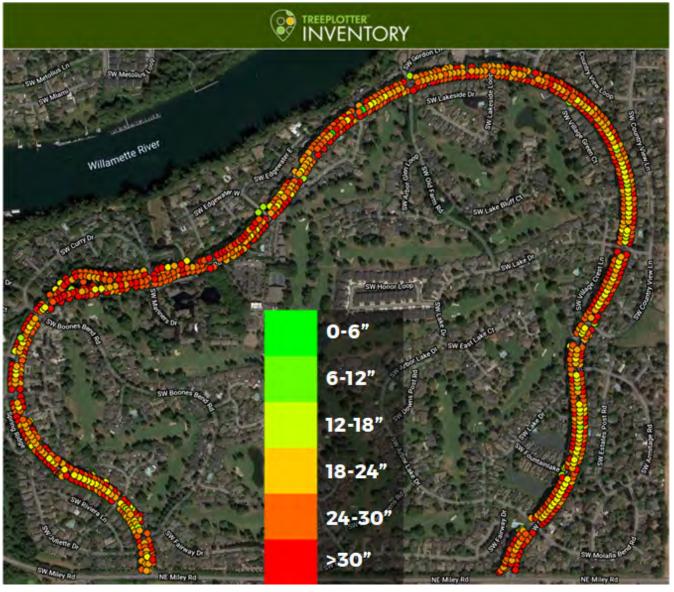


Figure 16. Map displaying the size classes of trees inventoried in Charbonneau



Figure 17. Map displaying the most common tree species inventoried in Charbonneau



Figure 18. Map displaying the condition of trees inventoried in Charbonneau

Trees for Preservation in Town Center

From the data collected, criteria for tree preservation were established and tiers for preservation were set. Considerations for these tiers included condition, size, location, function, performance, and observations. Based on these considerations, the following tree preservation tiers were established:

Table 33	Troo	nreservation	tions for	Town Center
TUDIC 55.	nee	preservation	1013101	10VVII CCITCI

TIER #	TIER NAME	TIER DESCRIPTION	TREE COUNT
1	Gold: Best Trees	Largest healthy trees	11 trees
2A	Silver (A): Large, Healthy, Spacious Contributing Trees	Large (24-30") healthy trees in large growing space providing more than the average (>\$145 annual ecosystem benefits)	12 trees
2B	Silver (B): Large Contributing Trees	Trees providing more annual benefits than the average (\$145) and 24-30" in DBH	12 trees
2C	Silver (C): Large and Healthy Trees	Trees 24-30" in DBH in good condition	23 trees
3	Bronze: High Performers	Tree species with high Relative Performance Indices (RPI) (Japanese maples, red oaks) in good condition with no concerning observations	19 trees
4	Tin: Healthy Trees	All trees in good condition and no concerning observations	427 trees
TOTAL			504 Trees

Trees to be preserved by tier are provided as a GIS file and as a custom map URL in the City's TreePlotter application here: <u>https://pg-cloud.com/WilsonvilleOR/?scenario=TC-All-Tiers-Trees</u>

Page 130 of 236 URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR W

The tree preservation tiers established require additional information, studies, and considerations before implementing. Tree preservation cannot be given a broad brush approach. Planned redevelopment in Town Center will have an impact on tree preservation. It is for this reason among others that the preservation of trees was classified into multiple tiers. Tier 1 and Tier 2(A-C) should be given the highest priority due to the size, location, condition, and associated ecosystem benefits of the trees in these tiers. Tier 3 and Tier 4 should be evaluated on a case-by-case basis as these are trees that are recommended for preservation though there is an understanding that other projects, plans, goals, and desired functions exist in the focus areas. Trees in question should be assessed to determine the health, quality, size, life expectancy, and function before deciding on preservation or removal. Tree preservation recommendations are provided in order to sustain and enhance the urban forest while aligning with Citywide goals for more canopy cover and tree equity (see <u>Appendix B</u>).

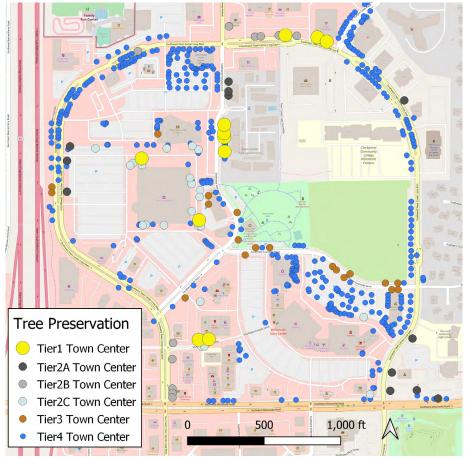


Figure 19. Map displaying all recommended trees for preservation in Town Center (2021)

Table 34. Annual ecosystem benefits and services of trees in preservation tiers for Town Center

				CO2	
OVERALL	ENERGY SAVINGS	AIR QUALITY	PROPERTY VALUE	CARBON SERVICES	STORMWATER
\$45,385	\$2,166	\$689	\$32,988	\$966	\$5,392
Annually	34k kWh	354 lbs	Added value	64k lbs C seq.	500k gallons

Characteristics of the Trees for Preservation in Town Center

Figure 20. Top ten tree species in Town Center tree preservation tiers

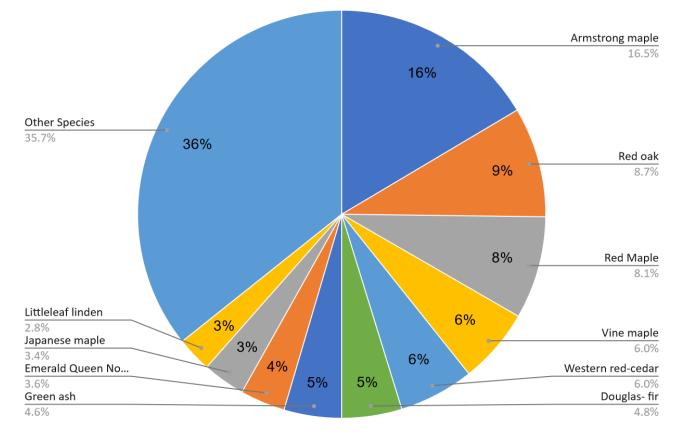
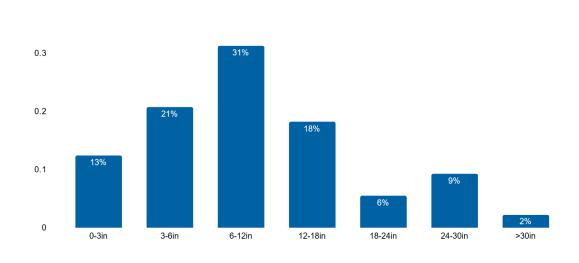


Figure 21. Size classes of Town Center tree preservation trees



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Trees for Preservation in Charbonneau

From the data collected, criteria for tree preservation were established and tiers for preservation were set. Considerations for these tiers included condition, size, location, function, performance, and observations. Based on these considerations, the following tree preservation tiers were established:

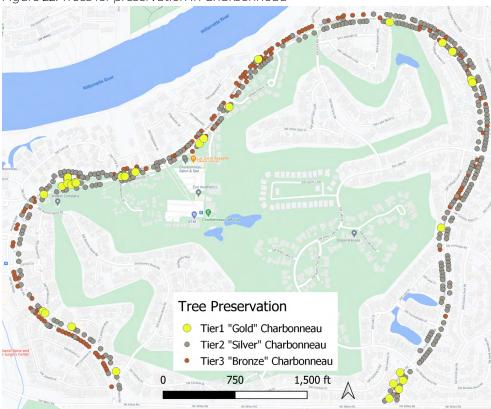
Table 35. Tree preservation tiers for Charbonneau

TIER #	TIER NAME	TIER DESCRIPTION	TREE COUNT
1	Gold: Best Trees	Greater than 24" in good condition with no sidewalk damage	31 trees
2	Silver (A): Large, Healthy, Spacious Contributing Trees	Greater than 24" in good condition	307 trees
3	Bronze: Good Conditioned Trees Conflicting Hardscape	All tree sizes in good condition with sidewalk damage for preservation review	126 trees
TOTAL			464 TREES

Trees to be preserved by tier are provided as a GIS file and as a custom map URL in the City's TreePlotter application here: <u>https://pg-cloud.com/WilsonvilleOR/?scenario=Charbonneau-All-Preservation-Tiers</u>.

The tree preservation tiers established require additional information, studies, and considerations before implementing. Tree preservation cannot be given a broad brush approach therefore, multiple tiers for preservation were created. Tier 1 and Tier 2(A-C) should be given the highest priority due to the size, location, condition, and associated ecosystem benefits of the trees in these tiers. Tier 3 and Tier 4 should be evaluated on a case-by-case basis as these are trees that are recommended for preservation though there is an understanding that other projects, plans, goals, and desired functions exist in the focus areas. Trees in question should be assessed to determine the health, quality, size, life expectancy, and function before deciding on preservation or removal. Tree preservation recommendations are provided in order to sustain and enhance the urban forest while aligning with Citywide goals for more canopy cover and tree equity (see <u>Appendix B</u>).





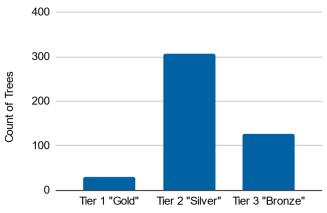
Ecosystem Benefits and Services of the Trees to Preserve in Charbonneau

Table 36. Annual ecosystem benefits and services of trees in preservation tiers for Charbonneau

				CO2	
OVERALL	ENERGY SAVINGS	AIR QUALITY	PROPERTY VALUE	CARBON SERVICES	STORMWATER
\$45,385	\$6,237	\$2,797	\$44,255	\$2,260	\$16,848
Annually	98k kWh	1,376 lbs	Added value	129k lbs C seq.	1.6M gallons

Characteristics of the Trees for Preservation in Charbonneau

Figure 23. Count of trees for preservation in Charbonneau Figure 24. Tree species for preservation in Charbonneau by Preservation Tier



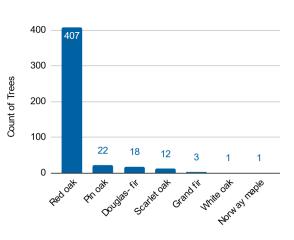


Figure 25. Diameter class of trees recommended for preservation in Charbonneau

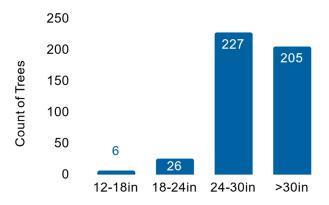
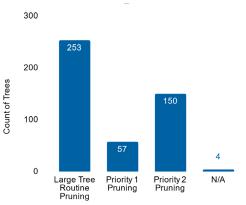


Figure 26. Maintenance needs of trees for preservation in Charbonneau



APPENDICES

APPENDIX E. TREE REMOVALS AND REPLACEMENTS IN FOCUS AREAS

Urban trees, especially those in Town Center and Charbonneau, provide benefits and services to the residents, visitors, business owners, and the entire City of Wilsonville. They shade the parking lots, cool the sidewalks, support design, and provide ecological functions that should be sustained as Town Center and Charbonneau grow and change. Strategically replanting the urban forest in Town Center and Charbonneau is just as important as preserving existing trees to ensure these benefits continue to serve the neighborhood for generations.

Overview of Town Center Tree Removals

Based on an analysis of the 2020 tree inventory, there are trees in Town Center that were identified as needing removed. As of the inventory, a total of 9 trees are recommended for Priority 1 Removal and 67 trees for Priority 2 Removal. In addition, 26 inventory points indicated the tree was removed and a stump remains. Including the priority removals and locations with tree stumps, a total of 102 sites have the potential for a new tree to be planted.

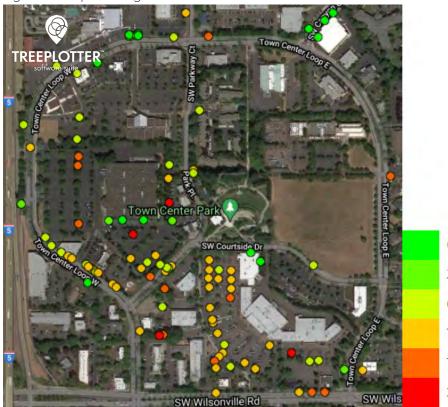
To inform the replacement trees for trees removed, an analysis of climate change projections was completed. This process was conducted to ensure the recommended tree replacements are suitable for a changing climate in Wilsonville. The analyses utilized the <u>Climate Change and Forest Trees in the Pacific Northwest, A Vulnerability</u> <u>Assessment and Recommended Actions for National Forests</u> (USDA Forest Service, Warren Devine, et al., 2012) study and the University of Maryland's Center for Environmental Science's <u>60-year Contemporary Climatic Analogs for 540</u> <u>North American Urban Areas</u> study to forecast what Wilsonville's climate will be and identify suitable tree species for replanting.

The following provides a summary of the analyses, findings, and recommendations for replanting in Town Center:

Summary of Trees for Removal in Town Center

To view all trees recommended for removal in Town Center, use the following link <u>https://pg-cloud.com/</u><u>WilsonvilleOR/?scenario=TownCenterReplacementTrees</u>.

Figure 27. Map showing the location of trees for removal in Town Center and the size classes



0-3 inch (15 trees) 3-6 inch (6 trees) 6-12 inch (26 trees) 12-18 inch (39 trees) 18-24 inch (12 trees) 24-30 inch (4 trees) Table 37. Tree species recommended for removal in Town Center

COMMON NAME	COUNT	% OF TOTAL REMOVALS
Red oak	31	30%
Callery pear	18	18%
Emerald Queen Norway maple	12	12%
Kwanzan cherry	5	5%
Japanese cherry spp	4	4%
Dwarf Albert spruce	4	4%
Vine maple	4	4%
Scots pine	3	3%
Red Maple	2	2%
Pacific willow	2	2%
Тор 10	85	83%
Other Species	17	17%
TOTAL	102	100%

Table 38. Summary of the status of the replanting sites in Town Center

STATUS	COUNT	% OF TOTAL REMOVALS
Alive	70	69%
Removed	24	24%
Dead	5	5%
Stump	3	3%
TOTAL	102	100%

Figure 28. Condition of trees recommended for removal in Town Center

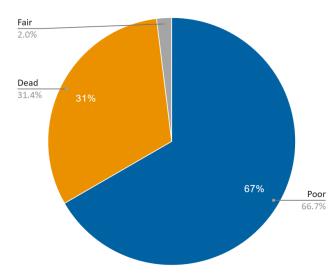
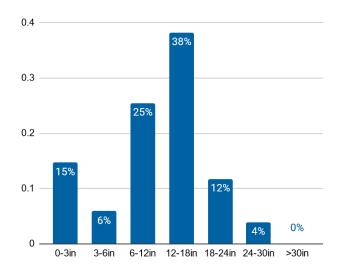


Figure 29. Diameter of recommended tree removals in Town Center



Note, the responsibility to address the trees recommended for removal vary between the City, adjacent property owner, HOA, or other. It is recommended the City evaluate these trees for removal and determine the best approach to address the concerns. For example, the City can prioritize removals for City-owned trees whereas the privately-maintained trees would require outreach and education. In some cities, a cost-share program is utilized where the city and the adjacent property owner share the cost of maintenance or removal of street trees. The recommended removals in focus areas provides the City with information to consider during redevelopment. Trees that are recommended for removal can be omitted from tree preservation consideration. Where feasible, trees should be replanted. View the <u>Town Center Trees for Removal and Replacement</u> section for consideration.

Overview of Charbonneau Tree Removals

Based on an analysis of the 2020 tree inventory, there are trees in Charbonneau that were identified as needing removed. As of the inventory, a total of 8 trees are recommended for Priority 1 or Priority 2 Removal, 23 trees in poor condition, and 20 trees in poor condition and causing sidewalk damage. Based on these recommendations, a total of 51 sites have the potential for a new tree to be planted.

To inform the replacement trees for trees removed, an analysis of climate change projections was completed. This process was conducted to ensure the recommended tree replacements are suitable for a changing climate in Wilsonville. The analyses utilized the <u>Climate Change and Forest Trees in the Pacific Northwest</u>, <u>A Vulnerability</u> <u>Assessment and Recommended Actions for National Forests</u> (USDA Forest Service, Warren Devine, et al., 2012) study and the University of Maryland's Center for Environmental Science's <u>60-year Contemporary Climatic Analogs for 540</u> <u>North American Urban Areas</u> study to forecast what Wilsonville's climate will be and identify suitable tree species for replanting.

The following provides a summary of the analyses, findings, and recommendations for replanting in Charbonneau:

Summary of Trees for Removal in Charbonneau

To view all trees recommended for removal in Charbonneau, use the following link <u>https://pg-cloud.com/Wilsonville</u> <u>OR/?scenario=Charbonneau-Tree-Removals</u>.

Figure 30. Map showing the location of trees for removal in Charbonneau and the size classes

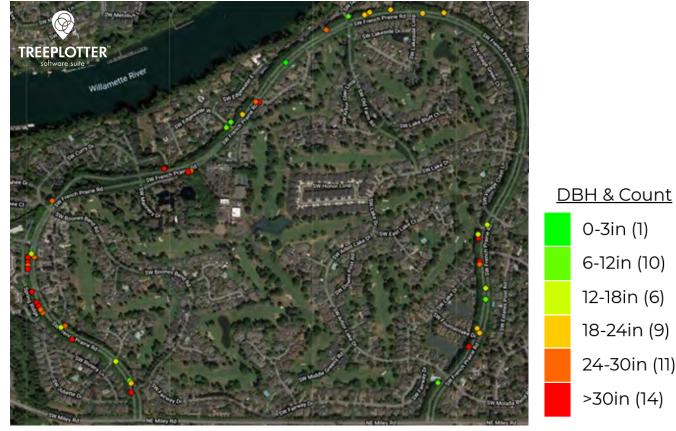


Figure 31. Count of trees by removal category - Charbonneau

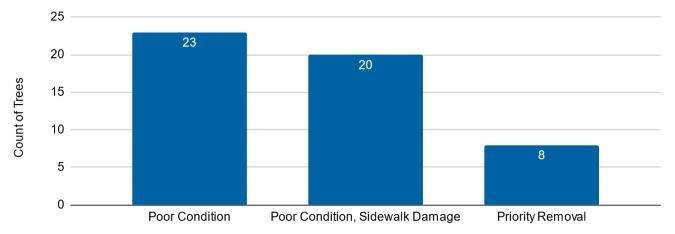
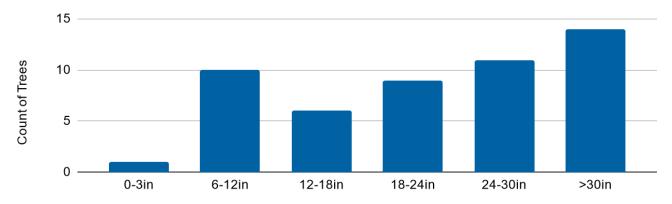


Table 39. Summary of tree species recommended for removal in Charbonneau

COMMON NAME	COUNT	% WITHIN
Red oak	33	65%
Hinoki falsecypress	6	12%
Pin oak	4	8%
Scarlet oak	2	4%
Scots pine	2	4%
Japanese red pine	1	2%
Norway maple	1	2%
Colorado blue spruce	1	2%
English oak	1	2%
TOTAL	51	100%

Figure 32. Diameter class of trees recommended for removal in Charbonneau



Note, the responsibility to address the trees recommended for removal vary between the City, adjacent property owner, HOA, or other. It is recommended the City evaluate these trees for removal and determine the best approach to address the concerns. For example, the City can prioritize removals for City-owned trees whereas the privately-maintained trees would require outreach and education. In some cities, a cost-share program is utilized where the city and the adjacent property owner share the cost of maintenance or removal of street trees. The recommended removals in focus areas provides the City with information to consider during redevelopment. Trees that are recommended for removal can be omitted from tree preservation consideration. Where feasible, trees should be replanted. View the <u>Charbonneau Trees for Removal and Replacement</u> section for consideration.

APPENDICES

Considerations for the Recommended Replacement Tree Species

Recommended Citywide Tree Species List – 2021 Urban Forest Management Plan

<u>See Appendix A</u>.

City of Wilsonville's Existing Tree Species List

Table 40. City of Wilsonville's existing tree species list

GREATER THAN 50' HEIGHT			UNDER	50' HEIGHT
Common Name	Scientific Name		Common Name	Scientific Name
Oregon white oak	Quercus garryana		Red Sunset maple	Acer rubrum
Red oak	Quercus rubra borealis		Pacific dogwood	Cornus nuttallii
Bigleaf maple	Acer macrophylum		Honeylocust	Gleditsia triacanthos
Green column black maple	Acer nigrum		Bradford pear	Pyrus calleryana 'Bradford'
White ash	Fraxinus americana		Littleleaf linden	Tilia cordata
Marshall seedless green ash	Fraxinus pennsylvanica		Flame ash	Fraxinus oxycarpa
Scarlet oak	Quercus coccinea			
Pin oak	Quercus palustris			
American linden	Tilia americana			

Friends of Trees "Climate Trees for the 21st Century" Study

Table 41. List of recommended trees from Friends of Trees "Climate Trees for the 21st Century" study

TIER 1			
Common Name	Notes		
Oregon white oak	Heat and drought tolerant		
Silver linden	Heat and drought tolerant		
Red horsechestnut	Heat and drought tolerant		
European hornbeam	Heat and drought tolerant		
Atlas cedar	Require large planting space		
Incense cedar	Require large planting space		
Giant sequoia	Require large planting space		
Deodar cedar	Require large planting space		
Valley ponderosa	Require large planting space		
Douglas fir	Require large planting space		
Sawtooth oak	Heat and drought tolerant, hard to find		
Hungarian oak	Heat and drought tolerant, hard to find		
Shumards oak	Heat and drought tolerant, hard to find		
Burr oak	Heat and drought tolerant, hard to find		

Table 41. List of recommended trees from Friends of Trees "Climate Trees for the 21st Century" study (continued)

	TIER 2
Common Name	Notes
California black oak	Western US street trees not on OR tree lists
Canyon live oak	Western US street trees not on OR tree lists
Oregon myrtle	Western US street trees not on OR tree lists
Coast live oak	Western US street trees not on OR tree lists
Interior live oak	Western US street trees not on OR tree lists
Blue oak	Western US street trees not on OR tree lists
Valley oak	Western US street trees not on OR tree lists
Chitalpa	Western US street trees not on OR tree lists
Crapemyrtle	Western US street trees not on OR tree lists
Cork oak	Western US street trees not on OR tree lists
Holly oak	Western US street trees not on OR tree lists
Silverleaf oak	Western US street trees not on OR tree lists
Oracle oak	Western US street trees not on OR tree lists
Cedar of Lebanon	Western US street trees not on OR tree lists
Spanish fir	Western US street trees not on OR tree lists
Chinese pistache	Western US street trees not on OR tree lists
Strawberry tree	Western US street trees not on OR tree lists
Southern live oak	Western US street trees not on OR tree lists
	TIER 3
Common Name	Notes
California buckeye	Heat and drought tolerant, not typical street tree
Madrone	Heat and drought tolerant, not typical street tree
Japanese chinquapin	Heat and drought tolerant, not typical street tree
Cretan maple	Heat and drought tolerant, not typical street tree
Western redbud	Heat and drought tolerant, not typical street tree

To view the study, visit <u>https://friendsoftrees.org/blog/climate-trees-trees-for-the-21st-century-part-2/</u>.

Page 140 of 236 URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR AG

City of Wilsonville's Public Works and Planning Tree Species List

Table 42. Wilsonville Public Works and Planning tree species list

Common Name	Botanical Name
Small Stree	rt Trees
Rocky Mtn Glow Maple	Acer grandidentatum 'Schmidt'
Paperbark Maple	Acer griseum
Merlot Redbud	Cercis canadensis 'Merlot'
Milky Way dogwood	Cornus kousa 'Milky Way'
Ruby Vase Persian Ironwood	Parrotia persica 'Ruby Vase'
Cascara	Rhamnus purshiana
Pink Chimes Japanese Snowbell	Styrax japonica 'Pink Chimes'
Medium Stre	eet Trees
Rocky Mtn Glow Maple	Acer grandidentatum 'Schmidt'
Emerald Avenue European Hornbeam	Carpinus betulus 'JFS-KW1CB'
American Hornbeam	Carpinus caroliniana
Forest Pansy Redbud	Cercis canadensis 'Forest Pansy'
Eddies White Wonder dogwood	Corus 'Eddie's White Wonder'
Dawyck Purple Beech	Fagus sylvatica 'Dawyck Purple'
Wildfire Black Tupelo	Nyssa sylvatica 'Wildfire'
American Hophornbeam	Ostrya virginiana
Persian Ironwood	Parrotia persica
Forest Green Oak	Quercus frainetto 'Schmidt'
Silverleafoak	Quercus hypoleucoides
Summer Sprite Linden	<i>Tilia cordata</i> 'Halka'
Sterling Silver Linden	Tilia tomentosa 'Sterling'
Large Stree	et Trees
Hedge Maple	Acer campestre
Queen Elizabeth Hedge Maple	Acer campestre 'Evelyn'
Armstrong Red Maple	Acer rubrum 'Armstrong'
October Glory Red Maple	Acer rubrum 'October Glory'
Scarlet Sentinel Maple	Acer rubrum 'Scarsen'
Autumn Blaze Maple	Acer x freemanii 'Jeffersred'
Heritage River Birch	Betula nigra 'Heritage'
Rivers Purple Beech	Faguas sylvatica 'Riversii'
Tricolor Beech	Fagus sylvatica 'Roseomarginata'
Autumn Gold Ginkgo	<i>Ginkgo biloba</i> 'Autumn Gold'
Golden Colonnade Ginkgo	Ginkgo biloba 'JFS-UGA2'
Magyar Ginkgo	Ginkgo biloba 'Magyar'
Princeton Sentry Ginkgo	Ginkgo biloba 'Princeton Sentry'
Kentucky coffeetree	Gymnocladus dioicus
	Gymnocladus dioicus 'Espresso'

Table 42. Wilsonville Public Works and Planning tree species list (continued)

Common Name	Botanical Name
La	rge Street Trees
Swamp White Oak	Quercus bicolor
Scarlet Oak	Quercus coccinea
Burr Oak	Quercus macrocarpa
Willow Oak	Quercus phellos
Jefferson Elm	Ulmus americana 'Jefferson'
Frontier Elm	Ulmus carpinifolia x U. parvofolia 'Frontier'
Triumph Elm	Ulmus 'Morton Glossy'
Green Vase Zelkova	Zelkova serrata 'Green Vase'
Village Green zelkova	Zelkova serrata 'Village Green'

Town Center Trees for Removal and Replacement

Table 43. List of trees for removal in Town Center and the recommended replacement species

ID	STATUS	EXISTING TREE COMMON NAME	PROPOSED REPLACEMENT (COMMON NAME)	PROPOSED REPLACEMENT (SCIENTIFIC NAME)	ALTERNATIVE (COMMON NAME)
939	Stump	Lodgepole pine (east OR)	Willamette Valley Ponderosa	Pinus ponderosa x benthamiana	Scarlet Oak
986	Alive	Red Maple	Hungarian Oak	Quercus frainetto	Oregon White Oak
1050	Alive	Emerald Queen Norway maple	Hackberry	Celtis occidentalis	Honeylocust
1076	Removed	balsam poplar	European Hornbeam	Carpinus betulus	Green Column Black Maple
1086	Removed	Callery pear	Dura-Heat® River Birch	Betula nigra 'BNMTF'	Oregon White Oak
1093	Removed	western red-cedar	Hackberry	Celtis occidentalis	Honeylocust
1097	Removed	black tupelo	Afterburner® Black Tupelo	<i>Nyssa sylvatica '</i> David Odom'	Green Column Black Maple
1122	Alive	red oak	European Hornbeam	Carpinus betulus	Green Column Black Maple
1169	Alive	red oak	Red Oak	Quercus rubra	Oregon White Oak
1177	Stump	Japanese stewartia	Autumn Gold Ginkgo Biloba	<i>Ginkgo Biloba '</i> Autumn Gold'	Green Column Black Maple
1220	Alive	Japanese cherry spp	Lavalle Hawthorn	Crataegus X lavalleei	Pacific Dogwood
1221	Alive	Japanese cherry spp	Lavalle Hawthorn	Crataegus X lavalleei	Pacific Dogwood
1222	Alive	Japanese cherry spp	Strawberry Tree	Arbutus unedo	Bird Cherry
1224	Alive	Japanese cherry spp	Strawberry Tree	Arbutus unedo	Bird Cherry
1227	Removed	Callery pear	Oregon White Oak	Quercus garryana	Red Oak
1266	Alive	Emerald Queen Norway maple	Ruby Vase® Persian Ironwood	Parrotia persica 'Inge'	Honeylocust
1268	Alive	Emerald Queen Norway maple	Vanessa Persian Ironwood	Parrotia persica 'Vanessa'	Honeylocust

Table 43. List of trees for removal in Town Center and the recommended replacement species (continued)

ID	STATUS	EXISTING TREE COMMON NAME	PROPOSED REPLACEMENT (COMMON NAME)	PROPOSED REPLACEMENT (SCIENTIFIC NAME)	ALTERNATIVE (COMMON NAME)
1270	Alive	Emerald Queen Norway maple	Pyramidal European Hornbeam	Carpinus betulus 'Fastigiata'	Honeylocust
1278	Removed	Emerald Queen Norway maple	Sawtooth Oak	Quercus acutissima	Red Oak
1299	Alive	Emerald Queen Norway maple	Katsura	Cercidiphyllum japonicum	Honeylocust
1335	Dead	Emerald Queen Norway maple	Turkish Filbert	Corylus colurna	Honeylocust
1336	Dead	Emerald Queen Norway maple	Turkish Filbert	Corylus colurna	Honeylocust
1340	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	Bigleaf Maple
1341	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	Bigleaf Maple
1342	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata ʻlvory Silk'	Bigleaf Maple
1343	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	Bigleaf Maple
1344	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata ʻlvory Silk'	Bigleaf Maple
1345	Removed	Callery pear	Ivory Silk Japanese Tree Lilac	Syringa reticulata ʻlvory Silk'	Bigleaf Maple
1347	Removed	Callery pear	Emerald Pagoda Japanese Snowbell	<i>Styrax japonicus</i> 'Emerald Pagoda'	Pacific Dogwood
1355	Removed	Oregon ash	Harvest Gold Littleleaf Linden	<i>Tilia</i> 'Harvest Gold'	Red Sunset Maple
1365	Alive	Emerald Queen Norway maple	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Honeylocust
1367	Alive	Emerald Queen Norway maple	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Honeylocust
1369	Alive	Emerald Queen Norway maple	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Honeylocust
1370	Alive	Emerald Queen Norway maple	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Honeylocust
1372	Dead	Colorado blue spruce	Douglas Fir	Pseudotsuga menziesii	Willamette Valley Ponderosa
1382	Removed	European mountain-ash	Oregon White Oak	Quercus garryana	Bur Oak
1398	Dead	domestic apple	None	None	None
1422	Alive	Armstrong maple	Green Column Black Maple	Acer saccharum sub. nigrum 'Green Column'	Firespire® Americ Hornbeam
1430	Removed	cherry (ornamental)	Strawberry Tree	Arbutus unedo	Lavalle Hawthorn
1455	Alive	purple-leaf plum	Tschonoskii Crabapple	Malus tschonoskii	Bird Cherry
1463	Alive	Pacific willow	Bur Oak	Quercus macrocarpa	Red Oak
1465	Alive	Pacific willow	Bur Oak	Quercus macrocarpa	Red Oak
1494	Removed	Scots pine	Willamette Valley Ponderosa	Pinus ponderosa x benthamiana	Limber Pine

Table 43. List of trees for removal in Town Center and the recommended replacement species (continued)

Table 43. List of trees for removal in Town Center and the recommended replacement species (continued)								
ID	STATUS	EXISTING TREE COMMON NAME	PROPOSED REPLACEMENT (COMMON NAME)	PROPOSED REPLACEMENT (SCIENTIFIC NAME)	ALTERNATIVE (COMMON NAME)			
1505	Stump	paper birch	Green Column Black Maple	Acer saccharum sub. nigrum 'Green Column'	Firespire® American Hornbeam			
1515	Removed	Red Maple	None	None	None			
1516	Removed	Scots pine	None	None	None			
1517	Removed	Scots pine	None	None	None			
1518	Removed	dwarf Albert spruce	Natchez Crape Myrtle	Lagerstroemia 'Natchez'	Pacific Dogwood			
1519	Removed	dwarf Albert spruce	None	None	None			
1520	Removed	dwarf Albert spruce	None	None	None			
1521	Removed	dwarf Albert spruce	Muskogee Crape Myrtle	Lagerstroemia 'Muskogee'	Pacific Dogwood			
1525	Alive	red oak	Kentucky Coffeetree	Gymnocladus dioicus	Honeylocust			
1532	Alive	red oak	Kentucky Coffeetree	Gymnocladus dioicus	Honeylocust			
1534	Alive	red oak	Hackberry	Celtis occidentalis	Honeylocust			
1537	Alive	red oak	Hackberry	Celtis occidentalis	Honeylocust			
1549	Alive	Callery pear	Interior Live Oak	Quercus wislizenii	Honeylocust			
1551	Alive	red oak	Interior Live Oak	Quercus wislizenii	Honeylocust			
1553	Alive	red oak	Interior Live Oak	Quercus wislizenii	Red Oak			
1556	Alive	Callery pear	Oregon White Oak	Quercus garryana	Scarlet Oak			
1557	Alive	Norway maple	Afterburner® Black Tupelo	<i>Nyssa sylvatica</i> 'David Odom'	Green Column Black Maple			
1580	Alive	Kwanzan cherry	Tschonoskii Crabapple	Malus tschonoskii	Bird Cherry			
1582	Alive	red oak	Interior Live Oak	Quercus wislizenii	Scarlet Oak			
1589	Alive	red oak	California Black Oak	Quercus kelloggii	Red Oak			
1596	Alive	red oak	California Black Oak	Quercus kelloggii	Red Oak			
1649	Alive	red oak	California Black Oak	Quercus kelloggii	Scarlet Oak			
1652	Alive	red oak	Canby Oak	Quercus canbyi	Scarlet Oak			
1664	Alive	red oak	Canby Oak	Quercus canbyi	Honeylocust			
1679	Alive	red oak	Canby Oak	Quercus canbyi	Honeylocust			
1681	Alive	red oak	Canby Oak	Quercus canbyi	Honeylocust			
1767	Alive	Callery pear	Chinese Pistache	Pistachia chinensis	Pacific Dogwood			
1775	Alive	Callery pear	Chinese Pistache	Pistachia chinensis	Pacific Dogwood			
1776	Alive	red oak	California Black Oak	Quercus kelloggii	Honeylocust			
1778	Alive	red oak	California Black Oak	Quercus kelloggii	Honeylocust			
1779	Alive	Callery pear	Chinese Pistache	Pistachia chinensis	Pacific Dogwood			
1810	Alive	red oak	Red Oak	Quercus rubra	Scarlet Oak			
1822	Alive	vine maple	Cretan Maple	Acer sempervirens	Pacific Dogwood			
1831	Alive	vine maple	Muskogee Crape Myrtle	Lagerstroemia 'Muskogee'	Pacific Dogwood			
1850	Alive	vine maple	Muskogee Crape Myrtle	Lagerstroemia 'Muskogee'	Pacific Dogwood			

ID **STATUS EXISTING TREE** PROPOSED PROPOSED ALTERNATIVE **COMMON NAME** REPLACEMENT REPLACEMENT (COMMON NAME) (COMMON NAME) (SCIENTIFIC NAME) Redmond American 1882 Alive Callery pear Oregon White Oak Quercus garryana Linden 1893 Alive Callery pear Oregon White Oak Redmond American Quercus garryana Linden 1906 Alive Douglas- fir Douglas Fir Pseudotsuga menziesii Oregon White Oak 1931 Alive Callery pear Canyon Live Oak Quercus chrysolepis Oregon White Oak 2040 Alive thornless None None None honeylocust 2077 Alive Callery pear Deodar Cedar Cedrus deodara Honeylocust 2084 Alive red oak California Black Oak Quercus kelloggii Red Oak 2086 Alive red oak California Black Oak Quercus kelloggii Red Oak 2087 Alive red oak California Black Oak Quercus kelloggii Red Oak Red Oak Alive California Black Oak Quercus kelloggii 2089 red oak 2093 Alive Tschonoskii Crabapple **Bird Cherry** Kwanzan cherry Malus tschonoskii Pacific Dogwood 2094 Alive Strawberry Tree Arbutus unedo Kwanzan cherry Alive 2109 Kwanzan cherry Tschonoskii Crabapple Malus tschonoskii **Bird Cherry** 2111 Alive Strawberry Tree Arbutus unedo Pacific Dogwood Kwanzan cherry 2119 Alive Pyramidal European Carpinus betulus red oak Honeylocust Hornbeam 'Fastigiata' Alive red oak 2121 Pyramidal European Carpinus betulus Honeylocust Hornbeam 'Fastigiata' Alive 2125 red oak Amur Maackia Maackia amurensis Honeylocust 2127 Alive red oak Amur Maackia Maackia amurensis Honeylocust Alive 2128 red oak Oregon White Oak Red Oak Quercus garryana 2129 Alive red oak Amur Maackia Maackia amurensis Honeylocust Alive 2140 Amur Maackia Maackia amurensis Honeylocust pin oak Alive 2149 red oak Oregon White Oak Quercus garryana Red Oak 2151 Alive red oak Oregon White Oak Red Oak Quercus garryana 2202 Dead Tschonoskii Crabapple Malus tschonoskii Pacific Dogwood vine maple

Table 43. List of trees for removal in Town Center and the recommended replacement species (continued)

Table 44. Count of recommended replacement trees in Town Center by species

ID	COUNT
California Black Oak	9
Oregon White Oak	8
None	7
Afterburner® Black Tupelo	6
Ivory Silk Japanese Tree Lilac	6
Strawberry Tree	5
Tschonoskii Crabapple	5
Amur Maackia	4
Canby Oak	4
Hackberry	4
Interior Live Oak	4
Chinese Pistache	3
Muskogee Crape Myrtle	3
Pyramidal European Hornbeam	3
Bur Oak	2
Douglas Fir	2
European Hornbeam	2
Green Column Black Maple	2
Kentucky Coffeetree	2
Lavalle Hawthorn	2
Red Oak	2
Turkish Filbert	2
Willamette Valley Ponderosa	2
Autumn Gold Ginkgo Biloba	1
Canyon Live Oak	1
Cretan Maple	1
Deodar Cedar	1
Dura-Heat® River Birch	1
Emerald Pagoda Japanese Snowbell	1
Harvest Gold Littleleaf Linden	1
Hungarian Oak	1
Katsura	1
Natchez Crape Myrtle	1
Ruby Vase® Persian Ironwood	1
Sawtooth Oak	1
Vanessa Persian Ironwood	1
TOTAL	102

Charbonneau Trees for Removal and Replacement

Table 45. List of trees for removal in Charbonneau and the recommended replacement species

ID	STATUS	EXISTING TREE COMMON NAME	DBH RANGE	CAUSE FOR REMOVAL	PROPOSED REPLACEMENT (COMMON NAME)
8	Removed	Colorado blue spruce	6-12in	Poor Condition	Dawn redwood
11	Alive	Scots pine	>30in	Priority Removal	Dawn redwood
12	Removed	Scots pine	12-18in	Poor Condition	Dawn redwood
16	Alive	Norway maple	18-24in	Poor Condition, Sidewalk Damage	Autumn Blaze maple
53	Removed	Japanese red pine	6-12in	Poor Condition	Willamette Valley ponderosa
63	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
64	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
65	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
66	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
68	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
69	Removed	Hinoki falsecypress	6-12in	Poor Condition	Deodar cedar
96	Alive	red oak	>30in	Priority Removal	Oregon white oak
100	Alive	red oak	18-24in	Poor Condition	Valley oak
118	Alive	red oak	24-30in	Poor Condition, Sidewalk Damage	Hungarian oak
119	Alive	red oak	>30in	Poor Condition, Sidewalk Damage	Shumard oak
349	Alive	red oak	>30in	Poor Condition	Bur oak
383	Alive	red oak	18-24in	Priority Removal	Chinkapin oak
394	Alive	red oak	18-24in	Poor Condition, Sidewalk Damage	Swamp white oak
398	Alive	red oak	24-30in	Poor Condition, Sidewalk Damage	Monterrey oak
399	Alive	red oak	18-24in	Poor Condition, Sidewalk Damage	Southern live oak
408	Removed	red oak	24-30in	Poor Condition, Sidewalk Damage	Canby oak
435	Alive	red oak	18-24in	Poor Condition, Sidewalk Damage	Coast live oak
459	Alive	red oak	18-24in	Poor Condition	Chinese pistache
469	Removed	red oak	6-12in	Poor Condition	Wireless Japanese zelkova
472	Alive	red oak	12-18in	Priority Removal	Kentucky coffeetree
484	Alive	red oak	12-18in	Poor Condition	Kentucky coffeetree
551	Alive	red oak	18-24in	Poor Condition	Kentucky coffeetree
586	Removed	red oak	0-3in	Poor Condition	Bigleaf maple
597	Alive	red oak	24-30in	Priority Removal	Shademaster honeylocust
640	Alive	scarlet oak	>30in	Poor Condition, Sidewalk Damage	Oregon white oak
676	Removed	red oak	24-30in	Poor Condition	Valley oak
688	Alive	red oak	>30in	Poor Condition, Sidewalk Damage	Hungarian oak
689	Alive	red oak	>30in	Poor Condition, Sidewalk Damage	Shumard oak

ID	STATUS	EXISTING TREE COMMON NAME	DBH RANGE	CAUSE FOR REMOVAL	PROPOSED REPLACEMENT (COMMON NAME)
690	Alive	red oak	24-30in	Poor Condition, Sidewalk Damage	Bur oak
691	Alive	red oak	>30in	Poor Condition, Sidewalk Damage	Chinkapin oak
701	Alive	red oak	24-30in	Poor Condition, Sidewalk Damage	Coast live oak
736	Alive	red oak	24-30in	Poor Condition	Oregon white oak
759	Alive	scarlet oak	>30in	Poor Condition, Sidewalk Damage	Valley oak
795	Alive	red oak	>30in	Poor Condition, Sidewalk Damage	Hungarian oak
807	Alive	pin oak	12-18in	Priority Removal	Shumard oak
814	Alive	English oak	6-12in	Priority Removal	Bur oak
815	Alive	red oak	18-24in	Priority Removal	Chinkapin oak
838	Alive	pin oak	12-18in	Poor Condition	Swamp white oak
856	Alive	pin oak	12-18in	Poor Condition	Monterrey oak
912	Alive	pin oak	24-30in	Poor Condition	Southern live oak
913	Alive	red oak	>30in	Poor Condition	Canby oak
914	Alive	red oak	24-30in	Poor Condition	Coast live oak

Table 45. List of trees for removal in Charbonneau and the recommended replacement species (continued)

Table 46. Recommended replacement tree species for removals in Charbonneau

ID	COUNT
Deodar cedar	6
Bur oak	3
Canby oak	3
Chinkapin oak	3
Coast live oak	3
Dawn redwood	3
Hungarian oak	3
Kentucky coffeetree	3
Monterrey oak	3
Oregon white oak	3
Shumard oak	3
Southern live oak	3
Swamp white oak	3
Valley oak	3
Autumn Blaze maple	1
Bigleaf maple	1
Chinese pistache	1
Shademaster honeylocust	1
Willamette Valley ponderosa	1
Wireless Japanese zelkova	1
TOTAL	51

APPENDIX F. FUNDING MECHANISMS

Table 47. Financing options for Wilsonville's urban forest management programs

FINANCING OPTIONS	ATTRIBUTES	PROCESS	OPPORTUNITIES	CHALLENGES
FEASIBLE OPT	IONS			
Special Assessment Districts	Special assessment for landscaping, open space improvements, acquisition, and maintenance.	City agency / property own- ers initiate via petition, City agency administers; based on benefits calculated in engineer's report; >50% of property owners in proposed district must approve via (mail) ballot.	Citywide district possible for all street trees; individual dis- tricts more feasible in areas with many trees, high mainte- nance needs, and/or political support.	Typically funds more than just street trees.
Parcel Tax	Assessment levied independent of property value, can be equal amount per parcel or dependent on lot size.	2/3 of voters (not just proper- ty owners) must approve via election ballot.	Tax can be directly related to program costs; maintenance taxes deductible for property owners.	2/3 voter approval; potential competi- tion from other services (e.g., schools); flat tax distributes cost inequitably.
General Ob- ligation (GO) Bond	Low-interest loan for capital projects; repaid by levying tax revenue.	2/3 voter approval required.	Frequently used tool in municipal govern- ment.	Funding provided for set period; maintenance inel- igible for funding.
Stormwater Utility	Urban forests mitigate storm-water runoff. A portion of the stormwa- ter management fee can be earmarked for urban forestry.	A stormwater fee that is col- lected from every developed property parcel in the City to support the stormwater management program.	Additional funding to urban forestry and incentive to property owners to plant trees as a Best Management Practice.	Establishing a stormwater utility. Planting trees needs to be in a "Stormwater Utility Fee Credit Manual."
Partnerships	Non-profits, corporate partners, grant funding; for tree planting and establishment.	Various, depends on City's processes.	Decrease costs, increase capacity, develop a tree stew- ard organization and program.	Union resistance, sustainable funding stream required.

Table 47. Financing options for Wilsonville's urban forest management programs (continued)

FINANCING OPTIONS	ATTRIBUTES	PROCESS	OPPORTUNITIES	CHALLENGES
ADDITIONAL C	OPTIONS			
Pest Control Fee	A fee for forestry related services such as pest control and replanting.	A forestry fee specific to pest control added to the public service utility billing as a levy.	Opportunity to offset costs of managing and recovering from tree pests and dis- eases.	Increased fee may require voter approval. The City must analyze pest control costs to establish the appropriate fee amount.
Tree Work and Land Development Permit Fees	An increase in fees for registered tree care companies, the Tree Work Permit Application, and development fees.	City assesses the actual costs of managing permits, reviews and inspections and applies an applicable fee. Updates to City ordinances may be required.	Additional fees may be directly applied to urban forest man- agement.	Increasing the fees may require election ballots and/or updates to City ordinances.
General Fund	City's primary funding pool for wide range of municipal services.	Annual budget via City's legislative process.	History of funding for tree planting and establishment.	Not a guaranteed source or amount of funding; funds at risk if budget shortfalls arise.
Carbon Offsets	A cap-and-trade program in Wilsonville would cre- ate a cap on greenhouse gas emissions trading options.	OR Climate Action Plan advocate for a state Carbon Investment Fund program. The City should be involved in designing project (i.e., tree planting) requirements and tracking.	Oregon's cap and trade system provide economic incentive to drive more "natu- ral climate solutions."	A large quantity of trees must be planted to qualify as a carbon offset and the trees must be properly managed to ensure long-term survival and car- bon storage.
Parking Ben- efit District (PBD)	Revenue from parking meters for range of right- of-way improvements and maintenance.	Enacted via local ordinance specifying boundaries, rates, use of funds; City adminis- ters with input from advisory committee.	No ballot approval required; visitors bear burden over residents; revenue can be expended beyond district boundaries.	Adjustments will need to be made based to the agency oversee- ing excess meter revenue; typically funds more than trees.

APPENDIX G. TREES AND HARDSCAPE CONFLICTS SOLUTIONS WORK-BOOK

Decision Matrix

The development of Wilsonville's Urban Forest Management Plan identified the need to clarify the decision process to address tree and sidewalk or construction conflicts. A clear decision matrix can help to reduce inter- and innerdepartment uncertainty and establish or adhere to consistency and fairness. The City's departments have standard operating procedures and checklists for evaluating conflicts at a project site, but these traditionally have not been available to the public. To make the decision process around the retention or removal of trees more transparent and consistent, a clarified process, decision matrix, and solution toolkit should be developed to highlight the key decision points.

Proposed Decision Matrix for Tree and Construction/Sidewalk Conflicts

Figure 33. Proposed decision matrix for tree and construction conflicts



Initial Assessment

The following applies to tree removals, tree removal permit applications, and proposed projects.

The initial assessment of trees, sidewalks (or other infrastructure), and site at the location of concern provides consistency and predictability by collecting the appropriate information. It is recommended to have urban forestry staff involved in the initial assessment process and/or a City staff member with an International Society of Arboriculture Certified Arborist accreditation.

- <u>Tree Preservation Potential</u>. What is the tree quality or health, and is it worth preserving? Is the tree part of the City's Significant Tree Program (if applicable)?
- <u>Tree Mitigation Exploration</u>. If the request to remove the tree is a result of infrastructure damage and the tree exhibits poor health or vigor, can the tree's health or vigor be mitigated by any means other than removal?
- <u>Public Safety Risk</u>. Is the tree a potential hazard that cannot be mitigated by any means other than removal? This includes any tree or tree part that poses a high risk of damage to persons or property located in public places. Use the International Society of Arboriculture's tree risk evaluation standards.
- <u>Initial Assessment Timing</u>. It is recommended that the initial assessment be conducted within 3-4 weeks of receiving a permit application for removal. If the assessment is required due to a proposed project, the assessment should occur no later than 30% design or equivalent of design effort (e.g., during the Environmental Assessment period).

- <u>Tracking</u>. Continue tracking street tree removal permit applications in the City's asset management software or similar program.
- For an example Initial Assessment Checklist, see the Example Initial Assessment Checklist further below.

Initial Tree Decision

If the tree removal permit application was made due to the condition of the tree or other reason not relating to the damage or impediment of infrastructure such as sidewalk, the City Forester or representative may conduct the initial tree decision. If infrastructure is part of the assessment and/or the tree removal request was initiated for a proposed project, the City Engineer or appropriate staff should also be part of the initial tree decision. The appropriate staff will visit the tree and/or proposed project location and assess the tree (and sidewalk, if applicable) conditions. The following actions will result from the assessment:

- <u>Remove Tree</u>. The tree removal permit application was made not as a result of the tree impacting or damaging infrastructure and the tree is identified as unhealthy or unsafe with no remediation possible.
 - Remove the tree and consider the "no net loss" policy of replacing the tree. Some cities implement a 2:1 replacement to removal ratio. The replacement policy should be based on City Code, the Zoning Ordinance, and City guidelines. Replacement of trees can occur on site, same street, or City-approved location. A fee in-lieu should also be considered as an option as described in City Code.
 - Removal of the tree should be prioritized based on other work orders, the risk assessment of the tree, and other factors.
 - For street trees, the removal permit application, decision, work order, tree information, and tree removal information should be tracked in the City's asset management software or similar program.
- <u>Retain Tree</u>. Based on the assessment, the tree is not in decline or the issues can be remediated. Alternatively, if the tree in question is part of a Significant or Heritage Tree Program, the tree may be preserved depending on the tree condition and presence of hazards or risks as described in the City policies and manuals.
 - Document the decision, inform the property owner or project developer.
 - Conduct the remediation activity to the tree if needed.
 - Prioritize and track this information in City's asset management or similar program.
 - Conduct follow-ups with the property owner and monitor the tree if necessary.
- <u>Remove Tree and Replace Sidewalk</u>. The permit application or proposed project identifies a tree that is causing sidewalk conflicts and the tree has been deemed unhealthy and no remediation is possible. The City should reference City Code as to what is defined as unhealthy or hazardous. Note, both tree removal and sidewalk repair are the responsibility of the adjacent property owner.
 - Remove the tree and consider the "no net loss" policy of replacing the tree. Some cities implement a 2:1 replacement to removal ratio. The requirement to replace the tree will be the City and City Forester's discretion. The replacement policy should be based on City Code, the Zoning Ordinance, and the City guidelines. Replacement of trees can occur on site, same street, or City-approved location. A fee in-lieu should also be considered as an option as described in City Code.
 - If a City-owned tree, removal of the tree should be prioritized based on other work orders, the risk assessment of the tree, and other factors.
 - For street trees, the permit application, decision, work order, tree information, and tree removal information should be tracked in the City's asset management program, tree inventory software, or similar.
 - Adjacent property owner replaces the sidewalk using appropriate design standards and materials and consider designing according to standards that will protect any replacement trees and provide ample soil volume and root space for the new or existing trees.
- <u>Retain Tree and Maintain Sidewalk</u>. A tree in question is in conflict with infrastructure and the assessment determined that the tree is to be retained and the infrastructure (i.e., sidewalk) is to be corrected (by the adjacent property owner). The sidewalk will be of standard width and a tree pit of standard width (at minimum) can be installed or retained.
 - Coordinate with the adjacent property owner the timing and approach for maintaining the sidewalk. Some cities offer incentives or funding to support sidewalk maintenance when the issue causing the sidewalk

damage has been identified to be caused by a street tree. Be sure to inform the property owner of alternative sidewalk amendments such as width reduction, alternative materials, among other solutions.

- If any root pruning is needed to amend the sidewalk, urban forestry staff and/or a Certified Arborist hired by the property owner or a certified consultant/contractor hired by the City should evaluate to determine the appropriate root pruning, branch pruning, soil amendments, and other maintenance required.
- Documentation in City asset management program or similar software as stated before is recommended.
- <u>Evaluate Tree and/or Sidewalk Further</u>. During the initial tree decision, it is not appropriate for extensive explorations of pavement, soils, or tree root systems. There are limitations to the initial assessment and decision. The purpose of the initial assessment is to identify where these future actions are required so that the appropriate schedule and funding can be determined.
 - Documentation in City asset management program or similar software as stated before is recommended.

Further Evaluation

The team conducting further evaluation may include an arborist, landscape architect, engineer, or other professionals with expertise relevant to the project details and situation. In addition to collecting information about the trees and infrastructure (i.e., sidewalk) the following additional items may be considered:

Level of impact, future risks, cost/benefit, anticipated sidewalk maintenance if the tree is kept, public/environmental benefit, community values, policy guidance, neighborhood context, historic districts, planned construction, funding forecasts.

Solutions

The following best practices and approaches are provided as examples. The City should review and update these as new or improved practices and materials emerge.

- <u>If Tree Removed, Obtain Valuation</u>. If the tree must be removed, the City should provide guidelines to replace the removed tree. Guidelines should be based on City Code, the Zoning Ordinance, and the City guidelines. Ideally, the tree would be replaced at the same location if the site is suitable for trees in the first place. If not possible, the City should have a procedure in place for the relocation of replacement trees.
- <u>If Tree is Retained, Determine Management Approach</u>. Since the initial assessment offered the opportunity to closely examine the tree and the site, future management approaches and decisions should be discussed and documented. These include future tree replacement species for when the tree does over mature and decline or conduct corrective actions to provide clearance for pedestrians, vehicles, utilities, and signs.
- <u>Identify Potential Sidewalk Solutions</u>. The Alternative Solutions Toolkit Overview section provides information and resources regarding sidewalk solution options. Information gathered during the initial assessment and subsequent site visits will support the selection of options that should be presented to the property owner, developer, or City staff to ensure goals of sidewalk repair and tree preservation are kept.
- Identify Opportunities to Improve Conditions for New Trees. When trees are planted by the City, the appropriate
 tree species for the location should be determined and the City should adhere to best practices in site and tree pit
 preparation to provide enough soil volume to support tree root growth and minimize future pavement damage
 by roots. If a tree is being planted at or near where the tree removal request was made, an evaluation of why the
 request was made should be considered. This may include such things as inadequate soil volume, insufficient
 growing space, tree leaf litter, messy fruit, poor structure, allergies, screening of shade-intolerant garden or
 landscape vegetation, or a combination of factors.

Project Implementation

Whether the sidewalk repair is occurring at a location where the tree is retained or removed, the sidewalk must adhere to the Americans with Disabilities Act (ADA) requirements and City standards and is the responsibility of the adjacent property owner. Tree repaying projects, curb and gutter repairs, and other Capital Projects should also adhere to this evaluation process. Policy in Wilsonville describes City staff's responsibility for maintenance, removal or remediation of City-owned trees or in the case of a public safety hazard. Most trees in the right-of-way are the responsibility of the adjacent property owners. Regarding tree maintenance, mitigation, or removal of City-owned trees, the City should involve the public by:

- Providing a public notice prior to the initial tree assessment.
- Share the results of the initial assessment.
- Share the solution decision.

Example Initial Assessment Checklist for Tree Conflicts

This resource can be adapted for the City of Wilsonville to make decisions regarding tree removals and tree and hardscape (i.e., sidewalks) conflicts.

INITIAL ASSESSMENT CHECKLIST

[CITY LOGO]

[City of ####] Trees and Sidewalks Operations Plan Initial Street Tree and Sidewalk Assessment Checklist

DATE

Prepared By:

The purpose of this document is to outline <u>INITIAL ASSESSMENT</u> for locations where sidewalk work is located within the dripline of an existing street tree.

Project Location/Address	
Tree Species/Diameter	
Street Classification/Type	
Tree Asset Inventory ID	
Sidewalk Segment #	
Is this assessment along a corridor project?	

An [ENGINEER] and [ARBORIST] will look at the site and assess the condition of the sidewalk and the tree.

If the tree has the following characteristics, it should be removed/replaced pursuant to SMC 15.43.030 (C): The City's policy is to retain and preserve street trees whenever possible. Accordingly, street tree removal shall not be permitted unless the Director determines that a street tree:

- 1. Is a hazardous tree;
- 2. Poses a public safety hazard;
- 3. Is in such a condition of poor health or poor vigor that removal is justified; or
- 4. Cannot be successfully retained, due to public or private construction or development conflicts.

Initial Assessment

- 1. Is the tree healthy and worthy of preservation?
 - Yes
 - □ No

Describe:

- 2. Poor Health Is this tree in a condition of poor health or poor vigor that cannot be mitigated by any means other than removal?
 - I Yes
 - □ No
 - Describe:
- 3. Hazardous Tree— Defined in [CITY CODE CITATION] any tree or tree part that poses a high risk of damage to persons using, or property located in the public place, as determined by the [AUTHORITY] according to the tree hazard evaluation standards established by the International Society of Arboriculture.

Yes

- n No
- Describe:
- 4. Minimum Standards—Is there enough space for a [6 foot wide sidewalk and a 5 foot wide] planting strip?

Yes

- 🗆 No
- Describe:
- 5. Public Safety Hazard—Does the tree present a public safety hazard that cannot be mitigated by any means other than removal?
 - Does the tree location obstruct the visibility for pedestrians, cyclists, and/or cars at an intersection?
 - Is the tree impacting a curb ramp such that it no longer meets City of [CITY] ADA requirements?
 - Is the tree potentially impacting private property?
 - □ Yes □ No

Use this space to draw a sketch of the location. Identify existing clearances from nearby infrastructure.

Recommendation for this tree:

– Remove Tree / Replace Sidewalk

A tree is identified to be removed if it is not healthy or if it is hazardous as identified in the Street Tree Ordinance.

-Keep Tree and Maintain Sidewalk

A tree will be kept and the sidewalk will be maintained if a sidewalk of standard width and a tree pit of standard width (at a minimum) can be installed or retained around a healthy tree.

-Evaluate Sidewalk and/or Tree Further

[DEPARTMENT] views trees and sidewalks as important public infrastructure assets. [DEPARTMENT] intends to keep healthy trees and have accessible sidewalks. If standard widths cannot be met then [DEPARTMENT] will take the time and resources to evaluate if alternative approaches (such as sidewalk width reduction, alternative sidewalk materials, adjustments to the tree pit and/or tree root pruning) can be used to retain a tree and provide an accessible sidewalk at problem locations.

NEXT STEPS

If Tree is REMOVED –Replace the removed tree with the minimum 2:1 replacement ratio. Identify if the replacement trees can be located in the same location or on the same street as the removed tree. If not, replacements should be planted as close to the removal as geographically feasible. Identify the estimated cost to remove the tree(s), repair the sidewalk, and plant replacement trees.

If Tree is KEPT – Estimate the cost of the sidewalk repair that would achieve the desired lifecycle for the repair. Estimate sidewalk and tree maintenance needs/costs and any maintenance to the tree that is being retained (e.g., root pruning, branch pruning, soil amendments).

If EVALUATE Further – Use Tree and Sidewalk Evaluation Form (IN DEVELOPMENT) and/or the tree risk assessment should follow ISA TRAQ guidelines:

http://www.isa-arbor.com/education/onlineresources/basictreeriskassessmentform.aspx

Arborist	Engineer
Title	Tile
Date	Date

Alternative Solutions Toolkit Overview



Table 48. Description of possible alternative solutions for tree and construction conflicts.

TOOL TYPE	TOOLS	PRO- ACTIVE	RESPON- SIVE	COST	EXPECTED USEFUL LIFE MONTH/YEAR/DECADE/CENTURY
Material	Paving and Other Surface Materials				
	Asphalt	Р	R	\$-\$\$\$	M Y D C
	Expansion Joints	Р	R	\$	M Y D C
	Pavers	Р	R	\$\$-\$\$\$	M Y D C
	Pervious Concrete	Р	R	\$\$\$-\$\$\$\$	M Y D C
	Reinforced or Thicker Slab	Р	R	\$\$-\$\$\$	M Y D C
	Rockery / Wall	Р	R	\$\$-\$\$\$\$	M Y D C
	Beveling	Р	R	\$-\$\$	M Y D C
	Porous Asphalt	Р	R	\$-\$\$\$	M Y D C
	Shims	Р	R	\$	M Y D C
	Tree Guards and Tree Rails	Р	R	\$\$-\$\$\$	M Y D C
	Decomposed Granite	Р	R	\$-\$\$	M Y D C
	Mudjacking (Concrete Leveling)	Р	R	\$\$-\$\$\$\$	M Y D C
Design	Infrastructure-Based Design Solutions				
	Monolithic Sidewalk	Р	R	\$\$\$	M Y D C
	Pavement Thickness	Р	R	\$\$\$	M Y D C
	Tree Pit Sizing	Р	R	\$	M Y D C
	Bridging	Р	R	\$\$\$\$	M Y D C
	Curb Bulbs	Р	R	\$\$\$-\$\$\$\$	M Y D C
	Curb Realignment	Р	R	\$\$\$-\$\$\$\$	M Y D C
	Curving or Offset Sidewalk	Р	R	\$\$-\$\$\$	M Y D C
	Easement	Р	R	\$-\$\$\$	M Y D C
	Suspended Pavement Systems	Р	R	\$\$\$-\$\$\$\$	M Y D C
	Lowered Sites	Р	R	\$\$\$-\$\$\$\$	M Y D C
	Soil Volume	Р	R	\$-\$\$\$	M Y D C

Page 156 of 236

URBAN FOREST MANAGEMENT PLAN | WILSONVILLE, OR AW

TOOL TYPE	TOOLS	PRO- ACTIVE	RESPON- SIVE	СОЅТ	EXPECTED USEFUL LIFE MONTH/YEAR/DECADE/CENTURY
Root	Rootzone-Based Materials				
	Mulch	Р	R	\$	M Y D C
	Root Barriers	Р	R	\$	M Y D C
	Continuous Trenches	Р	R	\$\$\$	MYDC
	Foam Underlay	Р	R	\$-\$\$	MYDC
	Modified Gravel Layer	Р	R	\$	MYDC
	Root Paths	Р	R	\$-\$\$	MYDC
	Soil Modification	Р	R	\$-\$\$	M Y D C
	Steel Plates	Ρ	R	\$\$-\$\$\$	MYDC
	Structural Soils	Р	R	\$\$-\$\$\$	MYDC
	Subsurface Aeration / Irration	Р	R	\$\$	M Y D C
Tree	Tree-Based Solutions				
	City Forestry Street Tree List	Р	R	\$	M Y D C
	Corrective Pruning	Р	R	\$-\$\$	MYDC
	Root Pruning	Ρ	R	\$-\$\$	MYDC

*General cost notes:

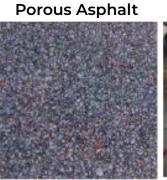
- Sidewalk material costs, when given in linear feet, assume 6-foot sidewalk width
- Costs are planning-level costs and will vary for actual construction
- Costs do not include design, permitting, or other "soft" costs
- Costs not included in tool costs but which would be necessary with use of some solutions include:
 - Drainage structure and connection
 - Curb ramps

Figure 34. Example of alternative solutions for tree and construction conflicts



Beveling







Shims

Tree Guards/Rails





Curb Realignment



Foam Underlay



Mod. Gravel Layer

Pavement

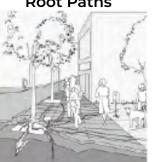
Suspended

Structural Soils





Root Paths





Corrective Pruning



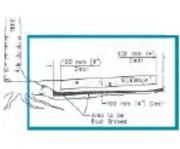


Source of Material **Examples & Images:**





Root Shaving





APPENDIX H. EXISTING AND POTENTIAL URBAN FORESTRY PARTNERS

To manage a sustainable and thriving urban forest a network of supporting partnerships is necessary. With the diverse land ownership types, the extent of social and environmental pressures, and the wide variety of available funds and other resources, planting and the care of urban forests is extremely challenging. Success is increasingly reliant on different interest groups sharing a common ambition, working together in partnership, and leveraging their respective strengths. Urban forestry needs to be delivered at a strategic scale if it is to provide a full range of environmental, social, and economic benefits to the residents of Wilsonville. Therefore, there needs to be an effective and integrated working relationship across public, private, voluntary, and community sectors-with contributions of land, skills, and finance from the widest possible range of partners. This section provides an overview of the importance of partnerships from which the City can utilize as it strives to achieve the goals of the Urban Forest Management Plan.

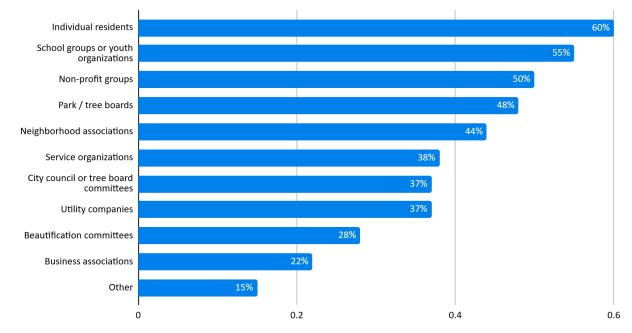


Figure 35. Groups that support tree care or management based on a survey of 317 communities (Hauer et al. 2014)

The City of Wilsonville may evaluate its current partnership network and the groups listed in the figure above to identify areas for improvement. As shown in the figure, a large portion of urban forestry support comes from the individual residents though there are many unique city organizations to also consider. The City should utilize its existing network of partners to strengthen existing partnerships and identify new opportunities. Using the outcomes of the Urban Forest Management Plan and the goals for community engagement within it will provide the City's urban forestry program and partners with the tools, data, and information necessary to secure these partnerships. The following list is meant to serve as a starting point for consideration of traditional and non-traditional partners in urban forestry. As part of the Urban Forest Management Plan project, a document listing the groups by category is provided. The following list provides the overview of sectors that should be more closely reviewed with the supporting document to identify potential partners and areas where partnerships could be strengthened.

- Nonprofits/NGOs
- Wilsonville Area Organizations/Clubs
- Businesses
- Schools
- Government Organizations County

- Government Organizations State
- Government Organizations Federal
- Healthcare
- Native American Tribes

APPENDIX I. STORM AND DISASTER MANAGEMENT GUIDANCE

Resources

https://www.fs.usda.gov/naspf/sites/default/files/naspf/pdf/sotuf.pdf

https://www.fs.usda.gov/ccrc/topics/urban-forests

https://www.ci.wilsonville.or.us/sites/default/files/fileattachments/public_works/page/1101/wilsonville_addendum.pdf

https://drive.google.com/drive/u/3/folders/1fyFSmr3LwYO1Q8wxU1AIASNuJttDj5RC

http://www.gicinc.org/storm_mit.htm

Guidance

Preparation – Planning and Warning Activities

- 1. Install and utilize early warning systems such as the National Weather Service, local news stations, local police and fire departments
- 2. Maintain the current disaster response plan, verify the following components are included:
 - A. Identify individual/departmental roles
 - 1) Establish an official Tree Care Manager (both for management of the urban forest resource and as the point of contact for storm mitigation efforts)
 - 2) Build a storm mitigation team
 - 3) As assigned in the City's EOP and Debris Management Plans, the Public Works Director or similar is the disaster control supervisor.
 - a) Has overall direction for storm clean-up efforts
 - b) Makes decisions relating to storm clean-up efforts and advises on the need for outside assistance (contractors, other Public Works divisions)
 - c) Is responsible for decisions relative to abandoning other divisional responsibilities in favor of storm damage clean-up efforts
 - d) Works with City Communications Director for alerting media as to the progress and problems associated with the storm
 - e) Coordinates with Natural Resources Director to prioritize response efforts
 - B. Contacts for additional support
 - 1) National level tree service firms
 - 2) Smaller, local tree service firms
 - 3) Utility specialists
- 3. Create a more resilient urban forest
 - A. Regular tree risk assessments
 - 1) ISA Level 1 or 2 annually

- a) Dedicated line-item budget for assessments
- 2) Systematic risk-reduction removals/pruning
 - b) Lightning protection systems for high-value/significant trees
- 3) Post-storm event level 1 assessments
- B. Planting considerations for storm damage resistance
 - 1) Ice Storm Susceptibility of Common Tree Species (see <u>Table 50</u> for susceptibility ratings of trees within the City's Recommended Tree List, <u>Appendix A</u>)
 - a) <u>Susceptible</u>: Siberian elm, American elm, honeylocust, common hackberry, Bradford pear, American linden, black cherry, black locust, silver maple, pin oak, green ash
 - b) <u>Intermediate</u>: White ash, red maple, northern red oak, yellow poplar, sycamore, eastern white pine, sugar maple
 - c) <u>Resistant</u>: Yellow birch, shagbark hickory, hawthorn, horsechestnut, American hophornbeam, spruce, eastern hemlock, arborvitae, baldcypress, Norway maple, catalpa, ginkgo, sweetgum, white oak, swamp white oak, littleleaf linden, silver linden, Kentucky coffeetree, black walnut, ironwood, beech
 - d) <u>Species that retain foliage into the fall</u> (more susceptible to autumnal ice storms): European white birch, sweetgum, magnolia variety (Magnolia x soulangiana), scarlet oak, pin oak, English oak, weeping willow
 - e) <u>Species that leaf out early</u> (susceptible to early spring ice storms): Boxelder, yellow poplar, European mountain ash, Siberian elm
- C. Climate change considerations
 - 1) Warmer winter temperatures
 - 2) Increased pest/disease due to more favorable conditions
 - 3) Increased winter precipitation
 - a) More snow and ice loading
 - b) Flooding
 - 4) Decreased summer precipitation
 - a) Drought stress
 - 5) More frequent and intense extreme weather events
 - 6) Mitigation
 - a) Reducing greenhouse gas emissions
 - Allocate resources to trees that mitigate emissions
 - Large hardwoods
 - Maintaining tree canopy
 - b) Promote energy efficiency
 - Strategically planting trees around buildings
 - Increase stormwater infiltration
 - Using wood vs steel in construction projects

- 7) Adaptation
 - a) Planting a diverse mix of pest-tolerant, well-adapted, low-maintenance, long-lived, and drought-resistant trees ensures greater resilience
 - Species type
 - Species to avoid
 - b) Planting small groves of especially water-tolerant species in areas receiving peak volumes of stormwater runoff reduces flooding and pollutant transport
 - c) Establishing and adhering to regular maintenance cycles
 - Pruning young trees properly promotes strong branch attachments that are less vulnerable
 - d) Distribute urban forest benefits equitably
 - Underserved populations will be disproportionately impacted by climate change focusing on these demographic areas with urban forest solutions can help

Response – Immediate Activities during and after Natural Disasters

- 1. Storm damage response: IT IS RECOMMENDED THE CITY OF WILSONVILLE REFER TO THE EMERGENCY OPERATIONS PLAN, NATURAL HAZARDS MITIGATION PLAN, AND THE DEBRIS MANAGEMENT PLAN FOR STORM RESPONSE GUIDANCE. THE FOLLOWING PROVIDES GENERAL INFORMATION FOR THE CITY TO CONSIDER WHEN UPDATING THE AFOREMENTIONED PLANS.
 - A. Funding
 - 1) Sources of assistance
 - a) State forestry/natural resources
 - b) Federal disaster relief
 - c) USDA Forest Service
 - B. Emergency plans and contracts
 - 1) Tree damage response. CITY OF WILSONVILLE ONLY RESPONDS TO STREET TREES WITHIN THE PUBLIC RIGHTS-OF-WAY AND TREES WITHIN CITY-OWNED PROPERTY. CITY CANNOT ASSESS, CLEAR, FELL, OR REMOVE TREES ON PRIVATE PROPERTY AFTER AN EVENT.
 - a) Priority streets/corridors for first response
 - <u>CLASS I</u>: First, all life-threatening situations within street rights-of-way and Cityowned property should be given priority. The City Fire and Police Department request technical assistance for City staff to address the concern(s) under their supervision and directions. Supervisors should make an on-site visit to determine the severity of the damage in the event of multiple hazardous situations. Crews should remedy the situation to a point where it is no longer life threatening before proceeding to the next location. Final clean up should wait until all life threatening situations are resolved and all streets have been cleared.
 - <u>CLASS II</u>: Second, all major City-owned property damage instances should be remedied to a point where the crisis is abated. Supervisors should personally inspect and determine the priority of the tree management program responses. Again, final clean up at those sites should wait until all streets and specialized areas are cleaned up.

 <u>CLASS III</u>: Third, preferential streets (considered to be all main thoroughfares) should be cleared of fallen trees and debris. State and county highway departments may be called to clear U.S., state and county routes. Because the specialized forestry skills required to abate life threatening and property damage situations would be utilized immediately, the street clearance work (in case of widespread and severe damage) may not be undertaken by tree management program personnel until sometime well after the storm has passed. In this situation, the tree manager should recommend to the Public Works Director that other public works crews be considered to assist in street clearance work. immediate supervision of these supplementary crews would be under the direction of their respective divisions.

2) Cleanup

- a) Debris disposal
 - The Public Works develops a budget for normal disposal costs associated with yearly tree maintenance tasks. Major tree debris disposal will require additional funding which may be authorized by the City Manager.
- b) Damage Assessment
 - The Department of Public Works should immediately issue a press release detailing the magnitude of the storm and the expected clean up time. Provide direction to the Community as to how to properly handle / dispose of their debris.
 - A critical tool to assist any emergency response is a current tree inventory of all publicly owned trees. Using the inventory, the City can determine the actual damage to the urban forest. Accurate damage (in dollars) can be assessed and submitted for potential reimbursements. Specific costs can be developed for the repair of the urban forest (pruning, removal, cabling, and rodding).
- 3) Use i-Tree storm for predictions
- 4) FEMA contacts/expectations
- C. Participate in the USDA Forest Service's Urban Forest Strike Team training curriculum.

Recovery – Activities to Regain or Improve upon Pre-disaster Conditions

- 1. Tree planting
 - A. Align with a tree planting strategy that provides guidance on priority areas, tree species selection, postplanting care, and routine maintenance.
 - B. Align planting with urban tree canopy goals
 - C. Utilize the Citywide Recommended Tree List (Appendix A) and Table 50.
- 2. Tree care
 - A. Conduct young tree training to prevent future maintenance issues, improve structural integrity, and reduce future costs
 - B. Conduct routine programmed pruning of established trees in the public tree population to reduce the risk of storm damage
 - C. Inventory, assess, and monitor trees to prioritize maintenance and for information useful in prioritizing storm response

- D. Implement plant health care for trees affected by pests and diseases. Implement an Integrated Pest Management program for prevention, treatment, and recovery due to pests and diseases
- 3. Training
 - A. Provide or support tree maintenance, planting, and risk assessment training for City staff and community partners
 - B. Stay current on research relating to storm disaster prevention, response, and recovery
- 4. Celebrations
 - A. Continue to build support for the urban forest through events and programs such as the Arbor Day celebration, Tree City USA recognition, recognition programs for community tree stewards, memorial tree programs, and the Heritage Tree Program

Implementing and Adapting the 2021 Winter Storm Tree Response Plan

In response to the 2021 winter storm event, the City established and implemented the Winter Storm Tree Response Plan. The following actions were provided by the City and should be updated with the guidance provided in the previous section.

Figure 36. Overview of Wilsonville's 2021 winter storm tree response plan

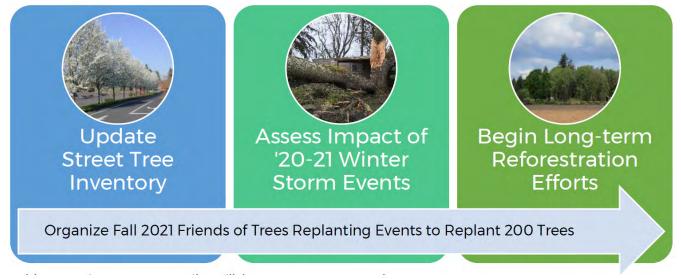


Table 49. Actions to support Wilsonville's storm tree response plan

	SMENT/DATABASE	
TATUS	ACTION	LEAD*
Х	Gather preliminary impressions of impact to street trees, assets on public property, Significant Resource Overlay Zone (SROZ).	CD, PWD, PRD
	Hire two interns to update asset management database (Cartegraph) - focus on street trees, then assets on public property.	PWD
	Update asset management database (Cartegraph) - Data sources: physical assessment, permit applications, community requests for debris pick-up, calls to PW and PRD for haz- ardous removal, etc.	CD, PWD, PRD
	Assess impact to SROZ, residential lots with SROZ, Homeowners Associations (HOAs) with SROZ and natural areas.	CD/NR
	Reconnect with and involve HOAs in assessment effort.	CD
	Determine level of impact (compare initial inventory to assessment data).	CD, PWD, PRD
	Categorize trees (removed, needs removal, needs further assessment, needs pruning, no action needed).	CD, PWD, PRD
	Use emergency arborist contracts to assess trees in "needs further assessment" category; move to other categories.	CD, PWD, PRD
	Update UFMP with new inventory data.	CD/NR
ERMI	T/MITIGATION PROCESSING	
TATUS	ACTION	LEAD*
	Continue processing submitted permits and emergency tree forms.	CD
	Continue advising residents/owners on best course of action.	CD
EPLA	NTING EVENTS	
	ACTION	LEAD*
	ACTION Partner with Friends of Trees (FOT) for replanting; Neighborhood Trees Program for street	CD, PW, PR
EPLA	ACTION Partner with Friends of Trees (FOT) for replanting; Neighborhood Trees Program for street trees; possibly Greenspaces Program in parks/open spaces/natural areas. Plan and execute two replanting days with FOT; first wave of replacement = those who sign-up, are willing, in permit process (100 trees per day, replant 200 trees. Cost = \$285 per	CD, PW, PR
	ACTION Partner with Friends of Trees (FOT) for replanting; Neighborhood Trees Program for street trees; possibly Greenspaces Program in parks/open spaces/natural areas. Plan and execute two replanting days with FOT; first wave of replacement = those who sign-up, are willing, in permit process (100 trees per day, replant 200 trees. Cost = \$285 per tree— owner pays \$35, City pays \$250— \$50,000 total paid by PWD and Tree Fund).	CD, PW, PR CD, PW, PR
	ACTION Partner with Friends of Trees (FOT) for replanting; Neighborhood Trees Program for street trees; possibly Greenspaces Program in parks/open spaces/natural areas. Plan and execute two replanting days with FOT; first wave of replacement = those who sign-up, are willing, in permit process (100 trees per day, replant 200 trees. Cost = \$285 per tree— owner pays \$35, City pays \$250— \$50,000 total paid by PWD and Tree Fund). Use "best tree, best location" replanting method; be aware of potential utility conflicts.	LEAD* CD, PW, PR CD, PW, PR CD, PW, PR CD, PW, PR

Table 49. Actions to support Wilsonville's storm tree response plan (continued)

OUTRE	EACH/EDUCATION	
STATUS	ACTION	LEAD*
	Share information about best practices for damage assessment, salvage, proper pruning, tree first aid in BFM, on website, etc.	CD, ADM
	Share best practices information with HOAs.	CD, ADM
	Based on asset management update, reach out to owners of "needs removal" trees to initi- ate emergency removal process.	CD
	Share information about replanting program and best practices.	CD, ADM
	Consider direct mailing of information on best practices.	CD, ADM
	Reconnect with HOAs to assist in replanting.	CD
	Connect with commercial property owners to provide information about permitting and mitigation best practices.	CD
LONG-	TERM REFORESTATION	
STATUS	ACTION	LEAD*
	Identify long-term reforestation plan	CD, PW, PR
RESOU	JRCE LINKS	
	How to Make Trees Storm Resistant (TCUSA Bulletin No. 75)	
	Tree First Aid After A Storm (ODF)	
	Can These Trees Be Saved? (ODF)	

An Oregon Homeowner's Guide to Tree Care

Wilsonville Street Tree List (most recent revision, Appendix A, and Table 50)

*Lead = City Departments or Divisions: CD = Community Development; PW = Public Works Department; PR = Parks and Recreation Department; ADM = Administrative

Table 50. Trees in the City's Recommended Tree Species List (Appendix A) and storm susceptibility*

COMMON NAME	SCIENTIFIC NAME	STORM SUSCEPTIBILITY
Dawyck Purple Beech	Fagus sylvatica 'Dawyck Purple' Resistant	
Roble Beech	Nothofagus obliqua	Resistant
Fernleaf Beech	Fagus sylvatica 'Asplenifolia'	Resistant
Rivers Purple Beech	Fagus sylvatica 'Riversii'	Resistant
Copper Beech	Fagus sylvatica 'Atropurpurea'	Resistant
Japanese Chinquapin	Castanopsis cuspidata	Resistant
Tricolor Beech	Fagus sylvatica 'Roseomarginata' Resista	
Chinese Catalpa	Catalpa ovata Resista	
Hybrid Catalpa	Catalpa xerubescens 'Purpurea' Resis	
Northern Catalpa	a Catalpa speciosa	
Natchez Crape Myrtle	Lagerstroemia 'Natchez'	Resistant
Bald Cypress	Taxodium distichum	Resistant

Table 50. Trees in the City's Recommended Tree Species List (<u>Appendix A</u>) and storm susceptibility* (continued)

COMMON NAME	SCIENTIFIC NAME	STORM SUSCEPTIBILITY
Shawnee Brave® Bald Cypress	Taxodium distichum 'Mickelson'	Resistant
Saratoga Ginkgo Biloba	Ginkgo Biloba 'Saratoga'	Resistant
Halka Ginkgo Biloba	Ginkgo Biloba 'Halka'	Resistant
Fairmount Ginkgo Biloba	Ginkgo biloba 'Fairmount'	Resistant
Shangri-La Ginkgo Biloba	Ginkgo Biloba 'Shangri-La'	Resistant
Princeton Sentry Ginkgo	Ginkgo biloba 'Princeton Sentry'	Resistant
Emperor Ginkgo biloba	Ginkgo biloba 'Emperor'	Resistant
Presidential Gold® Ginkgo biloba	<i>Ginkgo biloba</i> 'The President'	Resistant
Autumn Gold Ginkgo Biloba	<i>Ginkgo Biloba</i> 'Autumn Gold'	Resistant
Golden Colonade® Ginkgo Biloba	Ginkgo Biloba 'JFS-UGA2'	Resistant
Magyar Ginkgo Biloba	Ginkgo Biloba 'Magyar'	Resistant
Lavalle Hawthorn	Crataegus X lavalleei	Resistant
Western Hemlock	Tsuga heterophylla	Resistant
American Hophornbeam	Ostrya virginiana	Resistant
California Buckeye	Aesculus californica	Resistant
Red Horsechestnut	Aesculus x carnea	Resistant
Kentucky Coffeetree	Gymnocladus dioicus	Resistant
Espresso™ Kentucky Coffeetree	Gymnocladus dioicus 'Espresso-JFS'	Resistant
True North™ Kentucky Coffee- tree	Gymnocladus dioicus 'UMNSynergy'	Resistant
Harvest Gold Littleleaf Linden	<i>Tilia</i> 'Harvest Gold'	Resistant
Silver Linden	Tilia tomentosa 'Sterling'	Resistant
Greenspire® Littleleaf Linden	Tilia cordata 'PNI 6025'	Resistant
Coast Live Oak	Quercus agrifolia	Resistant
Interior Live Oak	Quercus wislizenii	Resistant
Holly Oak	Quercus ilex	Resistant
California Black Oak	Quercus kelloggii	Resistant
Bur Oak	Quercus macrocarpa	Resistant
Canyon Live Oak	Quercus chrysolepis	Resistant
Southern Live Oak	Quercus virginiana	Resistant
Swamp White Oak	Quercus bicolor	Resistant
Oregon White Oak	Quercus garryana	Resistant
Gum Drop® Tupelo	Nyssa sylvatica 'JFS-PN Legacy1'	Resistant
Afterburner® Black Tupelo	Nyssa sylvatica 'David Odom'	Resistant
Wildfire Black Tupelo	Nyssa sylvatica 'Wildfire'	Resistant
Black Tupelo	Nyssa sylvatica 'Firestarter'	Resistant

COMMON NAME	SCIENTIFIC NAME	STORM SUSCEPTIBILITY
Red Rage® Black Tupelo	Nyssa sylvatica 'Haymanred'	Resistant
Sheri's Cloud Black Tupelo	Nyssa sylvatica 'Sheri's Cloud'	Resistant
English Walnut	Juglans regia 'Carpathian'	Resistant
Tuscarora Crape Myrtle	Lagerstroemia 'Tuscarora'	Intermediate
Muskogee Crape Myrtle	Lagerstroemia 'Muskogee'	Intermediate
Exclamation™ London Plane- tree	Platanus xacerifolia 'Morton Circle'	Intermediate
Bloodgood London Planetree	Platanus x acerifolia 'Bloodgood'	Intermediate
Columbia London Planetree	Platanus x acerifolia 'Columbia'	Intermediate
Yarwood London Planetree	Platanus x acerifolia 'Yarwood'	Intermediate
Liberty London Planetree	Platanus x acerifolia 'Liberty'	Intermediate
October Glory Red Maple	Acer rubrum 'October Glory'	Intermediate
Red Sunset Maple	Acer rubrum 'Franksred' REDSUNSET	Intermediate
Armstrong Red Maple	Acer rubrum 'Armstrong'	Intermediate
Bambooleaf Oak	Quercus myrsinifolia	Intermediate
Silverleaf Oak	Quercus hypoleucoides	Intermediate
Forest Green® Oak	Quercus frainetto 'Schmidt'	Intermediate
Blue Oak	Quercus douglasii	Intermediate
Cork Oak	Quercus suber	Intermediate
Sawtooth Oak	Quercus acutissima	Intermediate
Willow Oak	Quercus phellos	Intermediate
Chinkapin Oak	Quercus muehlenbergii	Intermediate
Red Oak	Quercus rubra	Intermediate
Shumard Oak	Quercus shumardii	Intermediate
Canby Oak	Quercus canbyi	Intermediate
Hungarian Oak	Quercus frainetto	Intermediate
Valley Oak	Quercus lobata	Intermediate
Oracle Oak	Quercus ×morehus	Intermediate
Monterrey Oak	Quercus polymorpha	Intermediate
City Sprite® Japanese Zelkova	Zelkova serrata 'JFS-KW1'	Intermediate
Wireless® Japanese Zelkova	Zelkova serrata 'Schmidtlow'	Intermediate
Village Green® Japanese Zelko- va	Zelkova serrata 'Village Green'	Intermediate
Green Vase® Japanese Zelkova	Zelkova serrata 'Green Vase'	Intermediate
Scarlet Oak	Quercus coccinea	Intermediate, Late Fall Foli- age
Tuliptree	Liriodendron tulipifera	Intermediate, Early Spring Foliage

Table 50. Trees in the City's Recommended Tree Species List (<u>Appendix A</u>) and storm susceptibility* (continued)

COMMON NAME	SCIENTIFIC NAME	STORM SUSCEPTIBILITY
Valley Forge American Elm	Ulmus americana 'Valley Forge'	Susceptible
Jefferson American Elm	Ulmus americana 'Jefferson'	Susceptible
Princeton American Elm	Ulmus americana 'Princeton'	Susceptible
Hackberry	Celtis occidentalis	Susceptible
Halka® Honeylocust	Gleditsia triacanthos 'Christie'	Susceptible
Shademaster Honeylocust	Gleditsia triacanthos 'Shademaster'	Susceptible
Skyline® Honeylocust	Gleditsia triacanthos 'Skycole'	Susceptible
Redmond American Linden	Tilia americana 'Redmond'	Susceptible
Willamette Valley Ponderosa	Pinus ponderosa x benthamiana	Susceptible

Table 50. Trees in the City's Recommended Tree Species List (<u>Appendix A</u>) and storm susceptibility* (continued)

* Storm Susceptibility ratings are based on USDA Forest Service and University of FL Institute of Food and Agricultural Sciences research. Rating does not guarantee susceptibility or resistance to any listed species.



URBAN FOREST MANAGEMENT PLAN WILSONVILLE, OREGON

OCTOBER 2021

HEALTHY TREES, HEALTHY CITY





Back cover photo courtesy of Sandy Wilson, winner of the UFMP photo contest, November 2020



Page 170 of 236 CITY COUNCIL ROLLING SCHEDULE Board and Commission Meetings 2021 Items known as of 10/26/21

November

Date	Day	Time	Event	Location	
11/8	Monday	6:30 p.m.	DRB Panel A	Council Chambers	
11/9	Tuesday	6:00 p.m.	Diversity, Equity and Inclusion (DEI) Committee		
11/10	Wednesday	1:00 p.m.	Tourism Promotion Committee Virtual		
11/10	Wednesday	6:00 p.m.	Planning Commission Council Chamber		
11/15	Monday	7:00 p.m.	City Council Meeting Council Chambers		
11/22	Monday	6:30 p.m.	DRB Panel B Council Chambers		

December

Date	Day	Time	Event	Location
12/1	Wednesday	1:00 p.m.	Tourism Promotion Committee	Virtual
12/1	Wednesday	6:30 p.m.	Library Board	Library
12/6	Monday	7:00 p.m.	City Council Meeting	Council Chambers
12/8	Wednesday	6:00 p.m.	Planning Commission	Council Chambers
12/13	Monday	6:30 p.m.	DRB Panel A	Council Chambers
12/14	Tuesday	6:00 p.m.	Diversity, Equity and Inclusion (DEI) Committee	Virtual
12/20	Monday	7:00 p.m.	City Council Meeting Council Chambe	
12/27	Monday	6:30 p.m.	DRB Panel B Council Chambers	

Community Events:

11/1 – 12/10 Fill a Stocking for a Wilsonville Senior! Donations to be dropped off at Parks & Recreation Administrative Building

- 11/4 Bridge for Beginners: Drop-In Lessons from 10:00 a.m. to 11:30 a.m. at the Community Center
- **11/5** Bridge Group from 1:00 p.m. to 4:00 p.m. at the Community Center
- 11/6 Paper Shredding Event from 9:00 a.m. to 2:00 p.m. at City Hall

11/8 Be Seen. Be SMART. Safety Campaign from 6:00 a.m. to 8:30 a.m. and 3:30 p.m. to 6:00 p.m. at the Wilsonville Transit Center

- 11/9 Quilters from 9:00 a.m. to 11:45 a.m. at the Tauchman House
- 11/9 Life 101: ID Theft and Scams Seminar from 10:45 a.m. to 11:45 a.m. at the Community Center
- **11/11** City Offices closed in observance of Veterans Day
- **11/11** Bridge for Beginners: Drop-In Lessons from 10:00 a.m. to 11:30 a.m. at the Community Center
- 11/12 Bridge Group from 1:00 p.m. to 4:00 p.m. at the Community Center
- 11/16 Quilters from 9:00 a.m. to 11:45 a.m. at the Tauchman House
- 11/17 Nature Play Playground Grand Opening; 10:00 a.m. at Memorial Park
- 11/17 Bingo from 12:45 p.m. to1:45 p.m. at the Community Center
- 11/20 Leaf Drop Off Day from 9:00 a.m. to 2:00 p.m. at City Hall
- 11/25 -11/26 City Offices closed in observance of the Thanksgiving Holiday



CITY COUNCIL MEETING STAFF REPORT

Meeting Date: November 1, 2021		 Subject: Resolution No. 2926 Resolution of the City of Wilsonville Adopting Residential Building Codes. Staff Member: Dan Carlson, Building Official and Ryan Adams, Assistant City Attorney 		
		Department: Building/Legal		
Action Required		Advisory Board/Commission		
	Motion Public Hearing Date: Ordinance 1 st Reading Date: Ordinance 2 nd Reading Date: Resolution Information or Direction Information Only Council Direction Consent Agenda	Recommendation Approval Denial None Forwarded Not Applicable Comments: N/A		
Staff Recommendation: Staff recommends Council adopt the Consent Agenda.				
Recommended Language for Motion: I move to approve the Consent Agenda.				
Project / Issue Relates To:				
	□Council Goals/Priorities □Adopted Master Plan(s) ⊠Not Applicable			

ISSUE BEFORE COUNCIL:

Whether to adopt the proposed state residential building code, as amended or supplemented, as part of the City of Wilsonville Building Code, as currently provided in Wilsonville Code Chapter 9. Resolution No. 2926 concerning adoption of residential building codes is attached hereto as **Attachment A**.

EXECUTIVE SUMMARY:

The Oregon Building Codes Division ("BCD") is responsible for adopting a consistent and uniform set of construction codes that are effective statewide pursuant to Oregon Revised Statutes (ORS) 455.020(1). These codes contain technical provisions and administrative provisions.

With regard to technical provisions, jurisdictions are not permitted to adopt more restrictive local codes than are within the scope of ORS 455.020 and the adopted statewide codes. With regard to administrative provisions, under ORS 455.020(4), jurisdictions may enact regulations for locally administering the state building code.

In December 2019, Council approved an entirely revised Wilsonville Code Chapter 9, entitled Building Code, to provide for effective local administration of the state codes. In addition, Chapter 9 authorizes adoption of state building codes through Council action via resolution. This provides the flexibility and nimbleness to more readily adopt revised technical building code standards as they change at the state level.

On April 1, 2021, three new state codes became effective. Due to printing delays and feedback from statewide stakeholders regarding the significance of some of the residential code changes, the state BCD provided a grace period for the effective date until October 1, 2021. Council is being asked to approve a resolution to adopt the new residential state code.

1. Overview and Resolution No. 2926 – Adoption of Residential Building Codes

There are numerous statewide building construction codes adopted by BCD. The state BCD generally adopts building codes on a three year code change cycle. Because there are a large number of codes, reviewing and updating all codes every three years would be a monumental task so BCD and their respective advisory boards reviews the codes on a staggered schedule.

On April 1, 2021, BCD adopted the following codes statewide:

- 2021 Oregon Residential Specialty Code (ORSC)
- 2021 Oregon Plumbing Specialty Code (OPSC)
- 2021 Oregon Electrical Specialty Code (OESC)

On March 15, 2021, through Resolution No. 2883, the City Council adopted the 2021 OPSC and 2021 OESC that became effective on April 1, 2021. While April 1 was technically the effective date, BCD provided interim rules that allowed for a 6-month implementation grace period for the ORSC.

The outreach to stakeholders for statewide code changes was robust at the state level. This included a number of industry and trade groups. The state provided online training free of charge on the code changes. This training remains available online for any interested party. Building staff have been reaching out locally to make contractors and designers aware of the changes.

Recently the state BCD clarified its statutory authority to regulate codes for the construction of certain items. Items that BCD said it could not regulate were left as reference only in the codes with the caveat that jurisdictions would have to locally adopt provisions to administer and enforce. For example, BCD said the statewide code adoption does not apply to the regulation of demolition, retaining walls, fences, and dangerous buildings, to name a few. Staff and Council went through a similar add-back exercise with the local commercial code adoption process in 2020. Staff have reviewed the state residential code and is suggesting the add-backs noted in Attachment A, Exhibit 1, for local adoption. Where relevant, these are also consistent with the commercial codes, which were previously adopted by Council via resolution 2779.

Resolution No. 2926 (Attachment A) adopts one (1) code that is applicable to Wilsonville pursuant to Chapter 9, Sections 9.300 and 9.340. This code is attached as **Exhibit 1** to Resolution No. 2926 adopting the 2021 Oregon Residential Specialty Code (ORSC).

EXPECTED RESULTS:

Establishes local Building Code adoption for residential codes.

TIMELINE:

If adopted, Resolution No. 2926 would become effective at the November 1, 2021 Council meeting.

CURRENT YEAR BUDGET IMPACTS:

N/A

FINANCIAL REVIEW:

Reviewed by: KAK Date: 10/20/2021

LEGAL REVIEW:

Reviewed by: <u>BAJ</u> Date: <u>10/26/2021</u>

COMMUNITY INVOLVEMENT PROCESS:

The outreach to stakeholders for statewide code changes was robust at the state level. This included a number of industry and trade groups. The state provided online training free of charge on the code changes. This training remains available online for any interested party. Building staff have been reaching out locally to make contractors and designers aware of the changes.

POTENTIAL IMPACTS or BENEFIT TO THE COMMUNITY:

Providing the local regulations will ensure that structures continue to meet accepted safety standards and ensure consistent application of the codes with neighboring jurisdictions.

ALTERNATIVES:

Adopt the statewide code for local administration, or turn the local building program back to the state for state administration, which is not recommended.

CITY MANAGER COMMENT:

N/A

ATTACHMENTS:

- A. Resolution No. 2926
 - 1. Residential Specialty Code

Page 175 of 236

RESOLUTION NO. 2926

A RESOLUTION OF THE CITY OF WILSONVILLE ADOPTING THE OREGON RESIDENTIAL SPECIALTY CODE.

WHEREAS, the City of Wilsonville ("City") has adopted the Oregon state building codes; and

WHEREAS, the Oregon Building Codes Division ("BCD") has adopted six (6) building codes that are applicable to the City; and

WHEREAS, one (1) of the six (6) state building codes is the Oregon Residential Specialty Code (incorporated by reference herein and available at https://codes.iccsafe.org/content/ORRSC2021P1), which became effective as of October 1, 2021; and

WHEREAS, the City Council seeks to adopt all applicable and current state building codes as part of the City of Wilsonville's Building Code.

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

- 1. The above findings are incorporated herein.
- The City Council of the City of Wilsonville hereby adopts Exhibit 1 as building codes adopted pursuant to the Wilsonville Code Chapter 9, Sections 9.300 through 9.370.
- 4. This Resolution becomes effective on November 1, 2021.

ADOPTED by the Wilsonville City Council at a regular meeting thereof this 1st day of November 2021, and filed with the Wilsonville City Recorder this date.

Julie Fitzgerald, Mayor

ATTEST:

Kimberly Veliz, City Recorder

SUMMARY OF VOTES: Mayor Fitzgerald Council President Akervall Councilor Lehan Councilor West Councilor Linville

EXHIBIT:

1. Residential Specialty Code

Exhibit 1 City of Wilsonville Residential Specialty Code

I. Adoption of 2021 Oregon Residential Specialty Code

Except as amended herein, the City of Wilsonville ("City") adopts the 2021 Oregon Residential Specialty Code, as adopted by Oregon Administrative Rules (OAR) 918-480-0005 through 918-440-0010, as part of the City's Building Code. A copy of the 2021 Oregon Residential Specialty Code, as well as the provisions of the 2018 International Building Code and the 2018 International Property Maintenance Code referenced herein, shall be kept in the office of the Building Official of the City of Wilsonville.

II. Amendments to 2021 Oregon Residential Specialty Code

The City further adopts by reference the following provisions as part of the City's Building Code.

- A. Section 101.2.2 Optional local adoption. The 2021 Oregon Residential Specialty Code (ORSC) is adopted locally for the following matters:
 - 1. <u>Fences:</u> Fences that are greater than 7 feet in height, and fences of any height that serve as a *swimming pool* (as defined by ORSC) barrier.
 - 2. <u>Retaining Walls</u>: Retaining walls that are over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall and that support a surcharge.
- B. Section 101.2.3.1 Matters outside the statutory authority of the state building code. The 2021 Oregon Residential Specialty Code (ORSC) does not regulate the following items under the statutory authority of the state adopted building code:
 - 1. Demolition
 - 2. Unsafe Structures or Equipment
 - 3. Service Utilities
 - 4. Protection of Adjoining Property
 - 5. Temporary Use of Streets, Alleys, and Public Property
 - 6. Water Supply for Fire Protection
 - 7. Excavation and Grading

Therefore the City of Wilsonville locally adopts the following codes which apply to these items:

- 1. Section 3303 Demolition, of the adopted edition of the Oregon Structural Specialty Code, along with the corresponding 2018 International Building Code Section.
- Section 116 Unsafe Structures or Equipment, of the adopted edition of the Oregon Structural Specialty Code, along with the corresponding 2018 International Building Code Section. For the purposes of clarifying and defining

what are unsafe structures, unsafe equipment, or dangerous building conditions, the following sections of the 2018 International Property Maintenance Code are adopted:

- a. Section 108.1.5, Dangerous Structure or Premises
- b. Section 109, Emergency Measures
- c. Chapter 2, Definitions
- d. Sections 304.1.1, 305.1.1, 306.1.1, each titled Unsafe Conditions
- 3. Section 112 Service Utilities of the adopted edition of the Oregon Structural Specialty Code, along with the corresponding 2018 International Building Code Section.
- 4. Section 3307 Protection of Adjoining Property of the adopted edition of the Oregon Structural Specialty Code, along with the corresponding 2018 International Building Code Section.
- 5. Section 3313 Water Supply for Fire Protection of the adopted edition of the Oregon Structural Specialty Code, along with the corresponding 2018 International Building Code Section.
- 6. **Appendix J Grading -** of the adopted edition of the Oregon Structural Specialty Code, except the following:
 - a. **Delete:** Section J103.2 Exemptions. Delete items 1 & 2.
 - b. **Revise:** Section J103.2 Exemptions. 1. 50 cubic yards, or 1 foot of depth for fill. 2. Deleted.
 - c. Add: Section J109.5 Drainage. Drainage shall be provided as required by the geotechnical evaluation. The design and construction of drainage systems shall be in accordance with the applicable requirements of the Oregon Plumbing Specialty Code and City of Wilsonville Engineering Standards. Drainage system discharge shall be to an *approved* location.
 - d. **Revise:** J110.1 General. Delete former and add: J110.1 General. Erosion Control measures shall be installed and maintained in accordance with Wilsonville Engineering Standards for Erosion Prevention and Sediment Control requirements for the duration of a project.



CITY COUNCIL MEETING STAFF REPORT

Meeting Date: November 1, 2021		.021	 Subject: Resolution No. 2933 Authorizing the City Manager to Execute a Professional Services Agreement with Murraysmith, Inc. for Owner's Representative Services for the Boeckman Road Corridor project (CIP No. 2102, 4205, 4206, 4212) Staff Member: Zachary J. Weigel, P.E., City Engineer 	
A	ion Dominad		Department: Community Development	
Action Required			Advisory Board/Commission Recommendation	
\square	⊠ Motion			
	Public Hearing Date:			
	•			
	□ Ordinance 1 st Reading Date:		□ None Forwarded	
\Box Ordinance 2 nd Reading Date:		te:	Not Applicable	
\boxtimes	Resolution		Comments: N/A	
	Information or Direction			
	Information Only			
	Council Direction			
\boxtimes	Consent Agenda			
Sta	ff Recommendation: Sta	ff reco	mmends Council adopt the Consent Agenda.	
	Recommended Language for Motion: I move to approve the Consent Agenda.			
Pro	Project / Issue Relates To:			
			pted Master Plan(s):	
			ortation System Plan Project	
1 1			& UU-02 water Collection System	
			Plan Project CIP-33	

ISSUE BEFORE COUNCIL:

A City of Wilsonville Resolution approving a Professional Services Agreement for owner's representative services with Murraysmith, Inc. in the amount of \$479,343.00 for the Boeckman Road Corridor (CIP #2102, 4205, 4206, and 4212) project.

Resolution No. 2933Staff Report

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EXECUTIVE SUMMARY:

The Boeckman Road Corridor Project (BRCP) consists of four adjacent and interconnected, high priority capital improvement projects along Boeckman Road between Canyon Creek Road and Stafford Road. These are needed and planned improvements necessary to support the Frog Pond development areas. Integration of the four projects into the BRCP will assure proper coordination and fewer disruptions during design and construction. The BRCP projects include:

- Boeckman Road Sanitary Sewer (CIP 2012)
- Boeckman Road Street Improvements (CIP 4205)
- Canyon Creek/Boeckman Traffic Signal (CIP 4206)
- Boeckman Dip Bridge (CIP 4212)

On August 2, 2021, the Wilsonville City Council approved Resolution No. 2916, authorizing the use of a Progressive Design Build (PDB) alternative contracting method for the BRCP. Use of PDB alternative contracting will help deliver this complex and environmentally sensitive project within a desirable timeframe by allowing the City staff, design team, and contractor to collaborate and be innovative during project design and construction. As part of the PDB contract, the City is utilizing an owner's representative to assist the City by making available their specialized expertise and experience with PDB contracting

In response to the City's advertisement for owner's representative services, one proposal was received by the September 30, 2021 due date. Staff evaluated the submitted proposal and determined that Murraysmith, Inc. is qualified to perform the owner's representative services for the BRCP.

The initial owner's representative services authorized under this approval include assistance with review of early project work and cost estimates, preparation of PDB contract and request for proposal documents, evaluation and selection of PDB team, negotiation of PDB team contract and fee, development of a public engagement plan, and review of preliminary engineering documents.

As the scope of the BRCP work is refined through preliminary engineering design, the City will negotiate continued owner's representative services as contract amendment(s) with Murraysmith, Inc. The expected owner's representative services will continue up to and through the BRCP construction phase and include assistance with engineering design reviews, independent cost estimating, review and negotiation of the Guaranteed Maximum Price (GMP), construction management, administration, and inspection.

EXPECTED RESULTS:

The BRCP will make needed safety improvements to Boeckman Road by correcting a vertical curve deficiency and upgrading the steep, narrow, rural roadway to an urban standard with safe bicycle and pedestrian facilities that connect residential neighborhoods, jobs, schools, and commercial land uses. In addition, the BRCP will benefit the existing and planned community and provide sewer capacity to accommodate buildout of the Frog Pond neighborhoods.

TIMELINE:

A Request for Proposals (RFP) for engineering and construction services through a Progressive Design Build (PDB) contract is planned for February 2022. The initial owner's representative services authorized under this approval is expected to be completed by June 2022 coinciding with the conclusion of the PDB preliminary design work. The number, size, and schedule of construction "packages" will be determined as design with the PDB team progresses. BRCP construction is expected to be completed by the end of 2024.

CURRENT YEAR BUDGET IMPACTS:

The adopted budget for FY21/22 includes funding for owner's representative, engineering design, and overhead for the BRCP as summarized below:

CIP No.	Project Name	Funding Source	FY 21/22 Budget	Owner's Rep. Fee
2102	Boeckman Sewer	Sewer SDC	\$215,650.00	\$14,380.29
4205	Boeckman Street Improvements	Street SDC	\$1,210,925.00	\$86,761.08
4206	Boeckman/Canyon Creek Signal	Street SDC	\$312,125.00	\$21,091.09
4212	Boeckman Dip Bridge	Year 2000 Urban Renewal	\$3,450,000.00	\$357,110.54
		Total	\$5,188,700	\$479,343

The initial phase of the owner's representative work is within the budgeted amount for each of the four capital improvement projects that make up the BRCP. This project is included in the City's five-year capital improvement plan and will carry into the next fiscal year.

FINANCIAL REVIEW:

Reviewed by: <u>KAK</u> Date: <u>10/25/2021</u>

LEGAL REVIEW:

Reviewed by: <u>BAJ</u> Date: <u>10/26/2021</u>

COMMUNITY INVOLVEMENT PROCESS:

The owner's representative will assist the City in developing a comprehensive and robust community engagement plan to be implemented as design and construction work get underway. To date, preliminary public outreach occurred as part of the Year 2000 Urban Renewal Plan amendment, Frog Pond master planning and subsequent land use reviews, and as part of the Transportation System Plan adoption.

POTENTIAL IMPACTS OR BENEFIT TO THE COMMUNITY:

The BRCP includes roadway improvements necessary to provide sufficient transportation infrastructure and safe and accessible connections, improving the City's local transportation network and benefitting the community. The owner's representative will assist the City in the selection and management of a qualified PDB team and ensure the benefits of the alternative contracting method, such as shorter construction schedule, contractor expertise during design, adaptable construction sequencing, and reduced impacts to the community, are realized.

ALTERNATIVES:

Council could direct staff to proceed with the BRCP without an owner's representative and utilize a traditional design-bid-build contracting method. This alternative is not recommended as the construction timeline would be longer and the potential risk of added cost and additional road closures during construction would increase.

CITY MANAGER COMMENT:

N/A

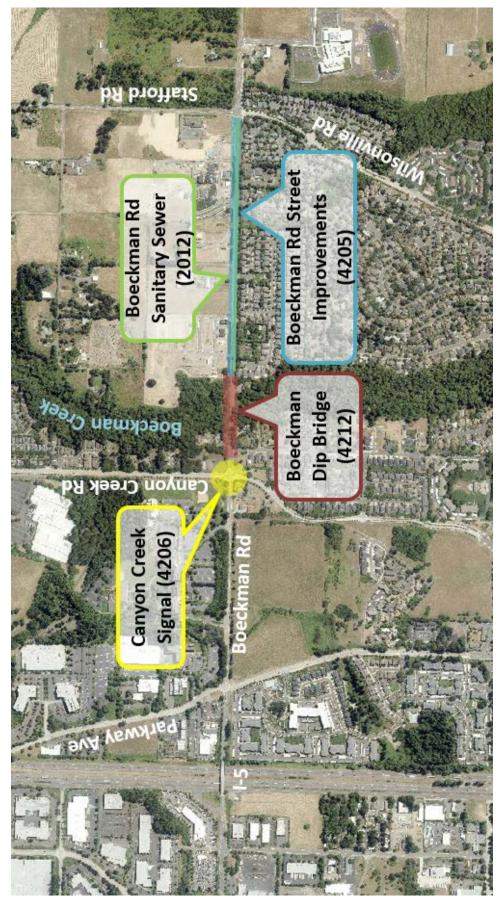
ATTACHMENTS:

- 1. Vicinity Map
- 2. Resolution No. 2933

A. Boeckman Road Corridor Project Professional Services Agreement

Page 183 of 236

ATTACHMENT 1 VICINITY MAP



RESOLUTION NO. 2933

A RESOLUTION OF THE CITY OF WILSONVILLE AUTHORIZING THE CITY MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT CONTRACT WITH MURRAYSMITH, INC. FOR OWNER'S REPRESENTATIVE SERVICES FOR THE BOECKMAN ROAD CORRIDOR PROJECT (CAPITAL IMPROVEMENT PROJECT # 2102, 4205, 4206, 4212).

WHEREAS, the City has planned, designed, and budgeted for the completion of Capital Improvements Projects # 2102, 4205, 4206, and 4212, known as Boeckman Road Corridor project (the Project); and

WHEREAS, City Council approved Resolution No. 2916 on August 2, 2021 authorizing the use of a Progressive Design Build (PDB) contracting method for design and construction of the Project; and

WHEREAS, the City intends to utilize an owner's representative, experienced in PDB contracting, to assist with solicitation, selection, and management of a PDB team; and

WHEREAS, the City solicited Requests for Proposals from qualified consultants for the Project that duly followed the State of Oregon Public Contracting Rules and the City of Wilsonville Municipal Code; and

WHEREAS, Murraysmith, Inc. submitted a proposal for the Project on September 30, 2021 and was subsequently evaluated and determined to be the most qualified consultant to perform the work; and

WHEREAS, following the qualifications based selection process and under the direction of the City, a detailed scope of work was prepared, and the fee for the scope was negotiated and found to be acceptable and appropriate for the services to be provided.

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

- Section 1. The procurement process for the Project duly followed Oregon Public Contracting Rules, and Murraysmith, Inc. has provided a responsive and responsible proposal for owner's representative services.
- Section 2. The City of Wilsonville, acting as the Local Contract Review Board, authorizes the City Manager to enter into and execute, on behalf of the City of Wilsonville, a Professional Services Agreement with Murraysmith, Inc. for a not-

to-exceed amount of \$479,343.00, which is substantially similar to **Exhibit A** attached hereto.

Section 3. This resolution is effective upon adoption.

ADOPTED by the Wilsonville City Council at a regular meeting there of this 1st day of November 2021, and filed with the Wilsonville City Recorder this date.

Julie Fitzgerald, Mayor

ATTEST:

Kimberly Veliz, City Recorder

SUMMARY OF VOTES: Mayor Fitzgerald Council President Akervall Councilor Lehan Councilor West Councilor Linville

EXHIBIT:

A. Boeckman Road Corridor Project Professional Services Agreement

Page 186 of 236 EXHIBIT A

CITY OF WILSONVILLE PROFESSIONAL SERVICES AGREEMENT

This Professional Services Agreement ("Agreement") for the Boeckman Road Corridor Project ("Project") is made and entered into on this _____ day of _____ 2021 ("Effective Date") by and between the **City of Wilsonville**, a municipal corporation of the State of Oregon (hereinafter referred to as the "City"), and **Murraysmith**, **Inc.**, an Oregon corporation (hereinafter referred to as "Consultant").

RECITALS

WHEREAS, the City requires services which Consultant is capable of providing, under terms and conditions hereinafter described; and

WHEREAS, Consultant represents that Consultant is qualified to perform the services described herein on the basis of specialized experience and technical expertise; and

WHEREAS, Consultant is prepared to provide such services as the City does hereinafter require.

NOW, THEREFORE, in consideration of these mutual promises and the terms and conditions set forth herein, the parties agree as follows:

AGREEMENT

Section 1. Scope of Work

Consultant shall diligently perform the professional engineering services according to the requirements and deliverable dates identified in the Scope of Work for the Project, attached hereto as **Exhibit A** and incorporated by reference herein (the "Services").

Section 2. Term

The term of this Agreement shall be from the Effective Date until all Services required to be performed hereunder are completed and accepted, or no later than December 31, 2022, whichever occurs first, unless earlier terminated in accordance herewith or an extension of time is agreed to, in writing, by the City.

Section 3. Consultant's Services

3.1. All written documents, drawings, and plans submitted by Consultant in conjunction with the Services shall bear the signature, stamp, or initials of Consultant's authorized Project Manager. Any documents submitted by Consultant that do not bear the signature, stamp, or initials of Consultant's authorized Project Manager, will not be relied upon by the City. Interpretation of plans and answers to questions regarding the Services or Scope of Work given by Consultant's Project Manager may be verbal or in writing, and may be relied upon by the City, whether given verbally or

in writing. If requested by the City to be in writing, Consultant's Project Manager will provide such written documentation.

3.2. Consultant will not be deemed to be in default by reason of delays in performance due to circumstances beyond Consultant's reasonable control, including but not limited to strikes, lockouts, severe acts of nature, or other unavoidable delays or acts of third parties not under Consultant's direction and control ("Force Majeure"). In the case of the happening of any Force Majeure event, the time for completion of the Services will be extended accordingly and proportionately by the City, in writing. Lack of labor, supplies, materials, or the cost of any of the foregoing shall not be deemed a Force Majeure event.

3.3. The existence of this Agreement between the City and Consultant shall not be construed as the City's promise or assurance that Consultant will be retained for future services beyond the Scope of Work described herein.

3.4. Consultant shall maintain the confidentiality of any confidential information that is exempt from disclosure under state or federal law to which Consultant may have access by reason of this Agreement. Consultant warrants that Consultant's employees assigned to the Services provided in this Agreement shall be clearly instructed to maintain this confidentiality. All agreements with respect to confidentiality shall survive the termination or expiration of this Agreement.

Section 4. Compensation

4.1. Except as otherwise set forth in this **Section 4**, the City agrees to pay Consultant on a time and materials basis, guaranteed not to exceed FOUR HUNDRED SEVENTY-NINE THOUSAND THREE HUNDRED FORTY-THREE DOLLARS (\$479,343), for performance of the Services ("Compensation Amount"). Any compensation in excess of the Compensation Amount will require an express written Addendum to be executed between the City and Consultant. Consultant's unit pricing is set forth in **Exhibit B**, attached hereto and incorporated by reference herein.

4.2. During the course of Consultant's performance, if the City, through its Project Manager, specifically requests Consultant to provide additional services that are beyond the Scope of Work described on **Exhibit A**, Consultant shall provide such additional services and bill the City at the hourly rates outlined on Consultant's Rate Schedule, as set forth in **Exhibit B**. Any Additional work beyond the Scope of Work, or any compensation above the amount shown in **Subsection 4.1**, requires a written Addendum executed in compliance with the provisions of **Section 17**.

4.3. Except for amounts withheld by the City pursuant to this Agreement, Consultant will be paid for Services for which an itemized invoice is received by the City within thirty (30) days of receipt, unless the City disputes such invoice. In that instance, the undisputed portion of the invoice will be paid by the City within the above timeframe. The City will set forth its reasons for the disputed claim amount and make good faith efforts to resolve the invoice dispute with Consultant as promptly as is reasonably possible.

4.4. The City will be responsible for the direct payment of required fees payable to governmental agencies, including but not limited to plan checking, land use, zoning, permitting, and all other similar fees resulting from this Project, that are not specifically covered by **Exhibit A**.

4.5. Consultant's Compensation Amount and Rate Schedule are all inclusive and include, but are not limited to, all work-related costs, expenses, salaries or wages, plus fringe benefits and contributions, including payroll taxes, workers compensation insurance, liability insurance, profit, pension benefits and similar contributions and benefits, technology and/or software charges, licensing, trademark, and/or copyright costs, office expenses, travel expenses, mileage, and all other indirect and overhead charges, including, but not limited to, the recently enacted Oregon Corporate Activity Tax (CAT).

Section 5. City's Rights and Responsibilities

5.1. The City will designate a Project Manager to facilitate day-to-day communication between Consultant and the City, including timely receipt and processing of invoices, requests for information, and general coordination of City staff to support the Project.

5.2. Award of this contract is subject to budget appropriation. Funds are approved for Fiscal Year 2021-22. If not completed within this fiscal year, funds may not be appropriated for the next fiscal year. The City also reserves the right to terminate this contract early, as described in **Section 15**.

Section 6. City's Project Manager

The City's Project Manager is Zach Weigel. The City shall give Consultant prompt written notice of any re-designation of its Project Manager.

Section 7. Consultant's Project Manager

Consultant's Project Manager is Eric Levison. In the event that Consultant's designated Project Manager is changed, Consultant shall give the City prompt written notification of such re-designation. Recognizing the need for consistency and knowledge in the administration of the Project, Consultant's Project Manager will not be changed without the written consent of the City, which consent shall not be unreasonably withheld. In the event the City receives any communication from Consultant that is not from Consultant's designated Project Manager, the City may request verification by Consultant's Project Manager, which verification must be promptly furnished.

Section 8. Project Information

Except for confidential information designated by the City as information not to be shared, Consultant agrees to share Project information with, and to fully cooperate with, those corporations, firms, contractors, public utilities, governmental entities, and persons involved in or associated with the Project. No information, news, or press releases related to the Project, whether made to representatives of newspapers, magazines, or television and radio stations, shall be made without the written authorization of the City's Project Manager.

Section 9. Duty to Inform

If at any time during the performance of this Agreement or any future phase of this Agreement for which Consultant has been retained, Consultant becomes aware of actual or potential problems, faults, or defects in the Project or Scope of Work, or any portion thereof; or of any nonconformance with federal, state, or local laws, rules, or regulations; or if Consultant has any objection to any decision or order made by the City with respect to such laws, rules, or regulations, Consultant shall give prompt written notice thereof to the City's Project Manager. Any delay or failure on the part of the City to provide a written response to Consultant shall neither constitute agreement with nor acquiescence to Consultant's statement or claim, nor constitute a waiver of any of the City's rights.

Section 10. Subcontractors and Assignments

10.1. Unless expressly authorized in **Exhibit A** or **Section 11** of this Agreement, Consultant shall not subcontract with others for any of the Services prescribed herein. Consultant shall not assign any of Consultant's rights acquired hereunder without obtaining prior written approval from the City, which approval may be granted or denied in the City's sole discretion. Some Services may be performed by persons other than Consultant, provided Consultant advises the City of the names of such subcontractors and the work which they intend to perform, and the City specifically agrees in writing to such subcontracting. Consultant acknowledges such work will be provided to the City pursuant to a subcontract(s) between Consultant and subcontractor(s) and no privity of contract exists between the City and the subcontractor(s). Unless otherwise specifically provided by this Agreement, the City incurs no liability to third persons for payment of any compensation provided herein to Consultant. Any attempted assignment of this Agreement without the written consent of the City shall be void. Except as otherwise specifically agreed, all costs for work performed by others on behalf of Consultant shall not be subject to additional reimbursement by the City.

10.2. The City shall have the right to enter into other agreements for the Project, to be coordinated with this Agreement. Consultant shall cooperate with the City and other firms, engineers or subcontractors on the Project so that all portions of the Project may be completed in the least possible time and within normal working hours. Consultant shall furnish other engineers, subcontractors and affected public utilities, whose designs are fitted into Consultant's design, detail drawings giving full information so that conflicts can be avoided.

10.3. Consultant shall include this Agreement by reference in any subcontract and require subcontractors to perform in strict compliance with this Agreement.

Section 11. Consultant Is Independent Contractor

11.1. Consultant is an independent contractor for all purposes and shall be entitled to no compensation other than the Compensation Amount provided for under **Section 4** of this Agreement. Consultant will be solely responsible for determining the manner and means of accomplishing the end result of Consultant's Services. The City does not have the right to control or interfere with the manner or method of accomplishing said Services. The City, however, will have the right to specify and control the results of Consultant's Services so such Services meet the requirements of the Project.

Page 190 of 236

11.2. Consultant may request that some consulting services be performed on the Project by persons or firms other than Consultant, through a subcontract with Consultant. Consultant acknowledges that if such services are provided to the City pursuant to a subcontract(s) between Consultant and those who provide such services, Consultant may not utilize any subcontractor(s), or in any way assign its responsibility under this Agreement, without first obtaining the express written consent of the City, which consent may be given or denied in the City's sole discretion. For all Services performed under subcontract to Consultant, as approved by the City, Consultant shall only charge the compensation rates shown on the approved Rate Schedule (**Exhibit B**). Rate schedules for named or unnamed subcontractors, and Consultant markups of subcontractor billings, will only be recognized by the City as set forth in Consultant's Rate Schedule, unless documented and approved, in writing, by the City pursuant to a modification to Consultant's Rate Schedule, per **Section 17** of this Agreement. In all cases, processing and payment of billings from subcontractors is solely the responsibility of Consultant.

11.3. Consultant shall be responsible for, and defend, indemnify, and hold the City harmless against, any liability, cost, or damage arising out of Consultant's use of such subcontractor(s) and subcontractor's negligent acts, errors, or omissions. Unless otherwise agreed to, in writing, by the City, Consultant shall require that all of Consultant's subcontractors also comply with, and be subject to, the provisions of this **Section 11** and meet the same insurance requirements of Consultant under this Agreement.

Section 12. Consultant Responsibilities

12.1. Consultant must make prompt payment for any claims for labor, materials, or services furnished to Consultant by any person in connection with this Agreement as such claims become due. Consultant shall not permit any liens or claims to be filed or prosecuted against the City on account of any labor or material furnished to or on behalf of Consultant. If Consultant fails, neglects, or refuses to make prompt payment of any such claim, the City may, but shall not be obligated to, pay such claim to the person furnishing the labor, materials, or services and offset the amount of the payment against funds due or to become due to Consultant under this Agreement. The City may also recover any such amounts directly from Consultant.

12.2. Consultant must comply with all applicable Oregon and federal wage and hour laws, including BOLI wage requirements, if applicable. Consultant shall make all required workers compensation and medical care payments on time. Consultant shall be fully responsible for payment of all employee withholdings required by law, including but not limited to taxes, including payroll, income, Social Security (FICA), and Medicaid. Consultant shall also be fully responsible for payment of salaries, benefits, taxes, Industrial Accident Fund contributions, and all other charges on account of any employees. Consultant shall pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167. All costs incident to the hiring of assistants or employees shall be Consultant's responsibility. Consultant shall defend, indemnify, and hold the City harmless from claims for payment of all such expenses.

12.3. No person shall be discriminated against by Consultant or any subcontractor in the performance of this Agreement on the basis of sex, gender, race, color, creed, religion, marital status, age, disability, sexual orientation, gender identity, or national origin. Any violation of this provision

shall be grounds for cancellation, termination, or suspension of the Agreement, in whole or in part, by the City. References to "subcontractor" mean a subcontractor at any tier.

12.4. <u>COVID-19 Safety Measures</u>. Consultant must have a written policy in place to comply with all applicable local, state, and federal laws, regulations, and executive orders related to the COVID-19 coronavirus outbreak to ensure the protection of Consultant's employees and/or subconsultants, City employees, and the public. Consultant must provide its written policy to the City Project Manager at the commencement of the Project. In the event that Consultant is required to stop or delay work due to a COVID-19 related event, Consultant shall not be entitled to any additional payment, remobilization costs, or delay damages.

Section 13. Indemnity

13.1. <u>Indemnification</u>. Consultant acknowledges responsibility for liability arising out of the performance of this Agreement, and shall defend, indemnify, and hold the City harmless from any and all liability, settlements, loss, costs, and expenses in connection with any action, suit, or claim resulting or allegedly resulting from Consultant's negligent acts, omissions, errors, or willful or reckless misconduct pursuant to this Agreement, or from Consultant's failure to perform its responsibilities as set forth in this Agreement. The review, approval, or acceptance by the City, its Project Manager, or any City employee of documents or other work performed, prepared, or submitted by Consultant shall not be considered a negligent act, error, omission, or willful misconduct on the part of the City, and none of the foregoing shall relieve Consultant of its responsibility to perform in full conformity with the City's requirements, as set forth in this Agreement, and to indemnify the City as provided above and to reimburse the City for any and all costs and damages suffered by the City as a result of Consultant's negligent performance of this Agreement, failure of performance hereunder, violation of state or federal laws, or failure to adhere to the standards of performance and care described in Subsection 13.2. Consultant shall defend the City (using legal counsel reasonably acceptable to the City) against any claim that alleges negligent acts, omissions, errors, or willful or reckless misconduct by Consultant. As used herein, the term "Consultant" applies to Consultant and its own agents, employees, and suppliers, and to all of Consultant's subcontractors, including their agents, employees, and suppliers.

13.2. <u>Standard of Care</u>. In the performance of the Services, Consultant agrees to use at least that degree of care and skill exercised under similar circumstances by reputable members of Consultant's profession practicing in the Portland metropolitan area. Consultant will re-perform any Services not meeting this standard without additional compensation. Consultant's re-performance of any Services, even if done at the City's request, shall not be considered as a limitation or waiver by the City of any other remedies or claims it may have arising out of Consultant's failure to perform in accordance with the applicable standard of care of this Agreement and within the prescribed timeframe.

Section 14. Insurance

14.1. <u>Insurance Requirements</u>. Consultant shall maintain insurance coverage acceptable to the City in full force and effect throughout the term of this Agreement. Such insurance shall cover all risks arising directly or indirectly out of Consultant's activities or work hereunder. Any and all

agents, contractors, or subcontractors with which Consultant contracts to work on the Services must have insurance that conforms to the insurance requirements in this Agreement. Additionally, if a subcontractor is an engineer, architect, or other professional, Consultant must require the subcontractor to carry Professional Errors and Omissions insurance and must provide to the City proof of such coverage. The amount of insurance carried is in no way a limitation on Consultant's liability hereunder. The policy or policies maintained by Consultant shall provide at least the following minimum limits and coverages at all times during performance under this Agreement:

14.1.1. <u>Commercial General Liability Insurance</u>. Consultant and all subcontractors shall obtain, at each of their own expense, and keep in effect during the term of this Agreement, comprehensive Commercial General Liability Insurance covering Bodily Injury and Property Damage, written on an "occurrence" form policy. This coverage shall include broad form Contractual Liability insurance for the indemnities provided under this Agreement and shall be for the following minimum insurance coverage amounts: The coverage shall be in the amount of **\$2,000,000** for each occurrence and **\$3,000,000** general aggregate and shall include Products-Completed Operations Aggregate in the minimum amount of **\$2,000,000** per occurrence, Fire Damage (any one fire) in the minimum amount of **\$50,000**, and Medical Expense (any one person) in the minimum amount of **\$10,000**. All of the foregoing coverages must be carried and maintained at all times during this Agreement.

14.1.2. <u>Professional Errors and Omissions Coverage</u>. Consultant agrees to carry Professional Errors and Omissions Liability insurance on a policy form appropriate to the professionals providing the Services hereunder with a limit of no less than **\$2,000,000** per claim. Consultant shall maintain this insurance for damages alleged to be as a result of errors, omissions, or negligent acts of Consultant. Such policy shall have a retroactive date effective before the commencement of any work by Consultant on the Services covered by this Agreement, and coverage will remain in force for a period of at least three (3) years after termination of this Agreement.

14.1.3. <u>Business Automobile Liability Insurance</u>. If Consultant or any subcontractors will be using a motor vehicle in the performance of the Services herein, Consultant shall provide the City a certificate indicating that Consultant and its subcontractors have business automobile liability coverage for all owned, hired, and non-owned vehicles. The Combined Single Limit per occurrence shall not be less than **\$2,000,000**.

14.1.4. <u>Workers Compensation Insurance</u>. Consultant, its subcontractors, and all employers providing work, labor, or materials under this Agreement that are subject employers under the Oregon Workers Compensation Law shall comply with ORS 656.017, which requires them to provide workers compensation coverage that satisfies Oregon law for all their subject workers under ORS 656.126. Out-of-state employers must provide Oregon workers compensation coverage for their workers who work at a single location within Oregon for more than thirty (30) days in a calendar year. Consultants who perform work without the assistance or labor of any employee need not obtain such coverage. This shall include Employer's Liability Insurance with coverage limits of not less than **\$500,000** each accident.

Page 193 of 236

14.1.5. <u>Insurance Carrier Rating</u>. Coverages provided by Consultant and its subcontractors must be underwritten by an insurance company deemed acceptable by the City, with an AM Best Rating of A or better. The City reserves the right to reject all or any insurance carrier(s) with a financial rating that is unacceptable to the City.

14.1.6. <u>Additional Insured and Termination Endorsements</u>. The City will be named as an additional insured with respect to Consultant's liabilities hereunder in insurance coverages. Additional Insured coverage under Consultant's Commercial General Liability, Automobile Liability, and Excess Liability Policies, as applicable, will be provided by endorsement. Additional insured coverage shall be for both ongoing operations via ISO Form CG 2010 or its equivalent, and products and completed operations via ISO Form CG 2037 or its equivalent. Coverage shall be Primary and Non-Contributory. Waiver of Subrogation endorsement via ISO Form CG 2404 or its equivalent shall be provided. The following is included as additional insured: "The City of Wilsonville, its elected and appointed officials, officers, agents, employees, and volunteers." An endorsement shall also be provided requiring the insurance carrier to give the City at least thirty (30) days' written notification of any termination or major modification of the insurance policies required hereunder. Consultant must be an additional insured on the insurance policies obtained by its subcontractors performing work on the Services contemplated under this Agreement.

14.1.7. <u>Certificates of Insurance</u>. As evidence of the insurance coverage required by this Agreement, Consultant shall furnish a Certificate of Insurance to the City. This Agreement shall not be effective until the required certificates and the Additional Insured Endorsements have been received and approved by the City. Consultant agrees that it will not terminate or change its coverage during the term of this Agreement without giving the City at least thirty (30) days' prior advance notice and Consultant will obtain an endorsement from its insurance carrier, in favor of the City, requiring the carrier to notify the City of any termination or change in insurance coverage, as provided above.

14.2. <u>Primary Coverage</u>. The coverage provided by these policies shall be primary, and any other insurance carried by the City is excess. Consultant shall be responsible for any deductible amounts payable under all policies of insurance. If insurance policies are "Claims Made" policies, Consultant will be required to maintain such policies in full force and effect throughout any warranty period.

Section 15. Early Termination; Default

15.1. This Agreement may be terminated prior to the expiration of the agreed upon terms:

15.1.1. By mutual written consent of the parties;

15.1.2. By the City, for any reason, and within its sole discretion, effective upon delivery of written notice to Consultant by mail or in person; or

15.1.3. By Consultant, effective upon seven (7) days' prior written notice in the event of substantial failure by the City to perform in accordance with the terms through no fault of

Consultant, where such default is not cured within the seven (7) day period by the City. Withholding of disputed payment is not a default by the City.

15.2. If the City terminates this Agreement, in whole or in part, due to default or failure of Consultant to perform Services in accordance with the Agreement, the City may procure, upon reasonable terms and in a reasonable manner, services similar to those so terminated. In addition to any other remedies the City may have, both at law and in equity, for breach of contract, Consultant shall be liable for all costs and damages incurred by the City as a result of the default by Consultant, including, but not limited to all costs incurred by the City in procuring services from others as needed to complete this Agreement. This Agreement shall be in full force to the extent not terminated by written notice from the City to Consultant. In the event of a default, the City will provide Consultant with written notice of the default and a period of ten (10) days to cure the default. If Consultant notifies the City that it wishes to cure the default but cannot, in good faith, do so within the ten (10) day cure period provided, then the City may elect, in its sole discretion, to extend the cure period to an agreed upon time period, or the City may elect to terminate this Agreement and seek remedies for the default, as provided above.

15.3. If the City terminates this Agreement for its own convenience not due to any default by Consultant, payment of Consultant shall be prorated to, and include the day of, termination and shall be in full satisfaction of all claims by Consultant against the City under this Agreement.

15.4. Termination under any provision of this Section shall not affect any right, obligation, or liability of Consultant or the City that accrued prior to such termination. Consultant shall surrender to the City items of work or portions thereof, referred to in **Section 19**, for which Consultant has received payment or the City has made payment.

Section 16. Suspension of Services

The City may suspend, delay, or interrupt all or any part of the Services for such time as the City deems appropriate for its own convenience by giving written notice thereof to Consultant. An adjustment in the time of performance or method of compensation shall be allowed as a result of such delay or suspension unless the reason for the delay is within Consultant's control. The City shall not be responsible for Services performed by any subcontractors after notice of suspension is given by the City to Consultant. Should the City suspend, delay, or interrupt the Services and the suspension is not within Consultant's control, then the City shall extend the time of completion by the length of the delay.

Section 17. Modification/Addendum

Any modification of the provisions of this Agreement shall not be enforceable unless reduced to writing and signed by both the City and Consultant. A modification is a written document, contemporaneously executed by the City and Consultant, which increases or decreases the cost to the City over the agreed Compensation Amount in **Section 4** of this Agreement, or changes or modifies the Scope of Work or the time for performance. No modification shall be binding or effective until executed, in writing, by both Consultant and the City. In the event Consultant receives any communication of whatsoever nature from the City, which communication Consultant contends gives

rise to any modification of this Agreement, Consultant shall, within five (5) days after receipt, make a written request for modification to the City's Project Manager in the form of an Addendum. Consultant's failure to submit such written request for modification in the form of an Addendum shall be the basis for refusal by the City to treat said communication as a basis for modification or to allow such modification. In connection with any modification to this Agreement affecting any change in price, Consultant shall submit a complete breakdown of labor, material, equipment, and other costs. If Consultant incurs additional costs or devotes additional time on Project tasks, the City shall be responsible for payment of only those additional costs for which it has agreed to pay under a signed Addendum. To be enforceable, the Addendum must describe with particularity the nature of the change, any delay in time the Addendum will cause, or any increase or decrease in the Compensation Amount. The Addendum must be signed and dated by both Consultant and the City before the Addendum may be implemented.

Section 18. Access to Records

The City shall have access, upon request, to such books, documents, receipts, papers, and records of Consultant as are directly pertinent to this Agreement for the purpose of making audit, examination, excerpts, and transcripts during the term of this Agreement and for a period of four (4) years after termination of the Agreement, unless the City specifically requests an extension. This clause shall survive the expiration, completion, or termination of this Agreement.

Section 19. Property of the City

19.1. Originals or certified copies of the original work forms, including but not limited to documents, drawings, tracings, surveying records, mylars, spreadsheets, charts, graphs, modeling, data generation, papers, diaries, inspection reports, and photographs, performed or produced by Consultant under this Agreement shall be the exclusive property of the City and shall be delivered to the City prior to final payment. Any statutory or common law rights to such property held by Consultant as creator of such work shall be conveyed to the City upon request without additional compensation. Upon the City's written approval, and provided the City is identified in connection therewith, Consultant may include Consultant's work in its promotional materials. Drawings may bear a disclaimer releasing Consultant from any liability for changes made on the original drawings and for reuse of the drawings subsequent to the date they are turned over to the City.

19.2. Consultant shall not be held liable for any damage, loss, increased expenses, or otherwise, caused by or attributed to the reuse by the City or its designees of all work performed by Consultant pursuant to this Agreement without the express written permission of Consultant.

Section 20. Notices

Any notice required or permitted under this Agreement shall be in writing and shall be given when actually delivered in person or forty-eight (48) hours after having been deposited in the United States mail as certified or registered mail, addressed to the addresses set forth below, or to such other address as one party may indicate by written notice to the other party.

To City:	City of Wilsonville Attn: Zach Weigel, City Engineer 29799 SW Town Center Loop East Wilsonville, OR 97070
To Consultant:	Murraysmith, Inc. Attn: Eric Levison 888 SW 5 th Avenue, Suite 1170

Portland, OR 97204

Section 21. Miscellaneous Provisions

21.1. <u>Integration</u>. This Agreement, including all exhibits attached hereto, contains the entire and integrated agreement between the parties and supersedes all prior written or oral discussions, representations, or agreements. In case of conflict among these or any other documents, the provisions of this Agreement shall control, and the terms most favorable to the City, within the City's sole discretion, will apply.

21.2. <u>Legal Effect and Assignment</u>. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and assigns. This Agreement may be enforced by an action at law or in equity.

21.3. <u>No Assignment</u>. Consultant may not assign this Agreement, nor delegate the performance of any obligations hereunder, unless agreed to in advance and in writing by the City.

21.4. <u>Adherence to Law</u>. In the performance of this Agreement, Consultant shall adhere to all applicable federal, state, and local laws (including the Wilsonville Code and Public Works Standards), including but not limited to laws, rules, regulations, and policies concerning employer and employee relationships, workers compensation, and minimum and prevailing wage requirements. Any certificates, licenses, or permits that Consultant is required by law to obtain or maintain in order to perform the Services described on **Exhibit A**, shall be obtained and maintained throughout the term of this Agreement.

21.5. <u>Governing Law</u>. This Agreement shall be construed in accordance with and governed by the laws of the State of Oregon, regardless of any conflicts of laws. All contractual provisions required by ORS Chapters 279A, 279B, 279C, and related Oregon Administrative Rules to be included in public agreements are hereby incorporated by reference and shall become a part of this Agreement as if fully set forth herein.

21.6. <u>Jurisdiction</u>. Jurisdiction and venue for any dispute will be in Clackamas County Circuit Court.

21.7. <u>Legal Action/Attorney Fees</u>. If a suit, action, or other proceeding of any nature whatsoever (including any proceeding under the U.S. Bankruptcy Code) is instituted in connection with any controversy arising out of this Agreement or to interpret or enforce any rights or obligations hereunder, the prevailing party shall be entitled to recover attorney, paralegal, accountant, and other

expert fees and all other fees, costs, and expenses actually incurred and reasonably necessary in connection therewith, as determined by the court or body at trial or on any appeal or review, in addition to all other amounts provided by law. If the City is required to seek legal assistance to enforce any term of this Agreement, such fees shall include all of the above fees, whether or not a proceeding is initiated. Payment of all such fees shall also apply to any administrative proceeding, trial, and/or any appeal or petition for review.

21.8. <u>Nonwaiver</u>. Failure by either party at any time to require performance by the other party of any of the provisions of this Agreement shall in no way affect the party's rights hereunder to enforce the same, nor shall any waiver by the party of the breach hereof be held to be a waiver of any succeeding breach or a waiver of this nonwaiver clause.

21.9. <u>Severability</u>. If any provision of this Agreement is found to be void or unenforceable to any extent, it is the intent of the parties that the rest of the Agreement shall remain in full force and effect, to the greatest extent allowed by law.

21.10. <u>Modification</u>. This Agreement may not be modified except by written instrument executed by Consultant and the City.

21.11. <u>Time of the Essence</u>. Time is expressly made of the essence in the performance of this Agreement.

21.12. <u>Calculation of Time</u>. Except where the reference is to business days, all periods of time referred to herein shall include Saturdays, Sundays, and legal holidays in the State of Oregon, except that if the last day of any period falls on any Saturday, Sunday, or legal holiday observed by the City, the period shall be extended to include the next day which is not a Saturday, Sunday, or legal holiday. Where the reference is to business days, periods of time referred to herein shall exclude Saturdays, Sundays, and legal holidays observed by the City. Whenever a time period is set forth in days in this Agreement, the first day from which the designated period of time begins to run shall not be included.

21.13. <u>Headings</u>. Any titles of the sections of this Agreement are inserted for convenience of reference only and shall be disregarded in construing or interpreting any of its provisions.

21.14. <u>Number, Gender and Captions</u>. In construing this Agreement, it is understood that, if the context so requires, the singular pronoun shall be taken to mean and include the plural, the masculine, the feminine and the neuter, and that, generally, all grammatical changes shall be made, assumed, and implied to individuals and/or corporations and partnerships. All captions and paragraph headings used herein are intended solely for convenience of reference and shall in no way limit any of the provisions of this Agreement.

21.15. <u>Good Faith and Reasonableness</u>. The parties intend that the obligations of good faith and fair dealing apply to this Agreement generally and that no negative inferences be drawn by the absence of an explicit obligation to be reasonable in any portion of this Agreement. The obligation to be reasonable shall only be negated if arbitrariness is clearly and explicitly permitted as to the

specific item in question, such as in the case of where this Agreement gives the City "sole discretion" or the City is allowed to make a decision in its "sole judgment."

21.16. <u>Other Necessary Acts</u>. Each party shall execute and deliver to the other all such further instruments and documents as may be reasonably necessary to carry out this Agreement in order to provide and secure to the other parties the full and complete enjoyment of rights and privileges hereunder.

21.17. <u>Interpretation</u>. As a further condition of this Agreement, the City and Consultant acknowledge that this Agreement shall be deemed and construed to have been prepared mutually by each party and it shall be expressly agreed that any uncertainty or ambiguity existing therein shall not be construed against any party. In the event that any party shall take an action, whether judicial or otherwise, to enforce or interpret any of the terms of the Agreement, the prevailing party shall be entitled to recover from the other party all expenses which it may reasonably incur in taking such action, including attorney fees and costs, whether incurred in a court of law or otherwise.

21.18. <u>Entire Agreement</u>. This Agreement and all documents attached to this Agreement represent the entire agreement between the parties.

21.19. <u>Counterparts</u>. This Agreement may be executed in one or more counterparts, each of which shall constitute an original Agreement but all of which together shall constitute one and the same instrument.

21.20. <u>Authority</u>. Each party signing on behalf of Consultant and the City hereby warrants actual authority to bind their respective party.

The Consultant and the City hereby agree to all provisions of this Agreement.

CONSULTANT:

CITY:

MURRAYSMITH, INC.

Print Name:_____

Employer I.D. No.

As Its: As Its:

CITY OF WILSONVILLE

APPROVED AS TO FORM:

Ryan Adams, Assistant City Attorney City of Wilsonville, Oregon

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By:

Print Name:

EXHIBIT A

SCOPE OF WORK BOECKMAN ROAD CORRIDOR PROJECT OWNER'S REPRESENTATIVE SERVICES WILSONVILLE, OREGON

CITY PROJECT # 4212

Introduction

The City of Wilsonville (City) is contracting with Murraysmith (Consultant) to perform as Owner's Representative (OR) and augment City staff for the Boeckman Road Corridor Project (Project). This scope is for the Pre-PDB Contractor Award phase of the project and includes advising and assisting the City in chartering the project and developing Progressive Design-Build (PDB) systems and processes, assisting with the development of the RFP and PDB contract and selection of the most qualified PDB team, and working through the preliminary stages of the design phase to engage the PDB team, assess the proposed design schedule, and scope the next phase of the OR contract (to be included via amendment).

Project Understanding

The project is being executed using PDB delivery and will be managed via multiple Guaranteed Maximum Price (GMP) work packages. The project has 4 distinct subprojects, which include:

Subproject 1: Boeckman Dip Bridge (CIP 4212) Subproject 2: Boeckman Road Street Improvement (CIP 4205) Subproject 3: Canyon Creek/Boeckman Traffic Signal (CIP 4206) Subproject 4: Boeckman Road Sanitary Sewer (CIP 2012)

This contract addresses the OR professional services for the Pre-PDB Contractor Award phase. Additional amendments to this contract to complete the remaining RFP tasks are anticipated after the PDB team is on board and establishes a design and construction schedule.

Scope of Services

Task 1 – Project Management & Coordination

Consultant will lead internal team, coordinate with subconsultant partners, and monitor OR scope, schedule and budget. Consultant will submit invoices and corresponding status reports on a monthly basis to the City.

Deliverables

Monthly invoices with status reports

Task 1 Assumptions

Duration for this task scope is assumed to be November 2021 – June 2022 (8 months)

Task 2 – Pre-PDB Contractor Award OR Services

Consultant will integrate with City's project team and provide Owner's Representative, PDB Technical Advisor, and key Subject Matter Experts (SMEs) during this phase. Primary tasks and milestones are identified below with appropriate key staff denoted when applicable. Public Outreach has been integrated into Task 1 for the Public Outreach Plan development and additional public outreach scope is included in Task 3 and Task 4 for other services as needed. This task is comprised of the following work items:

Request for Proposals

- Facilitate project kickoff meeting with City, including agenda and minutes
- Facilitate Team/Project charter development with City and prepare draft and final charter document
- Establish PDB/PM tools and processes and documentation control processes
- Lead and attend weekly meetings with City
- Lead and attend internal and external stakeholder meetings
- Review and validate overall project budget
- Meet with City PM and attorney to review current contract preferences
- Evaluate PDB contract templates and provide recommended modifications to City
- Assist in developing final PDB contract template
- Engage SMEs for the following disciplines:
 - **Bridge** (review preliminary reports as available and provide suggested information for PDB RFP)
 - Environmental/Water Resources (review preliminary reports as available, make initial contact with key permitting agencies, recommend likely project permit needs, provide suggested information for PDB RFP)

- **Franchise Utility Coordinator** (review preliminary reports as available, engage franchise utilities in early work meetings, collect preliminary utility information, provide suggested information for PDB RFP)
- Independent Cost Estimator (review current cost estimates, provide updates, and develop proposed program spending plan).
- Provide City with list of potential designers and contractors for outreach; assist with outreach as needed.
- Meet with City PM to review PDB RFP preferences, outline, and proposal requirements
- Evaluate PDB RFP templates and provide recommended modifications to City
- Develop RFP in conjunction with City PM
- Prepare clarifications or addenda during advertisement

Deliverables

- Meeting agendas and minutes
- Outreach contact information
- Project charter
- PDB tools, document control system
- Updated cost estimate and program spending plan
- SME reviews and recommendations
- Contract review recommendations
- Final PDB contract template
- RFP review recommendations and edits
- Final RFP document
- RFP considerations in memo form

Pre-Submittal Meeting

• Develop pre-submittal meeting agenda and presentation; attend and participate in meeting.

Deliverables

• Pre-submittal meeting agenda, presentation materials, and minutes

Proposal Evaluation

- Lead review process with City staff and engage SMEs as necessary
- Prepare and provide evaluation form for selection committee
- Assemble scoring data to be provided to PDB teams
- Attend and participate in PDB team interviews and scoring

Deliverables

- Proposal evaluation form
- Condensed PDF scoring summaries
- PDB interview agendas and minutes

• Final scoring matrix

Selection Results Debriefing

• Prepare final scoring matrix, award letter, and assist with PDB debriefs

Deliverables

- Scoring matrix
- Letter of award
- Meeting notes from debrief

Contract Negotiations and Award

- Attend and lead kickoff negotiation meeting (and any required follow-up meetings) with City and selected PDB team
- Engage SMEs for scope/budget review for design-phase services
- Prepare procurement technical memorandum for City to share with Council and stakeholders
- Prepare presentation materials for City Council

Deliverables

- Meeting agendas and minutes
- SME budget review comments and recommendations
- Technical memo summarizing negotiations
- Council presentation materials

Public Outreach

- Work with City staff and PM to develop public outreach plan
- Determine level of effort from City and Consultant to engage public and implement plan for duration of project

Deliverables

• Develop plan to address website content, signage, media outlets, and public meetings

Task 2 Assumptions

Duration for this task scope is assumed to be November 2021 – March 2022 (5 months)

Task 3 – PDB Contractor Pre-Construction Design Phase OR Services

Consultant will assist City in early stages of PDB Pre-Construction Phase to integrate PDB team and establish processes and schedule to advance toward Construction Phase. This task serves to provide Consultant budget to clarify schedule and OR needs for duration of PDB Pre-Construction Phase, to be added via Contract Amendment.

Develop Project Charter

- Attend and lead meetings with City, stakeholders and PDB team to formalize integration, update project charter and other project documents and processes.
- Assist City in establishing systems and process for use by Owner and PDB teams, including communication protocol, document control, roles and responsibilities, review processes and timelines, and decision-making authority matrix.

Deliverables

- Meeting agendas and minutes
- Updated charter document
- Updated systems and process documents

Preliminary Engineering Review

- Coordinate and schedule all meetings and prepare agendas and minutes
- Attend and lead weekly meetings and activity-specific meetings
- Develop risk matrix and change log
- Review Preliminary engineering report review SME's
- Coordinate reviews with City staff and internal/external stakeholders

Deliverables

- Memorandum on engineering reviews
- Meeting agendas and notes
- Risk matrix
- Change log

Public Involvement

• Assist City staff in implementing public outreach plan, as needed.

Deliverables

- Meeting agendas and minutes
- Public outreach materials

Scope Remaining Pre-Construction Phase OR Services

- Based on information gathered during initial three months of Pre-Construction phase, Consultant will scope remaining OR services and negotiate fee with City for full duration of Pre-Construction phase up to Construction Phase commencing. These services may include:
 - O Continuation of existing Task 3 services
 - Design reviews at stage gates (30%, 60%, 90%, etc)
 - O Independent cost estimate pricing and GMP negotiations
 - O Assistance with public art/aesthetic design treatment engagement and selection

Construction Document Development (*Reserved for future amendment***)**

• Assist City with PDB team oversight for design development, including meetings, SME design peer review

PDB Contractor Construction Proposal (Reserved for future amendment)

• Assist City reviewing and negotiating GMPs, SME review, ICE review, and other construction proposal related tasks (to be determined at future time of amendment)

Task 3 Assumptions

- Duration for this task scope is assumed to be April 2022 June 2022 (3 months)
- Effort to scope future contract amendments will not be charged to the City

Task 4 – PDB Construction Management Services (*Reserved for future amendment*)

Construction Kick off Meeting (Reserved for future amendment)

Prepare for and lead construction kickoff meeting with City, PDB team and project stakeholders

Construction Management/Administration/Inspection (*Reserved for future amendment*)

• Perform all construction management and administration duties and supplement City inspection as needed. Level of effort and scope to be determined at time of construction.

Reimbursable Expenses

Consultant reimbursable expenses will be charged as follows:

• Mileage at GSA rate \$0.56/mile

Budget

Consultant proposes to perform this work on a time and expenses basis with a total not to exceed amount of \$479,343 in accordance with the attached Fee Estimate.

Project Schedule

The work covered by this scope of work is anticipated to commence in early November, 2021 and complete by June 30, 2022. Future amendments are expected to extend the overall completion date.

EXHIBIT B

BOECKMAN ROAD CORRIDOR PROJECT OWNERS REPRESENTATIVE SERVICES PROPOSED FEE ESTIMATE

			3	LABOR CLASSIFICATION (ON (HOURS)																
												Subconsultants	ants								
	Principal II	Construction Manager IV	Professional Engineer VIII	Cost Estimator III	Project Manager V	Professional P Engineer VIII 1	Professional Adi Engineer III	Administrative I	Hours	Labor	B Quincy	arney & Worth P	NV5 Str	Common street Kittelson	Multiplier ton % Markup	Subconsultant Total with Markup	with Expenses	CADD Units \$18/hr	tts GIS Units \$10/hr		Total
	\$270	\$178	\$202	\$270	\$270	\$202	\$157	\$89													
Average Billing Rate Estimated per Classification/Staff	\$279	\$184	\$209	\$279	\$279	\$209	\$162	\$92													
Staff Name	Machan	Levison	Sabourin	Griesinger	Toledo		Ebbighausen	Gillis				_									
Task 1 - PROJECT MANAGEMENT AND COORDINATION																					
Task 1 Project Management and Coordination	80							16	\$ 96	23,830						10 \$	- 5	\$ -	- 5	- 5 2	23,830
Task 1 Subtotal	8	•	•	•	•	•	•	16	s 96	23,830 \$	•	•	•	\$ '		\$	\$.	s .	s	- \$ 23	23,830
Task 2 - PRE-PDB CONTRACTOR AWARD OR SERVICES																					
Task 2 Pre-PDB Contractor Award OR Services	04	850	225	8	40	10	50		1295 \$	258,564 \$	8,000 \$	009/6				10 \$ 176	17,600 \$ 2,	2,324 \$	\$ -	- \$ 27	278,488
Task 2 Subtotal	4	850	225	80	4	9	20	•	1295 \$	258,564 \$	8,000 \$	8,000 \$ 9,600 \$		\$ ·	•	\$ 17,6	17,600 \$ 2,3	2,324 \$	s .	 \$ 278,488 	8,488
					-																
Task 3 - PDB CONTRACTOR PRE-CONSTRUCTION DESIGN PHASE OR																					
Task 3 PDB Contract or Pre-Construction Design Phase OR Services	24	510	135	07	40	10	30		\$ 682	158,210 \$	8,000 \$	009/6				10 \$ 17,6	17,600 \$ 1,	1,215 \$	\$.	- \$ 17	177,025
Task 3 Subtotal	24	510	135	40	9	9	30	•	789 \$	158,210 \$	8,000 \$	8,000 \$ 9,600 \$		\$ ·	•	\$ 17,6	17,600 \$ 1,2	1,215 \$	s .	- \$ 177,025	7,025
TOTAL - ALT TACKS	***	U381			ş	ş	8		ر ۲۲۵۵	, 103 D11	000 35	2 000 00 2 000 20	•	•			5 JUU 6			575 ULY 9	

Murraysmith

A regular meeting of the Wilsonville City Council was held at the Wilsonville City Hall beginning at 7:00 p.m. on Monday, October 18, 2021. Mayor Fitzgerald called the meeting to order at 7:00 p.m., followed by roll call and the Pledge of Allegiance.

The following City Council members were present: Mayor Fitzgerald Council President Akervall Councilor Lehan Councilor West Councilor Linville – Excused

Staff present included: Bryan Cosgrove, City Manager Barbara Jacobson, City Attorney Kimberly Veliz, City Recorder Chris Neamtzu, Community Develop. Director Zoe Mombert, Assistant to the City Manager Keith Katko, Assistant Finance Director Dan Pauly, Planning Manager Mike Nacrelli, Civil Engineer Shasta Sasser, Operations Manager

Motion to approve the order of the agenda.

Motion: Councilor West moved to approve the order of the agenda as read. Councilor Lehan seconded the motion.

Vote: Motion carried 4-0.

SUMMARY OF VOTESMayor FitzgeraldYesCouncil President AkervallYesCouncilor LehanYesCouncilor WestYesCouncilor LinvilleExcused

MAYOR'S BUSINESS

A. Upcoming Meetings

Mayor Fitzgerald recalled the next City Council meeting would be held Monday, November 1, 2021.

The Mayor then provided an update on activities that had occurred since the Council last met.

PAGE 1 OF 12

Fall Harvest Festival

- The Mayor shared she attended the City sponsored Fall Harvest Festival. Where the Kitakata Sister City Advisory Board and the Library Foundation each had booths.
- Activities at the event included costume parade, free pumpkins, magician, live music, and a number of other activities.
- Mayor Fitzgerald encouraged those who were unable to attend to do so next year.

Willamette Falls Locks Commission

- The Mayor explained Councilor Linville was excused from the City Council meeting. She recalled that Councilor Linville serves on the Willamette Falls Locks Commission as representative of the City Council and City of Wilsonville. Furthermore, Ms. Linville was working with the Commission to create the new Willamette Falls Locks Authority.
- She further, recalled that the Willamette Falls Locks Authority was created by the 2021 legislature as a public-private corporation to reopen and operate the Locks, which have been closed since 2011 due to extreme maintenance conditions.
- The Mayor reported the Commission is now considering prospective nominees. Councilor Linville had nominated two excellent, prospective nominees, including:
 - City Councilor Charlotte Lehan, who has extensive experience with Willamette River history and issues, including the Locks and proposed National Heritage Area. In addition to serving as a City Councilor, Councilor Lehan has also served as a former Mayor of Wilsonville and former Clackamas County Commissioner.
 - Michael Bernert, who is the Vice President of Wilsonville Concrete and Marine Industrial. The Bernert family's operation along the Willamette River is a longtime Wilsonville business that was negatively impacted by the closure of the Locks. Michael would bring excellent industrial-marine and river-business perspectives to the Authority.
- The Mayor shared that Councilor Lehan had accepted the nomination and that Mr. Bernert was still considering the nomination.

Oregon Aviation Board Planning Session

- The Mayor was unable to attend the meeting last week however, was able to watch it. The Mayor stated she was dismayed to hear Aviation Board and staff announcements indicated they have pretty much assumed a lot of development and other things regarding the airport. Mayor reminded the upcoming airport master planning process has not even started yet.
- The Mayor shared Council was encouraged by the fact that there would be a Citizen Involvement Committee to participate in the long-range new master plan development.
- Master planning process, funded by taxpayers at a cost of almost one million dollars with the purpose to determine if data and community sentiment justify more tax funded subsidies to the airport for expansion.
- The Mayor reported, in advance of that process even starting, the Aviation Department announced plans to spend \$33 to \$37 million for a taxpayer funded expansion of the Aurora State Airport starting in Fiscal Year 2024 that includes a major runway extension.
- The Mayor explained the participant advisory committee has not yet started but would start soon. Furthermore, City Council looks forward to strong citizen participation to listen observe, and contribute to the planning process.

PAGE 2 OF 12

- The Mayor explained that her question as she participates is has the Aviation Department really decided the future expansion of the Aurora State Airport even before the master plan process. The Mayor hopes that is not the case.
- The prior 2011 Aurora State Airport Master Plan was found by the Oregon Court of Appeals to be invalid due to violations of state land-use and public-process laws.
- The Mayor noted that a pre-determined outcome of the Aurora State Airport master plan by the Aviation Department is exactly what caused all of the conflict regarding the 2011 Master Plan and the City does not want to see that repeated.
- The Mayor described she desires to see good representation of citizen input as a part of the process.
- The data and facts ascertained in a formal public process master plan would include getting input from local area citizens and the neighborhood community. Therefore, the Mayor would diligently watch for and advocate for the interests of all of the citizens of Wilsonville as the process proceeds.

Washington County Coordinating Committee

- Earlier in the day, the Mayor attended the Washington County Coordinating Committee meeting where she heard a presentation by Oregon Department of Transportation (ODOT) on tolling and the subsequent Regional Mobility Pricing Project.
- The Mayor described that her question for ODOT was what the public engagement plan is.
- ODOT on the and I-205 Toll Project analysis. This is one in a long series of updates that ODOT is presenting around the region regarding tolling and congestion management on regional highway facilities including I-205, 217 and I-5 all the way from the Boone Bridge to the Rose Quarter and the Interstate Bridge.
- The Mayor informed they could attend public engagement opportunities and workshop to learn more. The Mayor recommended those interested visit the ODOT website to learn more. She pointed out ODOT staff indicated they want to do more in-person interactions and those meetings are in the planning stages.
- The Mayor expressed her commitment to learn about the project and the benefit to the citizens.
- It was explained that the City had submitted testimony regarding the project.
- Mid-November is a deadline for communities to submit testimony for the National Environmental Policy Act (NEPA) process regarding I-205. Moreover, the City would be submitting concerns.
- Also, discussed at the Washington County Major Streets Transportation Improvement Program or MS TIP.
 - The group reviewed a system of Countywide Interest Map, Eligibility Criteria, Outreach efforts
 - Explained there are several streets in Wilsonville that are eligible for this program, including portions of Day Rd, Boones Ferry, Elligsen Road and others.

Upcoming Meetings

Mayor Fitzgerald reported on the following upcoming meetings and events:

CITY COUNCIL MEETING MINUTES

PAGE 3 OF 12

Page 210 of 236

CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

C4 Metro Subcommittee

- Meeting date is October 20, 2021.
- I-205 Toll Project: Regional Transportation Plan (RTP) Amendment.
- 2021 Transportation System Management & Operations Strategy, also known as TiS-MO.

Clackamas County Mayors & Chair Meeting

LOC Conference & Membership Meeting

• Voting for League of Oregon Cities board members and bylaws changes.

Bus on Shoulder Pilot Project Kick-Off Event

- The kickoff event scheduled for October 26, 2021.
- The "Bus on Shoulder" is a one-year pilot project that authorizes SMART buses to use the highway shoulder in clearly marked areas when traffic drops below 35 mph.

Wilsonville Civics Academy

- Application deadline October 31, 2021.
- The Civics Academy is a six-month program that meets for 3 hours once month.
- During the Civics Academy participants, learn how the City works and about roles for citizen participation on City boards.
- The program is open to residents and kicks off in December 2021. Applications are available on the City of Wilsonville's website in English and Spanish.

COMMUNICATIONS

A. Kitakata Sister City Advisory Board Work Plan

Erica Behler, Recreation Coordinator along with Kitakata Sister City Advisory Board Chair Ashleigh Sumerlin displayed a PowerPoint, which had been made part of the record. The duo presented the Kitakata Sister City Advisory Board's updated vision and goals. They also shared the plans to broaden the cultural exchange program with Kitakata, Japan.

Councilor's comments and questions followed the presentation.

CITIZEN INPUT & COMMUNITY ANNOUNCEMENTS

This is an opportunity for visitors to address the City Council on items not on the agenda. It is also the time to address items that are on the agenda but not scheduled for a public hearing. Staff and the City Council will make every effort to respond to questions raised during citizens input before tonight's meeting ends or as quickly as possible thereafter. Please limit your comments to three minutes.

There was no public input.

CITY COUNCIL MEETING MINUTES

PAGE 4 OF 12

Page 211 of 236 CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

COUNCILOR COMMENTS

A. Council President Akervall

Council President Akervall announced she attended the Oregon Government Finance Officers Association annual conference. At the conference, she presented a session on Urban Renewal Using Creativity and Diversity to Benefit Communities with representatives from Prosper Portland and the City of Gresham.

Reported she is the alternate for the Regional Water Providers Consortium. Councilor Akervall shared the consortium held a meeting on October 6, 2021, which she was unable to attend. However, staff that represented the City at the meeting shared the following was discussed:

- Proposed budget reallocations approved.
- City of Scappoose requested to join the consortium.
- Consortium projecting a possible fee increase.

Earlier in the day, the Council President Akervall attended the Washington County Coordinating Committee.

Council President Akervall planned to attend the League of Oregon Cities (LOC) annual conference and the LOC Women's Caucus on October 22, 2021.

She also planned to attend the Willamette Intake Facilities board meeting on October 25, 2021.

Lastly, Councilor Akervall announced that Parks and Recreation was accepting donations of nonperishable food, toiletries for Breast Cancer Awareness month until October 22, 2021.

B. Councilor Lehan

Councilor Lehan recollected she attended the last Tourism Promotion Committee meeting, where JayRay presented. She found it encouraging learning of the increased business that hoteliers have been experiencing.

Councilor Lehan then reported on the following upcoming events scheduled for October 23, 2021:

- Bulky Waste Day from 9:00 a.m. to 1:00 p.m.
- Daffodil Day from 9:00 a.m. to 12:00 a.m.
- Portrait Day at 10:00 a.m. at Art Tech
- C. Councilor West

Councilor West reflected over the challenges for hospital employees over the last couple of weeks. Councilor West recounted that he worked at OHSU in the cardiology unit. He explained staff was being diverted to try to deal with bedside issues and staffing shortages. Councilor West encouraged everybody to dig deep and do self-evaluation and ask the tough questions of their healthcare providers about getting the COVID vaccination. Councilor West acknowledged that there is still some hesitancy from the public. He commented that the vaccine is the most safe and effective way to combat the virus.

Councilor West commented that people do not need to be stigmatized because of their vaccination status. Councilor West encouraged anybody who has questions about the COVID vaccine to speak with a trusted healthcare advisor to help walk them through the decision.

Councilor West recalled the issue of COVID was on the forefront of his mind because the healthcare community and nurses are working crazily. Councilor West expressed gratitude to his colleagues for the work they are doing pulling insane shifts and caring for their community.

He thanked Mayor Fitzgerald for her advocacy regarding tolling issues in the community and for asking the important questions. Councilor West mentioned his concerns with tolling and the potential of diversion of traffic, increased traffic, public safety, cost to community, and road maintenance

Councilor West hopes to be able to attend upcoming meeting regarding the Oregon Toll Program for additional information. Moreover, he hopes that if it is necessary Council will advocate with a passion in the same way Council has done with the Aurora Airport to protect the interests of Wilsonville.

Councilor West announced that on October 23, 2021 Wilsonville Friends of Trees is holding a volunteer opportunity to do tree planting here in Wilsonville. He encouraged those interested to visit the Friends of Trees website and/or Twitter account for additional information.

D. Councilor Linville - Excused

CONSENT AGENDA

Ms. Jacobson read the titles of the Consent Agenda items into the record.

A. Resolution No. 2934

A Resolution Of The City Of Wilsonville Authorizing The City Manager To Amend The Professional Services Agreement With JayRay Ads & PR, Inc., For 'Explore Wilsonville' Tourism Promotion And Development And Destination Marketing Program.

B. Resolution No. 2936

A Resolution Of The City Of Wilsonville Authorizing The City Manager To Execute An Amendment To The Construction Manager/General Contractor (CM/GC) Contract With Kiewit Infrastructure West Co. To Procure A New Ozone Generation System For The Willamette River Water Treatment Plant Expansion Project (Capital Improvement Project #1144).

C. Minutes of the October 4, 2021 City Council meeting.

PAGE 6 OF 12

CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

<u>Motion:</u> Councilor Lehan moved to approve the Consent Agenda as read. Councilors Akervall and West seconded the motion.

Vote: Motion carried 4-0.

SUMMARY OF VOTES	
Mayor Fitzgerald	Yes
Council President Akervall	Yes
Councilor Lehan	Yes
Councilor West	Yes
Councilor Linville	Excused

NEW BUSINESS

A. Resolution No. 2928

A Resolution Of The City Of Wilsonville Approving An Amendment To The Planning Division Fee Schedule Adding Fees For Middle Housing Land Divisions And Further Refining The Fee Schedule For Wireless Communication Facilities.

Ms. Jacobson read the title of Resolution No. 2928 into the record.

Dan Pauly, Planning Manager summarized the staff report.

- <u>Motion:</u> Councilor West moved to approve Resolution No. 2928. Councilor Lehan seconded the motion.
- Vote: Motion carried 4-0.

SUMMARY OF VOTESMayor FitzgeraldYesCouncil President AkervallYesCouncilor LehanYesCouncilor WestYesCouncilor LinvilleExcused

B. Resolution No. 2929

A Resolution Of The City Of Wilsonville Amending The Old Town Neighborhood Plan And Continuing To Accept The Old Town Neighborhood Plan As A Non-Regulatory Planning Tool.

Ms. Jacobson read the title of Resolution No. 2929 into the record.

Dan Pauly, Planning Manager summarized the staff report.

Clarifying questions ensued.

CITY COUNCIL MEETING MINUTES

PAGE 7 OF 12

CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

<u>Motion:</u> Councilor Lehan moved to approve Resolution No. 2929. Councilor Akervall seconded the motion.

Vote: Motion carried 4-0.

SUMMARY OF VOTES	
Mayor Fitzgerald	Yes
Council President Akervall	Yes
Councilor Lehan	Yes
Councilor West	Yes
Councilor Linville	Excused

C. Resolution No. 2930

A Resolution Of The City Of Wilsonville Authorizing The City Manager To Enter Into An Interim Development Agreement With Taylor Morrison Northwest, LLC Regarding Design, Funding And Construction Of Regional Parks 5 And 6 In The Clermont Subdivision, Villebois.

Ms. Jacobson read the title of Resolution No. 2930 into the record.

Chris Neamtzu, Community Development Director provided the staff report and PowerPoint. Both of which have been added to the record.

After the presentation, Mr. Neamtzu answered Council's questions.

<u>Motion:</u> Councilor Akervall moved to approve Resolution No. 2930. Councilor West seconded the motion.

Council discussion ensued.

Vote: Motion carried 4-0.

SUMMARY OF VOTES	
Mayor Fitzgerald	Yes
Council President Akervall	Yes
Councilor Lehan	Yes
Councilor West	Yes
Councilor Linville	Excused

CONTINUING BUSINESS

A. Ordinance No. 850 – 2nd Reading

An Ordinance Of The City Of Wilsonville Adopting The Wilsonville Town Center Streetscape Plan As An Appendix To The Wilsonville Town Center Plan, A Sub-Element Of The Comprehensive Plan.

PAGE 8 OF 12

Ms. Jacobson read the title of Ordinance No. 850 into the record on second reading.

Mayor Fitzgerald provided the legislative hearing format for the ordinance on second reading.

Ms. Jacobson shared staff had received no further comments on Ordinance No. 850 since the first reading

Motion: Councilor West moved to adopt Ordinance No. 850 on second reading. Councilor Lehan seconded the motion.

Vote: Motion carried 4-0.

Yes
Yes
Yes
Yes
Excused

B. Ordinance No. 851 – 2^{nd} Reading

An Ordinance Of The City Of Wilsonville Amending The Text Of The Wilsonville Comprehensive Plan, Text Of The Development Code, The Frog Pond West Master Plan, And The Villebois Village Master Plan; Adopting A Legislative Zone Map Amendment To Rezone Residential Properties In The Old Town Neighborhood To The Newly Established Old Town Residential Zone; And Declaring Development In Planned Development Residential Zones As Legal Non-Conforming To Increase The Allowance Of Middle Housing In Wilsonville.

Ms. Jacobson read the title of Ordinance No. 851 into the record on second reading.

Mayor Fitzgerald provided the legislative hearing format for the ordinance on second reading.

Ms. Jacobson shared staff had received no further comments on Ordinance No. 851 since the first reading

Motion: Councilor Lehan moved to adopt Ordinance No. 851 on second reading. Councilor Akervall seconded the motion.

Council President Akervall asked a procedural question regarding the language of the motion. Ms. Akervall asked whether the motion on second reading needed to include the verbiage included in the packet. As the motion listed in the staff report, states for the ordinance to be adopted on second reading with edits to Exhibit C as outlined in the memorandum dated October 1, 2021.

The City Attorney acknowledged that the motion should include the additional language.

PAGE 9 OF 12

CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

<u>Amended Motion:</u> Councilor Lehan moved to amend the motion to adopt Ordinance No. 851 on second reading with edits to Exhibit C as outlined in the memorandum dated October 1, 2021. Councilor Akervall seconded the motion.

Council discussion ensued.

Vote: Motion carried 4-0.

SUMMARY OF VOTES	
Mayor Fitzgerald	Yes
Council President Akervall	Yes
Councilor Lehan	Yes
Councilor West	Yes
Councilor Linville	Excused

C. Ordinance No. 852 – 2nd Reading

An Ordinance Of The City Of Wilsonville Approving A Zone Map Amendment From Public Facility (PF) Zone To The Village (V) Zone On Approximately 1.40 Acres In The Villebois Village Center, Adjacent To The Piazza At Villebois To The Northeast And Northwest; The Land Is More Particularly Described As Tax Lot 2800 And Adjacent Right-Of-Way, Section 15AC, Township 3 South, Range 1 West, Willamette Meridian, Clackamas County, Oregon. Costa Pacific Communities, Applicant.

Ms. Jacobson read the title of Ordinance No. 852 into the record on second reading.

Mayor Fitzgerald began reading the quasi-judicial hearing format for the ordinance on second reading. During the reading of the script, the Mayor noticed it included extraneous information. She then requested a brief recess so that staff could provide the correct version of the ordinance script on second reading.

After the recess, Ms. Jacobson reread the title of Ordinance No. 852 into the record on second reading.

Mayor Fitzgerald then read the updated quasi-judicial hearing script for the ordinance on second reading.

No Councilor declared a conflict of interest, bias, or conclusion from information gained outside the hearing. No member of the audience challenged any of the Councilor's participation.

Staff announced the City had received no further comments on Ordinance No. 852 since the first reading

Motion: Councilor West moved to adopt Ordinance No. 852 on second reading. Councilor Lehan seconded the motion.

Vote: Motion carried 4-0.

Page 217 of 236

CITY OF WILSONVILLE CITY COUNCIL MEETING MINUTES

SUMMARY OF VOTES

Mayor Fitzgerald	Yes
Council President Akervall	Yes
Councilor Lehan	Yes
Councilor West	Yes
Councilor Linville	Excused

PUBLIC HEARING

A. Resolution No. 2932

A Resolution Authorizing A Supplemental Budget Adjustment For Fiscal Year 2021-22.

Ms. Jacobson read the title of Resolution No. 2932 into the record.

Keith Katko, Finance Director summarized the staff report.

Mayor Fitzgerald provided the public hearing format and opened the public hearing at 8:43 p.m.

Mayor Fitzgerald invited public testimony, seeing none she closed the public hearing at 8:47 p.m.

Motion: Councilor Akervall moved to approve Resolution No. 2932. Councilor Lehan seconded the motion.

Vote: Motion carried 4-0.

SUMMARY OF VOTESMayor FitzgeraldYesCouncil President AkervallYesCouncilor LehanYesCouncilor WestYesCouncilor LinvilleExcused

CITY MANAGER'S BUSINESS

City Manager Cosgrove recalled sending a few emails to City Council regarding the uptick in petty crimes around the community especially in the Charbonneau area. Mr. Cosgrove reported that Chief Wurpes had been invited to an upcoming meeting to share the data on these crimes. Moreover, Mr. Cosgrove explained he had been in contact with Jim Meierotto, Charbonneau Country Club General Manager regarding the uptick. In addition, he is working with Mr. Meierotto to help strategize on how residents can protect their community.

City Manager requested that resident report suspicious activities, not leave valuables in cars or garages, implement neighborhood watches and ask neighbors to pick up packages when you are away. Mr. Cosgrove described that it had been reported that the element running around Charbonneau had a way to bypass security codes on garages.

CITY COUNCIL MEETING MINUTES PAC OCTOBER 18, 2021 N:\City Recorder\Workspace - Council Items\9. Minutes of the October 18, 2021 City Council Meeting. (Veliz).docx

PAGE 11 OF 12

It was reported that the Police Department had been performing enhanced patrols in areas hit hardest. Mr. Cosgrove disclosed that unfortunately right now overtime is not an option. However, in the past when Charbonneau experienced something similar the City had initiated overtime.

Mr. Cosgrove explained the Clackamas County Sheriff's office has mandatory overtime enacted to cover normal patrol duties. When the backlog clears, there is a possibility to perform enhanced services for the City requiring overtime.

Councilor West announced the last home Wilsonville High school Football game was scheduled for Friday. October 22, 2021. He also shared that it was anticipated the team would be participating in the playoffs.

LEGAL BUSINESS

No report.

ADJOURN

Mayor Fitzgerald adjourned the meeting at 8:51 p.m.

Respectfully submitted,

Kimberly Veliz, City Recorder

ATTEST:

Julie Fitzgerald, Mayor

DRAFT

WILSONVILLE CITY COUNCIL GOALS 2021-2023 WORK PLAN



UPDATED – NOVEMBER 2021

Contents

Soal 1: Increase Mobility for all in Wilsonville	3
Strategy 1.1 Advocate at the federal, state and regional level to complete the Boone Bridge replacement.	3
Strategy 1.2 Pursue a legislative strategy to support aligning the SMART service boundaries with the City limits.	4
Strategy 1.3 Work with ODOT to incorporate the French Prairie Bridge crossing into the Boone Bridge project.	4
Strategy 1.4 Leverage existing City funds to attract outside funding for the I-5 bike and pedestrian bridge.	5
Strategy 1.5 Implement existing transportation plans and advance planning efforts to improve our local transportation network.	5
Soal 2: Support local business recover post-pandemic	6
Strategy 2.1 Develop programs for business support using ARPA funds.	6
Strategy 2.2 Convene the Chamber of Commerce and Small Business Development Center (SBDC) to asses local business needs and available resources	
Goal 3: Expand home ownership for lower income levels and first-time home buyers	7
Strategy 3.1 Continue implementation of the City's Equitable Strategic Housing Plan (ESHP) and explore funding options including Construction Excise Tax (CET), Vertical Housing Development Zone (VHDZ), etc.	7
Strategy 3.2 Explore examples of other programs to support home ownership for low-income residents and first-time homebuyers as part of the Frog Pond East and South Master Plan.	8
Strategy 3.3 Develop a concept plan, zoning strategy, public outreach, identify partners, pursue grant funding, and draft development agreement for a transit-oriented development (TOD) project at WES Transit Center site	8
Soal 4: Attract high quality industry and economic opportunity in Wilsonville	9
Strategy 4.1 Leverage the Coffee Creek Urban Renewal District with the goal of attracting new industry that pays family-wage jobs in two years	9
Strategy 4.2 Advance the existing strategy for recruitment and expansion of the City's industrial areas1	.0
Strategy 4.3 Develop a land aggregation strategy and conduct outreach with property owners to explore long term plans in Basalt and Coffee Creek	.0
Strategy 4.4 Identify and convene key stakeholders for workforce development to understand challenges, gaps and opportunities to support local high-paying jobs for the Wilsonville community1	
Strategy 4.5 Conduct outreach to help us prioritize infrastructure investments in the industrial area to expedite private investment	.1

Page 221 of 236

Goal 5: Align infrastructure plan with sustainable financing sources11
Strategy 5.1 Conduct a financial analysis to explore costs and revenue options to fund the City's major infrastructure projects that are currently without identifiable funding11
Strategy 5.2 Update the urban renewal strategic plan12
Strategy 5.3 Establish the Arts and Culture Board and fund a feasibility study for performing arts facility12
Goal 6: Engage the community to support emergency preparedness and resiliency
Strategy 6.1 Work with emergency response providers to identify gaps and enhance Wilsonville's emergency preparedness planning for all types of emergencies/ disasters.
Strategy 6.2 Connect the community (residents and businesses) with emergency response resources and educational materials to improve individuals' response planning
Goal 7: Protect Wilsonville's environment and increase access to sustainable lifestyle choices15
Strategy 7.1 Update the City's Comprehensive Plan to include a section on the environmental impacts of the Aurora State Airport
Strategy 7.2 Participate in the Aurora State Airport planning discussions to represent Wilsonville's environmental interests
Strategy 7.3 Develop a Wilsonville climate action strategy in alignment with Clackamas County's planning efforts
Strategy 7.4 Explore options to expand access to urban gardening and other sustainable lifestyle choices.16
Strategy 7.5 Continue implementation of Wilsonville's existing environmental programs and practices17

Goal 1: Increase Mobility for all in Wilsonville

<u>Strategy 1.1</u> Advocate at the federal, state and regional level to complete the Boone Bridge replacement.

Project Description: Lobby key regional, state and federal leaders and agencies to raise awareness and for funding; communicate advancements with the community and provide council updates as needed.

Project Lead: Mark Ottenad / Bill Evans

Project Timeline:

Jan – Mar 2021:

• Acting in advance of City-sponsored legislation, the Oregon Transportation Commission reallocates \$3.7 million of 2020-23 STIF funds in March 2021 to advance next phase on engineering design for I-5 Boone Bridge and Seismic Improvement Project. Complete study to provide required NEPA analysis and projected final cost.

Apr – Jun 2021:

• Legislature names in HB 3055/SB 5006 of June 2021 the I-5 Boone Bridge and Seismic Improvement Project as a priority ODOT project on par with I-205/Abernathy Bridge, I-5/I-84 Rose Quarter and Highway 217 highway improvement projects with access to a potential \$30 million/year of bonded funding authorized over a six-year period.

FY2021-22

July – Sept 2021:

- ODOT has proposed in July 2021 for the 2024-27 STIP to advance a \$9-11 million highway modernization project that is component of the I-5 Boone Bridge Seismic Improvement Project: to build a limited-segment northbound auxiliary lane from the Wilsonville-Hubbard Cutoff Highway 551 on-ramp to the Miley Road / Charbonneau on-ramp to I-5.
- City staff meet with Congressional staff in August 2021 to discuss surface transportation issues and prospective funding for transportation infrastructure.
- Schedule ODOT staff to appear in Sept 2021 before City Council to present on transportation issues. including proposed tolling and developments south of Wilsonville.

Quarterly Update:

Compose articles for publication in The Boones Ferry Messenger updating community on various aspects of ODOT transportation improvements in South Metro I-5 Corridor.

<u>Strategy 1.2</u> Pursue a legislative strategy to support aligning the SMART service boundaries with the City limits.

Project Description: Work with Metro, FHwA, FTA, TriMet, Counties and other parties to elevate SMART to have a seat at the JPACT table and use leverage in 2026 when the WES agreement expires.

Project Lead: Mark Ottenad, Dwight Brashear, Barbara Jacobson

Project Timeline:

Jan – Mar 2021:

• Successfully advance City/SMART request for SMART seat on JPACT before FHwA and FTA via Metro MPO TMA review process in Feb 2021 before the Clackamas County Coordinating Committee, seeking letter of support/endorsement.

Apr – Jun 2021:

• JPACT Chair writes to C4 acknowledging need for better transit coordination, and intends to convene meetings in summer or fall 2021.

FY2021-22

July – Sept 2021:

- *City/SMART follow-up with JPACT Chair and Metro staff for convening of meetings.*
- City/SMART write letter of welcome to new TriMet General Manager and request a meeting.

Quarterly Update:

City/SMART staff follow-up with C4 and Metro JPACT regarding proposed mediation. City/SMART staff follow-up with TriMet on meeting request with GM. Mayor meets with Metro Councilors to discuss various issues, including transit service boundary.

<u>Strategy 1.3</u> Work with ODOT to incorporate the French Prairie Bridge crossing into the Boone Bridge project.

Project Description: Work with ODOT to confirm the French Prairie Bridge as the alternative transportation facility for the I-5 Boone Bridge and Seismic Improvement Project and in the Regional Mobility Pricing Project / Comprehensive Congestion Management and Mobility Plan.

Project Lead: Mark Ottenad, Zach Weigel

Project Timeline:

Jan – Mar 2021:

• The City submitted letters in March 2021 to Oregon Transportation Committee and Legislature advocating for named inclusion of the French Prairie Bridge.

Apr – Jun 2021

• The City submitted letters in May 2021 to Legislative leadership advocating for named inclusion of the French Prairie Bridge.

FY2021-22

Jul – Sept 2021

• Schedule ODOT staff to appear in Sept 2021 before City Council to present on transportation issues, including status of I-5 Boone Bridge project and status of French Prairie Bridge as potential alternative transportation facility.

Quarterly Update:

ODOT presented an update on the Boone Bridge project to City Council in September.

<u>Strategy 1.4</u> Leverage existing City funds to attract outside funding for the I-5 bike and pedestrian bridge.

Project Description: Work with Metro, ODOT, Counties, Congressional staff and other interested parties to seek complementary funds without overhead that advance project.

Project Lead: Mark Ottenad, Zach Weigel

Project Timeline:

FY2021-22 July - Sept 2021:

- Bring pedestrian walkway and plaza designs for August 2021 City Council meeting.
- Oct Dec 2021:
 - Design should be complete in November 2021

Quarterly Update:

Design team presented 60% design to Planning Commission and City Council for feedback in August. Design team is continuing with 90% design, incorporating feedback received to date.

<u>Strategy 1.5</u> Implement existing transportation plans and advance planning efforts to improve our local transportation network. Project Description:

Project Lead: TBD

Project Timeline:

Quarterly Update:

Goal 2: Support local business recover post-pandemic

<u>Strategy 2.1</u> Develop programs for business support using ARPA funds.

Project Description: *Identify programs to support business.*

Project Lead: Chris Neamtzu/ Bryan Cosgrove

Project Timeline:

Immediate work (business needs), to be complete by the end of 2021. Work with Chamber of Commerce for Outreach. Quarterly Update:

The Executive Team has been engaged in a brainstorming exercise to come up with various project ideas and evaluation criteria. The City Manager and Finance Director are initiating a conversation with the City Council regarding project ideas for eligible expenditures using ARPA funds at the September 20, 2021 City Council meeting.

<u>Strategy 2.2</u> Convene the Chamber of Commerce and Small Business Development Center (SBDC) to assess local business needs and available resources.

Project Description: See Strategy 2.1 above.

Goal 3: Expand home ownership for lower income levels and first-time home buyers

<u>Strategy 3.1</u> Continue implementation of the City's Equitable Strategic Housing Plan (ESHP) and explore funding options including Construction Excise Tax (CET), Vertical Housing Development Zone (VHDZ), etc.

Project Description: This project explores implementation of several EHSP actions and recommendations, including those on the Actions Requiring Further Exploration list. This includes work already underway to implement Vertical Housing Development Zones (VHDZ) as a means to incentivize mixed-use development in Villebois Village Center and Town Center (part of Action 1D). The City has contracted with ECONorthwest to assist with this work. Additional work on EHSP implementation will require City Council direction to determine if the City desires to implement CET to serve as a funding source for future activities in support of affordable housing, as well as which aspects of Action 1E (Facilitate Connections to Partners and Housing Resources through City Liaison) are of highest priority to Council. Direction on these items will allow for future implementation of items on the Actions Requiring Further Exploration list.

Project Lead: Kim Rybold

Project Timeline: Current project scope with ECONorthwest for VHDZ implementation

Q4 2021 – Discuss commercial criteria and Town Center boundary options with City Council Q1 2021 – VHDZ adoption

Other activities

Q4 2021 – Council work session to gather input and direction on CET, ESHP Action 1E, and other items from the EHSP Actions Requiring Further Exploration list 2022 – Work to implement additional EHSP actions. Exact timing will depend on Council prioritization of EHSP Actions and funding opportunities.

Quarterly Update:

In August, the project team presented a memo to City Council to respond to questions and suggestions raised during a work session in May about potential VHDZ implementation in vertical, mixed-use areas of the City. Based on Council direction to examine criteria options for how to define eligible non-residential spaces as well as possible boundaries in Town Center, the project team conducted additional research and analysis on these topics during September in preparation for an upcoming Council work session in November.

<u>Strategy 3.2</u> Explore examples of other programs to support home ownership for low-income residents and first-time homebuyers as part of the Frog Pond East and South Master Plan.

Project Description: The Frog Pond East and South Master Plan scope includes exploring affordable housing opportunities. This includes, per Council direction, a particular look at affordable home ownership opportunities.

Project Lead: Miranda Bateschell/ Dan Pauly

Project Timeline: Frog Pond East and South planning must be complete by December 2022.

Quarterly Update:

The Frog Pond East and South Master Plan project is under way, including the component dealing with affordable housing and home ownership. EcoNW is the main consultant on this portion of the project. Council will hear more about the housing component of the project in a January work session.

<u>Strategy 3.3</u> Develop a concept plan, zoning strategy, public outreach, identify partners, pursue grant funding, and draft development agreement for a transit-oriented development (TOD) project at WES Transit Center site.

Project Description: This project explores implementation of Equitable Housing Strategic Plan Action 1A to evaluate options for transit-oriented development at the Wilsonville Transit Center. The first phase of this project will conduct a development opportunity study to establish the City's vision for development on this site and identify preferred site design alternatives and funding sources. The City has contracted with Leland Consulting Group to assist with this work. Based on this information, the City and Leland will prepare a developer solicitation (RFQ and RFP). The second phase of this project will occur once a developer is selected and will include a development agreement, project funding, and land use approvals.

Project Lead: Kim Rybold/Dwight Brashear

Project Timeline: Current project scope with Leland Consulting Group

Q3 2021 – Goals and Vision discussion with Council

Q4 2021 – Site Design Alternatives and Funding Strategy

Q1 2022 – Release RFQ/RFP for Developer Solicitation

Q2 2022 – Developer Selection

Additional work outside of the current scope (but within the July 2021-April 2023 timeframe) potentially includes development agreement, project funding, and land use approvals. Exact timing of these items will depend on the selected developer and funding opportunity application deadlines.

Quarterly Update:

During July, the project team began an assessment of opportunities and constraints on the TOD project site, which was shared with City Council at a work session in September. The project team gathered Council's input on vision, goals, and priorities for future development on the site, which the team will use as a basis to develop site design alternatives that illustrate options for development on this site. The project team will present these site design alternatives to City Council in November.

Goal 4: Attract high quality industry and economic opportunity in Wilsonville

<u>Strategy 4.1</u> Leverage the Coffee Creek Urban Renewal District with the goal of attracting new industry that pays family-wage jobs in two years.

Project Description: Attract industry with family-wage jobs to Coffee Creek Urban Renewal District.

Project Lead: Chris Neamtzu

Project Timeline:

Once the Economic Development Manager position is filled, tasks will include:

- Coffee Creek marketing brochure update will include the new road project (infrastructure, zoning regulations and future projects)
- Investigate creation of a GIS Story Map to assist with marketing this project.
- Share info with City Council when appropriate
- Share info with Economic Development groups such as Greater Portland Inc., Small Cities Consortium, brokers and industrial developers.
- Identify and investigate tools to assist with land aggregation strategies (i.e. horizontal development agreement)

Quarterly Update:

The Economic Development Manager recruitment is underway.

<u>Strategy 4.2</u> Advance the existing strategy for recruitment and expansion of the City's industrial areas.

Project Description: Develop a white paper for the existing strategy (i.e. no commercial uses in industrial zones, clean industry, story over time, etc.)

Project Lead: Chris Neamtzu (Mark Ottenad & Leo Consulting to assist)

Project Timeline: In writing and in presentation format, tell the story of Wilsonville's historic and successful industrial lands strategy. Research issues, summarize history, develop a white paper and create a presentation to share with City Council and the community. This is anticipated to be a living document that is updated as time goes on and circumstances change.

Quarterly Update: *Project has not started.*

<u>Strategy 4.3</u> Develop a land aggregation strategy and conduct outreach with property owners to explore long term plans in Basalt and Coffee Creek.

Project Description: *Part of Strategy 4.1 above.*

<u>Strategy 4.4</u> Identify and convene key stakeholders for workforce development to understand challenges, gaps and opportunities to support local high-paying jobs for the Wilsonville community.

Project Description: Coordinate businesses outreach to gain a better understanding of specific business workforce needs; organize meetings between businesses and workforce development and educational partners.

Project Lead: Mark Ottenad (until there is a new Economic Development Manager)

Project Timeline: With new, revamped economic-development program and staff, commence implementation in FY22-23. Quarterly Update: *Project has not started.* <u>Strategy 4.5</u> Conduct outreach to help us prioritize infrastructure investments in the industrial area to expedite private investment. Project Description: Part of 4.1 – See above

Goal 5: Align infrastructure plan with sustainable financing sources

<u>Strategy 5.1</u> Conduct a financial analysis to explore costs and revenue options to fund the City's major infrastructure projects that are currently without identifiable funding.

Project Description: Staff to gather information and work with a consultant to identify revenue options, available funds, help council prioritize projects and identify funding plan for the next 5 - 10 years.

Project Lead: Kris Ammerman, Keith Katko, Delora Kerber, Jeanna Troha

Project Timeline:

Part 1- Staff to gather information (all projects, all project costs, saved revenue or known revenue sources/ options) and compile by the end of Dec. 2021.

Part 2 – Staff to meet with a consultant to discuss a scope of work (SOW – identify revenue options and funds available, help council prioritize projects and identify funding plan for the next 5 - 10 years)

Part 3 – RFP for the scope of work.

Part 4 – Select a consultant to perform the analysis and help the council to prioritize/ identify funding sources.

Quarterly Update: Staff has gathered a list of projects. Staff will work with the consultant to finalize the scope of work.

Strategy 5.2 Update the urban renewal strategic plan.

Project Description: Team meetings to be set with City's urban renewal consultants to move forward investigation of potential geographies where a new Urban Renewal Area could be established. Begin with a clear plan for the sunset of current urban renewal areas (West Side and Year 2000) and look at new URA opportunities for Town Center.

Project Lead: Chris Neamtzu/ Keith Katko/ Bryan Cosgrove (Principal)

Project Timeline: *Expedite - meeting to be set with Elaine Howard and Tiberius Solutions to move forward. The scope will be used to update the timeline.*

Start with sunset of the current area and look at new URA for Town Center Project with new Economic Development Manager.

Quarterly Update:

A scope of work has been created by the consultant team to update the 2014 Urban Renewal Strategic Plan. The Economic Development Director position has been on the street since the middle of September, 2021. Once the new Economic Development Manager is hired, the new staff person will initiate the process with one of the first steps being to reconstitute the Urban Renewal Advisory Committee.

<u>Strategy 5.3</u> Establish the Arts and Culture Board and fund a feasibility study for performing arts facility.

Project Description: Develop implementation plan and retain consultant to work on forming the Arts and Culture Commission; after establishing and seating the commission, work to prioritize ACHS Recommendations that develop a five-year action plan with annual one-year implantation plan to be presented to the council including funding a feasibility study for a performing arts facility.

Project Lead: Mark Ottenad/ Kris Ammerman

Project Timeline:

FY2021-22 July – Sep 2021

- Develop multi-departmental Implementation Plan for the Formation of an Arts and Culture Commission and scope of work for PSA to retain consultant to advance plan.
- Consultant undertakes research on specific issues to be resolved for the commission's formation, including conducting community meeting, to help shape recommendations.
- Oct Dec 2021
 - Public feedback and City Council direction sought for recommendations of key components of Arts and Culture Commission; resolution of formation brought to City Council.

Jan – Mar 2022

• Advertise openings on Arts and Culture Commission; arrange interviews.

Apr – Jun 2022

- City Council confirms appointment of Arts and Culture Commission.
- Initial meetings of Arts and Culture Commission to develop priority recommendations for City Council consideration, including funding feasibility study for a performing arts facility.

Quarterly Update:

Develop multi-departmental Implementation Plan for the Formation of an Arts and Culture Commission and scope of work for PSA to retain consultant to advance plan.

Conduct meeting with local-area arts and culture supporters to present on ACHS and Implementation Plan for forming an Arts and Culture Commission.

Consultant undertakes research on specific issues to be resolved for the commission's formation, including conducting community meeting, to help shape recommendations.

Goal 6: Engage the community to support emergency preparedness and resiliency

<u>Strategy 6.1</u> Work with emergency response providers to identify gaps and enhance Wilsonville's emergency preparedness planning for all types of emergencies/ disasters.

Project Description: Collaborate with partner agencies (Counties, TVF&R, PGE, NW Natural and Metro, RDPO) on how they are preparing for emergencies and their response plans. Participate in annual Emergency Preparedness exercises (e.g. Cascadia Rising Event). Present information to City Council. **Project Lead:** Delora Kerber/ Martin Montalvo

Project Timeline: Complete by the second quarter of 2023

- Ground Truth the Hazard Mitigation Plan (Ice Storms, Wildfires, Debris Management)
- Update City's Emergency Management Plan
- Communicate with Council on information gathered from other emergency response agencies.
- Presentations to Council from other emergency agencies on their preparedness and response plans.

Quarterly Update:

At the September 9 City Council meeting, PGE made presentation on their responses and mitigation to the February Ice Storm.

<u>Strategy 6.2</u> Connect the community (residents and businesses) with emergency response resources and educational materials to improve individuals' response planning.

Project Description: Educate community members on emergency preparedness through community events, publications, websites and Annual event "Fair"

Project Lead: Delora Kerber / Martin Montalvo with assistance from Bill Evans

Project Timeline: *Complete by the end of 2022.*

- Publish Quarterly messages in the Boones Ferry Messenger– Spring: Extreme Heat Safety; Fireworks Safety; Wildfire Preparedness Summer: Winter Weather Safety; Holiday Fire Safety; Rain/flooding Preparedness Fall: Winter Weather Safety; Spring & Flood Safety; Cyber Security Safety Winter: Wildfire Awareness; Pet Preparedness; Summer Safety and Extreme Heat Safety
- Publish special section in BFM for September Emergency Preparedness month & October Great Shakeout Earthquake Drill
- Develop Council narrated educational videos on emergency preparedness
- Develop scope and budget for the development of City's Emergency Preparedness brand and messaging information for use on website, at events, etc.
- Update City's Emergency Preparedness website. Add Council videos
- Organize an Emergency Preparedness Fair for September 2022. Include emergency response partners.
- Research incentive plans to encourage community members to prepare for disasters. Examples: 5 gallon water jug with emergency preparedness information; go Bag instructions; packaged Emergency Preparedness kits; phone battery chargers; first Aid kits; 30 days to prepare instructions
- Pursue grant opportunities to fund incentive plans.

Quarterly Update:

Issued the September Boones Ferry Messenger as the first-ever newsletter dedicated fully to emergency preparedness

Over the past several months, 4-5 social media posts on Facebook (and other platforms) have been made encouraging preparedness and providing links to Federal Emergency Management Agency (FEMA) preparation resources

Drafted scope of work with consultant to develop Community Education Plan, Emergency Education Campaign, and messaging information for use on website, events, etc.

Goal 7: Protect Wilsonville's environment and increase access to sustainable lifestyle choices

<u>Strategy 7.1</u> Update the City's Comprehensive Plan to include a section on the environmental impacts of the Aurora State Airport.

Project Description: City is currently engaged with HHPR consulting to develop a scope of work for a citizen engagement process to update the Comprehensive Plan to include statements about the Aurora Airport. City staff has initiated this process and anticipates completion over the next 12 months.

Project Lead: Miranda Bateschell

Project Timeline: *City staff has initiated this process and anticipates completion over the next 12 months.*

Quarterly Update:

Scope and schedule completed. Kickoff meeting for the project team scheduled for mid-October. Work sessions with Planning Commission in November and City Council in December scheduled to cover project scope and goals as well as initial stakeholder feedback.

<u>Strategy 7.2</u> Participate in the Aurora State Airport planning discussions to represent Wilsonville's environmental interests.

Project Description: Participate in the Aurora Airport Master Plan public agency stakeholder group and keep up to date on all aspects of the Master Plan update. Use memorandums to inform Council and obtain direction under City Managers business or Communications for updates. Consider engaging with specialized airport consultants to assist with reviewing and fact checking data.

Project Lead: Chris Neamtzu

Project Timeline: Staff will keep the Council updated on all meetings over the next few months. A memo under City Manager's business or communications will be provided. This also will be brought to City Council meetings, as direction is needed.

Quarterly Update:

On October 13, 2021 the Oregon Department of Aviation announced the first PAC Meeting for the Aurora State Airport Master Plan Project. The meeting will be held virtually Tuesday, November 16, 2021 from 3:00pm-5:00pm via Zoom Webinar. This meeting will provide an opportunity for the PAC, community, neighbors, and other project stakeholders to learn about the Airport Master Plan project and the vision for the Airport over the next 20-years.

<u>Strategy 7.3</u> Develop a Wilsonville climate action strategy in alignment with Clackamas County's planning efforts.

Project Description: Natural Resources Manager to track and participate in the Clackamas County process in developing a Climate Action Plan. Consider the creation of a local plan that represents Wilsonville's interests. Report to City Council regarding work products and status of planning effort.

Project Lead: Chris Neamtzu/ Kerry Rappold

Project Timeline: TBD

Quarterly Update:

The first meeting of the Cities Workgroup was held October 12, 2021. At the meeting, Staff, from cities in Clackamas County, provided information on their current climate goals and areas of action, and the County staff gave an overview of the planning process. During the development of the County's Climate Action Plan, the Natural Resources Manager will report to the City Council regarding work products and status of planning effort.

<u>Strategy 7.4</u> Explore options to expand access to urban gardening and other sustainable lifestyle choices.

Project Description: Explore urban garden options at City Parks, such as Arrowhead Park, encourage Homeowner's Associations to do more community gardening, and provide annual programming for sustainable lifestyle choices.

Project Lead: Kris Ammerman, Jeanna Troha

Project Timeline: TBD

Quarterly Update:

Staff provided estimates the cost to be \$100,000 (hard costs only) based on a garden similar in size to our current one in Memorial Park. Actual size would be dictated by site restrictions. Labor will be provided by the park maintenance team.

- Irrigation \$35,000
- Raised beds \$35,000
- Fence \$20,000
- Other \$10,000

Staff identified these location considerations;

• West side of town (Geographical Equity)

Page 236 of 236

- Initially we looked at locating a garden at Arrowhead park, but there were too many conflicts with existing infrastructure
- Exact location undetermined at this time: only potential City owned site is Boones Ferry Park (excessive shade is the biggest concern with this site)
- Other potential sites would require Partnerships with community organizations (Churches, HOA's, School District, CREST, others?)

<u>Strategy 7.5</u> Continue implementation of Wilsonville's existing environmental programs and practices

Project Description:

Project Lead: TBD

Project Timeline:

Quarterly Update: