

DEVELOPMENT REVIEW BOARD MEETING

MONDAY, AUGUST 22, 2022

6:30 PM

Public Hearing:

2. **Resolution No. 406 Frog Pond Terrace**

Subdivision. The applicant is requesting approval of Annexation of approximately 11.17 acres and Zone Map Amendment from Rural Residential Farm Forest 5-Acre (RRFF-5) to Residential Neighborhood (RN) of approximately 10.94 acres, a Stage 1 Preliminary Plan, Stage 2 Final Plan, Site Design Review of parks and open space, Tentative Subdivision Plat, Type C Tree Plan, Abbreviated SROZ Map Verification, and Abbreviated SRIR Review for a 19-lot residential subdivision.

Case Files:

DB22-0003 Frog Pond Terrace

- Annexation (ANNX22-0002)
- Zone Map Amendment (ZONE22-0003)
- Stage 1 Preliminary Plan (STG122-0003)
- Stage 2 Final Plan (STG222-0003)
- Site Design Review of Parks and Open Space (SDR22-0003)
- Tentative Subdivision Plat (SUBD22-0002)
- Type C Tree Plan (TPLN22-0002)
- SROZ Map Verification (SROZ22-0005)
- SRIR Review (SRIR22-0003)

The DRB Action on the Annexation and Zone Map Amendment is a recommendation to the City Council.

**DEVELOPMENT REVIEW BOARD
RESOLUTION NO. 406**

A RESOLUTION ADOPTING FINDINGS RECOMMENDING APPROVAL TO CITY COUNCIL OF ANNEXATION OF APPROXIMATELY 11.17 ACRES AND ZONE MAP AMENDMENT FROM RURAL RESIDENTIAL FARM FOREST 5-ACRE (RRFF-5) TO RESIDENTIAL NEIGHBORHOOD (RN) OF APPROXIMATELY 10.94 ACRES, AND ADOPTING FINDINGS AND CONDITIONS APPROVING A STAGE 1 PRELIMINARY PLAN, STAGE 2 FINAL PLAN, SITE DESIGN REVIEW OF PARKS AND OPEN SPACE, TENTATIVE SUBDIVISION PLAT, TYPE C TREE PLAN, ABBREVIATED SROZ MAP VERIFICATION, AND ABBREVIATED SRIR REVIEW FOR A 19-LOT RESIDENTIAL SUBDIVISION.

WHEREAS, an application, together with planning exhibits for the above-captioned development, has been submitted by Dan Grimberg, West Hills Land Development LLC – Applicant and Donnie L. Martin (TLID 2800 and 3500) and Douglas E. and Colleen R. George (TLID 2801) – Owners in accordance with the procedures set forth in Section 4.008 of the Wilsonville Code, and

WHEREAS, the subject site is located at 7480 and 7500 SW Frog Pond Lane on Tax Lots 2800, 2801, and 3500, and a portion of SW Frog Pond Lane right-of-way, Section 12D, Township 3 South, Range 1 West, Willamette Meridian, Clackamas County, Oregon, and

WHEREAS, the Planning Staff has prepared the staff report on the above-captioned subject dated August 15, 2022, and

WHEREAS, said planning exhibits and staff report were duly considered by the Development Review Board Panel B at a scheduled meeting conducted on August 22, 2022, at which time exhibits, together with findings and public testimony were entered into the public record, and

WHEREAS, the Development Review Board considered the subject and the recommendations contained in the staff report, and

WHEREAS, interested parties, if any, have had an opportunity to be heard on the subject.

NOW, THEREFORE, BE IT RESOLVED that the Development Review Board of the City of Wilsonville does hereby adopt the staff report dated August 15, 2022, attached hereto as Exhibit A1, with findings and recommendations contained therein, and authorizes the Planning Director to issue permits consistent with said recommendations for:

DB22-0003 Frog Pond Terrace: Annexation (ANNX22-0002), Zone Map Amendment (ZONE22-0003), Stage 1 Preliminary Plan (STG122-0003), Stage 2 Final Plan (STG222-0003), Site Design Review of Parks and Open Space (SDR22-0003), Tentative Subdivision Plat (SUBD22-0002), Type C Tree Plan (TPLN22-0002), Abbreviated SROZ Map Verification (SROZ22-0005), and Abbreviated SRIR Review (SRIR22-0003).

ADOPTED by the Development Review Board of the City of Wilsonville at a regular meeting thereof this 22nd day of August, 2022, and filed with the Planning Administrative Assistant on _____. This resolution is final on the 15th calendar day after the postmarked date of the written notice of decision per *WC Sec 4.022(.09)* unless appealed per *WC Sec 4.022(.02)* or called up for review by the Council in accordance with *WC Sec 4.022(.03)*.

Nicole Hendrix, Chair - Panel B
Wilsonville Development Review Board

Attest:

Shelley White, Planning Administrative Assistant



Exhibit A1
Staff Report
Frog Pond Terrace 19-Lot Subdivision
Development Review Board Panel 'B'
Quasi-Judicial Public Hearing

Hearing Date: August 22, 2022

Date of Report: August 15, 2022

Application Nos.: DB22-0003 Frog Pond Terrace 19-Lot Subdivision

- Annexation (ANNX22-0002)
- Zone Map Amendment (ZONE22-0003)
- Stage 1 Preliminary Plan (STG122-0003)
- Stage 2 Final Plan (STG222-0003)
- Site Design Review of Parks and Open Space (SDR22-0003)
- Tentative Subdivision Plat (SUBD22-0002)
- Type C Tree Removal Plan (TPLN22-0002)
- Abbreviated SROZ Map Verification (SROZ22-0005)
- Abbreviated SRIR Review (SRIR22-0003)

Request/Summary: The requests before the Development Review Board include Annexation, Zone Map Amendment, Stage 1 Preliminary Plan, Stage 2 Final Plan, Site Design Review of Parks and Open Space, Tentative Subdivision Plat, Type C Tree Removal Plan, Abbreviated SROZ Map Verification, and Abbreviated SRIR Review

Location: 7480 and 7500 SW Frog Pond Lane. The property is specifically known as TLID 2800, 2801, and 3500, and a portion of SW Frog Pond Lane right-of-way, Section 12D, Township 3 South, Range 1 West, Willamette Meridian, Clackamas County, Oregon.

Owners: Donnie L. Martin (TLID 2800 and 3500)
Douglas E. and Colleen R. George, Trustees (TLID 2801)

Applicant: West Hills Land Development LLC (Contact: Dan Grimberg)

Applicant's Rep.: OTAK, Inc. (Contact: Li Alligood AICP)

Comprehensive Plan Designation: Residential Neighborhood

Zone Map Classification (Current): Rural Residential Farm Forest 5-Acre (RRFF-5; Clackamas County)

Zone Map Classification (Proposed): Residential Neighborhood (RN)

Staff Reviewers: Cindy Luxhoj AICP, Associate Planner
 Amy Pepper, PE, Development Engineering Manager
 Kerry Rappold, Natural Resources Manager

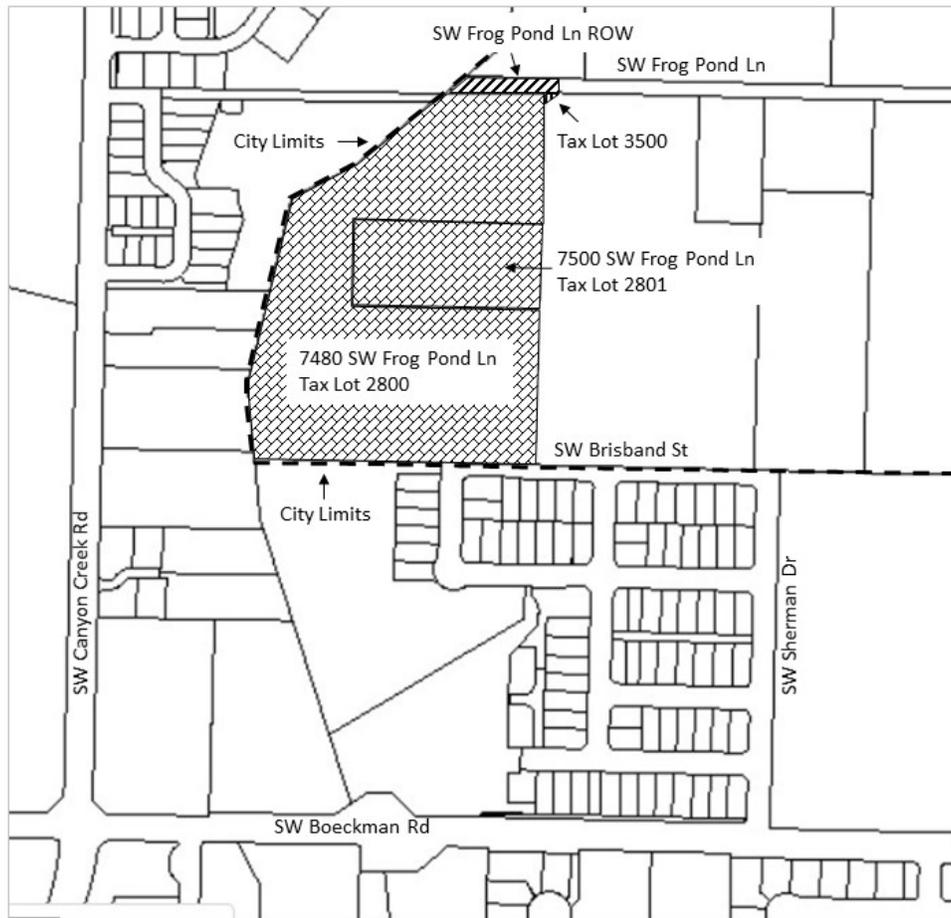
Staff Recommendation: Recommend approval to the City Council of the Annexation and Zone Map Amendment, approve with conditions the Stage 1 Preliminary Plan, Stage 2 Final Plan, Site Design Review of Parks and Open Space, Tentative Subdivision Plat, Type C Tree Plan, Abbreviated SROZ Map Verification, and Abbreviated SRIR Review, contingent on City Council approval of the Annexation and Zone Map Amendment.

Applicable Review Criteria:

<u>Development Code:</u>	
Section 4.008	Application Procedures-In General
Section 4.009	Who May Initiate Application
Section 4.010	How to Apply
Section 4.011	How Applications are Processed
Section 4.014	Burden of Proof
Section 4.031	Authority of the Development Review Board
Section 4.033	Authority of City Council
Subsection 4.035 (.04)	Site Development Permit Application
Subsection 4.035 (.05)	Complete Submittal Requirement
Section 4.110	Zones
Section 4.113	Standards Applying to Residential Development in All Zones
Section 4.118	Standards Applying to Planned Development Zones
Section 4.127	Residential Neighborhood (RN) Zone
Section 4.139 through 4.139.11	Significant Resource Overlay Zone (SROZ)
Section 4.140	Planned Development Regulations
Section 4.154	On-site Pedestrian Access and Circulation
Section 4.155	Parking, Loading, and Bicycle Parking
Sections 4.156.01 through 4.156.11	Signs
Section 4.167	Access, Ingress, and Egress
Section 4.171	Protection of Natural Features and Other Resources
Section 4.175	Public Safety and Crime Prevention
Section 4.176	Landscaping, Screening, and Buffering
Section 4.177	Street Improvement Standards
Section 4.197	Zone Changes
Sections 4.200 through 4.290	Land Divisions
Sections 4.300 through 4.320	Underground Utilities
Sections 4.400 through 4.440 as applicable	Site Design Review

Sections 4.600-4.640.20	Tree Preservation and Protection
Section 4.700	Annexation
<u>Comprehensive Plan and Sub-elements:</u>	
Citizen Involvement	
Urban Growth Management	
Public Facilities and Services	
Land Use and Development	
Plan Map	
Area of Special Concern L	
Transportation Systems Plan	
Frog Pond West Master Plan	
<u>Regional and State Law and Planning Documents</u>	
Metro Code Chapter 3.09	Local Government Boundary Changes
ORS 222.111	Authority and Procedures for Annexation
ORS 222.125	Annexation by Consent of All Land Owners and Majority of Electors
ORS 222.170	Annexation by Consent Before Public Hearing or Order for Election
Statewide Planning Goals	

Vicinity Map



Background:

The subject property has long been rural/semi-rural, adjacent to the growing City of Wilsonville. Metro added the 181-acre area now known as Frog Pond West to the Urban Growth Boundary in 2002 to accommodate future residential growth. To guide development of the area and the urban reserve areas to the east and southeast, the City of Wilsonville adopted the Frog Pond Area Plan in November 2015. The Frog Pond Area Plan envisions that: "The Frog Pond Area in 2035 is an integral part of the Wilsonville community, with attractive and connected neighborhoods. The community's hallmarks are the variety of quality homes; open spaces for gathering; nearby services, shops and restaurants; excellent schools; and vibrant parks and trails. The Frog Pond Area is a convenient bike, walk, drive, or bus trip to all parts of Wilsonville."

As a follow up to the Area Plan and in anticipation of forthcoming development, in July 2017 the City of Wilsonville adopted the Frog Pond West Master Plan for the area within the UGB. To guide development and implement the vision of the Area Plan, the Master Plan includes details on land use (including residential types and unit count ranges), residential and community

design, transportation, parks and open space, and community elements such as lighting, street trees, gateways, and signs. The Master Plan also lays out the infrastructure financing plan.

The proposed 19-lot subdivision is the ninth development proposal in Frog Pond West. The subdivision will connect to the concurrently proposed Frog Pond Overlook to the north, previously approved Frog Pond Vista subdivision to the northeast, and Morgan Farm subdivision to the south, blending together as one cohesive neighborhood consistent with the Frog Pond West Master Plan.

One nearby land use application has been submitted for a site near the subject property. Frog Pond Overlook (DB22-0002) is located north of Frog Pond Terrace and contains features such as street extensions, pedestrian connections, and street trees that will interface with this application. Staff have reviewed this application in the context of the property to ensure all shared components are consistently applied across both subdivisions.

Application Summary:

Annexation (ANNX22-0002)

The area proposed for annexation is contiguous to land currently in the City, within the UGB, and master planned for residential development. All property owners in TLID 2800, 2801, and 3500 have consented in writing to the annexation, and all electors reside within the area proposed for annexation.

Zone Map Amendment (ZONE22-0003)

Concurrent with the adoption of the Frog Pond West Master Plan, the City added a new zoning district, Residential Neighborhood (RN), intended for application to the Master Plan area. The applicant proposes applying the RN Zone to the annexed area consistent with this intention.

Stage 1 Preliminary Plan (STG122-0003)

The proposed residential use, number of lots, preservation of open space, and general block and street layout are consistent with the Frog Pond West Master Plan. Specifically in regards to residential land use unit count, the proposed Stage 1 Preliminary Plan area includes portions of, medium lot Sub-district 4 and large lot Sub-district 7. See Finding C17 for a more detailed discussion on how the proposal meets the required density in each sub-district consistent with the Master Plan recommendations.

The Frog Pond West Master Plan established range for medium-lot Sub-district 4 is 86-107 lots. Approximately 13.5% of Sub-district 4 is within the project area and the applicant proposes 16 lots, which is one (1) greater than the 15-lot maximum allowed with a 10% increase for SROZ boundary adjustment. The established range for Sub-district 7 is 24-30 lots. Approximately 16.4% of Sub-district 7 is within the project area and the applicant proposes 3 lots, which is one (1) lot fewer than the minimum density requirement for this part of the subdivision which is due to a

combination of factors related to topography, infrastructure needs, and provision of non-residential uses..

The proposed development of one (1) fewer lot in the Sub-district 7 portion of the site allows for future development that meets all dimensional standards for lots in this part of the site. Because the Sub-district 4 portion of the site has substantially fewer development constraints, it can easily accommodate the one (1) additional lot needed to satisfy the minimum density requirement for Sub-district 7. As proposed the total number of lots meets the overall minimum proportional density for the site when the two Sub-districts are combined.

Stage 2 Final Plan (STG222-0003)

The applicant proposes installing necessary facilities and services concurrent with development of the proposed subdivision.

Proposed lot layout and size, as well as block size and access, generally demonstrate consistency with development standards established for the Residential Neighborhood (RN) zone and in the Frog Pond West Master Plan.

Regarding the protection of natural features and other resources, the project design avoids disturbance of these features and resources. The site slopes to the northwest and west from an elevation of roughly 217 ft along the eastern property boundary, to 210 ft at the existing house, to 145 ft at Boeckman Creek. About 50% of the site is steeply sloped and within the SROZ or its impact area.

Site Design Review of Parks and Open Space (SDR22-0003)

The scope of the Site Design Review request includes design of common tracts and the streetscape. Overall, the design of these spaces is consistent with the Site Design Review standards and the Frog Pond West Master Plan. In particular, the proposed streetscape design conforms or will with Conditions of Approval to the street tree and street lighting elements of the Frog Pond West Master Plan. The design also includes a large open space tract consistent with the Master Plan. Among the additional specific elements reviewed include the trailheads consistent with the Master Plan along with the landscaping and site furnishings in the open space tract.

Tentative Subdivision Plat (SUBD22-0002)

The proposed tentative plat meets technical platting requirements, demonstrates consistency with the Stage 2 Final Plan, and thus the Frog Pond West Master Plan, and does not create barriers to future development of adjacent neighborhoods and sites.

Type C Tree Removal Plan (TPLN22-0002)

There are 250 on-site trees and one (1) off-site tree inventoried as part of the proposed development. The majority of the tree removal on site will take place toward the center of the site

and along the northeast property boundary where trees will be removed due to construction of proposed public streets, residential lots, and the trailhead park.

Of the trees inventoried on-site, 149 are proposed for removal. The applicant proposes planting 105 new trees in the form of 30 street trees, 41 trees in the Tract A open space including along the regional trail, within the trailhead park, and as part of the stormwater facility. Because it is not possible to plant the remaining trees on the site and no alternative location has been identified, the applicant proposes to pay \$13,200 into the City Tree Fund, an amount equivalent to a purchase and installation cost of \$300 per tree for the 44 replacement trees.

Abbreviated SROZ Map Verification (SROZ22-0005)

Consistent with the Development Code requirements, a verification of the SROZ boundary is required at the time an applicant requests a land use decision. The applicant conducted a detailed site analysis consistent with Development Code requirements, which the City's Natural Resources manager reviewed and approved.

Abbreviated SRIR Review (SRIR22-0003)

The applicant requests approval of a Significant Resource Impact Report (SRIR) for exempt development located within the Significant Resource Overlay Zone and its associated 25-foot impact area. The impacts to the SROZ are necessary for the construction of the Boeckman Creek trail and stormwater infrastructure.

Proposed exempt development in the SROZ and its associated 25-foot impact area include the following:

- 1) A regional pedestrian trail
- 2) A stormwater facility in the open space area; and
- 3) A stormwater outfall – installation of pipe and outfall structure

Discussion Points – Verifying Compliance with Standards:

This section provides a discussion of key clear and objective development standards that apply to the proposed applications. The Development Review Board will verify compliance of the proposed applications with these standards.

Consistency with Statewide Planning Goals

The Statewide Planning Goals provide direction to local jurisdictions regarding the State's policies on land use. It is assumed the City's adopted Comprehensive Plan, which includes the adopted Frog Pond Area Plan and Frog Pond West Master Plan, is in compliance with the Statewide Planning Goals (specifically Goal 2, Land Use Planning), and that compliance with the Comprehensive Plan also demonstrates compliance with the Statewide Planning Goals. At the time of its adoption, the Frog Pond West Master Plan was found to be in compliance with all applicable Statewide Planning Goals, including Goals 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14.

Statewide Planning Goals particularly relevant to the Frog Pond Terrace application include Goals 10, 12, and 14.

Goal 10, Housing, identifies a need for “needed housing”, which is defined for cities having populations larger than 2,500, as attached and detached single-family housing, multiple-family housing, and manufactured homes. Annexation of the subject site into the Wilsonville City limits will provide lots that can be developed with attached and detached single-family housing, which is defined as “needed housing” in the City’s 2014 Residential Land Study.

Goal 12, Transportation, identifies the importance of a safe, convenient, and economic transportation system, and requires local jurisdictions to adopt a TSP. The proposed annexation area will comply with Wilsonville’s TSP, which has been updated to include the Frog Pond West area. Annexation of the subject site will allow for its development, including new street connections included in the TSP.

Goal 14, Urbanization, identifies the need for orderly and efficient growth, the need to accommodate housing and employment within the UGB, and the importance of livable communities. The Frog Pond West Master Plan area was added to the UGB to accommodate residential growth. The Master Plan complied with Goal 14 and Metro Title 11, Planning for New Urban Areas, and guides the orderly annexation of the subject site, which is located in the Frog Pond West Master Plan area, development of a livable community, and provision of additional housing within the UGB.

As demonstrated above, the proposed projects are consistent with the Comprehensive Plan and Frog Pond West Master Plan, which have been found to be consistent with Statewide Planning Goals.

Traffic Impacts

The Traffic Impact Analysis (see Exhibit B1) performed by the City’s consultant, DKS Associates, identifies the most probable used intersection for evaluation as:

- SW Boeckman Road/SW Sherman Drive

The SW Boeckman Road/SW Sherman Drive intersection is the only Frog Pond West access to the proposed development. Other study intersections, such as SW Stafford Road/SW 65th Avenue and SW Canyon Creek Road/SW Boeckman Road, were not included in this analysis as the trips through those intersections would be insignificant (around 10 peak hour trips). Additionally, the SW Stafford Road/SW 65th Avenue intersection was not included as it was found to already fail to meet County standards under existing 2021 conditions, as noted in the Frog Pond Crossing TIA and Frog Pond Vista TIA. As noted in both of those reports, an intersection improvement has already been identified in the County’s Capital Improvement Project List.

The study intersection meets the City of Wilsonville’s operating standard for the existing conditions. The intersection will continue to perform at Level of Service D or better with the proposed project and thus meets City standards.

Balancing Uses in Planter Strips

Many design elements compete for space within the planter strips between sidewalks and streets. These elements include street trees, stormwater facilities, and streetlights while accommodating appropriate spacing from underground utilities and cross access by pedestrians. For various reasons, it is not practical to place street trees and streetlights in stormwater swales. To balance these uses, the City recommends that the applicant’s plans prioritize street tree and street lighting placement with appropriate spacing from utility laterals and water meters, then placing stormwater facilities where space remains available and placement is desirable. The applicant’s plans achieve the desired balance with all street trees placed within the planter strip, with stormwater facilities and other elements located in the remaining space.

Boeckman Creek Trail and Connections

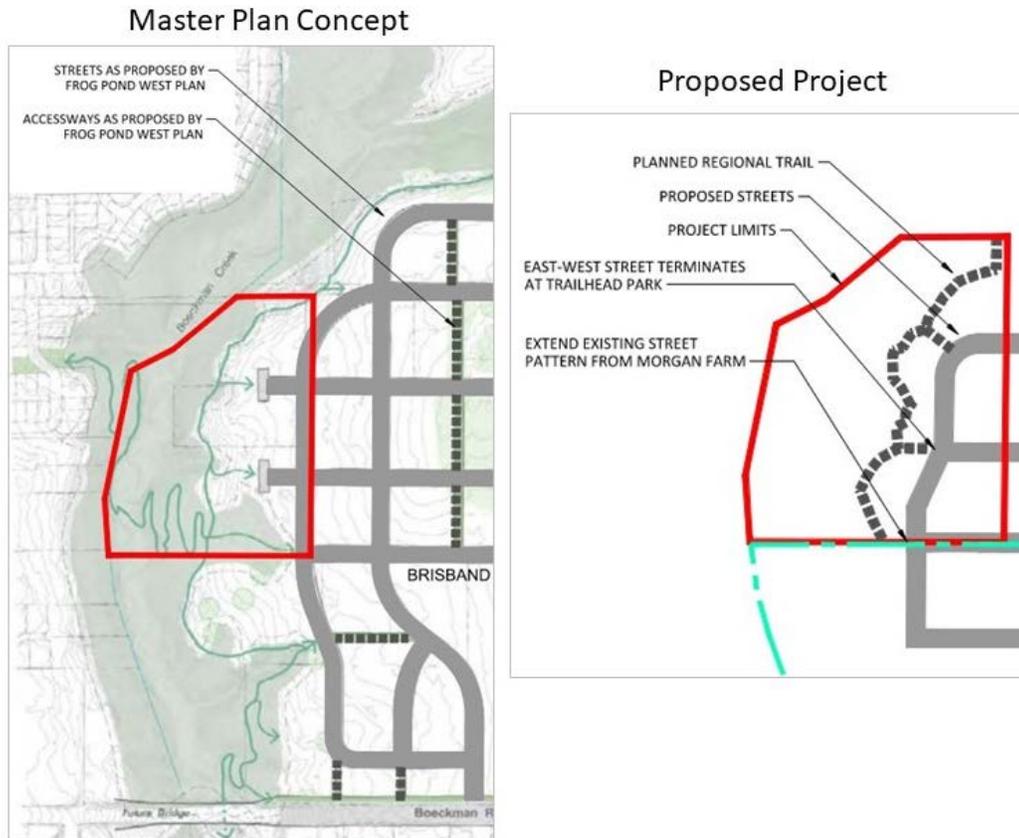
The applicant will construct a portion of the Boeckman Creek Regional Trail along the western portion of the property. As noted in the Frog Pond West Master Plan, this trail will run along the western edge of the Frog Pond neighborhood, with access provided via trailheads at the termination of east-west streets in Frog Pond. The Boeckman Creek Regional Trail will be located in Tract A, an open space tract including the SROZ and adjacent areas. The applicant proposes dedication of this tract to the City of Wilsonville. A Condition of Approval ensures that the dedication of this tract does not take place until environmental site assessments are completed and provided to the City.

Street Demonstration Plan Compliance

The Street Demonstration Plan (Figure 18 of the Frog Pond West Master Plan), is an illustrative layout of the desired level of connectivity in the Frog Pond West neighborhood. The Street Demonstration Plan is intended to be guiding, not binding, allowing for flexibility provided overall connectivity goals are met. The block size and shape, access, and connectivity of the proposed subdivision complies with Figure 18 of the Frog Pond West Master Plan or is an allowed variation as illustrated below and described in more detail elsewhere in this staff report.

SW Brisband Street is extended west on the south side of the subdivision as shown on the Street Demonstration Plan. Existing slopes and the presence of the SROZ preclude extending SW Frog Pond Lane farther to the west in a broad radius as anticipated by the Street Demonstration Plan. Rather, SW Frog Pond Lane is proposed to terminate in an “eyebrow” allowing for a turn to the south that aligns with a future extension of SW Painter Drive from the Morgan Farm development. SW Woodbury Loop is extended north from Morgan Farm into the proposed development, curving east at its northern extent to intersect with the future extension of SW Painter Drive north from Morgan Farm to SW Frog Pond Lane. The proposed modifications do not require out-of-direction pedestrian or vehicular travel nor do they result in greater distances

for pedestrian access to the proposed subdivision from the surrounding future streets than would otherwise be the case if the Street Demonstration Plan were adhered to.



Tree Removal and Preservation

There are 250 on-site and one (1) off-site tree inventoried for the proposed development. Of the 251 trees, 149 trees are proposed for removal with 102 trees preserved. Large mature trees are located within the subject property within the SROZ and will be preserved within Tract A. The applicant proposes planting 30 street trees, 41 trees in the Tract A open space, and 34 trees around the stormwater facility in Tract A for a total of 105 mitigation trees. This is 44 trees fewer than the required one-to-one mitigation ratio. Because it is not possible to plant the remaining trees on the site and no alternative location has been identified, the applicant proposes to pay \$13,200 into the City Tree Fund, an amount equivalent to a purchase and installation cost of \$300 per tree for the 44 replacement trees.

Discussion Points – Discretionary Review:

The Development Review Board may approve or deny items in this section based upon a review of evidence submitted by the applicant. There are no discretionary review requests included as part of the proposed application.

Public Comments and Responses:

No public comments were received during the comment period.

Conclusion and Conditions of Approval:

Staff has reviewed the applicant's analysis of compliance with the applicable criteria. The Staff Report adopts the applicant's responses as Findings of Fact except as noted in the Findings. Based on the Findings of Fact and information included in this Staff Report, and information received from a duly advertised public hearing, staff recommends that the Development Review Board recommend approval to City Council or approve, as relevant, the proposed application (DB22-0003) with the following conditions:

Planning Division Conditions:

Request A: Annexation (ANNX22-0002)

This action recommends to the City Council approval of Annexation for the subject properties. The Zone Map Amendment (ZONE22-0003) and all approvals contingent on it are contingent on annexation.

PDA 1. Prior to issuance of any Public Works permits by the City within the annexation area: The developer shall be subject to a Development and Annexation Agreement with the City of Wilsonville as required by the Frog Pond West Master Plan. The developer shall enter into the Development and Annexation Agreement prior to issuance of any public works permits by the City within the annexation area.

Request B: Zone Map Amendment (ZONE22-0003)

This action recommends to the City Council adoption of the Zone Map Amendment for the subject properties. This action is contingent upon annexation of the subject properties to the City of Wilsonville (ANNX22-0002). Case files STG122-0003, STG222-0003, SDR22-0003, SUBD22-0002, TPLN22-0002, SROZ22-0005, and SRIR22-0003 are contingent on City Council action on the Zone Map Amendment request.

No conditions for this request.

Request C: Stage 1 Preliminary Plan (STG122-0003)

Approval of Stage 1 Preliminary Plan (STG122-0003) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).

No conditions for this request

Request D: Stage 2 Final Plan (STG222-0003)

Approval of the Stage 2 Final Plan (STG222-0003) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).

PDD 1. General: The approved Stage 2 Final Plan (Final Plan) shall control the issuance of all building permits and shall restrict the nature, location and design of all uses. The Planning Director through the Class 1 Administrative Review Process may approve minor changes to the Final Plan if such changes are consistent with the purposes and general character of the Final Plan. All other modifications shall be processed

	in the same manner as the original application and shall be subject to the same procedural requirements. See Finding D4.
PDD 2.	<u>Prior to Final Plat Approval:</u> On the Final Subdivision Plat, public pedestrian and bicycle access easements, including egress and ingress, shall be established across the entirety of all pathways located in private tracts. See Finding D13.
PDD 3.	<u>General:</u> All crosswalks shall be clearly marked with contrasting paint or paving materials (e.g., pavers, light-colored concrete inlay between asphalt, or similar contrast). See Finding D16.
PDD 4.	<u>General:</u> Any area, whether in a garage or in a driveway, counted as a required parking space shall have the minimum dimensions of 9 feet by 18 feet. See Finding D19.
PDD 5.	<u>Prior to Final Plat Approval:</u> A waiver of remonstrance against formation of a local improvement district (LID) shall be recorded in the County Recorder's Office as well as the City's Lien Docket as part of the recordation of the final plat. In light of the developer's obligation to pay an Infrastructure Supplemental Fee and Boeckman Bridge Fee in accordance with the Development and Annexation Agreement required by Condition of Approval PDA 1, the LID Waiver for a specific parcel within the Frog Pond Terrace development shall be released upon official recording of the release of the waiver only after payment of the Infrastructure Supplemental Fee and Boeckman Bridge Fee. Further, the developer shall pay all costs and fees associated with the City's release of the LID Waiver. See Finding D32.
PDD 6.	<u>General:</u> All travel lanes shall be constructed to be capable of carrying a twenty-three (23) ton load. See Finding D28.

Request E: Site Design Review of Parks and Open Space (SDR22-0003)

	Approval of Site Design Review of Parks and Open Space (SDR22-0003) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).
PDE 1.	<u>General:</u> Construction, site development, and landscaping shall be carried out in substantial accord with the Development Review Board approved plans, drawings, sketches, and other documents. Minor revisions may be approved by the Planning Director through administrative review pursuant to Section 4.030. See Finding E3.
PDE 2.	<u>Prior to Final Plat Approval:</u> All landscaping and site furnishings required and approved by the Development Review Board for common tracts shall be installed prior to Final Plat Approval unless security equal to one hundred and ten percent (110%) of the cost of the landscaping as determined by the Planning Director is filed with the City assuring such installation within six (6) months of Final Plat Approval. "Security" is cash, certified check, time certificates of deposit, assignment of a savings account, an irrevocable letter of credit, or such other assurance of completion as shall meet with the approval of the City Attorney. In such cases the developer shall also provide written authorization, to the satisfaction of the City Attorney, for the City or its designees to enter the property and complete the landscaping as approved. If installation of the landscaping is not completed within the six-month period, or within an extension of time authorized by the DRB, the

	security may be used by the City to complete the installation. Upon completion of the installation, any portion of the remaining security deposited with the City will be returned to the applicant/owner. See Finding E13.
PDE 3.	<u>Prior to Final Plat Approval:</u> The applicant shall either (1) enter into a Residential Subdivision Development Compliance Agreement with the City that covers installation of street trees and right-of-way landscaping or (2) install all street trees and other right-of-way landscaping. See Finding E13.
PDE 4.	<u>Ongoing:</u> The approved landscape plan is binding upon the applicant/owner. Substitution of plant materials, irrigation systems, or other aspects of an approved landscape plan shall not be made without official action of the Planning Director or Development Review Board, pursuant to the applicable sections of Wilsonville’s Development Code. See Finding E14.
PDE 5.	<u>Ongoing:</u> All landscaping shall be continually maintained, including necessary watering, weeding, pruning, and replacing, in a substantially similar manner as originally approved by the DRB, unless altered as allowed by Wilsonville’s Development Code. See Findings E15 and E16.
PDE 6.	<p><u>General:</u> The following requirements for planting of shrubs and ground cover shall be met:</p> <ul style="list-style-type: none"> • Non-horticultural plastic sheeting or other impermeable surface shall not be placed under landscaping mulch. • Native topsoil shall be preserved and reused to the extent feasible. • Surface mulch or bark dust shall be fully raked into soil of appropriate depth, sufficient to control erosion, and shall be confined to areas around plantings. • All shrubs shall be well branched and typical of their type as described in current AAN Standards and shall be equal to or better than 2-gallon containers and 10-inch to 12-inch spread. • Shrubs shall reach their designed size for screening within three (3) years of planting. • Ground cover shall be equal to or better than the following depending on the type of plant materials used: gallon containers spaced at 4 feet on center minimum, 4-inch pot spaced 2 feet on center minimum, 2-1/4-inch pots spaced at 18-inch on center minimum. • No bare root planting shall be permitted. • Ground cover shall be sufficient to cover at least 80% of the bare soil in required landscape areas within three (3) years of planting. • Appropriate plant materials shall be installed beneath the canopies of trees and large shrubs to avoid the appearance of bare ground in those locations. • Compost-amended topsoil shall be integrated in all areas to be landscaped, including lawns. See Finding E20.
PDE 7.	<u>General:</u> All trees shall be balled and burlapped and conform in size and grade to “American Standards for Nursery Stock” current edition. See Finding E20.

PDE 8.	Ongoing: Plant materials shall be installed to current industry standards and be properly staked to ensure survival. Plants that die shall be replaced in kind, within one growing season, unless appropriate substitute species are approved by the City. See Finding E21.
PDE 9.	General: A note shall be added to the Landscape Plans (Sheet 2.00) in the construction plan set specifying that all landscape areas shall be watered by a fully automatic underground irrigation system. See Finding E21.
PDE 10.	Prior to issuance of any Public Works permits: The applicant / owner shall submit information demonstrating compliance with the Public Works Standards and Frog Pond West Master Plan. The street lighting shall be Aurora style streetlights, as Westbrook is no longer approved by PGE. The applicant/owner shall provide a ‘stamped’ engineering plan and supporting information that shows the proposed street light locations meet the appropriate AASHTO lighting standards for all proposed streets. See Finding E24.
PDE 11.	Prior to Final Plat Approval: All street signs shall be installed and utilize the City-approved sign cap on street name signs throughout the entirety of the subdivision, matching the design used in the previously approved subdivisions within Frog Pond West. The developers will buy the signs from the City. See Finding E28.

Request F: Tentative Subdivision Plat (SUBD22-0002)

Approval of the Tentative Subdivision Plat (SUBD22-0002) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).	
PDF 1.	Prior to Final Plat Approval: Any necessary easements or dedications shall be identified on the Final Subdivision Plat.
PDF 2.	Prior to Final Plat Approval: The Final Subdivision Plat shall indicate dimensions of all lots, lot area, minimum lot size, easements, proposed lot and block numbers, parks/open space by name and/or type, and any other information that may be required as a result of the hearing process for the Stage 2 Final Plan or the Tentative Plat.
PDF 3.	Prior to Final Plat Approval: Where any street will be extended signs stating “street to be extended in the future” or similar language approved by the City Engineer shall be installed. See Finding D33 and F13.
PDF 4.	Prior to Final Plat Approval: The applicant/owner shall submit for review and approval by the City Attorney CC&R’s, bylaws, etc. related to the maintenance of the open space tracts. Such documents shall assure the long-term protection and maintenance of the open space tracts.
PDF 5.	Prior to Final Plat Approval: For all public pipeline easements, public access easements, and other easements, as required by the city, shown on the Final Subdivision Plat, the applicant/owner and the City shall enter into easement agreements on templates established by the City specifying details of the rights and responsibilities associated with said easements and such agreements will be recorded in the real property records of Clackamas County. See Finding F17.
PDF 6.	Prior to Final Plat Approval: Prior to transfer of Tract A to the City, the

applicant/owner shall provide a Phase I Environmental Site Assessment (ESA) addressed to the City. Should the Phase I ESA determine a likelihood of site contamination, the applicant/owner shall provide a Phase II ESA. At this time, the applicant/owner may either work with the City on a remediation plan, if needed, or provide a public easement for the trail within Tract A and maintain possession of Tract A. See Finding F24.

Request G: Type C Tree Plan (TPLN22-0002)

Approval of the Type C Tree Plan (TPLN22-0002) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).

PDG 1. General: This approval for removal applies only to the 149 trees identified in the applicant's submitted Tree Maintenance and Protection Plan, see Exhibit B2 All other trees on the property shall be maintained unless removal is approved through separate application.

PDG 2. Prior to Grading Permit Issuance: The applicant/owner shall submit an application for a Type C Tree Removal Permit on the Planning Division's Development Permit Application form, together with the applicable fee. In addition to the application form and fee, the applicant/owner shall provide the City's Planning Division an accounting of trees to be removed within the project site, corresponding to the approval of the Development Review Board. The applicant/owner shall not remove any trees from the project site until the tree removal permit, including the final tree removal plan, have been approved by the Planning Division staff. See Finding G19.

PDG 3. Prior to Issuance of Type C Tree Removal Permit Required in Condition of Approval PDG 2: The applicant shall pay an amount of \$13,200 (\$300 per tree for 44 trees) into the City's Tree Fund as mitigation for 44 trees removed from the site for which insufficient space exists on site and another desirable off-site location is not currently available. See Findings G22 and G24.

PDG 4. Prior to Final Plat Approval: The applicant/owner shall install the required mitigation trees, as shown in the applicant's sheets L2.00-L2.20 per Section 4.620 WC. See Finding G22.

PDG 5. General: The permit grantee or the grantee's successors-in-interest shall cause the replacement trees to be staked, fertilized and mulched, and shall guarantee the trees for two (2) years after the planting date. A "guaranteed" tree that dies or becomes diseased during the two (2) years after planting shall be replaced. See Finding G23.

PDG 6. Prior to Commencing Site Grading: The applicant/owner shall install 6-foot-tall chain-link fencing around the drip line of preserved trees. The fencing shall comply with Wilsonville Public Works Standards Detail Drawing RD-1230. See Finding G25.

Request H: Abbreviated SROZ Map Verification (SROZ22-0005)

Approval of the SROZ Map Verification (SROZ22-0005) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).

No conditions for this request.

Request I: Abbreviated SRIR Review (SRIR22-0003)

Approval of the SRIR Review (SRIR22-0003) is contingent on City Council approval of the Zone Map Amendment request (ZONE22-0003).
No conditions for this request.

The following Conditions of Approval are provided by the Engineering, Natural Resources, or Building Divisions of the City’s Community Development Department or Tualatin Valley Fire and Rescue, all of which have authority over development approval. A number of these Conditions of Approval are not related to land use regulations under the authority of the Development Review Board or Planning Director. Only those Conditions of Approval related to criteria in Chapter 4 of Wilsonville Code and the Comprehensive Plan, including but not limited to those related to traffic level of service, site vision clearance, recording of plats, and concurrency, are subject to the Land Use review and appeal process defined in Wilsonville Code and Oregon Revised Statutes and Administrative Rules. Other Conditions of Approval are based on City Code chapters other than Chapter 4, state law, federal law, or other agency rules and regulations. Questions or requests about the applicability, appeal, exemption or non-compliance related to these other Conditions of Approval should be directed to the City Department, Division, or non-City agency with authority over the relevant portion of the development approval.

Engineering Division Conditions:

Request D: Stage 2 Final Plan (STG222-0003)

PFD 1.	<u>Ongoing:</u> Public Works Plans and Public Improvements shall conform to the “Public Works Plan Submittal Requirements and Other Engineering Requirements” in Exhibit C1 and to specifics as found in the Frog Pond West Master Plan (July 17, 2017).
PFD 2.	<u>General:</u> Streets shall be primarily constructed per the street type and cross-section as show in the Frog Pond West Master Plan.
PFD 3.	<u>Prior to issuance of a Public Works Permit:</u> Applicant shall be required to enter into a Development and Annexation Agreement with the City.
PFD 4.	<u>Prior to Issuance of Public Works Permit:</u> Submit site plans to Engineering showing street improvements including pavement, curb, planter strip, street trees, sidewalk, and driveway approaches along site frontage on SW Woodbury Loop, W Brisband Street and Street B. Street improvements shall be constructed in accordance with the Public Works Standards.
PFD 5.	<u>Prior to Issuance of Public Works Permit:</u> A final stormwater report shall be submitted for review and approval. The stormwater report shall include information and calculations to demonstrate how the proposed development meets the treatment and flow control requirements. The stormwater report shall also include conveyance calculations to demonstrate that any downstream impacts can be mitigated and demonstrate that any upstream areas can be conveyed through the storm system.
PFD 6.	<u>Prior to the Issuance of the Public Works Permit:</u> The applicant shall obtain an NPDES 1200C permit from the Oregon Department of Environmental Quality and a Local Erosion Control Permit from the City of Wilsonville. All erosion control measures shall be in place prior to starting any construction work, including any

	demolition work. Permits shall remain active until all construction work is complete and the site has been stabilized. Permits will be closed out when home construction is completed and final certificates of occupancy have been issued for all homes in the subdivision.
PFD 7.	<u>With the Public Works Permit:</u> The applicant shall provide to the City a copy of correspondence that plans have been distributed to the franchise utilities. <u>Prior to the issuance of the Public Works Permit:</u> The applicant shall coordinate the proposed locations and associated infrastructure design for the franchise utilities. Should permanent/construction easement or right-of-way be required to construct or relocate a franchise utility, the applicant shall provide a copy of the recorded documents.
PFD 8.	<u>Prior to final completeness of the Public Works Permit:</u> Submit documentation that the existing on-site septic system was properly decommissioned per the requirements of OAR 340-071-0185.
PFD 9.	<u>Prior to final completeness of the Public Works Permit:</u> Submit documentation that the existing well serving this property was properly abandoned in accordance with OAR 690-240 and the Water Resources Department requirements.
PFD 10.	<u>Prior to the issuance of the Public Works Permit:</u> The applicant shall submit design and construction plans including the Trailhead Park and the Boeckman Creek Trail with signage. The trail cross-section shall be compliant with Figure 32 of the Frog Pond West Master Plan and designed in conformance with the City Public Works Standards. The applicant shall be credited for costs of design and construction of the Trailhead Park and the Boeckman Creek Trail and associated amenities through the Parks SDC credits as provided in the Development and Annexation Agreement.

Request F: Tentative Subdivision Plat (SUBD22-0002)

	The following conditions are in addition to the dedications and easements shown on the Tentative Subdivision Plat
PFF 1.	<u>Prior to Final Plat Approval:</u> Show dedication of a 20-foot right-of-way along SW Brisband Street right-of-way frontage.
PFF 2.	<u>Prior to Final Plat Approval:</u> Show dedication of a 6-foot public utility easement along the SW Brisband Street, SW Woodbury Loop, Street B, and SW Frog Pond Lane right-of-way frontages.
PFF 3.	<u>Prior to Final Plat Approval:</u> All public infrastructure improvements including but not limited to street, stormwater drainage, water quality and flow control, sanitary sewer, and water facilities shall be substantially complete with approval from the Community Development Director pursuant to Section 4.220 of the Development Code.

Natural Resources Division Conditions:

All Requests

NR 1.	Natural Resource Division Requirements and Advisories listed in Exhibit C2 apply to the proposed development.
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Building Division Conditions:

All Requests

BD1.	<u>Prior to Construction of the Subdivision's Residential Homes:</u> Designated through approved planning procedures, the following conditions must be met and approved through the Building Official: <ol style="list-style-type: none">a. Street signs shall be installed at each street intersection and approved per the public works design specifications and their required approvals.b. All public access roads and alleys shall be complete for access to the residential home sites.c. All public and service utilities to the private building lots must be installed, tested and approved by the City of Wilsonville's Engineering/Public Works Department or other service utility designee.d. All required fire hydrants and the supporting piping system shall be installed, tested, and approved by the Fire Code Official prior to model home construction. (OFC 507.5).
BD2.	<u>Prior to Occupancy:</u> New and existing buildings shall have approved address labels. Building numbers or approved building identification shall be placed in a position that is plainly legible and visible from the street or road fronting the property, including monument signs. These numbers shall contrast with their background. Numbers shall be a minimum of 4 inches high with a minimum stroke width of 1/2 inch. (OFC 505.1) Where vehicle access is from a private drive or alley, provide a physical address on the new home, as well as near the intersection of the private drive and public road. The address must be visible from any approaches by a monument, pole or other sign used to identify the structure. (ORSC R319)
BD1.	<u>Prior to Demolition of Structures:</u> <ol style="list-style-type: none">a. Photos must be taken of any structures on the site that are to be demolished. Photos must be a clear resolution (when printed, a minimum resolution of 300 dpi or greater) and should include a representative sample of the exterior of the structure from each direction. A demolition permit must be obtained from the Building Division and photos must be submitted with the demolition permit application. (Wilsonville Code 9.270)b. An NPDES 1200-C permit must be obtained from DEQ with a copy provided to the City.

Master Exhibit List:

The entry of the following exhibits into the public record by the Development Review Board confirms its consideration of the application as submitted. The exhibit list below includes exhibits for Planning Case File DB22-0003. The exhibit list below reflects the electronic record posted on the City's website and retained as part of the City's permanent electronic record. Any inconsistencies between printed or other electronic versions of the same Exhibits are inadvertent and the version on the City's website and retained as part of the City's permanent electronic record shall be controlling for all purposes.

Planning Staff Materials

- A1. Staff report and findings (this document)
- A2. Staff's Presentation Slides for Public Hearing (to be presented at Public Hearing)

Materials from Applicant

- B1. Applicant's Narrative and Materials – Available Under Separate Cover**
 - Land Use Application Forms
 - Land Use Narrative
 - Appendix A: Annexation Documents
 - Appendix B: Preliminary Storm Drainage Report
 - Appendix C: Wetland Delineation and Abbreviated Significant Resource Impact Report
 - Appendix D: Traffic Memorandum
 - Appendix E: Arborist Report and Tree Plan
 - Appendix F: Geotechnical Engineering and Infiltration Testing Report
 - Appendix G: Stafford Meadows PUD Recorded CC&Rs and Bylaws
 - Appendix H: Example Building Elevations
 - Appendix I: Republic Services Service Provider Letter
 - Appendix J: TVF&R Permit and Approved Plans

- B2. Full Size Drawings and Plans – Available Under Separate Cover**
 - P0.00 Cover Sheet
 - P1.00 Existing Conditions - Aerial
 - P1.10 Existing Conditions – Survey Mapping
 - P2.00 Preliminary Site Plan
 - P2.10 Preliminary Street Cross Sections
 - P3.00 Preliminary Plat
 - P4.00 Preliminary Utility Plan
 - P5.00 Preliminary Grading Plan
 - P6.00 Annexation Plan
 - P7.00 Zoning Map
 - P8.00 Proposed Circulation and Connectivity

P9.00 Shadow Plat Street Layout
P10.00 Subdistricts and Density
P11.00 Sight Lines to Boeckman Creek Corridor
L1.00 Tree Protection-Removal Plan
L1.10 Tree Inventory
L1.20 Tree Inventory
L2.00 Overall Landscape Plans
L2.10 Tract Landscape Plans
L2.20 Raingarden and LIDA Planting Plans
L2.30 Landscape Details
L3.00 Landscape Notes and Details
IL-1 Illumination Notes
IL-2 Illumination Details
IL-3 Illumination Plan

- B3.** Incompleteness Response Letter Dated May 18, 2022
- B4.** Memorandum from Applicant Regarding Tree Removal, Replacement and Mitigation Dated August 11, 2022

Development Review Team Correspondence

- C1.** Engineering Division Conditions
- C2.** Natural Resources Conditions

Procedural Statements and Background Information:

1. The statutory 120-day time limit applies to this application. The applicant first submitted the application on March 17, 2022. Staff conducted a completeness review within the statutorily allowed 30-day review period and found the application to be incomplete on April 11, 2022. The applicant submitted additional material on May 19, 2022. Staff conducted a completeness review within the statutorily allowed 30-day review period and deemed the application complete on June 16, 2022. The City must render a final decision for the request, including any appeals, by October 14, 2022.
2. Surrounding land uses are as follows:

Compass Direction	Zone:	Existing Use:
North	RRFF-5 and PDR5	Rural Residential/Agriculture (Clackamas County) Residential
East	RRFF-5	Rural Residential/Agriculture (Clackamas County)
South	RN	Residential (Morgan Farm)
West	FDA-H and PDR5	Residential

3. Previous City Planning Approvals: None
4. The applicant has complied with Sections 4.013-4.031 of the Wilsonville Code, said sections pertaining to review procedures and submittal requirements. The required public notices have been sent and all proper notification procedures have been satisfied.

Findings:

NOTE: Pursuant to Section 4.014 the burden of proving that the necessary findings of fact can be made for approval of any land use or development application rests with the applicant in the case.

General Information

Application Procedures-In General

Section 4.008

The City's processing of the application is in accordance with the applicable general procedures of this Section.

Initiating Application

Section 4.009

The owners of all property included in the application signed the application forms. West Hills Land Development LLC initiated the application with their approval.

Pre-Application Conference

Subsection 4.010 (.02)

Following a request from the applicant, the City held a pre-application conference for the proposal on September 16, 2021 (PA21-0021), in accordance with this subsection.

Lien Payment before Approval

Subsection 4.011 (.02) B.

No applicable liens exist for the subject property. The application can thus move forward.

General Submission Requirements

Subsection 4.035 (.04) A.

The applicant has provided all of the applicable general submission requirements contained in this subsection.

Zoning-Generally

Section 4.110

This proposed development is in conformity with the applicable zoning district and general development regulations listed in Sections 4.150 through 4.199, applied in accordance with this Section.

Request A: Annexation (ANNX22-0002)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Comprehensive Plan-Annexation and Boundary Changes

Consistent with Future Planned Public Services
Implementation Measure 2.2.1.a.

- A1.** The Frog Pond West Master Plan establishes the future planned public services and funding plan for the subject property. The development of public services and funding will be consistent with the Frog Pond West Master Plan thus allowing the annexation to proceed. West Hills Land Development LLC and the City will enter into a Development and Annexation Agreement detailing provision and development of public services as required by Conditions of Approval.

Demonstrated Need for Immediate Urban Growth
Implementation Measure 2.2.1.a.

- A2.** Metro brought the subject area into the Urban Growth Boundary (UGB) in 2002 to meet demonstrated regional housing needs. With adoption for the Frog Pond West Master Plan the subject area is now primed for development to help meet regional housing needs.

Adherence to State and Metro Annexation Laws and Standards
Implementation Measure 2.2.1.e.

- A3.** This review applies all applicable Metro and State rules, regulations, and statutes as seen in findings below.

Orderly, Economic Provision of Public Facilities and Services
Implementation Measure 2.2.1.e. 1.

- A4.** The Frog Pond Area Plan includes implementation measures to ensure the orderly and economic provision of public facilities and services for the Frog Pond Area, including Frog Pond West. The applicant proposes site development with concurrent applications for Stage 1 and Stage 2 Planned Unit Development and Land Division, which proposes the extension of public facilities and services to the Frog Pond Terrace site. These proposed services are generally consistent with the Frog Pond Area Plan and Frog Pond West Master Plan, and the City's Finance Plan and Capital Improvements Plan.

Availability of Sufficient Land for Uses to Insure Choices over 3-5 Years
Implementation Measure 2.2.1.e. 2.

- A5.** The inclusion of the Frog Pond area within the UGB and the adoption of the Frog Pond Area Plan demonstrate the need for residential development in the Frog Pond area.

Annexation of the subject site will allow development of the uses envisioned by the adopted Frog Pond West Master Plan.

Wilsonville Development Code-Annexation

Authority to Review Quasi-Judicial Annexation Requests

Subsections 4.030 (.01) A. 11, 4.031 (.01) K, 4.033 (.01) F., and 4.700 (.02)

- A6.** The review of the quasi-judicial annexation request by DRB and City Council is consistent with the authority established in the Development Code.

Procedure for Review, Etc.

Subsections 4.700 (.01). and (.04)

- A7.** The submission materials from the applicant include an annexation petition signed by the necessary parties, a legal description and map of the land to be annexed, and a narrative describing conformance with applicable criteria. City Council, upon recommendation from the DRB, will declare the subject property annexed.

Adoption of Development Agreement with Annexation

Subsection 4.700 (.05)

- A8.** Subject to requirements in this subsection and the Frog Pond West Master Plan, Conditions of Approval require the necessary parties enter into a Development and Annexation Agreement with the City covering the annexed land.

Metro Code

Local Government Boundary Changes

Chapter 3.09

- A9.** The request is within the UGB, meets the definition of a minor boundary change, satisfies the requirements for boundary change petitions, and is consistent with both the Comprehensive Plan and the Frog Pond West Master Plan.

Oregon Revised Statutes (ORS)

Authority and Procedure for Annexation

ORS 222.111

- A10.** The request meets the applicable requirements in State statute including the facts that the subject property is within the UGB and is contiguous to the City, the request has been initiated by the property owners of the land being annexed, and all property owners and a majority of electors within the annexed area consent in writing to the annexation.

Procedure Without Election by City Electors
ORS 222.120

A11. The City charter does not require elections for annexation, the City is following a public hearing process defined in the Development Code, and the request meets the applicable requirements in State statute including the facts that all property owners and a majority of electors within the annexed area consent in writing to the annexation. Annexation of the subject property thus does not require an election.

Annexation by Consent of All Owners and Majority of Electors
ORS 222.125

A12. All property owners and a majority of electors within the annexed area have provided their consent in writing. However, the City is following a public hearing process as prescribed in the City's Development Code concurrent with a Zone Map Amendment request and other quasi-judicial land use applications.

Oregon Statewide Planning Goals

Planning Goals – Generally
Goals 1, 2, 5, 6, 8, 9, 11, 12, 13, 14

A13. The area proposed for annexation will be developed consistent with the City's Comprehensive Plan and the Frog Pond West Master Plan, both of which have been found to meet the Statewide Planning Goals.

Housing
Goal 10

A14. The proposed Comprehensive Plan map amendments will continue to allow the City to meet its housing goals and obligations reflected in the Comprehensive Plan. Specifically:

- The City has an existing Housing Needs Analysis and Buildable Lands Inventory adopted in 2014 collectively known as the Wilsonville Residential Land Study. The key conclusions of this study are that Wilsonville: (1) may not have a 20-year supply of residential land and (2) the City's residential policies meet Statewide Planning Goal 10 requirements.
- Under the Metro forecast, Wilsonville is very close to having enough residential land to accommodate expected growth. Wilsonville could run out of residential land by 2032.
- If Wilsonville grows faster than the Metro forecast, based on historic City growth rates, the City will run out of residential land before 2030.
- Getting residential land ready for development is a complex process that involves decisions by Metro, City decision makers, landowners, the Wilsonville community,

and others. The City has started the master planning process for Frog Pond East and South neighborhoods to ensure that additional residential land is available within the City. The City also adopted a new plan and development standards for more multi-family units in the Wilsonville Town Center. Finally, the City provides infill opportunities, allowing properties with existing development at more rural densities to be re-zoned for more housing, which this application falls under.

- Wilsonville is meeting Statewide Planning Goal 10 requirements to “provide the opportunity for at least 50 percent of new residential units to be attached single family housing or multiple family housing” and to “provide for an overall density of 8 or more dwelling units per net buildable acre.”
- Wilsonville uses a two-map system, with a Comprehensive Plan Map designating a density for all residential land and Zone Map with zoning to implement the Comprehensive Plan designation. Rezoning the subject property to a higher density zone consistent with the Comprehensive Plan will ensure related Zone Map Amendment and development approvals support the Comprehensive Plan and Goal 10.
- The proposal increases density allowed and development capacity within the existing urban growth boundary and improving the capacity identified in the 2014 study. The type of housing is anticipated to be single-family; however, the approval will allow middle housing consistent with House Bill 2001 and newly implemented City code to allow middle housing types.
- The proposal directly impacts approximately 2.9% of the developable residential land identified in the 2014 Wilsonville Residential Land Study (approximately 10.9 of 477 acres).

Request B: Zone Map Amendment (ZONE22-0003)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Comprehensive Plan

“Residential Neighborhood” on Comprehensive Plan Map, Purpose of “Residential Neighborhood” Designation

Policy 4.1.7.a.

- B1.** The subject area has a Comprehensive Plan Map Designation of “Residential Neighborhood”. The designation enables development of the site consistent with the purpose of this designation as set forth in the legislatively adopted Frog Pond West Master Plan, resulting in an attractive, cohesive and connected residential neighborhood with high

quality architecture and community design, transportation choices, and preserved and enhanced natural resources.

“Residential Neighborhood” Zone Applied Consistent with Comprehensive Plan
Implementation Measure 4.1.7.c.

- B2.** The applicant requests the subject area receive the zoning designation of Residential Neighborhood (RN) as required for areas with the Comprehensive Plan Map Designation of “Residential Neighborhood”.

Safe, Convenient, Healthful, and Attractive Places to Live
Implementation Measure 4.1.4.c.

- B3.** The proposed RN zoning allows the use of planned developments consistent with the legislatively adopted Frog Pond West Master Plan, enabling development of safe, convenient, healthful, and attractive places to live.

Residential Density
Implementation Measure 4.1.4.u.

- B4.** The subject area will be zoned RN allowing application of the adopted residential densities of the Frog Pond West Master Plan. The sub-districts established in the Frog Pond West Master Plan govern the allowed residential densities. See also Request C, Stage 1 Preliminary Plan.

Development Code

Zoning Consistent with Comprehensive Plan
Section 4.029

- B5.** The applicant requests a zone change concurrently with a Stage 1 Preliminary Plan, Stage 2 Final Plan, and other related development approvals. The proposed zoning designation of RN is consistent with the Comprehensive Plan “Residential Neighborhood” designation. See also Finding B2 above.

Base Zones
Subsection 4.110 (.01)

- B6.** The requested zoning designation of RN is among the base zones identified in this subsection.

Residential Neighborhood (RN) Zone

Purpose of the Residential Neighborhood (RN) Zone
Subsection 4.127 (.01)

- B7.** The request to apply the RN Zone on lands designated “Residential Neighborhood” on the Comprehensive Plan Map enables a planned development process implementing the

“Residential Neighborhood” policies and implementation measures of the Comprehensive Plan and the Frog Pond West Master Plan.

Permitted Uses in the Residential Neighborhood (RN) Zone
Subsection 4.127 (.02)

- B8.** Concurrent with the Zone Map Amendment request the applicant requests approval of a 19-lot residential subdivision. Single-family dwelling units, Duplex, Triplex, Quadplex, Cluster Housing, Cohousing, Cluster Housing (Frog Pond West Master Plan), open space, and public and private parks are among the permitted uses in the RN Zone.

Residential Neighborhood (RN) Zone Sub-districts and Residential Density
Subsection 4.127 (.05) and (.06)

- B9.** The proposed uses, number of lots, preservation of open space, and general block and street layout are generally consistent with the Frog Pond West Master Plan. Specifically in regards to residential land use lot count, the proposed Stage 1 area includes a portion of medium lot Sub-district 4 and a portion of large lot Sub-district 7. A full discussion of compliance with the sub-districts and residential density is included under Request C, Stage 1 Preliminary Plan.

Request C: Stage 1 Preliminary Plan (STG122-0003)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Comprehensive Plan

City Supports Development of Land within City Consistent with Land Use Designation Goal 2.1, Policy 2.1.1., Implementation Measure 2.1.1.a., Policy 2.2.1.

- C1.** The City’s Comprehensive Plan, Frog Pond Area Plan, and Frog Pond West Master Plan designate the subject property for residential use. The Frog Pond West Master Plan specifically identifies procedures for development of the subject and surrounding land, thus supporting its development for residential lots so long as proposed development meets applicable policies and standards.

Urbanization for Adequate Housing for Workers Employed in Wilsonville, Jobs and Housing Balance
Implementation Measures 2.1.1.b., 4.1.4.l., 4.1.4.p.

- C2.** The proposal provides for urbanization of an area planned for residential use to provide additional housing within the City available to workers employed within the City. However, no special provisions or programs target the units to workers employed within the City.

Encouraging Master Planning of Large Areas
Implementation Measure 2.1.1.f.2.

- C3. The proposed development is part of a larger area covered by the Frog Pond West Master Plan consistent with the City's policies and encouragement related to master planning.

City Obligated to do its Fair Share to Increase Development Capacity within UGB
Implementation Measure 2.2.1.b.

- C4. The property is within the urban growth boundary and available for use consistent with its residential designation. Allowing development of the property for additional residential lots supports the further urbanization and increased capacity of residential land within the UGB.

Urban Development Only Where Necessary Facilities can be Provided
Implementation Measure 3.1.2.a.

- C5. As can be found in the findings for the Stage 2 Final Plan, the proposed development provides all necessary facilities and services consistent with the Frog Pond West Master Plan.

Provision of Usable Open Space
Implementation Measures 3.1.11.p., 4.1.5.kk.

- C6. The proposal is located within medium- and large-lot sub districts and does not require usable open space. However, the Frog Pond Area Plan and Frog Pond West Master Plan includes a portion of the Boeckman Creek Regional Trail alignment within the subject property. The applicant proposes open space Tract A that contains the required portion of the Boeckman Creek Trail alignment as well as a trailhead park.

Consistency with Street Demonstration Plans May Be Required
Implementation Measure 3.2.2.

- C7. Section 4.127 requires the area subject to the Stage 1 Preliminary Plan be consistent with the street demonstration plan in Figure 18 of the Frog Pond West Master Plan. The proposed street layout is generally consistent with the street demonstration plan with variations as noted in Finding D15.

Wide Range of Housing Choices, Planning for a Variety of Housing
Policy 4.1.4., Implementation Measures 4.1.4.b., 4.1.4.c., 4.1.4.d., 4.1.4.j., 4.1.4.o.

- C8. The Frog Pond Area Plan and the Frog Pond West Master Plan identify a variety of single-family homes and middle housing as the appropriate housing types for the subject area as part of the broader mix of housing in Wilsonville.

Accommodating Housing Needs of Existing Residents
Implementation Measure 4.1.4.f.

- C9. The applicant intends to provide a housing product attractive to existing residents of the City as a whole, including current homeowners and current renters looking to purchase in

a medium to high price range, similar to other nearby homes. The applicant proposes medium and large-sized lots to accommodate detached dwelling units. Within the Residential Neighborhood zone a variety of middle housing types is also permitted.

Planned Development Regulations

Planned Development Lot Qualifications

Subsection 4.140 (.02)

C10. The planned 19-lot subdivision will accommodate residential building lots, provide functional public streets, and be surrounded by open space and recreational opportunities consistent with the purpose of Section 4.140. The proposed subdivision is 10.9 acres and is suitable for planning and development. The property is not currently nor is it proposed to be zoned “PD” (Planned Development). Concurrently with the request for a Stage 1 Preliminary Plan, the applicant proposes to rezone the property to RN (Residential Neighborhood). Pursuant to the Frog Pond West Master Plan development in the RN zone follows the same planned development procedure as PDR zones.

Ownership Requirements

Subsection 4.140 (.03)

C11. The owners of the subject property have signed an application form included with the application.

Professional Design Team

Subsection 4.140 (.04)

C12. Li Alligood, AICP, of Otak is the coordinator of a professional design team with all the necessary disciplines including engineers, a landscape architect, and a planner, among other professionals.

Planned Development Application Requirements

Subsection 4.140 (.07)

C13. Review of the proposed Stage 1 Preliminary Plan has been scheduled for a public hearing before the DRB in accordance with this subsection and the applicant has met all the applicable submission requirements as follows:

- The property affected by the Stage 1 Preliminary Plan is under an application by the property owners.
- The applicant submitted a Stage 1 Preliminary Plan request on a form prescribed by the City.
- The applicant identified a professional design team and coordinator. See Finding C12.
- The applicant has stated the uses involved in the Stage 1 Preliminary Plan and their locations.
- The applicant provided boundary information.
- The applicant has submitted sufficient topographic information.
- The applicant provided a tabulation of the land area to be devoted to various uses.

- Any necessary performance bonds will be required.

Standards for Residential Development in Any Zone

Outdoor Recreational Area and Open Space Land Area Requirements

Subsection 4.113 (.01)

C14. The Frog Pond West Master Plan controls outdoor recreational area and open spaces for the subject and surrounding areas. The subject property contains land within the R-7 medium lot sub-district and the R-10 large lot sub-district. These sub-districts do not require outdoor recreational area and open space, therefore this subsection does not apply. However, the proposed development contains Tract A that includes a portion of the Boeckman Creek Trail and a trailhead park providing non-required open space area.

Residential Neighborhood Zone

Permitted Uses

Subsection 4.127 (.02)

C15. The applicant proposes residential lots and open spaces, which are or will accommodate allowed uses in the RN Zone.

Residential Neighborhood Sub-districts

Subsection 4.127 (.05)

C16. The proposed Stage 1 Preliminary Plan area includes all a portion of medium lot Sub-district 4 and a portion of large lot Sub-district 7.

Minimum and Maximum Residential Lots

Subsection 4.127 (.06)

C17. The proposed number of residential lots, preservation of open space, and general block and street layout are generally consistent with the Frog Pond West Master Plan. Specifically in regards to residential lot count, the proposed Stage 1 area includes a portion of medium lot Sub-district 4 and a portion of large lot Sub-district 7. The following table summarizes how the proposed residential lots in each Sub-district are consistent with the Master Plan recommendations.

The applicant proposes 16 lots in Sub-district 4, which is two (2) greater than the maximum allowed, and three (3) lots in Sub-district 7, which is one (1) lot fewer than the minimum proportional density calculation. However, the total number of 19 lots proposed is within the proportional range of 16-19 lots for the entire site.

Subdistrict and Land Use Designation	Gross Site Area (ac)	Percent of Sub-district	Established lot range for Sub-district	Lot Range for Site	Proposed Lots	Total lots within Sub-district - Approved and Proposed
4 – R-7	3.4	13.5%	86-107	12-14 ^{*1}	16	32 Approved 16 Proposed 48 Total
7 – R-10	1.6	16.4%	24-30	4-5 ^{*2}	3	5 Approved 3 Proposed 8 Total
Total	5.0			16-19	19	

^{*1} Per Section 4.127 (.06) A. 2., up to an additional 10% of maximum density is allowed based on a SROZ boundary verification; this allows one (1) additional lot for a maximum of 15 lots.

^{*2} Per Section 4.127 (.06) B., the City may allow a reduction in the minimum density for a sub-district when it is demonstrated that the reduction is necessary due to topography, protection of trees, wetlands and other natural resources, constraints posed by existing development, infrastructure needs, provision of non-residential uses and similar physical conditions

With regard to Sub-district 4, per Section 4.127 (.06) A. 2., the City may allow an increase in the maximum density up to a maximum of 10% of what would otherwise be permitted based on an adjustment to an SROZ boundary that is consistent with Section 4.139.06. As a result of SROZ map verification in Sub-district 4, the maximum of 14 lots may be increased by one (1) lot to 15 allowed. The applicant proposes 16 lots in Sub-district 4, one (1) greater than the maximum with the allowed additional lot.

With regard to Sub-district 7, per Section 4.127 (.06) B., the City may allow a reduction in the minimum density for a sub-district when it is demonstrated that the reduction is necessary due to topography, protection of trees, wetlands and other natural resources, constraints posed by existing development, infrastructure needs, provision of non-residential uses and similar physical conditions. One (1) fewer lot than the minimum density is proposed in Sub-district 7 due to a combination of factors related to topography, infrastructure needs, and provision of non-residential uses.

The proposed development of one (1) fewer lot in the Sub-district 7 portion of the site allows for future development that meets all dimensional standards for lots in this part of the site. Because the Sub-district 4 portion of the site has substantially fewer development constraints, it can easily accommodate the one (1) additional lot needed to satisfy the minimum density requirement for Sub-district 7. As proposed the total number of lots meets the overall minimum proportional density for the site when the two Sub-districts are combined.

The configuration of lots as proposed, which meet all dimensional requirements for the individual lots, will allow for buildout of these sub-districts consistent with the Master Plan recommendations.

Parks and Open Space beyond Master Planned Parks
Subsection 4.127 (.09) B.

C18. The proposed Stage 1 Preliminary Plan only includes land within the R-7 medium lot sub-district and the R-10 large lot sub-district. Properties within these sub-districts are exempt from the requirements of this section.

Request D: Stage 2 Final Plan (STG222-0003)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Stage 2 Final Plan Submission Requirements and Process

Consistency with Comprehensive Plan and Other Plans
Subsection 4.140 (.09) J. 1.

D1. As demonstrated in Findings C1 through C9 under the Stage 1 Preliminary Plan the project is consistent with the Comprehensive Plan. This review includes review for consistency with the Frog Pond West Master Plan.

Traffic Concurrency
Subsection 4.140 (.09) J. 2.

D2. The Traffic Impact Analysis (see Exhibit B1) performed by the City's consultant, DKS Associates, identifies the most probable used intersection for evaluation as:

- SW Boeckman Road/SW Sherman Drive

The SW Boeckman Road/SW Sherman Drive intersection is the only Frog Pond West access to the proposed development. Other study intersections, such as SW Stafford Road/SW 65th Avenue and SW Canyon Creek Road/SW Boeckman Road, were not included in this analysis as the trips through those intersections would be insignificant (around 10 peak hour trips). Additionally, the SW Stafford Road/SW 65th Avenue intersection was not included as it was found to already fail to meet County standards under existing 2021 conditions, as noted in the Frog Pond Crossing TIA and Frog Pond Vista TIA. As noted in both of those reports, an intersection improvement has already been identified in the County's Capital Improvement Project List.

The study intersection meets the City of Wilsonville's operating standard for the existing conditions. The intersection will continue to perform at Level of Service D or better with the proposed project and thus meets City standards.

Facilities and Services Concurrency
Subsection 4.140 (.09) J. 3.

- D3.** The applicant proposes sufficient facilities and services, including utilities, concurrent with development of the residential subdivision.

Adherence to Approved Plans
Subsection 4.140 (.09) L.

- D4.** Conditions of Approval ensure adherence to approved plans except for minor revisions approved by the Planning Director.

General Residential Development Standards

Effects of Compliance Requirements and Conditions on Cost of Needed Housing
Subsection 4.113 (.13)

- D5.** No parties have presented evidence nor has staff discovered evidence that provisions of this section are such that additional conditions, either singularly or cumulatively, have the effect of unnecessarily increasing the cost of housing or effectively excluding a needed housing type.

Underground Utilities Required
Subsection 4.118 (.02) and Sections 4.300 to 4.320

- D6.** The applicant proposes installation of all new utilities underground. The applicant will underground all existing utility lines facing the subject property.

Habitat Friendly Development Practices to be Used to the Extent Practicable
Subsection 4.118 (.09)

- D7.** The applicant has designed the project to minimize grading to only what is required to install site improvements and build homes. The applicant has designed, and will construct, water, sewer, and stormwater infrastructure in accordance with the applicable City requirements in order to minimize adverse impacts on the site, adjacent properties, and surrounding resources. The project avoids impacts to Boeckman Creek, which is within the Significant Resource Overlay Zone (SROZ). The applicant has included the Abbreviated Significant Resource Impact Report (SRIR) in Exhibit B1.

Residential Neighborhood (RN) Zone

General Lot Development Standards
Subsection 4.127 (.08) Table 2.

- D8.** The applicant proposes lots reviewed for consistency with applicable development code standards and the Frog Pond West Master Plan. The proposed lots meet or exceed the standards of Table 2, or the applicant can meet or exceed the standards with final design, as follows:

Standard	R-7 Medium Lot Sub-district 4		R-10 Large Lot Sub-district 7		Compliance Notes
	Required	Proposed	Required	Proposed	
Min. Lot Size	6,000 sf	6,013-7,043 sf	8,000 sf	8,021-9,262 sf	Standard is met.
Min. Lot Depth	60 ft	60+ ft	60 ft	80+ ft	Standard is met.
Min. Lot Width	35 ft	35+ ft	40 ft	55+ ft	Standard is met.
Max. Lot Coverage	45%	45% max	40%	40% max	Standard can be met. Example floor plan footprint shows range of 1,268 sf to 2,480 sf. One or more could be placed on each proposed lot without exceeding max lot coverage.
Max. Bldg Height	35 ft	35 ft max	35 ft	35 ft max	Standard can be met. Per applicant's materials, houses will be max 35 ft height.
Min. Front Setback	15 feet	15 ft min	20 ft	20 ft min	Standard can be met.
Min. Rear Setback	15 feet	15 ft min	20 ft	20 ft min	Standard can be met.
Min. Side Setback	5 feet (10 feet for corner lots)	5 ft min (10 ft min on corner lots)	5 feet (10 feet for corner lots)	5 ft min (10 ft min on corner lots)	Standard can be met.
Min. Garage Setback from Alley	18 ft	18 ft. min	18 ft	18 ft. min	Standard can be met.
Min. Garage Setback from Street	20 ft	20 ft min	20 ft	20 ft min	Standard can be met.

Frog Pond West-Specific Lot Development Standards
Subsection 4.127 (.08) C. and D.

D9. The proposed lots meet standards specific to Frog Pond West, or the applicant can meet or the standards with final design, as follows:

Standard				Compliance Notes	
Small-lot Subdistricts (include at least one element)	Sufficient Information Provided to Determine Compliance	Compliance to be Determined at Building Permit Review	N/A		Subject property does not contain land within the small-lot sub-district.
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Wall and landscaping for lots adjacent to Stafford and Boeckman Road	Provided	Not Provided	N/A		The subject property does not abut Stafford or Boeckman Road.
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
No driveway access to collectors for small and medium lots	Met	Not Met	N/A		Subject property does not include collectors.
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Open Space Requirements

Subsection 4.127 (.09)

D10. As stated in Finding C18 (Subsection 4.127 (.09) B.), the R-10 and R-7 sub-districts involved in the proposal are exempt from open space requirements.

Block, Access, and Connectivity Consistent with Frog Pond West Neighborhood Plan
Subsection 4.127 (.10) and Figure 18. Frog Pond West Master Plan

D11. The Street Demonstration Plan is an illustrative layout of the desired level of connectivity in the Frog Pond West neighborhood and is intended to be guiding, not binding, allowing for flexibility provided that overall connectivity goals are met. The block size and shape, access, and connectivity of the proposed subdivision complies with Figure 18 of the Frog Pond West Master Plan or is an allowed variation as follows:

Street Segment	Generally Consistent with Figure 18	Allowed Variation	Explanation of Variation
SW Brisband Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SW Woodbury Loop	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See explanation below.
Street B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See explanation below.

SW Brisband Street is extended west on the south side of the subdivision as shown on the Street Demonstration Plan. Existing slopes and the presence of the SROZ preclude extending SW Frog Pond Lane farther to the west in a broad radius as anticipated by the Street Demonstration Plan. Rather, SW Frog Pond Lane is proposed to terminate in an “eyebrow” allowing for a turn to the south that aligns with a future extension of SW Painter Drive from the Morgan Farm development. SW Woodbury Loop is extended north from Morgan Farm into the proposed development, curving east at its northern extent to intersect with the future extension of SW Painter Drive north from Morgan Farm to SW Frog Pond Lane. The proposed modifications do not require out-of-direction pedestrian or vehicular travel nor do they result in greater distances for pedestrian access to the proposed subdivision from the surrounding future streets than would otherwise be the case if the Street Demonstration Plan were adhered to.

Main Entrance, Garage, Residential Design, and Building Orientation Standards
 Subsections 4.127 (.14-.18)

D12. The proposed subdivision provides lots of sufficient size and of a typical orientation to meet the RN zone design standards, or the applicant can meet the standards at the time of building permit review, as follows:

Standard			Compliance Notes
Main Entrance Standards	Sufficient Information Provided to Determine Compliance	Compliance to be Determined at Building Permit Review	Standard can be met.
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Garage Width Standards	Sufficient Information Provided to Determine Compliance	Compliance to be Determined at Building Permit Review	Standard can be met. Subdivision includes a mix of lots greater and less than 50 feet at the front lot line.
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Garage Orientation Towards Alley or Shared Driveway	Alleys or Shared Driveways in Subdivision	No Alleys or Shared Driveways in Subdivision	Not applicable.
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Residential Design Standards	Sufficient Information Provided to Determine Compliance	Compliance to be Determined at Building Permit Review	Standard can be met.
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Small-Lot Subdistricts – House Plan Variety	Required Duplex/Attached Units N/A	Provided Duplex/Attached Units N/A	Not applicable. Not within small lot sub-district.
Fences	Sufficient Information Provided to Determine Compliance <input type="checkbox"/>	Compliance to be Determined at Building Permit Review <input checked="" type="checkbox"/>	Standard can be met.
Homes Adjacent to School and Parks and Public Open Spaces	Sufficient Information Provided to Determine Compliance <input type="checkbox"/>	Compliance to be Determined at Building Permit Review <input checked="" type="checkbox"/>	Several lots face open space tracts and/or the Boeckman Creek Trail. Lot 4 is adjacent to, and Lots 10-12 are across the street from, the trailhead park.

On-site Pedestrian Access and Circulation

Continuous Pathway System

Section 4.154 (.01) B. 1.

D13. The submitted plans show sidewalks along the frontages of all lots providing a continuous pathway system throughout the proposed subdivision. In addition to the sidewalk system, pedestrian/bicycle connections are proposed through Tract A. These additional connections are consistent with Figure 18 of the Frog Pond West Master Plan. The proposal also enables connections to future adjacent development. To ensure full access and function of the planned pathway system for the public, a Condition of Approval requires public access easements across all pathways within private tracts.

Safe, Direct, and Convenient

Section 4.154 (.01) B. 2.

D14. The submitted plans show sidewalks and pathways providing safe, direct, and convenient connections consistent with Figure 18 of the Frog Pond West Master Plan.

Vehicle/Pathway Separation

Section 4.154 (.01) B. 3.

D15. The proposed design vertically and or horizontally separates all sidewalks and pathways from vehicle travel lanes except for driveways and crosswalks.

Crosswalks Delineation
Section 4.154 (.01) B. 4.

D16. A Condition of Approval requires all crosswalks shall be clearly marked with contrasting paint or paving materials (e.g., pavers, light-colored concrete inlay between asphalt, or similar contrast).

Pathway Width and Surface
Section 4.154 (.01) B. 5.

D17. The applicant proposes all pathways to be concrete, asphalt brick/masonry pavers, or other durable surface, and at least 5 feet wide, meeting or exceeding the requirement.

Parking Area Design Standards

Minimum and Maximum Parking
Subsection 4.155 (.03) G.

D18. Each dwelling unit requires one parking space. Between garages and driveways, each home will have at least two parking spaces.

Other Parking Area Design Standards
Subsections 4.155 (.02) and (.03)

D19. The applicable standards are met as follows:

Standard	Met	Explanation
Subsection 4.155 (.02) General Standards		
B. All spaces accessible and usable for parking	☒	Though final design of garages and driveways is not part of current review they are anticipated to meet minimum dimensional standards to be considered a parking space as well as fully accessible. A Condition of Approval requires the dimensional standards to be met.
I. Surfaced with asphalt, concrete or other approved material	☒	Garages and driveways will be surfaced with concrete.
Drainage meeting City standards	☒	Drainage is professionally designed and being reviewed to meet City standards.
Subsection 4.155 (.03) General Standards		
A. Access and maneuvering areas adequate	☒	Parking areas will be typical residential design adequate to maneuver vehicles and serve needs of homes.
A.2. To the greatest extent possible, vehicle and pedestrian traffic separated	☒	Pursuant to Section 4.154, pedestrian circulation is separate from vehicle circulation by vertical separation except at driveways and crosswalks.

Other General Regulations

Access, Ingress and Egress Subsection 4.167 (.01)

D20. Planned access points are typical of local residential streets. The City will approve final access points for individual driveways at the time of issuance of building permits.

Protection of Natural Features and Other Resources

General Terrain Preparation Section 4.171 (.02)

D21. The site has been planned and designed to avoid the natural features on the site, including tree groves, the SROZ, and the Boeckman Creek corridor. Grading, filling, and excavating will be conducted in accordance with the Uniform Building code. The site will be protected with erosion control measures and the creek corridor will be staked prior to commencement of site work to avoid damage to vegetation or injury to habitat. The removal of trees is necessary for site development, but replacement trees will be planted per the provisions of this code.

Trees and Wooded Areas Section 4.171 (.04)

D22. Existing vegetation will not be disturbed, injured or removed prior to land use and permit approvals. Existing trees have been retained wherever possible; however, trees will need to be removed to provide area for home construction. Trees are preserved within the SROZ in Tract A, which contains a portion of the Boeckman Creek Trail alignment.

Trees identified to be retained will be protected during site preparation and construction according to the City Public Works design specifications as outlined in the Arborist Report and a Condition of Approval.

Earth Movement Hazard Area Subsection 4.171 (.07)

D23. The applicant performed geotechnical investigations on all of the subject properties and found no earth movement hazards. A geotechnical report is provided in Exhibit B1.

Historic Resources Subsection 4.171 (.09)

D24. Neither the applicant nor the City have identified any historic, cultural, or archaeological items on the sites, nor does any available information on the history of the site compel further investigation.

Public Safety and Crime Prevention

Design for Public Safety, Addressing, Lighting to Discourage Crime
Section 4.175

D25. The design of the Frog Pond Terrace development deters crime and ensures public safety. The lighting of the streets allows for visibility and safety. The orientation of homes toward streets provides “eyes on the street.” All dwellings will be addressed per Building and Fire Department requirements to allow identification for emergency response personnel. Dwellings will have exterior porch lighting, which will support the streetlights to provide safety and visibility.

Landscaping Standards

Intent and Required Materials
Subsections 4.176 (.02) C. through I.

D26. Planting areas along the street and open spaces within the subdivision are generally open and are not required to provide any specific screening, thus the design of the landscaping follows the general landscaping standards. The plantings include a mixture of ground cover, shrubs, trees, and stormwater swale plantings. Proposed street trees are consistent with previously established trees in other Frog Pond subdivisions.

Types of Plant Material, Variety and Balance, Use of Natives When Practicable
Subsection 4.176 (.03)

D27. The applicant proposes a professionally designed landscape using a variety of plant material. There are no parking areas proposed and no parking area landscaping is required. The landscape plans included in the applicant’s materials (Sheets L2.00-2.20) illustrate the location and type of landscaping within public rights-of-way and tracts. The design includes a variety of native plants, particularly in the open space area.

Street Improvement Standards

Conformance with Standards and Plan
Subsection 4.177 (.01), Figures 19-27 Frog Pond West Master Plan

D28. The proposed streets appear to meet the City’s Public Works Standards and Transportation System Plan. Further review of compliance with Public Works Standards and Transportation System Plan will occur with review and issuance of the Public Works construction permit.

Street Design Standards-Future Connections and Adjoining Properties
Subsection 4.177 (.02) A.

D29. The street network has been designed per the Frog Pond West Master Plan Street Demonstration Plan. Future connections to adjacent sites are anticipated to the east. The proposed design provides for continuation of streets with Morgan Farm to the south and

Frog Pond Overlook to the north. SW Woodbury Loop is extended north and east, consistent with the Frog Pond West Master Plan. SW Brisband Street is extended west, and Street B provides an eastern connection to future development to the east consistent with the Street Demonstration Plan.

City Engineer Determination of Street Design and Width

Subsection 4.177 (.02) B.

D30. The City Engineering Division has preliminarily found the street designs and widths to be consistent with the cross sections shown in the Frog Pond West Master Plan. The Engineering Division will check final conformance with the cross sections shown in the Frog Pond West Master Plan during review of the Public Works permit.

Right-of-Way Dedication

Subsection 4.177 (.02) C. 1.

D31. The tentative subdivision plat shows right-of-way dedication. See Request F.

Waiver of Remonstrance Required

Subsection 4.177 (.02) C. 2.

D32. This Subsection requires that a waiver of remonstrance against formation of a local improvement district (LID) be recorded in the County Recorder's Office as well as the City's Lien Docket as a part of recordation of a final plat. This requirement is contained in the Development and Annexation Agreement and notes that in light of the developer's obligation to pay an Infrastructure Supplemental Fee and Boeckman Bridge Fee, release of the LID Waiver for a specific parcel within the Frog Pond Terrace development may occur upon official recording of the release of the waiver only after payment of these fees, and will require the developer to pay all costs and fees associated with the City's release of the waiver. A Condition of Approval outlines the process to be followed with respect to the required LID Waiver and its release for a specific parcel.

Dead-end Streets Limitations

Subsection 4.177 (.02) D.

D33. No dead-end streets are proposed in the development; however, the north end of SW Woodbury Loop and the eastern extent of Street B will temporary dead end until the property to the east develops (see Sheet P3.0).

Corner Vision Clearance

Subsection 4.177 (.02) E.

D34. Street locations and subdivision design allow the meeting of vision clearance standards.

Vertical Clearance

Subsection 4.177 (.02) F.

D35. Nothing in the proposed subdivision design would prevent the meeting of vertical clearance standards.

Interim Improvement Standards

Subsection 4.177 (.02) G.

D36. The City Engineer has or will review all interim improvements to meet applicable City standards.

Sidewalks Requirements

Subsection 4.177 (.03)

D37. The applicant proposes sidewalks along all public street frontages abutting proposed lots.

Bicycle Facility Requirements

Subsection 4.177 (.04)

D38. No on street bicycle facilities are required within the project area for Frog Pond Terrace. Condition of Approval PFD 2 requires all cross-sections to comply with the Frog Pond West Master Plan requirements prior to Final Plat approval. See Exhibit C1.

Pathways in Addition to, or in Lieu of, a Public Street

Subsection 4.177 (.05)

D39. No pedestrian and bicycle accessways are proposed in addition to, or in lieu of, public streets within the subdivision. The Boeckman Creek Trail in Tract A provides additional north-south connectivity through the development, connecting to the trail in Morgan Farm to the south and Frog Pond Overlook and Vista to the north.

Transit Improvements Requirements

Subsection 4.177 (.06)

D40. The applicant does not propose any transit improvements within the proposed subdivision. There is not currently transit service along SW Stafford Road or SW Boeckman Road; however, as the Frog Pond area develops, additional transit service may be added. Any transit improvements would be addressed at the time the need for additional transit service is identified.

Intersection Spacing

Offset Intersections Not Allowed

Subsection 4.177 (.09) A.

D41. The applicant does not propose any offset intersections.

Minimum Street Intersection Spacing in Transportation System Plan Table 3-2
Subsection 4.177 (.09) B.

D42. Streets within the development are local streets, which are not subject to minimum spacing standards.

Mixed Solid Waste and Recyclables Storage

Review by Franchise Garbage Hauler
Subsection 4.179 (.07)

D43. The proposed development does not contain multi-family residential or non-residential uses requiring the solid waste storage area to meet code requirements for size; however, the applicant has provided a letter from the franchised garbage hauler, Republic Services, to ensure the site plan provides adequate access for the hauler's equipment. The service provider letter is included in Exhibit B1. A turnaround with a stabilizing grass paving system is provided between Lots 16 and 17 at the north end of SW Woodbury Loop for the hauler's trucks; this turnaround is expected to be removed when future extension of the street occurs, providing needed connectivity. Homeowners of Lots 14-19 will be required to locate receptacles close to the turnaround and Lots 8-10 and 13 will be required to locate receptacles close to SW Woodbury Loop until these streets are extended east in the future.

Request E: Site Design Review of Parks and Open Space (SDR22-0003)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Objectives of Site Design Review

Proper Functioning of the Site, High Quality Visual Environment Meets Objectives
Subsections 4.400 (.02) A., 4.400 (.02) C.-J., and Subsection 4.421 (.03)

E1. Project elements subject to Site Design Review include: tracts and their landscaping; landscaping in the public right-of-way; retaining walls; and park or open space furnishings. The proposed development is intended to advance the vision for Frog Pond West by incorporating the natural areas on site, providing attractive streetscapes, and enhancing the existing neighborhood to the south and the future neighborhoods to the east and north. The proposed professionally designed landscaping provides stormwater, air quality, and other site functions while demonstrating consistency with the Frog Pond West Master Plan. The landscaping also adds to the high quality visual environment. By functioning properly and contributing to a high quality visual environment, the proposed design fulfills the objectives of Site Design Review.

Encourage Originality, Flexibility, and Innovation
Subsection 4.400 (.02) B. and Subsection 4.421 (.03)

- E2. The City code affords the applicant's design team flexibility to create an original design appropriate for the site while ensuring consistency with the Frog Pond West Master Plan.

Jurisdiction and Power of the DRB for Site Design Review

Development Review Board Jurisdiction
Section 4.420

- E3. A Condition of Approval ensures landscaping is carried out in substantial accord with the DRB-approved plans, drawings, sketches, and other documents. The City will issue no building permits prior to approval by the DRB. The applicant has not requested variances from site development requirements.

Design Standards

Preservation of Landscaping
Subsection 4.421 (.01) A. and Section 4.171

- E4. The site layout takes into consideration existing landscaping and preserving it where possible. The applicant has included an open space (Tract A) that allows for the preservation of a substantial area of SROZ within the development.

Relation of Proposed Buildings to Environment
Subsection 4.421 (.01) B.

- E5. No structures are proposed by the proposed development at this time. Building design will be reviewed during the building permit review process.

Surface Water Drainage
Subsection 4.421 (.01) D.

- E6. As demonstrated in the applicant's plans, attention has been given to proper site surface drainage so that removal of surface waters will not adversely affect neighboring properties or the public storm drainage system. The location of LIDA facilities within the planter strips of the public streets, stormwater facilities within tracts, and details of LIDA facility planting are shown in Sheets P2.00 and L2.00-L2.20. Appendix B in Exhibit B1 includes the Preliminary Stormwater Drainage Report.

Above Ground Utility Installations
Subsection 4.421 (.01) E.

- E7. The applicant proposes no above ground utility installations. Existing overhead lines will be undergrounded. Each lot will be served by a sanitary sewer line (see Sheet P4.00). Storm sewage disposal is provided by a storm drain system connecting to each on-site stormwater facility.

Screening and Buffering of Special Features
Subsection 4.421 (.01) G.

- E8. No exposed storage areas, exposed machinery installations, surface areas, truck loading areas, utility buildings and structures, and similar accessory areas and structures exist or are proposed that require screening.

Applicability of Design Standards
Subsection 4.421 (.02)

- E9. This review applies the design standards to the proposed streetscape and open space areas, which are the portions of the proposed development subject to Site Design Review.

Conditions of Approval Ensuring Proper and Efficient Functioning of Development
Subsection 4.421 (.05)

- E10. Staff recommends no additional conditions of approval to ensure the proper and efficient functioning of the development.

Site Design Review Submission Requirements

Submission Requirements
Section 4.440

- E11. The applicant has provided a sufficiently detailed landscape plan and street tree plan to review the streetscape and open space areas subject to Site Design Review.

Time Limit on Site Design Review Approvals

Void after 2 Years
Section 4.442

- E12. The applicant has indicated that they will pursue development within two years. The approval will expire after two years if not vested, or an extension is not requested and granted, consistent with City Code.

Installation of Landscaping

Landscape Installation or Bonding
Subsection 4.450 (.01)

- E13. A Condition of Approval ensures all landscaping in common tracts shall be installed shall be installed prior to Final Plat Approval, unless security equal to one hundred and ten percent (110%) of the cost of the landscaping as determined by the Planning Director is filed with the City assuring such installation within six (6) months of occupancy. "Security" is cash, certified check, time certificates of deposit, assignment of a savings account, irrevocable letter of credit, or such other assurance of completion as shall meet with the approval of the City Attorney. In such cases the developer shall also provide written authorization, to the satisfaction of the City Attorney, for the City or its designees to enter

the property and complete the landscaping as approved. If installation of the landscaping is not completed within the six-month period, or within an extension of time authorized by the DRB, the security may be used by the City to complete the installation. Upon completion of the installation, any portion of the remaining security deposited with the City shall be returned to the applicant. A Condition of Approval further requires that the applicant, prior to Final Plat Approval, either (1) enter into a Residential Subdivision Development Compliance Agreement with the City that covers installation of street trees and right-of-way landscaping or (2) install all street trees and other right-of-way landscaping.

Approved Landscape Plan

Subsection 4.450 (.02)

E14. A Condition of Approval ensures the approved landscape plan is binding upon the applicant/owner. It prevents substitution of plant materials, irrigation systems, or other aspects of an approved landscape plan without official action of the Planning Director or DRB, as specified in this Code.

Landscape Maintenance and Watering

Subsection 4.450 (.03)

E15. A Condition of Approval ensures continual maintenance of the landscape, including necessary watering, weeding, pruning, and replacing, in a substantially similar manner as originally approved by the DRB, unless altered with appropriate City approval.

Modifications of Landscaping

Subsection 4.450 (.04)

E16. A Condition of Approval provides ongoing assurance by preventing modification or removal without the appropriate City review.

Natural Features and Other Resources

Protection

Section 4.171

E17. The proposed design of the site provides for protection of natural features and other resources consistent with the proposed Stage 2 Final Plan for the site as well as the purpose and objectives of Site Design Review. See Findings D21 through D24 under Request D.

Landscaping

Landscape Standards Code Compliance

Subsection 4.176 (.02) B.

E18. The applicant requests no waivers or variances to landscape standards. Thus, all landscaping and screening must comply with standards of this section.

Intent and Required Materials

Subsections 4.176 (.02) C. through I.

E19. The general landscape standard applies throughout different landscape areas of the site and the applicant proposes landscape materials to meet each standard in the different areas. Site Design Review is being reviewed concurrently with the Stage 2 Final Plan which includes an analysis of the functional application of the landscaping standards. See Finding D28 under Request D.

Quality and Size of Plant Material

Subsection 4.176 (.06)

E20. The quality of the plant materials must meet American Association of Nurserymen (AAN) standards as required by this Subsection. Trees as shown on the applicant's plans are specified at 2-inch caliper or greater than 6 feet for evergreen trees. Some shrubs are specified on the Landscape Plans (Sheet L2.00-L2.20) as one (1) gallon, rather than two (2) gallon or greater in size. Ground cover is specified as greater than 4 inches. Turf or lawn is used for a minimal amount of the proposed public landscape area. Conditions of Approval ensure the requirements of this subsection are met including use of native topsoil, mulch, and non-use of plastic sheeting.

Landscape Installation and Maintenance

Subsection 4.176 (.07)

E21. Installation and maintenance standards are or will be met by Conditions of Approval as follows:

- Plant materials are required to be installed to current industry standards and be properly staked to ensure survival.
- Plants that die are required to be replaced in kind, within one growing season, unless appropriate substitute species are approved by the City.
- The applicant's narrative states that "As detailed on Sheet 2.00, all landscape areas will be watered by a fully automatic underground irrigation system". However, the sheet does not include a note to this effect. A Condition of Approval ensures the requirement is met.

Landscape Plans

Subsection 4.176 (.09)

E22. The applicant's submitted landscape plans, Sheets L2.00-L2.20, provide the required information.

Completion of Landscaping

Subsection 4.176 (.10)

E23. The applicant has not requested to defer installation of plant materials.

Public Lighting Plan

Lighting of Local Streets

Local Street, page 78 and Figure 42 of Frog Pond West Master Plan

- E24.** Sheet P4.00 in Exhibit B2 shows proposed street lights on local streets. The Frog Pond Master Plan requires PGE Option 'B' LED with Westbrook 35W LED and 18' decorative aluminum pole (20-foot mounting height with 4 foot mast arm). These are dark sky friendly and located with a professionally designed layout to minimize negative effects on future homes, provide for safety, and use a consistent design established by the Frog Pond West Master Plan. The applicant's materials specify the Aurora as the proposed fixture. As explained in the applicant's materials, the Westbrook is no longer available from PGE and the Aurora is now used as the closest matching design.

Lighting of Pathways

Pedestrian Connections, Trailheads and Paths, page 80 and Figure 42 of Frog Pond West Master Plan

- E25.** The Frog Pond West Master Plan requires a Public Lighting Plan and recommended light plan hierarchy to define various travel routes within Frog Pond. Pedestrian connections, trailheads, and paths are required to be uniformly illuminated and shall follow the Public Works Standards for Shared Use Path Lighting. The applicant has coordinated with the City about lighting along the Boeckman Creek Trail and, as a result, does not include any lighting of this pathway to minimize light pollution and discourage use of the trail after dark. However, lighting is provided at the trailhead park as required.

Street Tree Plan

Tree Lists for Primary Streets, Neighborhood Streets, and Pedestrian Connections

Pages 81-83 and Figure 43 of Frog Pond West Master Plan

- E26.** The Street Tree Plan provides guidance tied to the street typology for Frog Pond West, with an overall intent to beautify and unify the neighborhood while providing a variety of tree species. The Frog Pond West Master Plan intends to achieve continuity through consistent tree types and consistent spacing along both sides of a street.

The proposed street tree species comply with the Frog Pond West Master Plan or will with a condition of approval as follows:

Street Name	Street Type	Proposed Species	Compliance Notes
SW Brisband Street	Neighborhood	American Linden	On approved list; consistent with species established in Morgan Farm
SW Woodbury Loop (north-south segment)	Neighborhood	American Yellowwood	On approved list; consistent with species established in Morgan Farm
SW Woodbury Loop (east-west segment)	Neighborhood	Skyline Thornless Honey Locust	On approved list
Street B	Neighborhood	Glenleven Little Leaf Linden	On approved list

Gateways, Monuments and Signage

Unifying Frog Pond Name, Gateway Signs, Prohibition on Individual Subdivision Signs
Page 92 of the Frog Pond West Master Plan

E27. There are no neighborhood gateways planned within the area of Frog Pond Terrace; therefore, no monument signs or other permanent subdivision identification signs are permitted.

Unifying Frog Pond Name, Sign Caps on Street Signs
Page 92 of the Frog Pond West Master Plan

E28. As required by a Condition of Approval, all street name signs will be installed prior to Final Plat approval and utilize the City-approved sign cap throughout the subdivision, matching the design used in the previously approved subdivisions within Frog Pond. The developers will buy the signs from the City to ensure uniformity throughout the Frog Pond West neighborhood.

Request F: Tentative Subdivision Plat (SUBD22-0002)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Land Division Authorization

Plat Review Authority

Subsection 4.202 (.01) through (.03)

- F1.** The DRB is reviewing the tentative subdivision plat according to this subsection. The Planning Division will review the final plat under the authority of the Planning Director to ensure compliance with the DRB review of the tentative subdivision plat.

Undersized Lots Prohibited

Subsection 4.202 (.04) B.

- F2.** The proposed lots meet the dimensional standards of the RN zone and the R-7 and R-10 sub-districts. See Finding D8 under Request D.

Plat Application Procedure

Pre-Application Conference

Subsection 4.210 (.01)

- F3.** The applicant requested and attended a pre-application conference in accordance with this subsection.

Tentative Plat Preparation

Subsection 4.210 (.01) A.

- F4.** Following gathering information from Planning staff, the appropriate professionals from the applicant's design firm, Otak, prepared the tentative plat.

Tentative Plat Submission

Subsection 4.210 (.01) B.

- F5.** The applicant has submitted a tentative plat with all the required information.

Phases to Be Shown

Subsection 4.210 (.01) D.

- F6.** The applicant is proposing to construct the development in one phase and does not include a phasing plan along with the application materials.

Remainder Tracts

Subsection 4.210 (.01) E.

- F7.** The tentative plat accounts for all land within the plat area as lots, tracts, or right-of-way.

Street Requirements for Land Divisions

Master Plan or Map Conformance

Subsection 4.236 (.01)

F8. As found in other findings in this report, the land division conforms with the Transportation System Plan, Frog Pond West Master Plan, and other applicable plans.

Adjoining Streets Relationship

Subsection 4.236 (.02)

F9. The proposed plat enables the extension of streets consistent with the Frog Pond West Master Plan.

Streets Standards Conformance

Subsection 4.236 (.03)

F10. As part of the Stage 2 Final Plan approval, the streets conform with Section 4.177 and generally conform with block sizes established in the Frog Pond West Master Plan. See Request D.

Topography

Subsection 4.236 (.05)

F11. The street layout recognizes topographical conditions, including the location of the SROZ on site and no street alignment adjustments from the Frog Pond West Master Plan are necessary.

Reserve Strips

Subsection 4.236 (.06)

F12. The City is not requiring any reserve strips for the reasons stated in this subsection.

Future Street Expansion

Subsection 4.236 (.07)

F13. Where the Frog Pond West Master Plan shows street extensions, the tentative plat extends the right-of-way to the edge of the plat. A Condition of Approval requires signs stating “street to be extended in the future” or similar language approved by the City Engineer.

Additional Right-of-Way

Subsection 4.236 (.08)

F14. A Condition of Approval ensures dedication of sufficient right-of-way for planned improvements along SW Brisband Street.

Street Names

Subsection 4.236 (.09)

F15. None of the streets within the subdivision have been identified within the Frog Pond West Master Plan. The applicant includes extensions of or improvements to SW Brisband Street and SW Woodbury Loop established in Morgan Farm to the south names them accordingly. In addition to the existing streets, the applicant proposes Street B, which will be subject to naming and approval by the City Engineer who will check all street names to not be duplicative of existing street names and otherwise conform to the City's street name system at the time of Final Plat review.

General Land Division Requirements-Blocks

Blocks for Adequate Building Sites in Conformance with Zoning
Subsection 4.237 (.01)

F16. The proposed blocks substantially conform to Figure 18 of the Frog Pond West Master Plan. The proposed blocks allow for lots meeting the minimum size and other dimensional standards for the relevant sub-districts of the Frog Pond West Master Plan. See Finding D11 under Request D.

General Land Division Requirements-Easements

Utility Line Easements
Subsection 4.237 (.02) A.

F17. As will be further verified during the Public Works Permit review and Final Plat review, public utilities will be placed within public rights-of-way or within public utility easements (PUE) adjacent to the public streets. Stormwater facility easements are proposed where these facilities are located on private property and are intended to be shared between more than one lot. Franchise utility providers will install their lines within public utility easements established on the plat.

Water Courses
Subsection 4.237 (.02) B.

F18. The applicant proposes a dedicated tract for the drainage way and associated riparian area of the Boeckman Creek SROZ.

General Land Division Requirements-Pedestrian and Bicycle Pathways

Mid-block Pathways Requirement
Subsection 4.237 (.03)

F19. The proposed development does not include any pedestrian and bicycle pathways as required by the Frog Pond West Master Plan. See Finding D13 under Request D.

General Land Division Requirements-Tree Planting

Tree Planting Plan Review and Street Tree Easements
Subsection 4.237 (.04)

F20. The City is reviewing the tree planting plan concurrently with the tentative plat, see Requests D and E.

General Land Division Requirements-Lot Size and Shape

Lot Size and Shape Appropriate
Subsection 4.237 (.05)

F21. The size, width, shape, and orientation of lots comply with the identified sub-districts in the Frog Pond West Master Plan. See Finding D11 in Request D, and Request I.

General Land Division Requirements-Access

Minimum Street Frontage
Subsection 4.237 (.06)

F22. The full width of the front lot line of each lot fronts a public street. Each lot meets or exceeds the minimum lot width at the front lot line. See Finding D11 in Request D.

General Land Division Requirements-Other

Lot Side Lines
Subsection 4.237 (.08)

F23. Almost all side lot lines run at a 90-degree angle to the front line. Angles and curves of streets necessitate the exceptions, including Lots 17 and 19.

Land for Public Purposes
Subsection 4.237 (.12)

F24. The subject property contains SROZ land surrounding Boeckman Creek. The Frog Pond West Master Plan indicates that the Boeckman Creek Regional Trail shall be provided along the western portion of the subject property along the SROZ. This land will become part of the parks and open space system to be dedicated to the City. A Condition of Approval ensures that, prior to dedication of Tract A, the applicant/owner shall provide a Phase I Environmental Site Assessment, and if warranted, and Phase II Environmental Site Assessment, addressed to the City.

Corner Lots
Subsection 4.237 (.13)

F25. All corner lots have radii exceeding the 10-foot minimum.

Lots of Record

Lots of Record
Section 4.250

F26. The applicant provided documentation all subject lots are lots of record.

Request G: Type C Tree Removal Plan (TPLN22-0002)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Type C Tree Removal

Review Authority When Site Plan Review Involved
Subsection 4.610.00 (.03) B.

G1. The requested tree removal is connected to Site Plan Review by the DRB and, thus, is under their authority.

Reasonable Timeframe for Removal
Subsection 4.610.00 (.06) B.

G2. It is understood that tree removal will be completed by the time the applicant completes construction of all houses and other improvements in the subdivision, which is a reasonable time frame for tree removal.

Security for Permit Compliance
Subsection 4.610.00 (.06) C.

G3. As allowed by Subsection 1, the City is waiving the bonding requirement as the application is required to comply with WC 4.264 (.01).

General Standards for Tree Removal, Relocation or Replacement

Preservation and Conservation
Subsection 4.610.10 (.01)

G4. Proposed land clearing is limited to designated street rights-of-way and areas necessary for construction of homes. Homes will be designed and constructed, as much as possible, to blend into the natural areas on the site.

Per the arborist's report included on Sheet L1.00 in Exhibit B2, as amended in Exhibit B4, there are 250 on-site trees and one (1) off-site tree in the inventory. One hundred one (101) on-site trees and one (1) off-site tree will be preserved with 149 on-site trees proposed for removal.

As shown on Sheet L1.00 (as amended in Exhibit B4), most of the trees to be removed are located within the grading limits of SW Woodbury Loop, within the building envelopes of Lots 12-15 and 18-19, and in the proposed trailhead park. The location of proposed streets was determined by the Frog Pond West Master Plan and the City's block length and perimeter standards. Removal of the trees is necessary for construction of site improvements, including utilities, streets, and residential homes. In addition, grading of each lot is needed to accommodate residential development and associated site improvements (driveways and walkways, stormwater management, outdoor yard areas, etc.). Reducing building footprints by increasing height is not a viable alternative as the height limit in the RN zone is 35 ft., or 2.5 stories.

Development Alternatives

Subsection 4.610.10 (.01) C.

- G5.** The Frog Pond West Master Plan provides clear direction for street connections, residential densities, and preservation of the SROZ. Preservation and conservation of 101 out of 250 trees on site is proposed and one (1) additional off-site tree (#30482) is being preserved north of TLID 2800 in the Frog Pond Lane right-of-way. The applicant proposes tree protection fencing around all protected trees in order to ensure their preservation during construction. Conditions of Approval ensure this criterion is met.

Land Clearing Limited to Right-of-Way and Areas Necessary for Construction

Subsection 4.610.10 (.01) D.

- G6.** The proposed clearing is necessary for streets, alleys, houses, and related improvements.

Residential Development to Blend into Natural Setting

Subsection 4.610.10 (.01) E.

- G7.** New tree plantings, preservation of existing trees within the SROZ, and new native ground cover proposed within Tract A allow the development to blend with the natural elements of the property. The part of the project area east and outside of the SROZ is somewhat more gently sloped and without significant natural features with which to blend.

Compliance with All Applicable Statutes and Ordinances

Subsection 4.610.10 (.01) F.

- G8.** As found elsewhere in this report, the City is applying the applicable standards.

Tree Relocation and Replacement, Protection of Preserved Trees

Subsection 4.610.10 (.01) G.

- G9.** Reviews of tree removal, replacements, and protection is in accordance with the relevant sections of the Code.

Tree Removal Limitations
Subsection 4.610.10 (.01) H.

G10. The proposed tree removal is due to health or necessary for construction.

Additional Standards for Type C Permits

Tree Survey and Tree Maintenance and Protection Plan to be Submitted
Subsection 4.610.10 (.01) I. 1.-2.

G11. The applicant submitted the required Tree Maintenance and Protection Plan and Tree Survey (see Exhibit B2 and Sheets L1.00-L1.20; as amended in Exhibit B4).

Utilities Locations to Avoid Adverse Environmental Consequences
Subsection 4.610.10 (.01) I. 3.

G12. The Utility Plan (Sheet P4.00) shows a design to minimize impact on the environment to the extent feasible given existing conditions, particularly the SROZ. The City will further review utility placement in relation to the SROZ and preserved trees during review of construction drawings and utility easement placement on the final plat.

Type C Tree Plan Review

Tree Removal Related to Site Development at Type C Permit
Subsection 4.610.40 (.01)

G13. Review of the proposed Type C Tree Plan is concurrent with other site development applications.

Standards and Criteria of Chapter 4 Applicable
Subsection 4.610.40 (.01)

G14. As found elsewhere in this report, the City's review applies applicable standards.

Application of Tree Removal Standards Can't Result in Loss of Development Density
Subsection 4.610.40 (.01)

G15. The proposed subdivision allows residential lot counts consistent with the Frog Pond West Master Plan.

Development Landscape Plan and Type C Tree Plan to be Submitted Together
Subsection 4.610.40 (.01)

G16. The applicant submitted the Type C Tree Plan concurrently with the landscape plan for the proposed development.

Type C Tree Plan Review with Stage 2 Final Plan
Subsection 4.610.40 (.01)

G17. Review of the proposed Type C Tree Plan is concurrent with the Stage 2 Final Plan. See Request D.

Required Mitigation May Be Used to Meet Landscaping Requirements
Subsection 4.610.40 (.01)

G18. The applicant proposes counting the proposed street trees and other landscaping trees as mitigation for removal.

No Tree Removal Before Decision Final
Subsection 4.610.40 (.01)

G19. Review of the proposed Type C Tree Plan is concurrent with other necessary land use approvals. The City will not issue any tree removal permit prior to final approval of concurrent land use requests and annexation into the City. While the land is currently under jurisdiction of Clackamas County, a Condition of Approval binds the applicant to no tree removal on the properties, except for hazardous situations unrelated to development, prior to issuance of the post-annexation tree removal permit by the City.

Tree Maintenance and Protection Plan Submission Requirements
Section 4.610.40 (.02)

G20. The applicant submitted the necessary copies of a Tree Maintenance and Protection Plan.

Tree Relocation, Mitigation, or Replacement

Tree Replacement Required
Subsection 4.620.00 (.01)

G21. Consistent with the tree replacement requirements for Type C Tree Removal Permits established by this subsection, the applicant proposes to plant mitigation trees consistent with Subsection 4.620.00 (.06).

Replacement Requirement: 1 for 1, 2-inch Caliper
Subsection 4.620.00 (.02)

G22. The applicant proposes planting 105 trees, 44 trees fewer than the one-to-one ratio required by this subsection. Insufficient space exists on site to replant the remaining trees in a desirable manner. The City does not currently have another site identified as desirable to plant the additional mitigation trees. Therefore, the applicant proposes, based on current bid prices, paying into the City's Tree Fund as mitigation for the remaining 44 trees an amount for \$13,200, equivalent to \$300 per tree for purchase and installation of 44 trees. A Condition of Approval ensures the requirement is met. Staff does not recommend any mitigation on an inch-per-inch basis. Sheets L2.00-L2.20 show all trees proposed for planting as mitigation as 2-inch caliper, or the equivalent 6- to 8-foot for conifer trees.

Replacement Plan and Tree Stock Requirements

Subsections 4.620.00 (.03) and (.04)

G23. Review of the Tree Replacement and Mitigation Plan is prior to planting and in accordance with the Tree Ordinance, as established by other findings in this request. The applicant's landscape plans show tree stock meeting the tree stock requirements.

Replacement Trees, City Tree Fund

Subsection 4.620.00 (.05)

G24. As shown on the Landscape Plans (Sheet L2.00-L2.20), some of the proposed replacement trees consist of street trees. Trees will likely be planted on the individual dwelling lots at the time of site development but are not proposed to be included in the replacement tree plans. Because the applicant is planting 44 trees fewer than the one-to-one mitigation ratio required by this subsection, the proposes paying into the City's Tree Fund as mitigation for the 44 trees an amount of \$13,200, equivalent to \$300 per tree for purchase and installation of 44 trees. A Condition of Approval ensures the requirement is met.

Protection of Preserved Trees

Tree Protection During Construction

Section 4.620.10

G25. A Condition of Approval ensures tree protection measures, including fencing, are in place consistent with Public Works Standards Detail Drawing RD-1240.

Request H: Abbreviated SROZ Map Verification (SROZ22-0005)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

SROZ Map Verification

Requirements and Process

Section 4.139.05

H1. Consistent with the requirements of this section, a verification of the SROZ boundary is required as the applicant requests a land use decision. The applicant conducted a detailed site analysis consistent with the requirements of this section, which the City's Natural Resources Manager reviewed and approved.

Request I: Abbreviated SRIR Review (SRIR22-0003)

As described in the Findings below, the request meets the applicable criteria or will by Conditions of Approval.

Findings of Fact:

1. Pursuant to Section 4.139.05 (Significant Resource Overlay Zone Map Verification), the map verification requirements shall be met at the time an applicant requests a land use decision. The applicant conducted a detailed site analysis consistent with code requirements, which the Natural Resources Manager reviewed and approved.
2. Boeckman Creek and its tributaries are located within the western portion of the development site (Site ID Number 1.02U). Designated as Tract A (i.e., 300,220 sf), the riparian corridor includes a locally significant wetland within the floodplain of Boeckman Creek.
3. The steeply sloped riparian corridor contains a mixed-deciduous forest. Native vegetation includes big-leaf maple, Douglas fir, red alder, beaked hazelnut, swordfern, fragrant fringe-cup, California blackberry and Pacific waterleaf. Non-native, invasive plant species, such as Himalayan blackberry, English ivy, and English holly, are present in the forest and upland area.
4. The Significant Resource Overlay Zone ordinance prescribes regulations for development within the SROZ and its associated 25-foot Impact Area. Setbacks from significant natural resources implement the requirements of Metro Title 3 Water Quality Resource Areas, Metro Title 13 Nature in Neighborhoods, and Statewide Planning Goal 5. All significant natural resources have an Impact Area. Development or other alteration activities may be permitted within the SROZ and its associated Impact Area through the review of a Significant Resource Impact Report (SRIR). The primary purpose of the Impact Area is to insure that development does not encroach into the SROZ.
5. Pursuant to the city's SROZ ordinance, development is only allowed within the Area of Limited Conflicting Use (ALCU). The ALCU is located between the riparian corridor boundary, riparian impact area or the Metro Title 3 Water Quality Resource Area boundary, whichever is furthest from the wetland or stream, and the outside edge of the SROZ, or an isolated significant wildlife habitat (upland forest) resource site.
6. The applicant's abbreviated Significant Resource Impact Report delineated specific resource boundaries and analyzed the impacts of exempt development within the SROZ. The applicant's SRIR contained the required information, including an analysis and development recommendations for mitigating impacts.

Exempt Uses in SROZ

Use and Activities Exempt from These Regulations

Subsection 4.118 (.03) A. and 4.130.04

- I1. The proposed exempt development will encroach into the Significant Resource Overlay Zone and its associated Impact Area. The impacts to the SROZ are necessary for site improvements.

Proposed exempt development in the SROZ and its associated Impact Area include the following:

1. A regional pedestrian trail;
2. A stormwater facility in the open space area; and
3. A stormwater outfall – installation of pipe and outfall structure.

4.139.04 (.08) exempts the following use/activity: “The construction of new roads, pedestrian or bike paths into the SROZ in order to provide access to the sensitive area or across the sensitive area, provided the location of the crossing is consistent with the intent of the Wilsonville Comprehensive Plan. Roads and paths shall be constructed so as to minimize and repair disturbance to existing vegetation and slope stability”.

Finding: The proposed pedestrian trail is part of the future Boeckman Creek regional trail identified in the City’s Bicycle and Pedestrian Master Plan. The trail has been designed to minimize impacts to existing vegetation and prevent slope instability.

4.139.04 (.13) exempts the following use/activity: “Enhancement of the riparian corridor or wetlands for water quality or quantity benefits, fish, or wildlife habitat as approved by the City and appropriate regulatory agencies.”

Finding: Due to the current degraded nature of the open space area, the placement and operation of a stormwater facility will provide a water quality and habitat benefit through the planting of stormwater facility vegetation and the installation of soil media.

4.139.04 (.18) exempts the following use/activity: “Private or public service connection laterals and service utility extensions.”

Finding: The stormwater pipe and outfall is necessary for conveying treated and controlled runoff to the tributary of Boeckman Creek.

Abbreviated SRIR Requirements

Site Development Permit Application Requirement

Subsection 4.139.06 (.01) A.

- I2.** The applicant has submitted a land use application in conformance with the Planning and Land Development Ordinance.

Outline of Existing Features

Subsection 4.139.06 (.01) B.

- I3.** Preliminary plans have been submitted which include all of the proposed development.

Location of Wetlands or Water Bodies

Subsection 4.139.06 (.01) C.

- I4.** The SRIR includes a description of the tributary to Boeckman Creek and the results of a wetland delineation. No locally significant wetlands were identified.

Tree Inventory Requirement

Subsection 4.139.06 (.01) D.

- I5.** The preliminary plans include a tree inventory.

Location of SROZ and Impact Area Boundaries

Subsection 4.139.06(.01) E.

- I6.** The SROZ and Impact Area boundaries have been identified on the preliminary plans.

Slope Cross-Section Measurements

Subsection 4.139(.01) F.

- I7.** A slope analysis was included in the SRIR.

Metro Title 3 Boundary Delineation

Subsection 4.139(.01) G.

- I8.** The SRIR includes a delineation of the Metro Title 3 Water Quality Resource Area boundary.

Photos of Site Conditions

Subsection 4.139(.01) H.

- I9.** The SRIR includes representative site photographs.

Narrative Describing Impacts

Subsection 4.139(.01) I.

- I10.** The proposed development impacts have been documented in the SRIR. In addition, the SRIR includes a mitigation plan, which will be implemented in the open space tract.

Memorandum

To: Philip Bradford, Associate Planner, City of Wilsonville
From: Li Alligood, AICP, Senior Planner
Copies: Dan Grimberg, West Hills Land Development;
Project files
Date: May 18, 2022
Subject: Otak Responses to Frog Pond Terrace Subdivision (DB22-0003) – Land Use
Incompleteness Comments per letter dated April 15, 2022
Project No.: 20015.000

The purpose of this memorandum is to provide responses to the following plan set redline comments and other item comments as provided per the Application Is Not Complete letter listed above.

INCOMPLETENESS COMMENTS:

1. *Zone change legal description and sketch. See Subsections 4.035 (.04), 4.140 (.07), 4.200, and 4.197 WC.*

RESPONSE: Included with this submittal as Narrative Appendix A.

2. *Legible annexation sketch to accompany the legal description. The submitted annexation sketch is illegible and all text and numbers appear as dots.*

RESPONSE: Included with this submittal as Narrative Appendix A.

3. *Insufficient findings to demonstrate compliance with the minimum density target for Subdistrict 7 based on the subject site's percentage, and to substantiate the need for the requested reduction for one lot fewer than the minimum.*

RESPONSE: Additional findings have been added to the narrative to discuss the density calculations and request a waiver to minimum density in Subdistrict 7.

4. *Insufficient findings to explain deviations from the Street Demonstration Plan, particularly related to off-site impacts that would result from the proposed deviations. Staff recommends the applicant revise Sheet P 8.00 and P 9.00 to reflect approved subdivisions and the need to extend Sherman Drive to SW Frog Pond Lane to ensure deviations are feasible and allow other sites to develop.*

RESPONSE: Additional findings have been added to the narrative and Sheets P8.00 and P9.00 have been revised to address these requests.

5. *Insufficient information to determine compliance with minimum tree mitigation requirements. The applicant requests a tree credit of 91 trees for preserved trees. Subsection 4.176 (.06) F. allows a*

landscape tree credit for preserved trees. However, no code language establishes an allowance for tree credits to count as mitigation for tree removal. The typical application for this code is in parking areas where a certain number of trees are required based on the number of parking spaces. If proposals preserve a large tree in these cases, fewer new trees need to be planted. However, if an applicant has a grove of 6 mature trees, and removes 5, the code does not establish the ability to avoid mitigating for the 5 removed trees by applying a tree credit from the one preserved tree. Staff is not aware of any circumstances where preserved tree credits were used as mitigation for tree removal. Please revise findings Section 4.600 to address tree mitigation based on the information above and account for any potential payment into the City Tree Fund.

RESPONSE: Additional findings have been added to the narrative to clarify that tree credits are not being applied to mitigation landscaping and that a fee for 47 trees will need to be paid to tree fund.

ADDITIONAL COMMENTS:

Planning Comments:

A. *Where SW Woodbury Loop begins to curve east, select a new tree species to be utilized for the new east-west street.*

RESPONSE: Woodbury Loop will have American Yellowwood trees and the new east-west street will have Skyline Honey Locust trees.

B. *The Master Plan intends for clear sight lines between the interior of the neighborhood and the Boeckman Creek Corridor. It is also important to ensure plantings are compatible with the SROZ to maintain physical and visual access. Staff does not support the dense plantings along the trail at the rear of Lots 17 and 19. A revised landscaping plan shall be provided with fewer plantings to ensure visual access and public safety.*

RESPONSE: Many evergreen trees in this area have been removed from the plan to provide physical and visual access to the SROZ.

Parks and Recreation Comments:

A. *The picnic table model shown on Sheet L2.30 does not have an ADA accessibility option. Style 2063 is recommended as a replacement as this does offer ADA accessibility.*

RESPONSE: There are one standard table and one ADA table provided on the terrace.

B. *Further explore locating the Boeckman Creek Trail alignment along the rear of the existing home consistent with the Master Plan intent (see Engineering Comment E). As this is a Regional Trail, Parks does not support portions of the trail being located on private lots.*

RESPONSE: The Otak team has discussed the location of the trail with City staff, who have coordinated with Parks staff. Parks staff acknowledge that retaining the trees to the rear of the existing home is preferred, and the additional information memo provided by Portland Tree Service notes that removal of one tree will result in the loss of a second tree. After thoroughly exploring options, the trail remains in the same location. However, all portions of the trail are now located within public right-of-way rather than on private lots.

Engineering Comments

- A. *Revise the plans to show how and where Frog Pond Lane will logically terminate and the associated improvements along the frontage of this project, if any.*

RESPONSE: The terminus is shown on the Frog Pond Overlook project since it is wholly located on that project's frontage. The terminus will be an eyebrow with completion of the full eyebrow to be completed with development of properties east of Frog Pond Terrace.

- B. *Show temporary water line looping to Frog Pond Lane through Lots 18 and 19.*

RESPONSE: Plan sheets have been updated as requested.

- C. *No new storm main allowed on Brisband Street. Provide an alternative treatment and disposal location for Lots 6 and 7 and Brisband Street.*

RESPONSE: Storm line removed from plans. New storm line is proposed in rear of lots 5-7 to collect laterals and discharge to proposed storm facility on Frog Pond Terrace. A 15-foot-wide stormwater easement is provided.

- D. *Revise the drainage report to show how drainage from upstream areas will be accommodated through this site. With low infiltration rates, stormwater upstream likely flows overland across the project.*

RESPONSE: Offsite upstream basins have been delineated and routing of offsite flows through the onsite conveyance system discussed in the revised report.

- E. *The regional trail is intended to run along the top of the bank and along the edge of the vegetated corridor, not along the sidewalks. Relocate the trail to the back of the lots for Lot 16. Additionally, the regional trail shall be installed across the Frog Pond Lane right-of-way after the terminus of Frog Pond Lane. The Overlook and Terrace plans shall show how this regional trail will extend through this area, while providing driveway access to Tax Lot 601.*

RESPONSE: The Otak team has discussed the location of the trail with City staff, who have coordinated with Parks staff. Parks staff acknowledge that retaining the trees to the rear of the existing home is preferred, and the additional information memo provided by Portland Tree Service notes that removal of one tree will result in the loss of a second tree. After thoroughly exploring options, the trail remains in the same location. However, all portions of the trail are now located within public right-of-way rather than on private lots.

A trail connection to Frog Pond Lane is shown on Sheet P2.00.



Memorandum

To: Cindy Luxhoj, AICP, City of Wilsonville
From: Li Alligood, AICP; Gabriel Kruse, PLA
Copies: File; Client
Date: August 11, 2022
Subject: Additional information for DB22-0003 Frog Pond Terrace
Project No.: 20015.000

This memo provides additional information and clarification of the submitted land use application materials in response to questions from the City. City questions are in *italics*. See also updated Sheets L1.00, L1.10, L1.20, and L2.20 included with this memo.

What is the total number of trees inventoried on-site and off-site?

Response: 250 On Site Trees, 1 Off Site Tree

What is the number of the off-site tree? Is it #30482?

Response: Yes. See Sheet L1.10.

Of the total trees inventoried, how many are proposed for removal? For preservation?

Response: See updated Sheets L1.10 and L1.20.

- 101 Trees to Remain on site
- 1 Tree to be protected offsite
- 149 Trees to be removed on site

How many mitigation trees will be planted – as street trees, in Tract A, etc. – on-site?

Response: See Sheets L2.00 and L2.20.

- 30 Street Trees
- 41 Site Trees
- 34 Tract A Stormwater Planting Trees
- 105 Total Mitigation Trees

How many trees do you propose paying into the City Tree Fund for as mitigation?

Response: Mitigation for 44 trees will be paid into City Tree Fund. The total mitigation amount to be paid into the City Tree Fund will be \$13,200 using \$300 per tree installed.



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FROG POND TERRACE
19 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

TREE INVENTORY

TITLE

#	DATE	DESCRIPTION

REVISIONS

NAV/D88	DATUM
OTAK CAD	KJB
DRAWN BY	CHECKED BY
LAND USE SUBMITTAL	STATUS
MAY 17, 2022	DATE
20015	PROJECT NUMBER

L1.10

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If this drawing is not 22" x 34", it has been reduced/enlarged. Scale accordingly.

Page 3 Compiled for West Hills Development, LLC

Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
30714	red alder	14"	9	2	terminal decline	0	protect
30715	Douglas-fir	12"	9	2	in ravine	0	protect
30716	Douglas-fir	14"	0	2	in ravine	0	protect
30717	red alder	14"	0	2	in ravine	0	protect
30718	red alder	16"	12	2	in ravine	0	protect
30719	Douglas-fir	10"	9	2	in ravine	0	protect
30720	Douglas-fir	11"	12	2	in ravine	0	protect
30721	Douglas-fir	18"	12	2	in ravine	0	protect
30722	Douglas-fir	12"	12	2	in ravine	0	protect
30723	Douglas-fir	9"	9	2	viable	0	protect
30724	Douglas-fir	13"	12	2	in ravine	0	protect
30725	Douglas-fir	7"	12	2	in ravine	0	protect
30726	Douglas-fir	12"	12	2	in ravine	0	protect
30727	Douglas-fir	8"	9	2	in ravine	0	protect
30728	Douglas-fir	13"	12	2	in ravine	0	protect
30729	yellow pine	18"	18	2	in ravine	0	protect
30730	yellow pine	8"	9	2	in ravine	0	protect
30731	Douglas-fir	13"	12	2	in ravine	0	protect
30732	Douglas-fir	16"	15	2	in ravine	0	protect
30733	Douglas-fir	14"	12	2	in ravine	0	protect
30734	Douglas-fir	6"	9	2	in ravine	0	protect
30735	yellow pine	18"	18	2	in ravine	0	protect
30736	sweet cherry	14"	15	2	in ravine	0	protect
30737	yellow pine	12"	15	2	viable	0	protect

Portland Tree Consulting Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

Page 2 Compiled for West Hills Development, LLC

Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
30482	Douglas-fir	36"	36	2	in ravine OFFSITE	0	protect
30497	Alder	22"	24	2	in ravine	0	protect
30507	bigleaf maple	3X8"-28"	24	2	in ravine	0	protect
30513	Douglas-fir	24"	30	2	in ravine	0	protect
30514	bigleaf maple	2X14"-24"	12	2	the 24" stem is a Douglas-fir tree	0	protect
30516	Douglas-fir	24"	24	2	in ravine	0	protect
30517	Douglas-fir	20"	21	2	in ravine	0	protect
30518	Douglas-fir	20"	21	2	in ravine	0	protect
30519	Douglas-fir	28"	24	2	in ravine	0	protect
30520	Douglas-fir	24"	24	2	in ravine	0	protect
30534	bigleaf maple	16"	21	2	in ravine	0	protect
30535	Douglas-fir	34"	30	2	in ravine	0	protect
30536	Douglas-fir	20"	24	2	in ravine	0	protect
30537	Douglas-fir	40"	33	2	in ravine	0	protect
30599	Douglas-fir	12"	12	2	in ravine	0	protect
30600	Douglas-fir	18"	18	2	two tops	0	protect
30601	Douglas-fir	8"	18	2	at utility pole	0	protect
30602	Douglas-fir	16"	18	2	topped at 20 ft.	0	protect
30603	Japanese maple	6"	9	2	at house	0	protect
30709	Douglas-fir	9"	9	2	in ravine	0	protect
30710	Douglas-fir	9"	9	2	in ravine	0	protect
30711	bigleaf maple	28"	30	2	in ravine	0	protect
30712	Gary oak	36"	90	2	leans over house to remain and one-sided	24	protect
30713	Douglas-fir	32"	30	2	must preserve to protect 30712 Gary oak; two tops, one-sided	24	protect

Portland Tree Consulting Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

Page 1 Compiled for West Hills Development, LLC

Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
30007	bigleaf maple	20"	18	2	in ravine	0	protect
30008	Oregon ash	10"	12	2	in ravine	0	protect
30009	Oregon ash	14"	15	2	in ravine	0	protect
30014	red alder	12"	0	2	in ravine	0	protect
30015	red alder	13"	0	2	in ravine	0	protect
30017	Oregon ash	16"	24	2	in ravine	0	protect
30019	Scouler willow	4X4"-14"	18	2	in ravine	0	protect
30027	bigleaf maple	4X8"-12"	15	2	in ravine	0	remove
30028	Oregon ash	12"	15	2	in ravine	0	protect
30029	bigleaf maple	2X12"-14"	18	2	in ravine	0	protect
30033	Scouler willow	3X8"-10"	18	2	in ravine	0	remove
30042	Oregon ash	2X6"-8"	15	2	in ravine	0	protect
30045	bigleaf maple	10"	12	2	in ravine	0	protect
30046	bigleaf maple	10"	12	2	in ravine	0	protect
30053	Douglas-fir	26"	24	2	in ravine	0	protect
30054	red alder	2X11"-14"	12	1	terminal decline	0	protect
30062	bigleaf maple	8"	12	2	in ravine	0	protect
30063	bigleaf maple	8"	18	2	in ravine	0	protect
30076	bigleaf maple	18"	18	2	in ravine	0	protect
30090	Douglas-fir	14"	12	2	in ravine	0	protect
30099	bigleaf maple	14"	15	2	in ravine	0	protect
30100	bigleaf maple	16"	18	2	in ravine	0	protect
30101	red alder	12"	0	2	dead	0	protect
30117	red alder	4X13"-18"	0	2	dead	0	protect

Portland Tree Consulting Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31371	yellow pine	14"	24	2	crowded	0	remove
31372	yellow pine	13"	18	2	crowded	0	remove
31373	yellow pine	14"	18	2	crowded	0	remove
31374	yellow pine	14"	18	2	crowded	0	remove
31375	yellow pine	18"	24	2	assymetrical crown	0	remove
31376	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31377	yellow pine	16"	15	2	assymetrical crown	0	remove
31378	yellow pine	10"	12	2	assymetrical crown	0	remove
31379	yellow pine	12"	12	2	assymetrical crown	0	remove
31380	yellow pine	14"	12	2	assymetrical crown	0	remove
31381	yellow pine	7"	9	2	assymetrical crown	0	remove
31382	yellow pine	14"	15	2	assymetrical crown	0	remove
31383	yellow pine	19"	24	2	assymetrical crown	0	remove
31384	yellow pine	18"	18	2	assymetrical crown	0	remove
31385	bigleaf maple	24"	24	2	viable	0	remove
31386	Douglas-fir	17"	24	2	one-sided	0	remove
31387	Douglas-fir	12"	18	2	assymetrical crown	0	remove
31388	yellow pine	13"	15	2	assymetrical crown	0	remove
31389	yellow pine	20"	21	2	assymetrical crown	0	remove
31390	yellow pine	16"	18	2	assymetrical crown	0	remove
31391	yellow pine	12"	12	2	assymetrical crown	0	remove
31392	yellow pine	14"	12	2	assymetrical crown	0	remove
31393	yellow pine	10"	12	2	assymetrical crown	0	remove
31394	yellow pine	16"	18	2	assymetrical crown	0	remove

Portland Tree Consulting Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
30792	yellow pine	9"	9	2	assymetrical crown	0	protect
30793	yellow pine	12"	12	2	assymetrical crown	0	protect
30794	yellow pine	9"	9	2	assymetrical crown	0	protect
30795	yellow pine	14"	12	2	assymetrical crown	0	protect
30796	yellow pine	14"	12	2	assymetrical crown	0	protect
30797	yellow pine	14"	12	2	assymetrical crown	0	protect
30798	yellow pine	18"	15	2	assymetrical crown	0	protect
30799	missing	0	0	2	missing from behind house	0	protect
30822	quaking aspen	10"	12	2	viable	0	protect
31353	Douglas-fir	20"	15	2	on berm, shallow-rooted	0	remove
31354	Douglas-fir	14"	12	2	on berm, shallow-rooted	0	remove
31356	Douglas-fir	14"	12	2	on berm, shallow-rooted	0	remove
31357	Douglas-fir	18"	12	2	on berm, shallow-rooted	0	remove
31358	Douglas-fir	12"	12	2	on berm, shallow-rooted	0	remove
31359	Douglas-fir	2X10"-13"	12	2	poor structure	0	remove
31360	Douglas-fir	12"	12	2	on berm, shallow-rooted	0	remove
31361	Douglas-fir	8"	12	2	on berm, shallow-rooted	0	remove
31362	Douglas-fir	10"	12	2	on berm, shallow-rooted	0	remove
31363	Douglas-fir	13"	15	2	on berm, shallow-rooted	0	remove
31364	Douglas-fir	20"	21	2	on berm, shallow-rooted	0	remove
31367	Douglas-fir	20"	24	2	on berm, shallow-rooted	0	remove
31368	Douglas-fir	14"	15	2	on berm, shallow-rooted	0	remove
31369	yellow pine	31"	30	2	crowded	0	remove
31370	yellow pine	18"	15	2	crowded	0	remove

Portland Tree Consulting Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
30738	yellow pine	14"	12	2	one-sided	0	protect
30739	yellow pine	14"	12	2	one-sided	0	protect
30740	Douglas-fir	16"	15	2	assymetrical crown	0	protect
30741	yellow pine	15"	15	2	assymetrical crown	0	protect
30772	quaking aspen	8"	9	2	assymetrical crown	0	protect
30773	Sato cherry	2X6"-8"	15	2	assymetrical crown	0	protect
30774	quaking aspen	8"	12	2	assymetrical crown	0	protect
30775	quaking aspen	12"	15	2	assymetrical crown	0	protect
30776	Douglas-fir	18"	18	2	assymetrical crown	0	protect
30777	Douglas-fir	15"	18	2	assymetrical crown	0	protect
30778	Douglas-fir	10"	15	2	assymetrical crown	0	protect
30779	Douglas-fir	16"	18	2	assymetrical crown	0	protect
30780	Douglas-fir	12"	12	2	assymetrical crown	0	protect
30781	Douglas-fir	12"	12	2	assymetrical crown	0	protect
30782	yellow pine	18"	21	2	assymetrical crown	0	protect
30783	yellow pine	12"	15	2	assymetrical crown	0	protect
30784	yellow pine	14"	18	2	assymetrical crown	0	protect
30785	Douglas-fir	13"	12	2	assymetrical crown	0	protect
30786	Douglas-fir	14"	9	2	assymetrical crown	0	protect
30787	Douglas-fir	10"	12	2	assymetrical crown	0	protect
30788	Douglas-fir	16"	18	2	assymetrical crown	0	remove
30789	yellow pine	16"	18	2	assymetrical crown	0	protect
30790	Douglas-fir	10"	12	2	viable	0	protect
30791	Douglas-fir	13"	12	2	assymetrical crown	0	protect

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Frog Pond Terrace (Martin and George Properties)

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31395	yellow pine	11"	9	2	topped at 20 ft.	0	remove
31396	yellow pine	13"	21	2	assymetrical crown	0	remove
31397	yellow pine	14"	15	2	assymetrical crown	0	remove
31398	yellow pine	16"	15	2	assymetrical crown	0	remove
31399	yellow pine	11"	15	2	assymetrical crown	0	remove
31400	yellow pine	16"	12	2	assymetrical crown	0	remove
31401	yellow pine	13"	15	2	assymetrical crown	0	remove
31402	yellow pine	18"	12	2	assymetrical crown	0	remove
31403	yellow pine	24"	18	2	assymetrical crown	0	remove
31404	yellow pine	18"	15	2	assymetrical crown	0	remove
31405	yellow pine	15"	12	2	assymetrical crown	0	remove
31406	yellow pine	24"	24	2	assymetrical crown	0	remove
31407	yellow pine	16"	18	2	assymetrical crown	0	remove
31408	yellow pine	20"	9	2	codominant trunks	0	remove
31409	yellow pine	6"	9	2	suppressed	0	remove
31410	yellow pine	14"	12	2	assymetrical crown	0	remove
31411	yellow pine	8"	9	2	assymetrical crown	0	remove
31412	yellow pine	12"	12	2	assymetrical crown	0	remove
31413	yellow pine	10"	12	2	assymetrical crown	0	remove
31414	yellow pine	17"	18	2	assymetrical crown	0	remove
31415	yellow pine	10"	12	2	assymetrical crown	0	remove
31416	yellow pine	6"	9	2	assymetrical crown	0	remove
31417	yellow pine	8"	9	2	assymetrical crown	0	remove
31418	yellow pine	12"	12	2	assymetrical crown	0	remove

Portland Tree Consulting

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Frog Pond Terrace (Martin and George Properties)

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31468	yellow pine	16"	15	2	assymetrical crown	0	remove
31469	yellow pine	8"	12	2	assymetrical crown	0	remove
31470	yellow pine	13"	12	2	assymetrical crown	0	remove
31471	yellow pine	14"	15	2	assymetrical crown	0	remove
31472	cottonwood	10"	12	2	assymetrical crown	0	remove
31473	yellow pine	16"	18	2	assymetrical crown	0	remove
31474	yellow pine	9"	9	2	assymetrical crown	0	remove
31475	yellow pine	8"	9	2	assymetrical crown	0	remove
31476	yellow pine	14"	15	2	assymetrical crown	0	remove
31477	yellow pine	16"	18	2	assymetrical crown	0	remove
31478	yellow pine	9"	9	2	assymetrical crown	0	remove
31479	yellow pine	11"	9	2	assymetrical crown	0	remove
31480	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31481	Douglas-fir	14"	15	2	assymetrical crown	0	remove
31482	yellow pine	12"	15	2	assymetrical crown	0	remove
31483	yellow pine	12"	12	2	assymetrical crown	0	remove
31484	Douglas-fir	9"	9	2	assymetrical crown	0	remove
31485	yellow pine	16"	15	2	assymetrical crown	0	remove
31486	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31487	yellow pine	14"	15	2	assymetrical crown	0	remove
31488	Douglas-fir	9"	9	2	assymetrical crown	0	remove
31489	Douglas-fir	10"	12	2	assymetrical crown	0	remove
31490	Douglas-fir	10"	9	2	viable	0	protect
31491	Douglas-fir	18"	18	2	assymetrical crown	0	protect

Portland Tree Consulting

Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

Frog Pond Terrace (Martin and George Properties)

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31419	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31420	Douglas-fir	14"	12	2	assymetrical crown	0	remove
31421	yellow pine	12"	12	2	assymetrical crown	0	remove
31422	yellow pine	16"	15	2	assymetrical crown	0	remove
31423	yellow pine	8"	9	2	assymetrical crown	0	remove
31424	yellow pine	12"	15	2	assymetrical crown	0	remove
31425	yellow pine	7"	9	2	assymetrical crown	0	remove
31426	yellow pine	14"	12	2	assymetrical crown	0	remove
31427	Douglas-fir	8"	9	2	assymetrical crown	0	remove
31428	Douglas-fir	18"	18	2	assymetrical crown	0	remove
31429	Douglas-fir	14"	18	2	assymetrical crown	0	remove
31430	yellow pine	16"	18	2	assymetrical crown	0	remove
31431	yellow pine	17"	18	2	assymetrical crown	0	remove
31432	yellow pine	22"	24	2	assymetrical crown	0	remove
31433	yellow pine	14"	18	2	assymetrical crown	0	remove
31434	Douglas-fir	18"	18	2	assymetrical crown	0	remove
31435	yellow pine	16"	15	2	assymetrical crown	0	remove
31436	yellow pine	22"	24	2	assymetrical crown	0	remove
31437	Douglas-fir	13"	12	2	assymetrical crown	0	remove
31438	Douglas-fir	17"	18	2	assymetrical crown	0	remove
31439	Douglas-fir	16"	15	2	assymetrical crown	0	remove
31440	yellow pine	13"	12	2	assymetrical crown	0	remove
31441	Douglas-fir	16"	15	2	assymetrical crown	0	remove
31442	yellow pine	17"	18	2	assymetrical crown	0	remove

Portland Tree Consulting

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Frog Pond Terrace (Martin and George Properties)

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31492	Douglas-fir	16"	18	2	assymetrical crown	0	remove
31493	Douglas-fir	20"	24	2	assymetrical crown	0	remove
31496	red alder	15"	15	0	dead	0	remove
31497	red alder	14"	12	1	terminal decline	0	remove
31498	bigleaf maple	2X14"	15	2	viable	0	remove
31499	red alder	8"	9	1	terminal decline	0	remove
31500	bigleaf maple	8"	9	1	terminal decline	0	remove
31501	red alder	20"	0	0	dead	0	remove
33453	cherry	6"	6	2	viable	0	remove
33455	cherry	6"	6	2	viable	0	remove
33456	cherry	6"	6	2	viable	0	remove

Rating: 0/dead or hazardous, 1/decline, 2/average, 3/excellent health and structure
RPZ mean root protection zone. This is a radius from the trunk measured in feet.
Dripline is average Crown Diameter or Canopy Spread
Trees tied and DBH measurements taken by Otak licensed surveyors for at various times.

Portland Tree Consulting

Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

Frog Pond Terrace (Martin and George Properties)

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Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action
31443	Douglas-fir	13"	12	2	assymetrical crown	0	remove
31444	Douglas-fir	16"	24	2	assymetrical crown	0	remove
31445	yellow pine	11"	12	2	assymetrical crown	0	remove
31446	yellow pine	8"	12	2	assymetrical crown	0	remove
31447	yellow pine	18"	18	2	assymetrical crown	0	remove
31448	yellow pine	14"	15	2	assymetrical crown	0	remove
31449	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31450	Douglas-fir	12"	12	2	assymetrical crown	0	remove
31451	yellow pine	12"	12	2	assymetrical crown	0	remove
31452	Douglas-fir	14"	15	2	assymetrical crown	0	remove
31453	Douglas-fir	18"	18	2	assymetrical crown	0	remove
31454	yellow pine	12"	12	2	assymetrical crown	0	remove
31455	yellow pine	16"	18	2	assymetrical crown	0	remove
31456	Douglas-fir	2X4"-6"	9	2	assymetrical crown	0	remove
31457	yellow pine	14"	12	2	assymetrical crown	0	remove
31458	yellow pine	16"	15	2	assymetrical crown	0	remove
31459	yellow pine	10"	12	2	assymetrical crown	0	remove
31460	yellow pine	16"	12	2	assymetrical crown	0	remove
31461	yellow pine	21"	21	2	assymetrical crown	0	remove
31463	yellow pine	12"	12	2	assymetrical crown	0	remove
31464	Douglas-fir	14"	15	2	assymetrical crown	0	remove
31465	yellow pine	15"	15	2	assymetrical crown	0	remove
31466	yellow pine	2X10"-16"	18	2	assymetrical crown	0	remove
31467	yellow pine	16"	18	2	assymetrical crown	0	remove

Portland Tree Consulting

Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

Frog Pond Terrace (Martin and George Properties)

Page 12

Compiled for West Hills Development, LLC

Tag	Species	DBH	Dripline	Rating	Health & Structure	RPZ	Action

Species
apple- *Maus sylvestrus*
bigleaf maple- *Acer macrophyllum*
black oak- *Quercus velutina*
blue spruce- *Picea pungens*
Cottonwood- *Populus tricarpa*
Deodar cedar- *Cedrus deodara*
Douglas fir- *Pseudotsuga menziesii*
European birch- *Betula pendula*
Gary oak- *Quercus garryana*
giant sequoia- *Sequoia giganteum*
ginkgo- *Ginkgo biloba*
grand fir- *Abies grandis*
incense-cedar- *Calocedrus decurrens*
Japanese maple- *Acer japonica*
limber pine- *Pinus flexilis*
Lombardy poplar- *Populus nigra*
Norway maple- *Acer platanoides*
paperbark maple- *Acer seiseum*
Portuguese laurel- *Prunus lusitanica*
red alder- *Alnus rubra*
red spruce- *Picea rubens*
Sato Cherry- *Prunus* sp.
Scouler willow- *Salix scouleriana*
Sitka spruce- *Picea sitchensis*
sweet cherry- *Prunus avium*
western redcedar- *Thuja plicata*
yellow pine- *Pinus ponderosa* var. *scopolorum*

Portland Tree Consulting

Fieldwork by Peter Torres, PN-0650B, on 1/14/2022

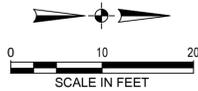
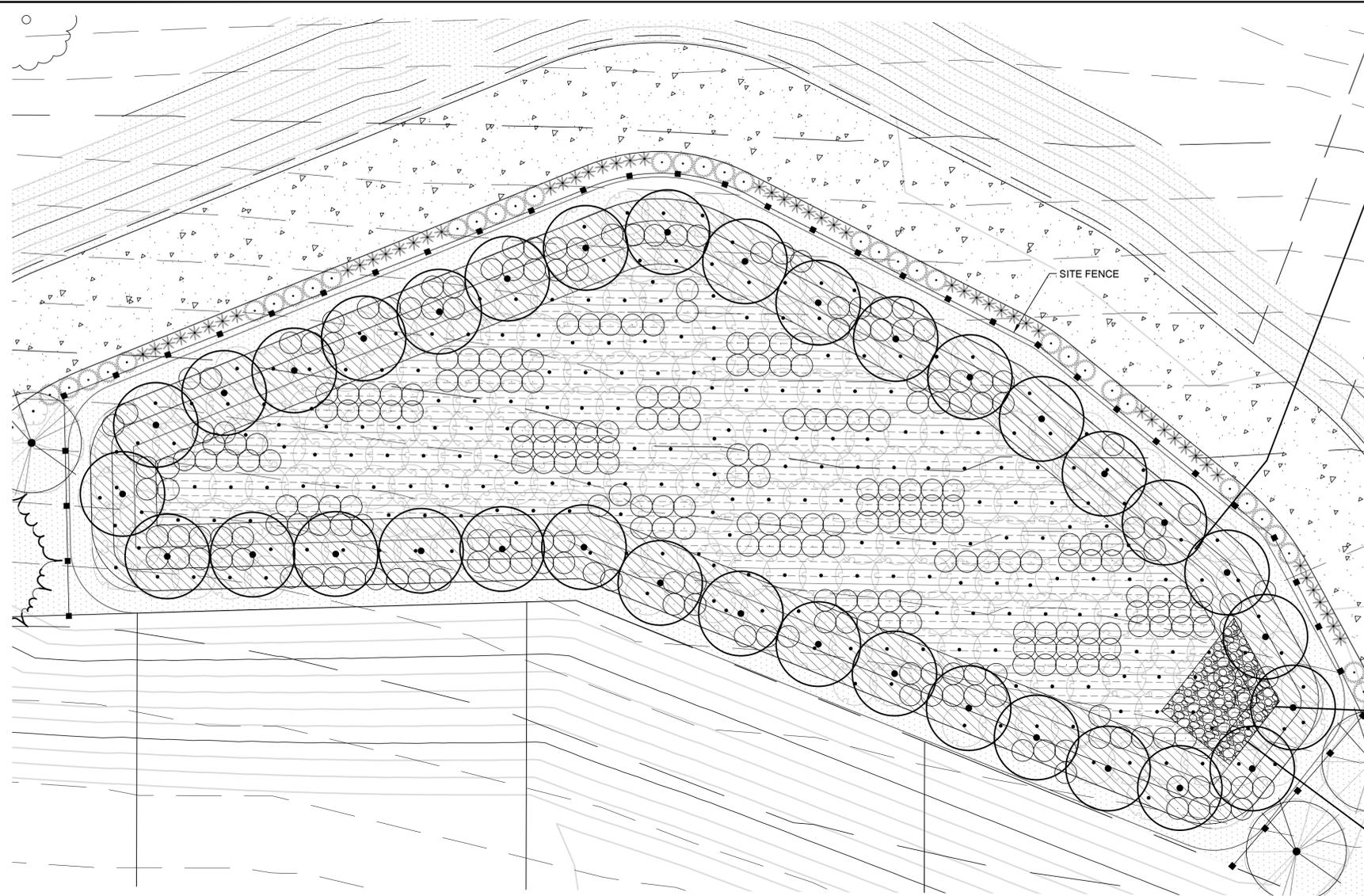
FROG POND TERRACE
 19 DETACHED SINGLE FAMILY LOTS
 CITY OF WILSONVILLE, OREGON
TREE INVENTORY

TITLE	#	DATE	DESCRIPTION

REVISIONS
NAVDB8
DATUM
OTAK CAD
DRAWN BY
LAND USE SUBMITTAL
STATUS
MAY 17, 2022
DATE
20015
PROJECT NUMBER

L1.20
© 2021 OTAK, INC.
If this drawing is not 22" x 34", it has been reduced/enlarged. Scale accordingly.

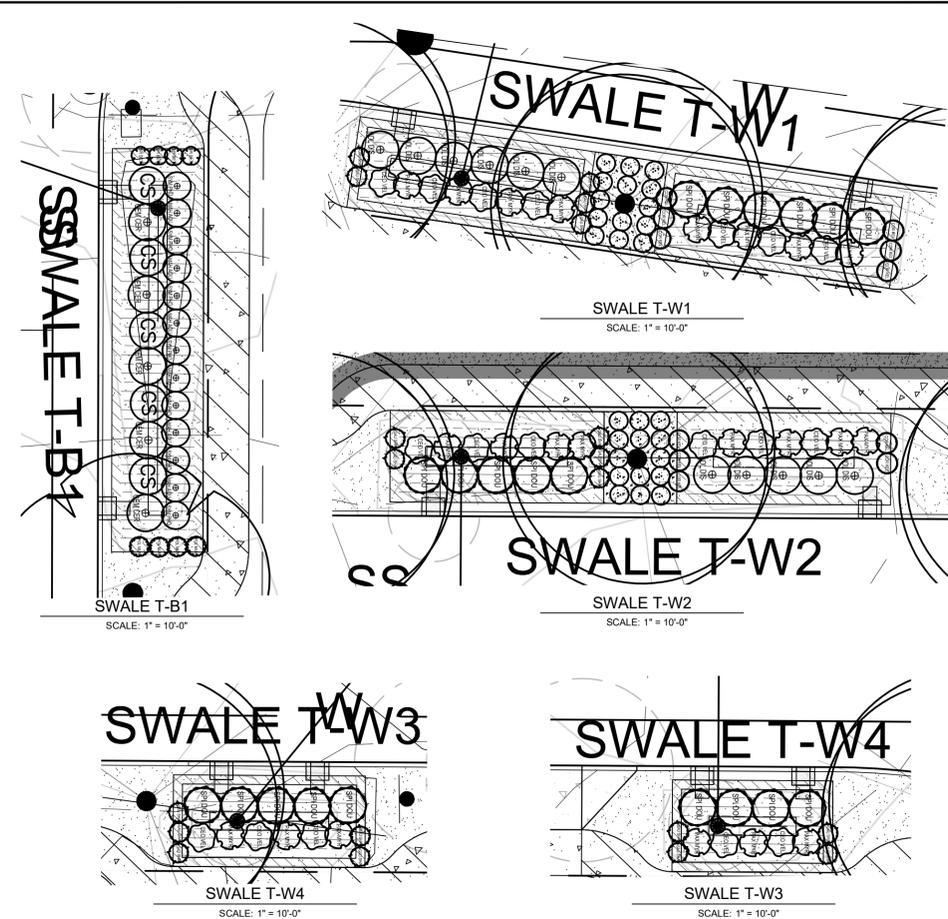
Plotted: Aug. 10, 2022, 2:26pm, gabriel.kruse, L:\Projects\2000\20015\CADD\CAD\Drawings\Frog Pond - Terracal\20015_L1.20.dwg, Layout Name: L1.20



RAIN GARDEN
SCALE: 1" = 10'-0"

TRACT A RAIN GARDEN PLANT QUANTITIES															
ZONE A															
TREATMENT AREA	HERBACEOUS Plugs					SHRUBS 3 Gal.									
	REQUIRED HERBACEOUS 1.15 per 100sf	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	PROVIDED HERBACEOUS	REQ'D SMALL SHRUBS (4/100 SF)	Symphoricarpos albus	Spiraea betulifolia	Elymus glaucus	Mahonia aquifolium	TOTAL SMALL SHRUBS PROVIDED			
4119	4737	1184	1184	1184	1481	5033	165	41	41	41	41	165			
												124			
												31			
												31			
												31			
												31			
												124			
ZONE B															
AREA	HERBACEOUS Plugs				GROUNDCOVER Plugs		SHRUBS 3 Gal.								
	REQUIRED HERBACEOUS 1.15 per 100sf X 0.5	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	TOTAL PROVIDED HERBACEOUS 1.15 per 100sf X 0.5	Arctostaphylos uva-ursi	Fragaria chiloensis	TOTAL PROVIDED HERBACEOUS	REQ'D TREES (1/100 SF)	Alnus rubra	Fraxinus latifolia	Malus fusca	Thuja plicata	TOTAL TREES PROVIDED
3396	1953	488	488	488	489	1953	1953	976	977		136	34	34	34	34
															102
															26
															26
															25
															102

*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).



FROG POND TERRACE VEGETATED SWALE PLANT QUANTITIES													
SWALE ID	STREET	TREATMENT AREA	ZONE A				ZONE B						
			HERBACEOUS = TREATMENT AREA				SHRUBS		GROUND COVER				
			REQUIRED HERBACEOUS 1.15 per 100sf	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	PROVIDED HERBACEOUS	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	AREA (SF)	REQ'D SMALL (8/100)	Arctostaphylos uva-ursi (115/100 SF)
SWALE T-W1	FROG POND	384	442	111	111	57	57	336	15	12	136	11	156
SWALE T-W2	STREET I	342	393	98	98	98	98	392	14	10	126	10	145
SWALE T-W3	STREET I	152	175	37	37	37	36	147	6	5	58	5	67
SWALE T-W4	STREET I	124	143	37	37	37	36	147	5	4	51	4	59
SWALE T-B1	STREET I	336	386	37	37	37	36	147	13	10	104	8	120
TOTALS:			1539	320	320	266	263	1,169	53	41	475	38	547

*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

NORTH/SOUTH SWALE SHRUB LEGEND

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
(Symbol)	19	SALAL / Gaultheria shallon	1 GAL.	1' o.c.
(Symbol)	11	KELSEY DOGWOOD / Cornus sericea 'Kelsey'	1 GAL.	1' o.c.
(Symbol)	22	OREGON BOXLEAF / Paxistima myrsinites	1 GAL.	1' o.c.
(Symbol)	18	SNOWBRUSH / Ceanothus velutinus	1 GAL.	1' o.c.
(Symbol)	20	DOUGLAS SPIRAEA / Spiraea douglasii	30" HT.	3' o.c.
(Symbol)	11	WESTERN SERVICEBERRY / Holodiscus discolor	30" HT.	3' o.c.

EAST/WEST SWALE SHRUB LEGEND

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
(Symbol)	4	BIRCHLEAF SPIRAEA / Spiraea betulifolia	1 GAL.	1' o.c.
(Symbol)	4	SWORD FERN / Polystichum minus	1 GAL.	1' o.c.
(Symbol)	6	OREGON GRAPE HOLLY / Mahonia aquifolium	1 GAL.	1' o.c.
(Symbol)	7	SNOWBERRY / Symphoricarpos alba	1 GAL.	1' o.c.
(Symbol)	5	INDIAN PLUM / Omleria cerasiformis	30" HT.	3' o.c.
(Symbol)	5	RED-TWIG BOXWOOD / Cornus sericea	30" HT.	3' o.c.

*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

SWALE AREA KEY

SYMBOL	NOTES
(Symbol)	ZONE A - PLANTING
(Symbol)	ZONE B - PLANTING

STREET TREE MOUND SHRUBS

QTY	COMMON NAME / Botanical name	Size
28	GOLD NUGGET BARBERRY / Berberis thunbergii 'Gold Nugget'	#1 CONT. AS SHOWN

TITLE	#	DATE	DESCRIPTION

REVISIONS
NAV/D88
DATUM
OTAK CAD
DRAWN BY
CHECKED BY
LAND USE SUBMITTAL
STATUS
MAY 17, 2022
DATE
20015
PROJECT NUMBER

Exhibit C1
Public Works Plan Submittal Requirements
and Other Engineering Requirements

1. All construction or improvements to public works facilities shall be in conformance to the City of Wilsonville Public Works Standards - 2017.
2. Applicant shall submit insurance requirements to the City of Wilsonville in the following amounts:

Coverage (<i>Aggregate, accept where noted</i>)	Limit
<u>Commercial General Liability:</u>	
▪ General Aggregate (per project)	\$3,000,000
▪ General Aggregate (per occurrence)	\$2,000,000
▪ Fire Damage (any one fire)	\$50,000
▪ Medical Expense (any one person)	\$10,000
<u>Business Automobile Liability Insurance:</u>	
▪ Each Occurrence	\$2,000,000
<u>Workers Compensation Insurance:</u>	\$500,000

3. No construction of, or connection to, any existing or proposed public utility/improvements will be permitted until all plans are approved by Staff, all fees have been paid, all necessary permits, right-of-way and easements have been obtained and Staff is notified a minimum of 24 hours in advance. All permits from other Agencies shall be submitted to the City prior to the start of Construction.
4. All public utility/improvement plans submitted for review shall be based upon a 22" x 34" format and shall be prepared in accordance with the City of Wilsonville Public Work's Standards.
5. Plans submitted for review shall meet the following general criteria:
 - a. Utility improvements that shall be maintained by the public and are not contained within a public right-of-way shall be provided a maintenance access acceptable to the City. The public utility improvements shall be centered in a minimum 15-ft. wide public easement for single utilities and a minimum 20-ft wide public easement for two parallel utilities and shall be conveyed to the City on its dedication forms.
 - b. Design of any public utility improvements shall be approved at the time of the issuance of a Public Works Permit. Private utility improvements are subject to review and approval by the City Building Department.
 - c. In the plan set for the PW Permit, existing utilities and features, and proposed new private utilities shall be shown in a lighter, grey print. Proposed public improvements shall be shown in bolder, black print.



- d. All elevations on design plans and record drawings shall be based on NAVD 88 Datum.
 - e. All proposed on and off-site public/private utility improvements shall comply with the State of Oregon and the City of Wilsonville requirements and any other applicable codes.
 - f. Design plans shall identify locations for street lighting, gas service, power lines, telephone poles, cable television, mailboxes and any other public or private utility within the general construction area.
 - g. As per City of Wilsonville Ordinance No. 615, all new gas, telephone, cable, fiber-optic and electric improvements etc. shall be installed underground. Existing overhead utilities shall be undergrounded wherever reasonably possible.
 - h. Any final site landscaping and signing shall not impede any proposed or existing driveway or interior maneuvering sight distance.
 - i. Erosion Control Plan that conforms to City of Wilsonville City Code Section 8.317.
 - j. Existing/proposed right-of-way, easements and adjacent driveways shall be identified.
 - k. All engineering plans shall be printed to PDF, combined to a single file, stamped and digitally signed by a Professional Engineer registered in the State of Oregon.
 - l. All plans submitted for review shall be in sets of a digitally signed PDF and three printed sets.
6. Submit plans in the following general format and order for all public works construction to be maintained by the City:
- a. Cover sheet
 - b. City of Wilsonville construction note sheet
 - c. Land Use Conditions of Approval sheet
 - d. General construction note sheet
 - e. Existing conditions plan.
 - f. Erosion control and tree protection plan.
 - g. Site plan. Include property line boundaries, water quality pond boundaries, sidewalk improvements, right-of-way (existing/proposed), easements (existing/proposed), and sidewalk and road connections to adjoining properties.
 - h. Grading plan, with 1-foot contours.
 - i. Composite utility plan; identify storm, sanitary, and water lines; identify storm and sanitary manholes.
 - j. Detailed plans; show plan view and either profile view or provide i.e.'s at all utility crossings; include laterals in profile view or provide table with i.e.'s at crossings; vertical scale 1"= 5', horizontal scale 1"= 20' or 1"= 30'.
 - k. Street plans.
 - l. Storm sewer/drainage plans; number all lines, manholes, catch basins, and cleanouts for easier reference.
 - m. Stormwater LID facilities (Low Impact Development): provide plan and profile views of all LID facilities.
 - n. Water and sanitary sewer plans; plan; number all lines, manholes, and cleanouts for easier reference.

- o. Where depth of water mains are designed deeper than the 3-foot minimum (to clear other pipe lines or obstructions), the design engineer shall add the required depth information to the plan sheets.
 - p. Detailed plan for water quality facility (both plan and profile views), including water quality orifice diameter and manhole rim elevations. Provide detail of inlet structure and energy dissipation device. Provide details of drain inlets, structures, and piping for outfall structure. Note that although storm water facilities are typically privately maintained they will be inspected by engineering, and the plans must be part of the Public Works Permit set.
 - q. Composite franchise utility plan.
 - r. City of Wilsonville detail drawings.
 - s. Illumination plan.
 - t. Striping and signage plan.
 - u. Landscape plan.
7. Design engineer shall coordinate with the City in numbering the sanitary and stormwater sewer systems to reflect the City's numbering system. Video testing and sanitary manhole testing will refer to City's numbering system.
 8. The applicant shall install, operate and maintain adequate erosion control measures in conformance with City Code Section 8.317 during the construction of any public/private utility and building improvements until such time as approved permanent vegetative materials have been installed.
 9. Applicant shall work with City Engineering before disturbing any soil on the respective site. If 5 or more acres of the site will be disturbed applicant shall obtain a 1200-C permit from the Oregon Department of Environmental Quality. If 1 to less than 5 acres of the site will be disturbed a 1200-CN permit from the City of Wilsonville is required.
 10. The applicant shall be in conformance with all stormwater and flow control requirements for the proposed development per the Public Works Standards.
 11. The applicant shall be in conformance with all source control requirements for the proposed development per the Public Works Standards and Wilsonville City Code.
 12. A storm water analysis prepared by a Professional Engineer registered in the State of Oregon shall be submitted for review and approval by the City.
 13. The applicant shall be in conformance with all water quality requirements for the proposed development per the Public Works Standards. If a mechanical water quality system is used, prior to City acceptance of the project the applicant shall provide a letter from the system manufacturer stating that the system was installed per specifications and is functioning as designed.

14. Storm water quality facilities shall have approved landscape planted and approved by the City of Wilsonville prior to paving.
15. The applicant shall contact the Oregon Water Resources Department and inform them of any existing wells located on the subject site. Any existing well shall be limited to irrigation purposes only. Proper separation, in conformance with applicable State standards, shall be maintained between irrigation systems, public water systems, and public sanitary systems. Should the project abandon any existing wells, they shall be properly abandoned in conformance with State standards.
16. All survey monuments on the subject site, or that may be subject to disturbance within the construction area, or the construction of any off-site improvements shall be adequately referenced and protected prior to commencement of any construction activity. If the survey monuments are disturbed, moved, relocated or destroyed as a result of any construction, the project shall, at its cost, retain the services of a registered professional land surveyor in the State of Oregon to restore the monument to its original condition and file the necessary surveys as required by Oregon State law. A copy of any recorded survey shall be submitted to Staff.
17. Streetlights shall be in compliance with City dark sky, LED, and PGE Option B requirements.
18. Sidewalks, ramps, crosswalks and pedestrian linkages in the public right-of-way shall be in compliance with the requirements of the U.S. Access Board.
19. No surcharging of sanitary or storm water manholes is allowed.
20. The project shall connect to an existing manhole or install a manhole at each connection point to the public storm system and sanitary sewer system.
21. A City approved energy dissipation device shall be installed at all proposed storm system outfalls. Storm outfall facilities shall be designed and constructed in conformance with the Public Works Standards.
22. The applicant shall provide a 'stamped' engineering plan and supporting information that shows the proposed street light locations meet the appropriate AASHTO lighting standards for all proposed streets and pedestrian alleyways.
23. All required pavement markings, in conformance with the Transportation Systems Plan and the Bike and Pedestrian Master Plan, shall be completed in conjunction with any conditioned street improvements.
24. Street and traffic signs shall have a hi-intensity prismatic finish meeting ASTM 4956 Spec Type 4 standards.

25. The applicant shall provide adequate sight distance at all project driveways by driveway placement or vegetation control. Specific designs to be submitted and approved by the City Engineer. Coordinate and align proposed driveways with driveways on the opposite side of the proposed project site.
26. The applicant shall provide adequate sight distance at all project street intersections, alley intersections and commercial driveways by properly designing intersection alignments, establishing set-backs, driveway placement and/or vegetation control. Coordinate and align proposed streets, alleys and commercial driveways with existing streets, alleys and commercial driveways located on the opposite side of the proposed project site existing roadways. Specific designs shall be approved by a Professional Engineer registered in the State of Oregon. As part of project acceptance by the City the Applicant shall have the sight distance at all project intersections, alley intersections and commercial driveways verified and approved by a Professional Engineer registered in the State of Oregon, with the approval(s) submitted to the City (on City approved forms).
27. Access requirements, including sight distance, shall conform to the City's Transportation Systems Plan (TSP) or as approved by the City Engineer. Landscaping plantings shall be low enough to provide adequate sight distance at all street intersections and alley/street intersections.
28. Applicant shall design interior streets and alleys to meet specifications of Tualatin Valley Fire & Rescue and Republic Services for access and use of their vehicles.
29. The applicant shall provide the City with a Stormwater Maintenance and Access Easement Agreement (on City approved forms) for City inspection of those portions of the storm system to be privately maintained. Applicant shall provide City with a map exhibit showing the location of all stormwater facilities which will be maintained by the Applicant or designee. Stormwater LID facilities may be located within the public right-of-way upon approval of the City Engineer. Applicant shall maintain all LID storm water components and private conventional storm water facilities; maintenance shall transfer to the respective homeowners association when it is formed.
30. The applicant shall "loop" proposed waterlines by connecting to the existing City waterlines where applicable.
31. Applicant shall provide a minimum 6-foot Public Utility Easement on lot frontages to all public right-of-ways. An 8-foot PUE shall be provided along Collectors. A 10-ft PUE shall be provided along Minor and Major Arterials.
32. For any new public easements created with the project the Applicant shall be required to produce the specific survey exhibits establishing the easement and shall provide the City with the appropriate Easement document (on City approved forms).

33. Record Drawings:

At the completion of the installation of any required public improvements, and before a 'punch list' inspection is scheduled, the Engineer shall perform a record survey. Said survey shall be the basis for the preparation of 'record drawings' which will serve as the physical record of those changes made to the plans and/or specifications, originally approved by Staff, that occurred during construction. Using the record survey as a guide, the appropriate changes will be made to the construction plans and/or specifications and a complete revised 'set' shall be submitted. The 'set' shall consist of drawings of: an electronic copy in AutoCAD, (current version) and a digitally signed PDF.

Exhibit C2
Natural Resources Findings & Requirements

Findings for SROZ22-0005 and SRIR22-0003

Significant Resource Overlay Zone

1. The applicant shall submit the SROZ mapping as ARCGIS shape files or a compatible format.
2. All landscaping, including herbicides used to eradicate invasive plant species and existing vegetation in the SROZ shall be reviewed and approved by the Natural Resources Manager. Native plants are required for landscaping or site restoration in the SROZ.
3. Prior to any site grading or ground disturbance, the applicant is required to delineate the boundary of the SROZ. Six-foot (6') tall cyclone fences with metal posts pounded into the ground at 6'-8' centers shall be used to protect the significant natural resource area where development encroaches into the 25-foot Impact Area.
4. Mitigation actions shall be implemented prior to or at the same time as the impact activity is conducted.
5. The Significant Resource Overlay Zone (SROZ) shall be identified in a conservation easement. The applicant shall record the conservation easement with Clackamas County Clerk's office. The conservation easement shall include language prohibiting any disturbance of native vegetation without first obtaining approval from the Planning Division and the Natural Resources Manager. The conservation easement shall be reviewed by the City Attorney prior to recording.