



**Request for Clean Water Act  
Section 401 Water Quality Certification  
Washington State Department of Ecology**  
**Phone: (360) 407-6076 or E-mail: [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov)**

AGENCY USE ONLY	
Date Received:	9/18/2023
Aquatics ID No.:	139370
Team:	NWRO
Valid Request:	9/18/2023

This Section 401 Water Quality Certification (WQC) Request form identifies information needed in order to review and process a Section 401 WQC Request. Please see Department of Ecology's (Ecology) [webpage](#) for more information about the Section 401 WQC Request process.

Submit this Section 401 WQC Request form along with a [Joint Aquatic Resources Permit Application](#) (JARPA) and supporting information<sup>1</sup> to [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov) and copy the federal permitting agency.

**A. Federal Permit or License Reference Number, if known:** NWS-2017-533  
**Department of Ecology (Ecology) Aquatics ID Number, if known:** 139370  
**Project Name:** Lake Hills Trunk (LHT) and Northwest Lake Sammamish Interceptor (NWLSI) Upgrade **County:** King

**B. Project Proponent Name:** Jessica Conquest, King County Wastewater Treatment Division (WTD)

**C. Documentation showing that the Pre-Filing Meeting Request was submitted at least 30 days prior to submitting this Section 401 WQC Request. Attach either of the following:**

- ☒ E-mail acknowledgement of receipt from Ecology  
☐ Copy of previously submitted Pre-Filing Meeting Request Form

**D. A completed, signed, and dated JARPA should be submitted with this form.**

**Did you attach a JARPA?** ☒ Yes ☐ No

**E. The following is a list of documents needed for Ecology's WQC review, along with a brief explanation. Depending on the project, additional information may be requested.**

**Please let us know what information you are submitting with this WQC request form.**

Required for all projects:

1. State Environmental Policy Act (SEPA) determination and/or checklist:

- ☒ Final SEPA determination attached  
☐ SEPA determination pending  
☐ Exempt from SEPA (see [SEPA Guidance](#))  
☐ SEPA is not required (e.g., federal agency projects)

<sup>1</sup> To submit documents over 25MB, e-mail [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov) to request a secure link.

To request an ADA accommodation, contact Ecology by phone at (360) 407-6076 or email at [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov), or visit <https://ecology.wa.gov/accessibility>.

For Relay Service or TTY call 711 or 877-833-6341.

Si necesita este formulario en español, por favor, llámenos a (360) 407-6076  
o envíenos un correo electrónico a: [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov)

2. Project drawings attached:

- ☒ Vicinity map
- ☒ Plan view
- ☒ Cross-section(s)
- ☐ Plan set
- ☒ Other: JARPA drawings

3. Best management practices and construction methodology, provided in the attached:

- ☒ JARPA
- ☐ Water Quality Monitoring and Protection Plan (WQMPP)
- ☐ Project drawings, sheets: \_\_\_\_\_
- ☒ Mitigation Plan pages: 19 - 26
- ☐ Other document(s): \_\_\_\_\_

Notes:

- This is needed for in-water work (below ordinary high water mark), including wetlands.
- Describe best management practices to be implemented to protect water quality.
- Describe construction sequencing and methodology.

4. Water quality monitoring, provided in the attached:

- ☒ Water Quality Monitoring Plan (WQMP).
- ☐ Water Quality Monitoring and Protection Plan (WQMPP is similar to WQMP, but includes best management practices).
- ☐ Other (please identify location, such as JARPA, Part 8): \_\_\_\_\_

Notes:

- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- A plan is needed when conducting work in a waterbody (e.g., creek, ditch, river, lake, pond, marine, estuarine).
- Include water quality parameters such as turbidity, oil sheen, pH (e.g., poured in-place concrete, concrete demolition), etc.
- See [State Water Quality Standards for Surface Waters](#) (Chapter 173-201A-200 or -210 WAC)
- If needed, templates are available.

Required depending on the project type:

5. Erosion and sediment control for upland work (above ordinary high water mark) that addresses stormwater during construction and long-term:

This information is included in the attached:

- ☐ JARPA
- ☐ Project drawings, sheets: \_\_\_\_\_
- ☐ Stormwater Pollution Prevention Plan, pages: \_\_\_\_\_
- ☐ Mitigation Plan, pages: \_\_\_\_\_
- ☒ Other document(s): Stormwater Site Plan

6. Wetland report, including the attached:

- ☒ Wetland delineation report
- ☒ Delineation data sheets
- ☒ Wetland rating forms

Notes:

- Needed when there is a discharge (dewatering, excavation or fill) to wetlands.
- Report needs to include both a wetland delineation and rating.
- Include delineation data sheets and rating forms.
- For more information see [wetland delineation resources](#) and [hiring a qualified wetland professional](#).
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.

7. Mitigation, avoidance and minimization

- ☐ Wetland [avoidance and minimization checklist](#)
- ☐ Other aquatic resource avoidance and minimization demonstration
- ☒ Mitigation Plan
- ☐ Other: \_\_\_\_\_

Notes:

- Wetland [avoidance and minimization webpage](#).

8. Mitigation plan, provided in the attached:

- ☐ Riparian Planting and Monitoring Plan (Needed when riparian vegetation is removed or modified)
- ☒ Wetland or stream/other aquatic resource Mitigation Plan
- ☐ Wetland Mitigation Bank Use Plan (use when proposing mitigation bank use)
- ☐ In-Lieu Fee (ILF) Use Plan (use when proposing ILF mitigation)
- ☐ Project drawings, sheets: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Notes:

- Needed to offset impacts to wetland, stream, marine, or other aquatic habitat.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- For more information, see [wetland compensatory mitigation](#).

9. Dredging N/A

- ☐ Dredging Plan attached
- ☐ Suitability Determination attached

Notes:

- Needed when sediments will be dredged for maintenance, navigation, or other purposes.
- Covers in-water disposal and sediment anti-degradation.
- Dredging Plan should include dredge footprint and depth, dredge type, best management practices, disposal plan, off-loading plan for upland disposal, etc.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- For information on suitability determinations, see [Dredged Material Management Office](#).

10. Dewatering

- ☒ Dewatering Plan attached See JARPA Section 6e

Notes:

- Needed for complex in-water work or management of excavated/dredged material.

- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- May also be required for some excavation projects.


**F. Required Certification Statements:**

The project proponent hereby certifies that all information contained herein is true, accurate, and complete, to the best of my knowledge and belief.

Initial JC

The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Initial JC

Signature: Jessica Conquest  Digitally signed by Jessica Conquest  
Date: 2023.09.18 12:48:20 -07'00' Date: 9/18/2023

Print Name: Jessica Conquest





# WASHINGTON STATE

## Joint Aquatic Resources Permit Application (JARPA) Form<sup>1,2</sup> [\[help\]](#)

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: 9/18/2023 MFT Link  
Rec'd Section 401  
Request Form

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

### Part 1—Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [\[help\]](#)

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

### Part 2—Applicant

The person and/or organization responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle)

Jones, Hillary

2b. Organization (If applicable)

King County Wastewater Treatment Division (WTD)

2c. Mailing Address (Street or PO Box)

201 S Jackson Street, Room 505

2d. City, State, Zip

Seattle, WA 98104-3855

2e. Phone (1)

2f. Phone (2)

2g. Fax

2h. E-mail

(206) 477-5504

hillary.jones@kingcounty.gov

<sup>1</sup>Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

<sup>2</sup>To access an online JARPA form with [\[help\]](#) screens, go to

[http://www.epermitting.wa.gov/site/alias\\_resourcecenter/jarpa\\_jarpa\\_form/9984/jarpa\\_form.aspx](http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx).

## Part 3—Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [\[help\]](#)

<b>3a. Name</b> (Last, First, Middle)			
Same As Applicant			
<b>3b. Organization</b> (If applicable)			
<b>3c. Mailing Address</b> (Street or PO Box)			
<b>3d. City, State, Zip</b>			
<b>3e. Phone</b> (1)	<b>3f. Phone</b> (2)	<b>3g. Fax</b>	<b>3h. E-mail</b>

## Part 4—Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aquatic** ownership because the upland owners may not own the adjacent aquatic land. [\[help\]](#)

- ☐ Same as applicant. (Skip to Part 5.)
- ☐ Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- ☒ There are multiple upland property owners. Complete the section below and fill out [JARPA Attachment A](#) for each additional property owner.
- ☐ Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete [JARPA Attachment E](#) to apply for the Aquatic Use Authorization.

<b>4a. Name</b> (Last, First, Middle)			
<b>4b. Organization</b> (If applicable)			
King County Parks			
<b>4c. Mailing Address</b> (Street or PO Box)			
201 S Jackson Street #700			
<b>4d. City, State, Zip</b>			
Seattle, WA 98104			
<b>4e. Phone</b> (1)	<b>4f. Phone</b> (2)	<b>4g. Fax</b>	<b>4h. E-mail</b>

## Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- ☒ There are multiple project locations (e.g. linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional project location.

*Note: The Sammamish River and Wetland E project locations are described below. Additional Attachment B forms are enclosed for the following project locations: Wetlands J and K; Wetland N; Wetland O; Wetland M, Wetland L1, and Wetland L2.*

<b>5a.</b> Indicate the type of ownership of the property. (Check all that apply.) <a href="#">[help]</a>			
<input type="checkbox"/> Private			
<input type="checkbox"/> Federal			
<input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.)			
<input type="checkbox"/> Tribal			
<input checked="" type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>5b.</b> Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) <a href="#">[help]</a>			
No street address; see 5p for more information			
<b>5c.</b> City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Redmond, WA 98052			
<b>5d.</b> County <a href="#">[help]</a>			
King			
<b>5e.</b> Provide the section, township, and range for the project location. <a href="#">[help]</a>			
<b>¼ Section</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
NE ¼	11	25 N	05 E
<b>5f.</b> Provide the latitude and longitude of the project location. <a href="#">[help]</a>			
<ul style="list-style-type: none"><li>Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)</li></ul>			
47.670614 N lat. / -122.128206 W long			
<b>5g.</b> List the tax parcel number(s) for the project location. <a href="#">[help]</a>			
<ul style="list-style-type: none"><li>The local county assessor's office can provide this information.</li></ul>			
Parcels 1125059096 and 112505HYDR (Sammamish River and Wetland E affected areas only)			
<b>5h.</b> Contact information for all adjoining property owners. (If you need more space, use <a href="#">JARPA Attachment C.</a> ) <a href="#">[help]</a>			
<b>Name</b>	<b>Mailing Address</b>	<b>Tax Parcel # (if known)</b>	
City of Redmond	PO Box 97010 M/S 3NFN	1125059060	
	Redmond, WA 98073		
King County Parks	201 S Jackson Street #700	1125059142 and 1125059096	
	Seattle, WA 98104		
Sammamish Waterway Condominiums	16541 Redmond Way #316C	7527150000	
	Redmond, WA 98052		

Aegis – Redmond C/O LAKE SAMMAMISH PKWY- REDMOND1O9999	2841 Cleveland Ave #B	1125059055
	Santa Rosa, CA 95403	

**5i.** List all wetlands on or adjacent to the project location. [\[help\]](#)

Wetland E is located on the south bank of the Sammamish River, north of Leary Way NE. Other wetlands that will not be affected by the project include those located along the Sammamish River (A, B, C, D, F, and G). See enclosed Attachment B forms for a summary of wetlands at additional project locations.

**5j.** List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

The Sammamish River is within this project location and portions will be affected by the project. Other streams in the vicinity of the Sammamish River that will not be affected by the project include Bear Creek and Tosh Creek. See enclosed Attachment B forms for a summary of streams at additional project locations.

**5k.** Is any part of the project area within a 100-year floodplain? [\[help\]](#)

☒ Yes   ☐ No   ☐ Don't know

**5l.** Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

Areas along the bank of the Sammamish River (waterward of the ordinary high water mark [OHWM]) that will be affected by the project include a forest class with native vegetation and a shrub class with nonnative and invasive shrub vegetation. Adjacent to the areas of temporary impact, glide stream habitat (i.e., slowly moving water with a smooth, unbroken surface) is dominant with silt and sand substrate. Habitat is used by fish for spawning, rearing, and migration. The banks of the river are steep, and large woody debris is absent. The Sammamish River flows to Lake Washington.

Wetland E contains shrub cover (Himalayan blackberry) capable of trapping sediments and slowing water velocities, which contributes to reducing downstream flooding and erosion. Wetland E discharges to the Sammamish River. Wetland E provides a low level of habitat functions because of low interspersions between vegetation classes and hydrologic regimes, and low plant species richness that provides little structure or diversity throughout the site to support wildlife. However, the presence of undercut banks provides cover for fish, and stable steep banks provide potential habitat for beaver.

**5m.** Describe how the property is currently used. [\[help\]](#)

The property is currently used as recreation (Sammamish River Trail and Sammamish River).

**5n.** Describe how the adjacent properties are currently used. [\[help\]](#)

Adjacent properties include multi-family residential, commercial, and transportation (local roads).

**5o.** Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [\[help\]](#)

There are no above-ground structures on the property. The Sammamish River Trail is a recreational trail running through the property, along the Sammamish River. There are numerous below-ground utilities within the project area, including an existing sewer pipeline crossing beneath the bed of the Sammamish River.

**5p.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From State Route (SR) 520, take the West Lake Sammamish Parkway NE exit. Head north on West Lake Sammamish Parkway NE. Turn right onto Leary Way. Wetland E is located on the south side of the river, along the Sammamish River Trail (see Sheets 3 and 4; Drawing G003).

## Part 6—Project Description

**6a.** Briefly summarize the overall project. You can provide more detail in 6b. [\[help\]](#)

King County WTD proposes to increase capacity of the sewer system in its North Lake Sammamish Conveyance System Planning Basin. The project will upgrade the existing 23,550-foot-long wastewater sewer to convey 20-year peak flows through the year 2060.

**6b.** Describe the purpose of the project and why you want or need to perform it. [\[help\]](#)

The upgrade will provide King County WTD's sewer with sufficient capacity to meet the future flow demands of projected population growth (population growth is independent of this project, and the project will not contribute to increased population).

**6c.** Indicate the project category. (Check all that apply) [\[help\]](#)

- |  |  |  |   |                                       |
|--|--|--|---|---------------------------------------|
| <input checked="" type="checkbox"/> Commercial | <input type="checkbox"/> Residential               | <input type="checkbox"/> Institutional | <input type="checkbox"/> Transportation | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Maintenance           | <input type="checkbox"/> Environmental Enhancement |  |   |                                       |

**6d.** Indicate the major elements of your project. (Check all that apply) [\[help\]](#)

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> Aquaculture          | <input checked="" type="checkbox"/> Culvert   | <input type="checkbox"/> Float                    | <input type="checkbox"/> Retaining Wall (upland)        |
| <input type="checkbox"/> Bank Stabilization   | <input type="checkbox"/> Dam / Weir           | <input type="checkbox"/> Floating Home            | <input type="checkbox"/> Road                           |
| <input type="checkbox"/> Boat House           | <input type="checkbox"/> Dike / Levee / Jetty | <input type="checkbox"/> Geotechnical Survey      | <input type="checkbox"/> Scientific Measurement Device  |
| <input type="checkbox"/> Boat Launch          | <input type="checkbox"/> Ditch                | <input checked="" type="checkbox"/> Land Clearing | <input type="checkbox"/> Stairs                         |
| <input type="checkbox"/> Boat Lift            | <input type="checkbox"/> Dock / Pier          | <input type="checkbox"/> Marina / Moorage         | <input checked="" type="checkbox"/> Stormwater facility |
| <input type="checkbox"/> Bridge               | <input type="checkbox"/> Dredging             | <input type="checkbox"/> Mining                   | <input type="checkbox"/> Swimming Pool                  |
| <input type="checkbox"/> Bulkhead             | <input type="checkbox"/> Fence                | <input type="checkbox"/> Outfall Structure        | <input checked="" type="checkbox"/> Utility Line        |
| <input type="checkbox"/> Buoy                 | <input type="checkbox"/> Ferry Terminal       | <input type="checkbox"/> Piling/Dolphin           |   |
| <input type="checkbox"/> Channel Modification | <input type="checkbox"/> Fishway              | <input type="checkbox"/> Raft                     |   |

- ☒ Other: Culvert Replacement and Temporary Streamflow Bypass (Country Creek), Sammamish River trench dewatering

**6e.** Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [\[help\]](#)

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year floodplain.

The project includes installing approximately 24,100 linear feet of new gravity sewer pipelines (approximately 4,600 feet within unincorporated King County and 19,500 feet in Redmond), repairing and lining parts of the existing sewer system, removing or decommissioning portions of existing infrastructure (pipes and maintenance holes), resource protection and restoration, and mitigation.

Portions of the project area in the vicinity of the Sammamish River (generally along the Sammamish River Trail and West Lake Sammamish Parkway NE from the Marymoor Park entrance to roughly NE 51st Street) are within the FEMA-mapped 100-year floodplain and floodway.

Most of the pipelines will be installed using an open trench method. Trenchless techniques will be used to install the pipeline beneath the Sammamish River and Clise Creek. Several maintenance holes will be located along the pipeline alignment to access the pipe.

Project construction will entail:

- Implementation of a Temporary Erosion and Sediment Control (TESC) plan and a Stormwater Pollution Prevention Plan (SWPPP)
- Sewage conveyance pipeline installation including temporary groundwater and trench dewatering discharge locations below the ordinary high water of the Sammamish River.

- Country Creek temporary flow diversion and fish exclusion, and culvert replacement
- Site restoration
- Wetland and buffer mitigation

#### Temporary Erosion and Sediment Control and Stormwater Pollution Prevention Plans

A TESC plan will be implemented to minimize erosion and transport of sediments both on and away from the project site. In addition, the project will comply with a SWPPP to prevent water quality violations. At a minimum, best management practices (BMPs) contained in the TESC plan and SWPPP will include the following:

- TESC measures will be installed prior to clearing, grubbing, excavation, and grading activities.
- High-visibility fencing will be installed to delineate clearing and construction work limits.
- Where necessary, sediment controls (e.g., check dams, silt fences, drain inlet protections, and stabilized construction entrances) will be installed to prevent release of sediments from construction areas.
- Construction materials will be clean, covered when appropriate, and placed in a manner to prevent erosion and siltation that might result from high water or heavy rains.
- Any waste material, debris, or spoils will be disposed of at an approved and permitted upland commercial site or approved waste site.
- Containment measures will be implemented at staging and/or material stockpile areas to prevent runoff.
- All disturbed ground or exposed areas will be stabilized with seed and/or appropriate covering (e.g., plastic, weed-free straw, or mulch).
- Project operations will cease under high-flow conditions that may result in inundation of the project site, except for efforts to avoid or minimize resource damage.
- No exposed soils will remain unstabilized for more than two days between October 1 and April 30, and for no more than seven days between May 1 and September 30.
- Disturbed areas will be restored by means of seeding and planting.
- Fueling and maintenance of construction equipment will occur outside of wetlands, streams, ditches, and flowing or standing water. Spill control and containment measures will be implemented during all refueling.
- Methods will be implemented for treating dewatering water to control turbidity prior to discharge to streams.
- A Certified Erosion and Sediment Control Lead will be on-site at all times to inspect and maintain BMPs.

In addition, the contractor will prepare a Spill Prevention, Control, and Countermeasures (SPCC) plan, which will address the control of pollutants other than sediments during construction.

#### Sewage Conveyance Pipe

For most of the proposed sewer alignment, the pipeline will parallel the existing sewer pipeline, which will be decommissioned following construction. In some locations, due to space constraints, the existing sewer line will be removed and the new, larger sewer line will be installed in its place. In select locations, portions of the existing sewer line will be cleaned, slip-lined, or rehabilitated, and will remain in service.

Open-cut construction will be the primary method for installing most of the sewer pipeline and related appurtenances in the project area. Construction will consist of clearing vegetation and cutting pavement, as needed; excavating the trench with wheeled backhoes and tracked excavators; installing shoring; dewatering; laying the pipe and installing maintenance holes and pipe junction appurtenances; and backfilling and compacting the trench.

Where it is necessary to cross Tosh Creek, Villa Marina Creek, Idylwood Creek, and Brae Burn the pipeline will install within the roadway or adjacent shoulder (West Lake Sammamish Parkway NE, 180th Avenue NE, and NE 24th Street) above or below existing culverts.

Where the project crosses existing culverts that were determined to be fish-passage barriers, conceptual designs of fish-passable culverts were prepared to confirm that the elevation of the sewer pipe will not interfere with culvert replacement in the future.

Trenchless pipe installation will be used where it is desirable to avoid construction disturbance to streams, including crossings of the Sammamish River (Sheets 3 and 22; Drawing C201) and Clise Creek (Sheet 5; Drawings C308 to C309). Trenchless installation at those locations also will avoid impacts to the waterways, adjacent wetlands, and NE Marymoor Way (the primary entrance to Marymoor Park). At each end of the trenchless crossings, open pits will be excavated from which pipe casings will be launched and received using trenchless techniques (e.g., microtunneling under the Sammamish River and pilot tube auger bore under Clise Creek). The sewer pipe will be installed inside each of the pipe casings. At the trenchless crossing locations, a scour analysis was conducted to demonstrate that the potential for exposure of the pipe in stream channels will be avoided by installing the pipeline below the maximum potential scour depth.

The width of the construction work limits was minimized to the extent practical for installation of the pipeline. Where the pipeline will be installed along roadways, the work limits will be contained within the limits of the right-of-way. Along trails and through Marymoor Park, the standard width of the work limits ranges from 45 feet to 60 feet depending on the size of the proposed pipe diameter and site constraints. On private properties, the standard width of work limits ranges from 25 feet to 60 feet. However, the standard width was reduced in several locations to avoid or reduce impacts on adjacent built features, wetlands, streams, and buffers. The work limits are the minimum necessary to allow for construction, and include space for a temporary access road adjacent to open-cut trenching activity and staging areas surrounding pits for trenchless pipe installation activity.

During construction, some dewatering will be necessary within open-cut trenches and launching/receiving pits constructed for trenchless crossings. Groundwater that enters trenches and pits will be pumped and released to drainages, storm drains, sanitary sewers, and/or upland areas. Any turbid dewatering water will be treated prior to discharging to storm drains or drainages (e.g., ditches and streams).

### Groundwater Management Methods

#### *Dewatering*

Based on observation of groundwater monitoring wells that were installed as part of this project, most of the proposed LHT/NWLSI project pipeline installation will either be constructed beneath the groundwater table or influenced by perched groundwater. To comply with City of Redmond's *Temporary Construction Dewatering* code requirements (Chapter 13.25), it is anticipated that a flow rate of less than 500 gallons per minute (gpm) will be achieved. One exception is the portion of the alignment between NE 85th Street and Leary Way NE. This section is located within the City of Redmond's Critical Aquifer Recharge Areas I and II. A Temporary Construction Dewatering Feasibility Study was prepared for this portion of the alignment, which outlines the potential dewatering flow rates based on dry and wet weather groundwater fluctuations.

Watertight shoring, using temporary sheet piles with dewatering wells located inside of the shoring, will be required. The spacing of the wells are dependent upon whether the contractor would leave both ends of the trench open, or whether an additional sheet pile is included at the approaching end, resulting a three-sided shoring system. For the open ended shoring system, wells (30 to 34 feet deep) will be placed at a 20 to 40 foot spacing, resulting in discharge rates of approximately 2,000 to 8,800 gpm. The three-sided shoring system will place wells (30 to 34 feet deep) at 25 to 40 foot spacing, resulting in discharge rates of approximately 1,300 to 6,400 gpm.

Watertight shoring does not appear to be feasible when the alignment is crossing underneath the Redmond Central Connector, Redmond Way NE, and Leary Way NE bridges. All bridge crossings (other than the ones under SR 520) would be performed during the dry season (generally May through October) to reduce the volume of water having to be dewatered. Conventional non-watertight shoring, such as trench boxes or slide rail-shoring systems, with dewatering occurring outside of the trench excavation area, will be used. The crossing of the Redmond Central Connector bridge will place wells (45 feet deep) at 10 to 30 foot spacing with discharge rates of approximately 6,000 to 27,000 gpm. The crossing of the Redmond Way NE bridge will

place wells (45 feet deep) at 10 to 40 foot spacing with discharge rates of approximately 3,000 to 17,000 gpm. The Leary Way NE bridge crossing will be required to be performed during the dry season which will allow the pipeline installation to be able to achieve a flow rate of less than 500 gpm.

#### *Discharge of Dewatering Water into Sammamish River*

It is anticipated that dewatering of the shallow aquifer will be required during construction of the project, as well as depressurization of a confined aquifer where a confining unit (aquitar) is present along the alignment. Dewatering and depressurization will be accomplished primarily using pumped wells drilled and installed in the subsurface along the project alignment. The groundwater pumped from the dewatering/depressurization well systems will be temporarily stored in a sediment settling tank, and potentially routed through additional filtration or treatment systems as necessary to meet water quality requirements.

Dewatering of the pipeline trench will be discharged directly to the Sammamish River after achieving local, state, and federal water quality requirements. The discharge will be piped above ground and extend to the river bed of the Sammamish River as shown on Sheet 34; Drawing C902). The pipe will be anchored with supersacks at the toe of the river where the pipe will tee and run parallel to the toe of the river and discharged through a diffuser with openings extending upwards towards the river surface and away from the toe of the river to reduce erosive conditions. Screens will be placed over the diffuser openings to exclude fish from entering into the pipeline. No vegetation or soil removal/disturbance is required for installation of the energy dissipater. The energy dissipaters will remain in place near segments of active construction dewatering, and will be sequentially relocated ('leap-frogged') along the project alignment as pipe installation advances. Discharge locations will be determined by the contractor but will be placed at approximately 1,000 linear foot (LF) intervals along the river. All energy dissipation devices and piping will be installed and removed at the end of construction will occur during the allowable in-water work window approved by the Washington Department of Fish and Wildlife (WDFW), which is anticipated to occur from July 1 through September 30 or as determined by the local AHB.

All dewatering water will be treated as necessary to meet water quality standards. Turbidity, pH, temperature, total suspended solids, dissolved oxygen, and potentially other parameters will be monitored during dewatering to ensure compliance with discharge permit requirements. The Contractor's methods and rates of excavation will need to be modified, as necessary, to meet the water quality standards and discharge permit requirements. Dewatering that does not meet water quality requirements will be discharged directly to the King County sanitary sewer system. All wells will be decommissioned in accordance with Washington State regulations at the end of construction, anticipated to be January 2025.

#### *Other Methods to Control Groundwater*

Other methods to control and/or reduce groundwater discharge volumes may include excavation and installation in the wet (i.e., without dewatering), using watertight shoring with dewatering from inside the excavation and potentially recharge wells outside the excavation, using conventional non-watertight shoring with recharge wells outside of the excavation, and using ground freezing to stabilize the ground and reduce dewatering.

#### PSE Temporary Power

Temporary electrical service, provided by Puget Sound Energy (PSE), will be needed to provide electrical power to dewatering equipment (pumps) for construction of the portion of the sewerline between NE 85th Street and SR 520. It is anticipated that the contractor will generally require dewatering pumping staged in 100-foot sections of trenching to supply this power, PSE will need to extend primary power to four new transformers to be located along the LHT/NWLSI project corridor. The contractor will extend secondary power from the transformers to the needed locations. All temporary primary and secondary power facilities (transformers) are to be removed upon completion of the project and the areas restored to pre-project condition. The primary conduit will be abandoned to avoid additional impacts. New cables will be installed in an existing conduit on the Leary Way NE bridge for temporary power.

#### Trail Widening

The Sammamish River Trail will be widened along the east side of the Sammamish River for approximately 3,600 LF between NE 85th Street and Leary Way NE within the City of Redmond. The existing trail will be widened from 10 – 12-foot-wide asphalt trail to a 14-foot-wide asphalt trail with a 2-foot gravel shoulder on the west side of the trail adjacent to the river and a 4-foot gravel shoulder on the east side of the trail. The trail will



generally be maintained in its current location with the widening extending toward the east with minor alignment adjustments to avoid maintenance hole lids within the trail. One exception is adjacent to the Segment 2 discharge structure where the area will be graded and grass pavers installed to provide vehicular access for maintenance to the discharge structure as well as fire lane access to the adjacent Sammamish Waterway Condos.

#### Wetland, Stream, and Buffer Impacts

Pipeline construction will result in permanent and temporary impacts on wetlands, streams, and associated buffers within the shoreline jurisdiction as described below.

The project will result in minor, permanent impacts on a wetland where the sewer is installed directly below the ground surface requiring concrete cap protection (Wetland K on Sheets 7, 8 and 9; Drawings C312 and SR326), on Country Creek where a culvert will be replaced, and on buffers where maintenance holes and pipe junction appurtenances are proposed. All other project impacts on wetlands, streams, and buffers will be temporary and related to construction activities. Temporary construction impacts will result from implementing TESC measures, clearing and grubbing vegetation, construction access, and excavation and backfill during pipeline and manhole installation, and (within buffers only) stockpiling materials. Temporary impacts will occur where the project construction corridor intrudes within five wetlands (Wetlands E, J, K, L2, M, N, and O), two streams (the Sammamish River and Country Creek), and multiple buffer areas associated with wetlands and streams (Sheets 2 through 18; Drawings C201, C319, and C511). After construction, each temporary impact area will be restored to pre-project conditions (Sheets 19 through 23; Drawings SR124, SR320, SR 321, SR357, SR358, SR555, SR556, SR557, and SR558).

The project will result in two types of temporary impacts: short-term and long-term. Short-term temporary impacts will occur to palustrine emergent (PEM) wetland and herbaceous upland (buffer) vegetation classes in which vegetation can be replaced within one to two growing seasons. Short-term temporary impacts also apply to degraded stream banks, wetlands, or buffers with vegetation communities containing dominant nonnative vegetation. Long-term temporary impacts will occur to woody vegetation communities including palustrine scrub-shrub (PSS) and palustrine forested (PFO) wetland classes, and shrub and forested upland vegetation classes with dominant native vegetation. Reestablishment of woody vegetation to preconstruction maturity levels can take many years and, therefore, will result in a temporal loss of water quality, hydrology, and habitat functions.

Project construction will affect PEM, PSS, and PFO wetland vegetation classes, resulting in permanent, short-term temporary, and long-term temporary impacts. See Section 7 for more information.

Project construction will affect two small wetlands along the bank of the Sammamish River (waterward of the OHWM) including a forest class with native vegetation and a shrub class with nonnative and invasive shrub vegetation resulting in long-term and short-term temporary impacts, respectively (see Section 8 and Sheets 2 and 4 for more information). However, the project will avoid in-water work by limiting activities to areas landward of the wetted width during periods of low flow. In addition, replacement of the Country Creek culvert and associated stream flow bypass involving placement of cofferdams, pumps, and pipes will result in short-term and long-term temporary impacts to wetlands, as well as permanent and short-term temporary impacts to the stream. (Sheets 13 and 28 through 32; Drawings C319 and C351). Vegetation adjacent to the culvert will be cleared to access the site, and the stream channel will be graded to match upstream and downstream grades. An appropriate streambed material mix has been designed and will be placed in the newly graded section of channel.

#### Country Creek Culvert Replacement and Temporary Flow Diversion/Fish Exclusion

In-water work will occur within Country Creek. The culvert that conveys Country Creek beneath West Lake Sammamish Parkway Northeast is a partial fish passage barrier due to a hydraulic restriction caused by two existing sewer pipes (18- and 24-inches-diameter) that cross through the upper portion of the culvert. The culvert will be replaced with a fully passable culvert during this project (see description below). A short-term temporary stream diversion system will route flows around the culvert during construction.

The replacement structure will be a fully passable box culvert 15 feet wide and 60 feet long. The culvert replacement will include approximately 110 feet of linear channel grading and placement of streambed material sized to be stable up to the 100-year flood event to prevent exposure of the new sewer crossing under the creek. Thirteen large woody material pieces are proposed as part of the culvert replacement to

promote hydraulic diversity, pool development, and provide overhead cover. Installation of the temporary stream diversion system will first involve removing fish and excluding fish from the work zone using seine nets, dip nets, and/or electrofishers consistent with state and federal guidelines for fish exclusion and work area isolation. Nets will be composed of nylon or a similar nonabrasive material. Next, cofferdams constructed of sandbags or bulk bags lined with plastic will be placed at the upstream and downstream limits of the in-water work zone. Stream flow will be piped and pumped around the work zone. Any turbid water within the work zone will be pumped to an upland location for treatment prior to re-entering the stream. Water intakes used to pump water around the work zone will have fish screens installed, operated, and maintained according to Washington State screening requirements for water diversions (RCW 77.57.070).

All fish removal, fish isolation, temporary stream flow bypass work, and culvert installation will occur during the allowable in-water work window approved by the Washington Department of Fish and Wildlife (WDFW), which is anticipated to occur from July 1 through September 30 or as determined by the local AHB.

#### Brae Burn Creek Storm Drain Realignment/Replacement

Project activities include the realignment and replacement of approximately 170 feet of storm pipe and associated catch basins in 177th Avenue NE south of the 179th Place NE intersection (Sheet 35; Drawing SR506). This portion of storm drain conveys Brae Burn Creek underneath the roadway between the City of Redmond Viewpoint Open Space and a ravine south of NE 24th Street.

Brae Burn Creek is categorized by the Washington State Department of Natural Resources as a Type Np (non-fish bearing) stream. The City of Redmond categorizes the reach upstream of 177th Avenue NE as a Class IV stream (perennial stream with no potential for fish use; Redmond Zoning Code (RZC) 21.64.020.A.2.d) due to steep slopes that exceed the gradient thresholds established by Washington Administrative Code 222-16-031 (Emily Flanagan, City of Redmond Senior Surface Water Engineer, personal communication to George Ritchotte, Herrera Environmental Consultants, October 2, 2019). The entire creek has no documented anadromous fish use (WDFW 2019), and anadromous fish cannot access the portion of Brae Burn Creek upstream of NE 24th Street due to impassable culverts underneath 180th Avenue NE and NE 24th Street. Numerous other pipes and culverts downstream of NE 24th Street are also anticipated to be fish passage barriers, although these features have not been assessed for passability.

The storm drain will generally be placed adjacent to the west curb of 177th Avenue NE, with an additional catch basin to be located between the existing downstream and upstream catch basins, forming an angle point in the new storm drain alignment to accommodate the curved configuration of the roadway. The proposed sanitary sewer main will generally be placed in the center of 177th Avenue NE approximately 12.5-feet (as measured centerline to centerline) east of the proposed storm drain. The vertical alignment of the replacement storm drain will be lowered to allow use of a hydraulically equivalent or better 24-inch (smooth interior wall) storm drain as compared to the existing corrugated metal pipe arch (CMPA) with minimal cover. It is anticipated that the proposed storm drain will be ductile iron pipe (DIP) to account for high live load conditions due to minimal allowable depth of cover. The downstream and upstream catch basins will be replaced (reflecting the change from a CMPA to circular pipe) and will provide re-connection to the existing storm drain at each end. Therefore, the existing flow path will be preserved, and no changes in upstream storm drain inflow or downstream storm drain discharge from existing conditions will result.

For replacement of the storm drain, the contractor will be responsible for the care and temporary diversion of any flows encountered during the installation. This will require installation of a temporary bypass. To accomplish this, the contractor will need to install a submersible pump within a catch basin at the upstream connection point as the intake for the temporary flow bypass and remove it at the completion of construction. No other temporary stream impacts are expected. Also, no permanent impacts within the stream OHW are expected that could otherwise require restoration or additional mitigation for this storm drain segment improvement. Construction timing will depend on the contractor's construction activities, schedule and sequencing, and would preferably occur during the dry season when stream flow is expected to be minimal. The contractor will be required to comply with any assigned permit conditions associated with this improvement.

#### Site Restoration

After sewer pipes, maintenance holes, and pipe junction appurtenances are installed, the subsurface and surface conditions of the project site will be restored. Trenches and pits will be backfilled to preconstruction grades as described above. Backfill with permeable materials will restore groundwater flows in the direction of

stream channels. Where necessary, trench dams will be installed to prevent a French-drain effect along the pipeline such that wetland groundwater conditions are not adversely affected. Where the pipeline is installed in vegetated areas, native or imported topsoil suitable for plant growth will be backfilled at the surface.

For Country Creek culvert replacement, areas that were not graded will be restored to their original grade; and in all areas that were graded and disturbed, soils will be decompacted and native soils or imported topsoils will be placed for plant growth.

All vegetated areas will be replanted with containerized plants, live stakes, and/or seeded. Temporary wetland, stream, and buffer impact areas will be fully restored or enhanced with native vegetation after construction.

#### Wetland and Buffer Mitigation

The project has been designed to result in no net loss of wetland or shoreline ecological functions per RZC 21.64.010 A(3) and RZC 21.68.010 B. The project has avoided and minimized wetland, stream, and buffer impacts to the extent feasible. Once construction is complete, areas of temporary wetland, stream, and buffer impacts will be restored to preconstruction conditions or enhanced to native shrub and forest conditions. Compensatory mitigation for permanent and temporary impacts will be provided by enhancing degraded wetlands and buffers.

See Sections 7f and 7g for more information.

**6f.** What are the anticipated start and end dates for project construction? (Month/Year) [\[help\]](#)

- If the project will be constructed in phases or stages, use [JARPA Attachment D](#) to list the start and end dates of each phase or stage.

Start Date: 2024 End Date: 2027 ☐ See JARPA Attachment D

**6g.** Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

Approximately \$59 million

**6h.** Will any portion of the project receive federal funding? [\[help\]](#)

- If **yes**, list each agency providing funds.

☐ Yes ☒ No ☐ Don't know

## Part 7–Wetlands: Impacts and Mitigation

☐ Check here if there are wetlands or wetland buffers on or adjacent to the project area.

(If there are none, skip to Part 8.) [\[help\]](#)

**7a.** Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [\[help\]](#)

☐ Not applicable

This project has made all reasonable efforts to avoid and minimize impacts on wetlands and buffers by:

- Locating maintenance holes and pipe junction appurtenances outside of wetlands to the maximum extent practicable;
- Constructing portions of the pipeline alignment within roadways and trails;
- Using trenchless construction techniques beneath the Sammamish River, Clise Creek, and the wetlands associated with these water crossings;
- Reducing the width of construction work limits;
- Providing protection measures for trees to be retained; and
- Implementing plans during construction including a TESC plan, SWPPP, and SPCC plan.

Complete avoidance of impacts on wetlands and buffers is not feasible due to the common presence of those critical areas within undeveloped portions of the study area and project vicinity where alternative pipeline alignments were considered. In addition, the proposed pipeline alignment is largely within transportation corridors where existing trails, roadways, and bridges constrain the location of the pipeline and associated maintenance holes and pipe junction appurtenances.

See the attached Wetland and Stream Mitigation Plan for more information on mitigation sequencing including impact avoidance and minimization.

**7b.** Will the project impact wetlands? [\[help\]](#)

☒ Yes   ☐ No   ☐ Don't know

**7c.** Will the project impact wetland buffers? [\[help\]](#)

☒ Yes   ☐ No   ☐ Don't know

**7d.** Has a wetland delineation report been prepared? [\[help\]](#)

- **If Yes**, submit the report, including data sheets, with the JARPA package.

☒ Yes   ☐ No

**7e.** Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [\[help\]](#)

- **If Yes**, submit the wetland rating forms and figures with the JARPA package.

☒ Yes   ☐ No   ☐ Don't know

**7f.** Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [\[help\]](#)

- **If Yes**, submit the plan with the JARPA package and answer 7g.
- **If No, or Not applicable**, explain below why a mitigation plan should not be required.

☒ Yes   ☐ No   ☐ Don't know

See Wetland and Stream Mitigation Plan, attached.

**7g.** Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [\[help\]](#)

The goal of the Wetland and Stream Mitigation Plan is to restore and enhance wetland and buffer areas such that the project has no overall loss of water quality, hydrologic, and wildlife functions.

To meet the goal of this plan, the objective is to remove nonnative and invasive plant species, and plant a variety of tree, shrub, groundcover, herbaceous, and emergent species that will develop into mature vegetation communities with adequate cover and composition. In addition, the objective is to improve habitat structure of wetlands and buffers by installing downed large wood in Country Creek. This would replace or improve the capacity to provide general habitat suitability. To increase habitat functions for invertebrates, fish, amphibians, birds, and small mammals, invasive plant species will be removed, and areas will be replanted with a diversity of native plant species that provide food, cover, and nesting material.

#### Restoration

The project aims to rectify temporary impacts to wetlands, streams, and buffers in Redmond and unincorporated King County by restoring grades, soils, hydrology, and vegetation communities to preconstruction conditions after the pipeline is installed. By restoring preconstruction grades and soil conditions, the project is not anticipated to have any effect on existing hydrology conditions. To support seed germination and plant growth, 18 inches of topsoil will be replaced at the surface of trenches and pits. After construction, each temporary impact area will be restored to preconstruction conditions or enhanced to attain more natural, pre-existing conditions. The restoration site plan includes measures for removing nonnative and invasive vegetation and establishing native plant communities by means of seeding and planting native species.

## Compensatory Mitigation

In accordance with federal, state, and local regulations, the project will provide compensatory mitigation to achieve no net loss of habitat area and functions associated with impacts on wetlands, streams, and buffers. Mitigation will be achieved by enhancing wetlands and buffers at a proposed mitigation site on the banks of the Sammamish River in Redmond between Redmond Way and Leary Way (Sheets 19 to 23). Enhancement measures will contribute to improving wetland and riparian functions (Sheets 24, 25 and 26). The proposed compensatory mitigation site was selected to contribute to providing a contiguous corridor of restored riparian conditions along the Sammamish River. The City of Redmond recommended the site because riparian restoration is needed within this Sammamish River corridor reach and will contribute to improving conditions within the larger watershed.

To demonstrate no net loss of wetland or shoreline functions, King County has documented and quantified baseline wetland and stream conditions in the Critical Areas Report (Herrera 2022). Existing mitigation site conditions will be detailed in the Year 1 monitoring report.

See the attached Wetland and Stream Mitigation Plan for more information.

**7h.** Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [\[help\]](#)

Activity (fill, drain, excavate, flood, etc.)	Wetland Name <sup>1</sup>	Wetland type and rating category <sup>2</sup>	Impact area (sq. ft. or Acres)	Duration of impact <sup>3</sup>	Proposed mitigation type <sup>4</sup>	Wetland mitigation area (sq. ft. or acres)
Clearing (PSS) (Sheets 3 and 4)	Wetland E	Riverine, II	17 sq. ft./0.001 acre	Short-Term Temporary	Restore/Enhance	200 sq. ft./0.004 acre
Clearing (PEM) (Sheet 11)	Wetland L2	Riverine, II	209 sq. ft./0.005 acre	Short-Term Temporary	Enhancement	209 sq. ft./0.005 acre
Clearing (PFO) (Sheet 11)	Wetland M	Depressional, Riverine, Lake Fringe, II	54 sq. ft./0.001 acre	Long-Term Temporary	Restore/Enhance	54 sq. ft./0.001 acre
Clearing (PEM), excavation, and backfill (Sheet 13)	Wetland N	Slope, III	1,160 sq. ft./0.027 acre	Short-Term Temporary	Restore/Enhance	7,683 sq. ft./0.176 acre
Clearing (PSS), excavation, and backfill (Sheet 13);			4,360 sq. ft./0.100 acre	Short-Term Temporary	Enhancement	2,178 sq. ft./0.050 acres
Clearing (PFO), excavation, and backfill (Sheet 13)			2,163 sq. ft./0.050 acre	Long-Term Temporary	Restore	19,590 sq. ft./0.450 acre
Clearing (PEM), excavation, and backfill (Sheet 12)	Wetland O	Depressional, IV	114 sq. ft./0.003 acre	Short-Term Temporary	Restore	114 sq. ft./0.003 acre
Clearing (PEM), excavation and backfill (Sheet 6)	Wetland J	Slope, IV	1,049 sq. ft./0.024 acre	Short-Term Temporary	Restore	1,049 sq. ft./0.024 acre
Concrete fill (Sheet 9)	Wetland K	Depressional, II	138 sq. ft./0.003 acre	Permanent Impact	Enhancement	8,485 sq. ft./0.102 acres

Clearing (PEM/PSS), excavation and backfill (Sheets 9-10)			17,657 sq. ft./0.405 acre	Short-Term Temporary	Restore	54,752 sq. ft./1.26 acre
Clearing (PFO) (Sheets 7-9)			23,926 sq. ft./0.549 acre	Long-Term Temporary	Enhancement	26,571 sq. ft./0.61 acres

<sup>1</sup> If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

<sup>2</sup> Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

<sup>3</sup> Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

<sup>4</sup> Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: Pages 23 to 60 (Assessment of Impacts)

**7i.** For all filling activities identified in 7h, describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

Trench excavations in wetlands will be backfilled with imported soil or native soils excavated from the trench (if they meet gradation requirements), as follows:

- Wetland J: approx. 110 cubic yards of imported soil
- Wetland K: approx. 40 cubic yards of imported soil\*
- Wetland N: approx. 740 cubic yards of native soil
- Wetland O: approx. 5 cubic yards of native soil

If native soils are unsuitable, soil will be imported for an approved aggregate supplier for backfilling trenches. A minimum of 18 inches of topsoil will be placed at the surface. Trenches will be backfilled to pre-construction grades and will not result in conversion to dry land. Mechanical equipment will be used.

In addition, approximately 10 cubic yards of concrete will be poured in place within Wetland K to provide a protective cap over an approximately 30-foot-long segment of shallow pipe. As this is close to the ground surface it is considered a permanent impact. At least 6 inches of soil will be placed on top of this concrete.

\* Imported soil will be used in the shallow excavation (STA C 56+00) north of the stormwater pond as noted. It is required to use native soil from 0 – 4 feet for backfill conditions in the archeological site south of the stormwater pond between approximately STA C 64+65 and STA C 64+95. This would be about 31 cubic yards of the 40 cubic yards accounted for.

**7j.** For all excavating activities identified in 7h, describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

Pipe installation will require trench excavations within portions of Wetlands J, K, N, and O. A tracked excavator will be used to excavate the trench. Excavation within wetlands will include removal of subsoil and topsoil within trenching areas in the following quantities:

- Wetland J: approximately 160 cubic yards
- Wetland K: approximately 170 cubic yards
- Wetland N: approximately 940 cubic yards
- Wetland O: approximately 10 cubic yards

Materials excavated from Wetland N and O will be temporarily stockpiled on-site, and backfilled in the trench as suitable (see response to 7i). Excavated materials from Wetland K and J as well as any excess or unsuitable subsoil from Wetland N and O will be disposed off-site at an approved facility.

## Part 8–Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, “waterbodies” refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [\[help\]](#)

☐ Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

**8a.** Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [\[help\]](#)

☐ Not applicable

King County WTD has made all reasonable efforts to avoid and minimize impacts on to the maximum extent practicable by locating maintenance holes and pipe junction appurtenances outside of wetlands; constructing portions of the pipeline alignment within roadways and trails; using trenchless construction techniques beneath the Sammamish River, Clise Creek, and the wetlands associated with these water crossings; reducing the width of construction work limits; providing protection measures for trees to be retained; and implementing a TESC plan, SWPPP, and SPCC plan during construction.

Where it is necessary to cross Villa Marina Creek, Idylwood Creek, and Brae Burn Creek within existing roadways, the project will avoid channel impacts by installing the pipeline within the roadway or shoulder of above or below existing culverts. Conceptual designs of fish-passable culverts were prepared at these stream crossings to confirm that the elevation of the sewer pipe will not interfere with culvert replacement in the future. At Tosh Creek, the project will avoid stream impacts by connecting to an existing sewer pipe. At the Sammamish River and Clise Creek crossing locations, a scour analysis was conducted to demonstrate that the potential for exposure of the pipe in stream channels will be avoided by installing the pipeline below the maximum potential scour depth.

Complete avoidance of permanent impacts on buffers and temporary impacts on streams and buffers is not feasible due to the common presence of those critical areas within undeveloped portions of the study area and project vicinity where alternative pipeline alignments were considered. In addition, the proposed pipeline alignment is largely within transportation corridors where existing trails, roadways, and bridges constrain the location of the pipeline and associated maintenance holes and pipe junction appurtenances.

See the attached Wetland and Stream Mitigation Plan for more information on mitigation sequencing including impact avoidance and minimization.

**8b.** Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

☒ Yes ☐ No

**8c.** Have you prepared a mitigation plan to compensate for the project’s adverse impacts to non-wetland waterbodies? [\[help\]](#)

- **If Yes**, submit the plan with the JARPA package and answer 8d.
- **If No, or Not applicable**, explain below why a mitigation plan should not be required.

☒ Yes ☐ No ☐ Don’t know

See enclosed Wetland and Stream Mitigation Plan.

**8d.** Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [\[help\]](#)

See response to 7g for a summary of the Wetland and Stream Mitigation Plan.

**8e.** Summarize impact(s) to each waterbody in the table below. [\[help\]](#)

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name <sup>1</sup>	Impact location <sup>2</sup>	Duration of impact <sup>3</sup>	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Clearing (shrub; Sheet 4)	Sammamish River	Bank, waterward of OHWM	Short-Term Temporary	None	206 sq. ft.



Clearing (forest; Sheet 2)	Sammamish River	Bank, waterward of OHWM	Long-Term Temporary	None	183 sq. ft.
Dewatering discharge (Drawings EC101, EC102, EC103, EC302, C902)	Sammamish River	Bank, toe of bank, waterward of OHWM	Short-Term Temporary	2 cubic yards of supersack per each discharge – one discharge location used at a time.	1,000 sq. ft. per each discharge – one discharge location used at a time.
Trenchless Crossing (Sheets 3 and 27; Drawing C201)	Sammamish River	Below bed of river	Permanent	None	110 linear ft.
Cofferdam for Stream Bypass; Culvert Replacement (Sheet 13; Drawings C319 and C351)	Country Creek	In-stream	Short-Term Temporary	40 cubic yards	1,734 sq. ft.
Fill Inside Proposed Culvert (Sheet 31; Drawing C352)	Country Creek	In-stream	Permanent	280 cubic yards	900 sq. ft.
Cut for Channel Grading; Culvert Replacement and Storm Drain Outfall Relocation (outside of roadway, upstream and downstream of culvert) (Sheet 29; Drawing C351)	Country Creek	In-stream	Permanent	50 cubic yards	700 sq. ft.
Fill for Channel Grading; Culvert Replacement and Storm Drain Outfall Relocation (outside of roadway, upstream and downstream of culvert) (Sheet 29; Drawing C351)	Country Creek	In-stream	Permanent	50 cubic yards	700 sq. ft.
Trenchless Crossing (Sheet 5; Drawings C308 to C309)	Clise Creek	Below bed of stream	Permanent	None	110 linear feet
Clearing (Drawing C315)	Tosh Creek (buffer)	Forest (buffer)	Permanent	None	69 sq. ft./0.002 acres
			Short-Term Temporary		13,656 sq. ft./0.313 acres
Clearing (Drawing C509)	Brae Burn Creek (buffer)	Forest (buffer)	Long-Term Temporary	None	10,971 sq. ft./0.252 acres
			Short-Term Temporary		4,768 sq. ft./0.109 acres
Clearing (Drawing C407)	Idylwood Creek (buffer)	Forest (buffer)	Long-Term Temporary	None	453 sq. ft./0.010 acres



			Short-Term Temporary		2,489 sq. ft./0.057 acres
Clearing (Drawing C401)	Villa Marina Creek (buffer)	Forest/ Herbaceous (buffer)	Short-Term Temporary	None	714 sq. ft./0.016 acres

**Storm Drain Relocation and Temporary Flow Bypass (Sheet 34; Drawing SR506)**

<sup>1</sup> If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.

<sup>2</sup> Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

<sup>3</sup> Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

**8f.** For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [\[help\]](#)

Approximately 2 cubic yards of supersack will anchor the pipe at the toe of the Sammamish River.

Approximately 40 cubic yards of sandbags will be placed in the channel of Country Creek to support the temporary stream diversion system in order to construct the permanent fish passable culvert. The temporary stream diversion system is anticipated parallel and adjacent along the northerly side of the proposed fish passable culvert. Sandbags will be filled with streambed sediment from an approved source and placed on the upstream (approximately 20 cubic yards) and downstream side (approximately 20 cubic yards) of the proposed fish passable culvert. The sandbags will be removed from the channel after a portion of the Country Creek culvert is replaced. The sandbags and fill contents will be disposed of offsite at a local facility.

Approximately 55 cubic yards of streambed material will be permanently placed in the channel of Country Creek to construct the fish passable culvert. The streambed material will be from an approved source and will be placed on both the upstream and downstream sides of the culvert. The streambed material will remain in the channel after the Country Creek culvert is replaced.

Additionally, approximately 205 cubic yards of streambed material will be placed in the Country Creek culvert as the bed of the channel. The streambed material will be the same as noted above.

No fill is associated with the Brae Burn Creek storm drain relocation and the temporary diversion of flows encountered during the installation.

No other fill is anticipated.

**8g.** For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [\[help\]](#)

During excavation, native soils that are suitable for reuse will be stockpiled and later used as backfill. Native topsoil will be stockpiled separately from native subsoils. After sewer pipes, maintenance holes, and pipe junction appurtenances are installed, trenches and launching/receiving pits will be backfilled to preconstruction grades. Native subsoils that were stockpiled will be used as backfill if they meet gradation requirements in the construction contract specifications. If native subsoils are unsuitable for reuse, soil will be imported for backfilling trenches and pits. Trenches and pits will be backfilled with permeable materials except in locations where less than 10 feet of clearance is provided between the proposed sewer line. At these locations, an impermeable controlled density fill (CDF) will be used as backfill to satisfy Washington State Department of Health separation requirements. In addition, impermeable backfill will be placed to create trench dams where it is necessary to prevent a French-drain effect along the pipeline where wetlands are crossed.

At the Country Creek culvert, material will be excavated from both the upstream and downstream ends of the culvert to re-grade the channel. The material will be replaced with streambed material. The native soils that are excavated for culvert construction that are suitable for reuse will be stockpiled and later used as backfill if they meet gradation requirements in the construction contract specifications. The trench will be backfilled to preconstruction grade. Any excess materials will be hauled offsite to a local disposal location.

No fill is associated with the Brae Burn Creek storm drain relocation and temporary diversion of flows encountered during the installation.

## Part 9—Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

<b>9a.</b> If you have already worked with any government agencies on this project, list them below. <a href="#">[help]</a>			
Agency Name	Contact Name	Phone	Most Recent Date of Contact
U.S. Army Corps of Engineers	Andrew Shuckhart	(206) 316-3822	8/8/2022
Muckleshoot Indian Tribe	Martin Fox	(253) 876-3121	2/14/2022
Washington Department of Natural Resources (DNR)	Sherri Gallant	(206) 455-1014	3/16/2022
Washington Department of Fish and Wildlife (WDFW)	Bethany Scoggins	(425)420-0601	8/31/2022
City of Redmond	Andrea Kares	(425) 556-2480	6/7/2022
King County Department of Local Services (DLS), Permitting Division	Joseph Pursley	(206) 477-6580	6/13/2022
<b>9b.</b> Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? <a href="#">[help]</a> <ul style="list-style-type: none"> <li>If <b>Yes</b>, list the parameter(s) below.</li> <li>If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: <a href="https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d">https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d</a>.</li> </ul>			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Impacts on wetlands and streams will occur within, adjacent to, or within the same basin as waters on Ecology's 303(d) list of impaired waters, i.e., the Sammamish River, Idylwood Creek, and Brae Burn Creek. Existing water quality impairments include dissolved oxygen, bacteria, and temperature.			
<b>9c.</b> What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? <a href="#">[help]</a> <ul style="list-style-type: none"> <li>Go to <a href="http://cfpub.epa.gov/surf/locate/index.cfm">http://cfpub.epa.gov/surf/locate/index.cfm</a> to help identify the HUC.</li> </ul>			
HUC 171100120202 and 171100120304			
<b>9d.</b> What Water Resource Inventory Area Number (WRIA #) is the project in? <a href="#">[help]</a> <ul style="list-style-type: none"> <li>Go to <a href="https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up">https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up</a> to find the WRIA #.</li> </ul>			
WRIA 8 – Cedar-Sammamish			
<b>9e.</b> Will the in-water construction work comply with the State of Washington water quality standards for turbidity? <a href="#">[help]</a> <ul style="list-style-type: none"> <li>Go to <a href="https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria">https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria</a> for the standards.</li> </ul>			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable			

<p><b>9f.</b> If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>If you don't know, contact the local planning department.</li> <li>For more information, go to: <a href="https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases">https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases</a>.</li> </ul>
<p> <input type="checkbox"/> Urban    <input type="checkbox"/> Natural    <input type="checkbox"/> Aquatic    <input type="checkbox"/> Conservancy    <input checked="" type="checkbox"/> Other: <u>City of Redmond: Urban Conservancy</u>  <u>King County: Aquatic and Conservancy</u> </p>
<p><b>9g.</b> What is the Washington Department of Natural Resources Water Type? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>Go to <a href="http://www.dnr.wa.gov/forest-practices-water-typing">http://www.dnr.wa.gov/forest-practices-water-typing</a> for the Forest Practices Water Typing System.</li> </ul>
<p> <input checked="" type="checkbox"/> Shoreline (<i>Sammamish River</i>)    <input checked="" type="checkbox"/> Fish (<i>Clise Creek, Tosh Creek, Country Creek, Villa Marina Creek, and Idylwood Creek</i>)    <input checked="" type="checkbox"/> Non-Fish Perennial (<i>Brae Burn Creek</i>)    <input type="checkbox"/> Non-Fish Seasonal         </p>
<p><b>9h.</b> Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>If No, provide the name of the manual your project is designed to meet.</li> </ul>
<p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p>
<p>Name of manual: _____</p>
<p><b>9i.</b> Does the project site have known contaminated sediment? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>If Yes, please describe below.</li> </ul>
<p><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No</p>
<p>No known contaminated sediment is located within the project working limits. Based on a review of regulatory databases provided by Environmental Data Resources, Ecology site files, historical data, and observed current site conditions, two sites within 0.25 miles of the pipeline alignments were identified to have a low risk of impacting the project because reported releases of hazardous materials occurred on properties located adjacent to or upgradient of the project corridor.</p>
<p><b>9j.</b> If you know what the property was used for in the past, describe below. <a href="#">[help]</a></p>
<p>The property has been in use as utilities (wastewater) since the late 1950s, when the Lake Hills Trunk gravity sewer was constructed. The Northwest Lake Sammamish Interceptor gravity sewer was built in the early 1970s.</p>
<p><b>9k.</b> Has a cultural resource (archaeological) survey been performed on the project area? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>If Yes, attach it to your JARPA package.</li> </ul>
<p><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p>
<p><b>9l.</b> Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. <a href="#">[help]</a></p>
<p>Chinook salmon (<i>Oncorhynchus tshawytscha</i>), steelhead (<i>O. mykiss</i>), and bull trout (<i>Salvelinus confluentus</i>) have been documented in the Sammamish River in the action area. Special status fish species with modeled presence (WDFW) in Villa Marina Creek and Idylwood Creek include Chinook salmon and steelhead. Potential presence of steelhead and bull trout have been indicated by WDFW in Country Creek. The USFWS lists marbled murrelet (<i>Brachyramphus marmoratus</i>), streaked horned lark (<i>Eremophila alpestris strigata</i>), yellow-billed cuckoo (<i>Coccyzus americanus</i>), and North American wolverine (<i>Gulo gulo luscus</i>) as potentially occurring in the action area. However, there is no suitable habitat for any of those species within the action area. See enclosed Biological Evaluation for more information.</p>
<p><b>9m.</b> Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. <a href="#">[help]</a></p>

Chinook salmon and the river lamprey are state candidate species, and the Pacific lamprey is a state monitored species (see Response 9I for more information). Additionally, the Olympic mudminnow (*Novumbra hubbsi*) and margined sculpin (*Cottus marginatus*) are state sensitive species which have the potential to occur in streams affected by the project. All aquatic species here and listed in Response 9I, above, are listed by WDFW as a priority species on the Priority Habitats and Species List.

## Part 10–SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <http://apps.oria.wa.gov/opas/>.
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or [help@oria.wa.gov](mailto:help@oria.wa.gov).
- For a list of addresses to send your JARPA to, click on [agency addresses for completed JARPA](#).

### 10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [\[help\]](#)

- For more information about SEPA, go to <https://ecology.wa.gov/regulations-permits/SEPA-environmental-review>.

☒ A copy of the SEPA determination or letter of exemption is included with this application.

☐ A SEPA determination is pending with \_\_\_\_\_ (lead agency). The expected decision date is \_\_\_\_\_.

☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [\[help\]](#)

☐ This project is exempt (choose type of exemption below).

☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

\_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ SEPA is pre-empted by federal law.

### 10b. Indicate the permits you are applying for. (Check all that apply.) [\[help\]](#)

#### LOCAL GOVERNMENT

##### Local Government Shoreline permits:

☒ Substantial Development ☐ Conditional Use ☐ Variance

☐ Shoreline Exemption Type (explain): \_\_\_\_\_

##### Other City/County permits:

☒ Floodplain Development Permit ☐ Critical Areas Ordinance

#### STATE GOVERNMENT

##### Washington Department of Fish and Wildlife:

☒ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption – [Attach Exemption Form](#)

##### Washington Department of Natural Resources:

☒ Aquatic Use Authorization

Complete [JARPA Attachment E](#) and submit a check for \$25 payable to the Washington Department of Natural Resources.

**Do not send cash.**

**Washington Department of Ecology:**

- ☒ Section 401 Water Quality Certification
- ☐ Authorization to impact waters of the state, including wetlands (Check this box if the proposed impacts are to waters not subject to the federal Clean Water Act)

**FEDERAL AND TRIBAL GOVERNMENT****United States Department of the Army (U.S. Army Corps of Engineers):**

- ☒ Section 404 (discharges into waters of the U.S.)    ☒ Section 10 (work in navigable waters)

**United States Coast Guard:**

For projects or bridges over waters of the United States, contact the U.S. Coast Guard at:

- ☐ Bridge Permit: [D13-SMB-D13-BRIDGES@uscg.mil](mailto:D13-SMB-D13-BRIDGES@uscg.mil)
- ☐ Private Aids to Navigation (or other non-bridge permits): [D13-SMB-D13-PATON@uscg.mil](mailto:D13-SMB-D13-PATON@uscg.mil)

**United States Environmental Protection Agency:**

- ☐ Section 401 Water Quality Certification (discharges into waters of the U.S.) on tribal lands where tribes do not have treatment as a state (TAS)

**Tribal Permits:** (Check with the tribe to see if there are other tribal permits, e.g., Tribal Environmental Protection Act, Shoreline Permits, Hydraulic Project Permits, or other in addition to CWA Section 401 WQC)

- ☐ Section 401 Water Quality Certification (discharges into waters of the U.S.) where the tribe has treatment as a state (TAS).

## Part 11—Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [\[help\]](#)

### 11a. Applicant Signature (required) [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. \_\_\_\_\_ (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project.     HJ     (initial)

Hillary Jones

Applicant Printed Name



Applicant Signature

February X, 2023

Date

### 11b. Authorized Agent Signature [\[help\]](#)

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Same As Applicant

Authorized Agent Printed Name

Authorized Agent Signature

Date

### 11c. Property Owner Signature (if not applicant) [\[help\]](#)

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 09/2018



**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland N

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

**1. Name (Last, First, Middle) and Organization (if applicable)**

Burtch, Joanne and Urban, Susan

**2. Mailing Address (Street or PO Box)**

2311 179th Avenue NE

**3. City, State, Zip**

Redmond, WA 98052

**4. Phone (1)**

**5. Phone (2)**

**6. Fax**

**7. E-mail**

Address or tax parcel number of property you own:

Parcel Number 9329600020

Signature of Property Owner

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Note: King County in process of securing easement

Printed Name

Signature

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016





**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland N

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

**1. Name (Last, First, Middle) and Organization (if applicable)**

Herod, Robert and Jean

**2. Mailing Address (Street or PO Box)**

2303 179th Avenue NE

**3. City, State, Zip**

Redmond, WA 98052

**4. Phone (1)**

**5. Phone (2)**

**6. Fax**

**7. E-mail**

Address or tax parcel number of property you own:

Parcel Number 9329600030

Signature of Property Owner

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Note: King County in process of securing easement

Printed Name

Signature

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

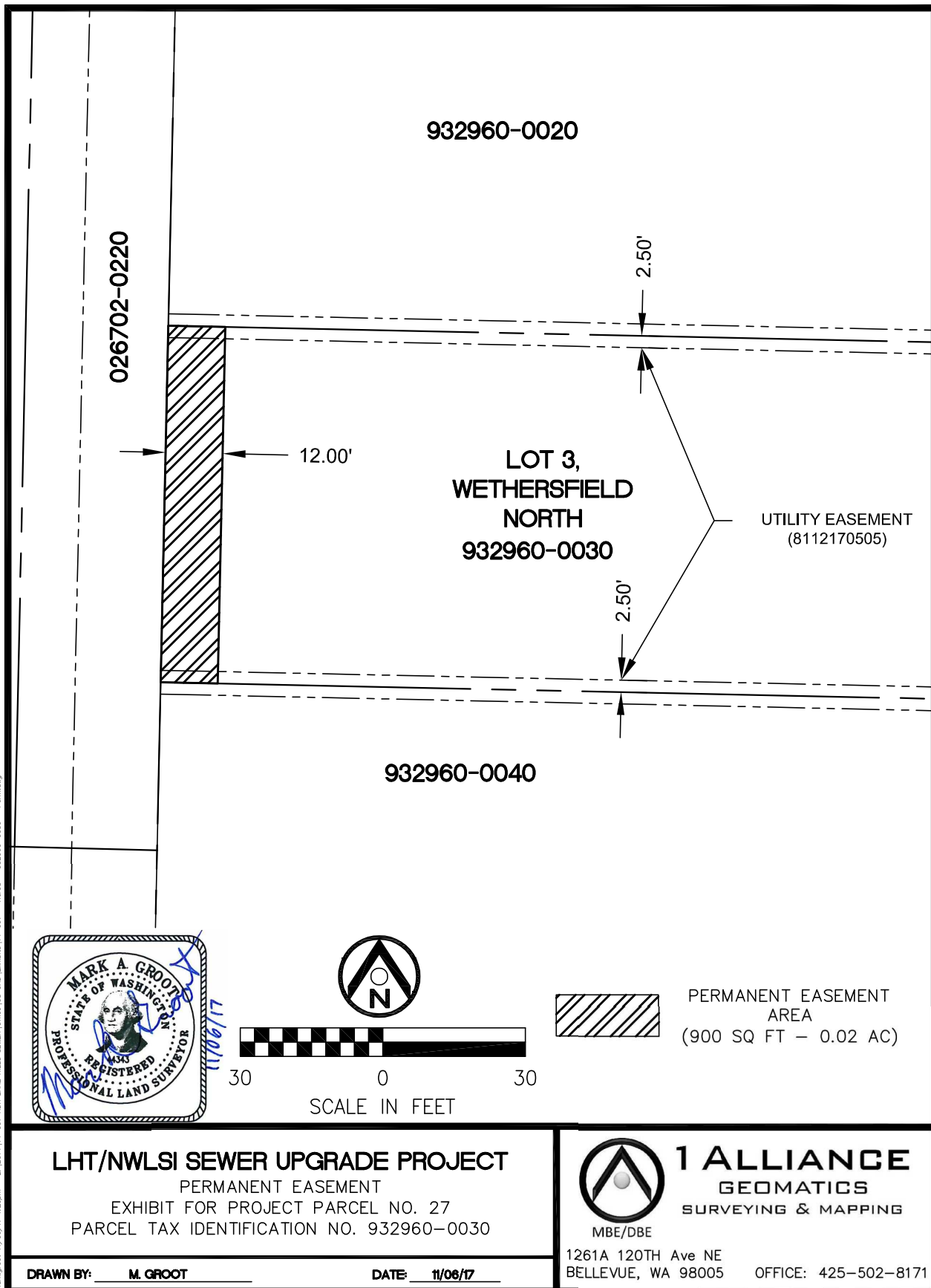


PROJECT PARCEL NO. 27  
PARCEL TAX IDENTIFICATION NO. PARCEL 932960-0030  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 3, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

mark.dwg 1/10/17 1:28pm - G:\2017\14-007 NWLSI SEWER UPGRADE\14-007 - Permit - 932960-0030 - Permit.dwg





**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland N

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Kennedy, Catherine			
<b>2. Mailing Address (Street or PO Box)</b>			
2225 179th Avenue NE			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 9329600040			
Signature of Property Owner			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<u>See signed Utility Easement</u>			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

RECORDING REQUESTED BY AND  
WHEN RECORDED RETURN TO:  
KING COUNTY  
WASTEWATER TREATMENT DIVISION  
MAILSTOP: KSC-NR-0503  
201 SOUTH JACKSON STREET, SUITE 503  
SEATTLE, WA 98104-3855

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**Document Title:** Utility Easement  
**Grantor(s):** Reuben Jackson Kennedy and Catherine Quirk Kennedy  
**Grantee:** King County  
**Abbreviated Legal Description:** LOT 4, WETHERSFIELD NORTH  
**Additional Legal Description is on Page:** EXHIBIT "A"  
**Assessor's Tax Parcel Number(s):** 9329600040

#### **UTILITY EASEMENT**

WHEREAS, **King County** ("Grantee") is a political subdivision of the State of Washington and is authorized by Chapter 8.12 RCW, RCW 35.58.320, 35.58.200 and 36.56.010, K.C.C. 28.01.030 and 28.81.010 to acquire and condemn real property for public use for sewage treatment and water pollution abatement facilities; and

WHEREAS, **Reuben Jackson Kennedy, as a separate estate and Catherine Quirk Kennedy, who acquired title as Catherine Jean Kennedy, Trustee, or Successor Trustee of the Catherine Quirk Kennedy Trust dated October 24, 2013, as their interests may appear of record,** are the owners of certain real property more particularly described in **EXHIBIT "A"** which is attached hereto and incorporated herein by this reference (the "Property"); and

WHEREAS, Grantee has determined that it must **replace and upgrade the Lake Hills Trunk as part of the Lake Hills Trunk NW Lake Sammamish Interceptor Sewer Upgrade Project** (the "Project"); and

WHEREAS, it is necessary for Grantee to acquire a **permanent easement as well as a temporary construction easement** granting King County and its successors and assigns the right to install, construct, own, operate, maintain, use, upgrade, repair and replace certain

underground utilities including, without limitation, pipelines, odor control facilities, ducts, vaults, manholes, vents, meters, monitoring equipment, cabinets, containers, switches, transformers, conduits, wires, pump stations and other necessary and convenient equipment and appurtenances, including, but not limited to, all utility lines or equipment servicing said pipelines, pump stations and related equipment and appurtenances (hereinafter sometimes referred to collectively, as the "Easement Improvements") together with the right of ingress to and egress from the Property for the foregoing purposes for the Project; and

WHEREAS as part of the Project, King County may monitor, replace and maintain reconstructed and restored plantings as may be required by permit conditions for up to one year after the initial installation of restoration plantings, or completion of the project.

NOW, THEREFORE, in consideration of the mutual covenants and agreement hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **Grant of Easements.** Grantor for and in consideration of Twenty Thousand Nine Hundred Dollars (\$20,900.00) and other valuable consideration in hand paid, and under threat of condemnation, grants and conveys to King County its successors and assigns, all of the following:

A. A permanent, exclusive easement, containing 900 square feet, more or less, in, on, under and through the Property for the installation, construction, ownership, operation, maintenance, use, inspection, repair, replacement, renovation, improvement, removal and enhancement of the Easement Improvements, in the location legally described in **EXHIBIT B** and depicted in **EXHIBIT C (the "Permanent Easement Area")**, attached hereto and incorporated herein by this reference together with a right of access in, on and through the Property for ingress and egress to and from Permanent Easement Area for personnel, vehicles and equipment as reasonably necessary or incidental to Grantee's installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal or enhancement of the Easement Improvements.

B. An exclusive temporary construction easement, (the "TCE") containing approximately 1,351 square feet, more or less over, across, along, in, upon, and under the Property legally described in **EXHIBIT D** and depicted in **EXHIBIT E (the "TCE Area")** for any and all activities in connection with the construction of the Easement Improvements and the Project, including, but not limited to mobilization, site preparation, grading, excavation, construction, lighting, ventilation, removal of excavated material, equipment maintenance, storage of equipment and construction materials, stockpiling materials, storm water handling facilities (such as baker tanks), loading and unloading of trucks and/or conveyors, maintenance of trailers and utilities, construction activities for tank, building and pipeline construction, instrumentation, monitoring wells as needed to

monitor stormwater quality and quantity, roadwork, landscaping, and final site cleanup, together with the right for access by pedestrians, vehicles and equipment and utility services required for purposes of constructing the Easement Improvements and the Project.

The term of the TCE shall commence upon the date Grantee provides written notice to Grantor of the commencement thereof and shall remain in force until completion of the Project construction and restoration, estimated to be approximately 21 months in duration, (the "Initial Term").

Grantee may extend the term of the TCE and continue to use the TCE Area for additional time for a period not to exceed 21 additional months. In order to exercise the right to additional time, Grantee shall give Grantor thirty (30) day's written notice prior to the expiration of the Initial Term of the TCE that Grantee intends to use the TCE Area for additional time along with a statement as to the amount of additional time for which Grantee shall use the TCE Area. Nothing herein shall prevent Grantee from submitting serial notices of extended use; provided, however, that in no event shall the term of the TCE be extended to a date more than 4 years from the date of commencement of the TCE. If Grantee requires additional time beyond the 21 month Initial Term for the TCE, Grantee shall pay Grantor Seven Hundred Dollars (\$700.00) for each such month of additional use. Any partial months of additional use shall be paid on a pro rata basis.

C. Following the end of the final TCE term set forth in Section 1 B King County shall have the right to periodically enter upon the Permanent Easement Area, TCE Area and/or outlying areas, to monitor, replace and maintain the reconstructed and/or restored plantings (or landscaping) without the payment of additional compensation for up to an initial term of up to 12 months. Additionally, King County shall have the right to perform Post-Construction environmental monitoring and maintenance for long-term temporary impact to forest buffer. This right of access shall be for an initial term of up to 120 months ("Initial Term of Right of Access"). Grantee may extend the term of the Right of Access by giving Grantor thirty (30) day's written notice prior to the expiration of the Initial Term of the Right of Access.

The consideration for this Utility Easement has been paid by Grantee from the King County Water Quality Fund. The Permanent Easement Area and Temporary Construction Easement Area shall be referred to collectively herein as the "Easement Areas."

**2. Benefit of Easement.** This Utility Easement is for the benefit of all property interests now owned or hereafter acquired by Grantee which constitutes a portion of or is served the Project or by existing or future Easement Improvements and for all purposes necessary or incidental to the installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal and enhancement of the Easement Improvements, and the right of ingress to and egress from, on, to, under, across, and upon the Property as may be necessary to install, construct,

use, operate, maintain, inspect, repair, replace, renovate, improve, remove or enhance the Easement Improvements.

3. **Purpose of Easement.** Grantee shall have the right to use the Easement Areas for all purposes necessary or incidental to Grantee's installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal and enhancement of all or any Easement Improvements as described herein as Grantee may now or hereafter deem appropriate. Any and all Easement Improvements, of any kind that are now or hereafter acquired, constructed or installed within the Easement Areas shall be and shall at all times remain the property of Grantee.

4. **Grantee's Restoration of Property.** Grantee shall, upon completion of construction of any Easement Improvements described herein, remove any debris and restore the surface of any portion of the Property disturbed by Grantee's construction to the reasonably approximate condition in which it existed at the commencement of Grantee's construction. In addition, Grantee shall, if the Property is disturbed by Grantee's maintenance, removal, repair or replacement of the Easement Improvements specified herein, restore the surface of the Property to the reasonably approximate condition in which it existed at the commencement of said maintenance, removal, repair or replacement.

5. **Grantor's Use of Property.** Grantor reserves the right to use the Property for any purpose not inconsistent with the rights herein granted to Grantee so long as such use does not interfere with, obstruct or endanger the use, function, efficiency, maintenance, repair or replacement of any Easement Improvements now or hereafter constructed, installed, used, operated or maintained by Grantee in the Easement Areas pursuant to this Utility Easement. Except as otherwise provided herein, and after the date of this Utility Easement, the construction, installation, or maintenance of any structures, whether temporary or permanent, shall be absolutely prohibited within the above described (specify the applicable Easement Areas) and shall be deemed an unreasonable interference with the easement rights granted to Grantee herein unless specifically approved in writing by the Grantee. Prior to any activity by Grantor in the Easement Area that requires use of the subsurface of the Property and/or extends to within ten feet of any of Easement Improvements contained therein or which changes the compression loads on or to the lateral support for any Easement Improvements, Grantor shall notify Grantee in writing and shall provide Grantee with a copy of all plans and specifications for such proposed activity for review at least forty-five (45) days prior to the commencement of such activity. Grantor shall not commence such activity unless and until it has received Grantee's prior written consent that the Grantor's proposed construction, work or activity will not interfere with the Grantee's rights under this Utility Easement, which consent may be denied in Grantee's sole judgment and discretion. Grantee's review and approval of Grantor's plans

and specifications shall be strictly limited to the facilities and/or excavation shown on the plans and specifications submitted to Grantee and shall in no event constitute or be construed as a certification of the adequacy or sufficiency of Grantor's plans and specifications nor whether Grantor's construction, work or activity complies with other applicable laws, building codes and other governmental rules and regulations.

6. **Indemnity.** Grantee agrees to defend, indemnify and hold harmless Grantor, its successors and assigns, from all claims, actions, costs, damages or expense of any nature whatsoever (including reasonable attorneys' fees and costs) for injuries, sickness or death of persons, or any damage to property, caused by the negligent acts or omissions of Grantee, its assigns, agents, contractors or employees, in its use of or occupancy under this Utility Easement. Provided, however, that this defense and indemnification obligation does not include such claims, actions, costs, damages or expenses which may be caused by the sole negligence or willful misconduct of the Grantor, its successors, assigns, agents or employees and provided further that if the claims, actions, costs, damages or expenses are caused by or result from the concurrent negligence of (a) the Grantor, its successors or assigns and/or their agents or employees and (b) the Grantee, its agents or employees, or involves those actions covered by RCW 4.24.115, then this indemnity provision shall be valid and enforceable only to the extent of the negligence of the Grantee, its agents or employees. For purposes of this indemnity only, Grantee specifically and expressly waives any immunity that it may be granted under the Washington State Industrial Insurance Act, Title 51 RCW.

7. **Notices.** Any notices required or permitted under this Utility Easement shall be deemed to have been duly given if personally delivered, sent by nationally recognized overnight delivery service, or if mailed or deposited in the United States mail and sent registered or certified mail, postage prepaid to the address listed below or to such other address as either party may from time to time designate in writing and deliver in a like manner. Notices may also be given by facsimile transmission (provided the fax machine has printed a confirmation of receipt). All notices that are mailed shall be deemed received three business days after mailing. All other notices shall be deemed complete upon receipt or refusal to accept delivery. Notices shall be sent to the following addresses:

**To Grantor:**

Catherine Quirk Kennedy  
2225 179th Ave NE  
Redmond, WA 98052

**To Grantee:**

King County  
Wastewater Treatment Division  
Supervisor,  
Regulatory Permitting and Property  
Acquisition  
Mailstop: KSC-NR-0503  
201 South Jackson Street, Suite 512  
Seattle, WA 98104-3855



8. **Miscellaneous Provisions**

(a) **Representations.** Grantor represents that it is the lawful owner of the Property and has the legal authority to grant and convey this Utility Easement to Grantee.

(b) **Binding Effect.** This Utility Easement is appurtenant to and shall run with all real property and real property interests and easements now owned or hereafter acquired by Grantee or served by the Easement Improvements and shall inure to the benefit of Grantee, its successors and assigns and shall be binding upon the Property and Grantor, and its successors and assigns. Grantee shall have the right to assign its rights under this Utility Easement, in whole or in part, without any additional fee and without the approval or consent of Grantor.

(c) **Construction.** All of the recitals set forth above are incorporated into this Utility Easement as though fully set forth herein. The headings contained in this Utility Easement are for convenience of reference purposes only and shall not in any way affect the meaning or interpretation hereof, nor serve as evidence of the intention of the parties hereto. Whenever the context hereof shall so require the singular shall include the plural.

(d) **Entire Agreement.** This Utility Easement sets forth the entire agreement of the parties as to the subject matter hereof and supersedes all prior discussions and understandings between them. This Utility Easement may not be modified, except by an instrument in writing signed by a duly authorized officer or representative of each party hereto.

(e) **Waiver.** No waiver of any right under this Utility Easement shall be effective unless contained in a writing signed by a duly authorized officer or representative of the party sought to be charged with the waiver and no waiver of any right arising from any breach or failure to perform shall be deemed to be a waiver of any future right or any other right arising under this Utility Easement.

(f) **Governing Law.** This Utility Easement shall be governed by and construed and enforced in accordance with the laws of the State of Washington.

**[SIGNATURE APPEARS ON NEXT PAGES]**

Dated this 23 day of January, 2018.

**Reuben Jackson Kennedy**

*Catherine Quirk Kennedy*  
Catherine Quirk Kennedy, Attorney in Fact  
*Attorney in Fact*

**Catherine Quirk Kennedy Trust**

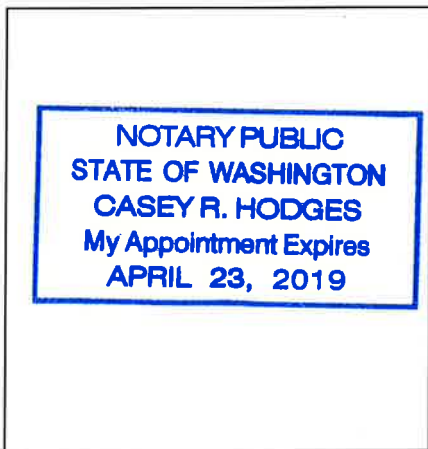
*Catherine Quirk Kennedy Trustee*  
Catherine Quirk Kennedy, Trustee

**[NOTARIES APPEAR ON NEXT PAGES]**

STATE OF WASHINGTON                    )  
  ) ss.  
COUNTY OF KING                        )

I certify that I know or have satisfactory evidence that Catherin Quirk Kennedy signed this instrument as Attorney in Fact for Reuben Jackson Kennedy and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: 1-23-18.



Casey R. Hodges  
Notary Public

Print Name Casey R. Hodges

My commission expires 4-23-19

(Use this space for notarial stamp/seal)

STATE OF WASHINGTON                    )  
  ) ss.  
COUNTY OF KING                        )

I certify that I know or have satisfactory evidence that Catherin Quirk Kennedy signed this instrument as Trustee of the Catherine Quirk Kennedy Trust Dated October 24, 2013 and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: 1-23-18



Casey R. Hodges  
Notary Public

Print Name Casey R. Hodges

My commission expires 4-23-19

(Use this space for notarial stamp/seal)

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

[Signature of Grantee]

By: \_\_\_\_\_

Its: \_\_\_\_\_

STATE OF WASHINGTON                    )  
  ) ss  
COUNTY OF KING                        )

I hereby certify that I know or have satisfactory evidence that \_\_\_\_\_ is the \_\_\_\_\_ for the King County Department of Natural Resources, Wastewater Treatment Division, is that person who appeared before me, acknowledged that he/she signed this instrument on behalf of King County, on oath stated that he/she was authorized to execute the instrument and acknowledged it as the free and voluntary act of King County for the uses and purposes mentioned in this instrument.

Date: \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC (Signature)

\_\_\_\_\_  
(printed name)

in and for the State of Washington  
residing at \_\_\_\_\_.

My appointment expires \_\_\_\_\_

## **EXHIBIT A**

### Legal Description of Entire Property

LOT 4, WETHERSFIELD NORTH, ACCORDING TO THE PLAT THEREOF  
RECORDED IN VOLUME 121 OF PLATS, PAGES 4 THROUGH 5, INCLUSIVE,  
RECORDS OF KING COUNTY, WASHINGTON; ——— - -

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

## **EXHIBIT B**

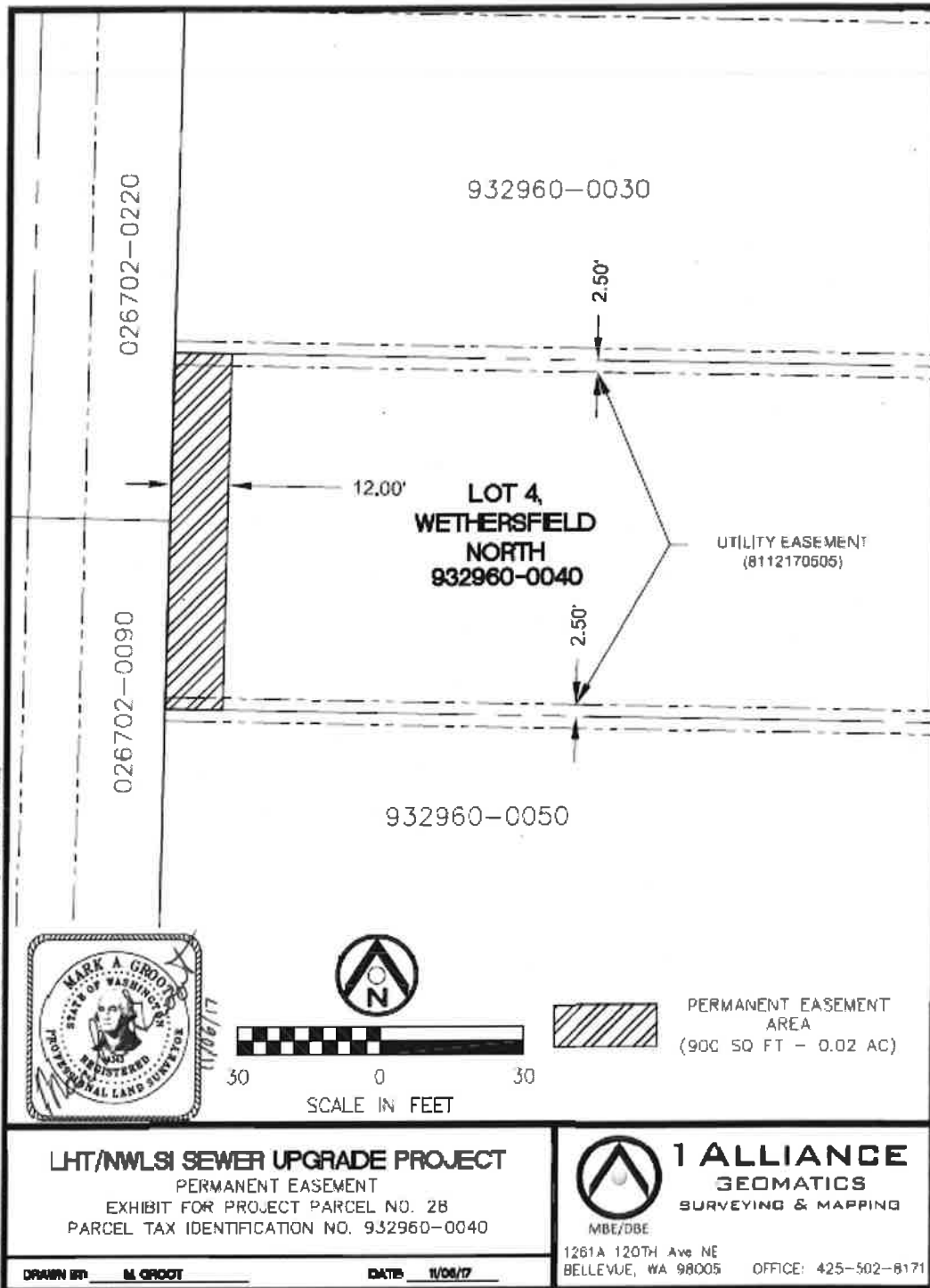
### **Legal Description for Permanent Easement Area**

THE WEST 12 FEET OF LOT 4, WETHERSFIELD NORTH, ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

# EXHIBIT C

## Depiction of Permanent Easement Area





## **EXHIBIT D**

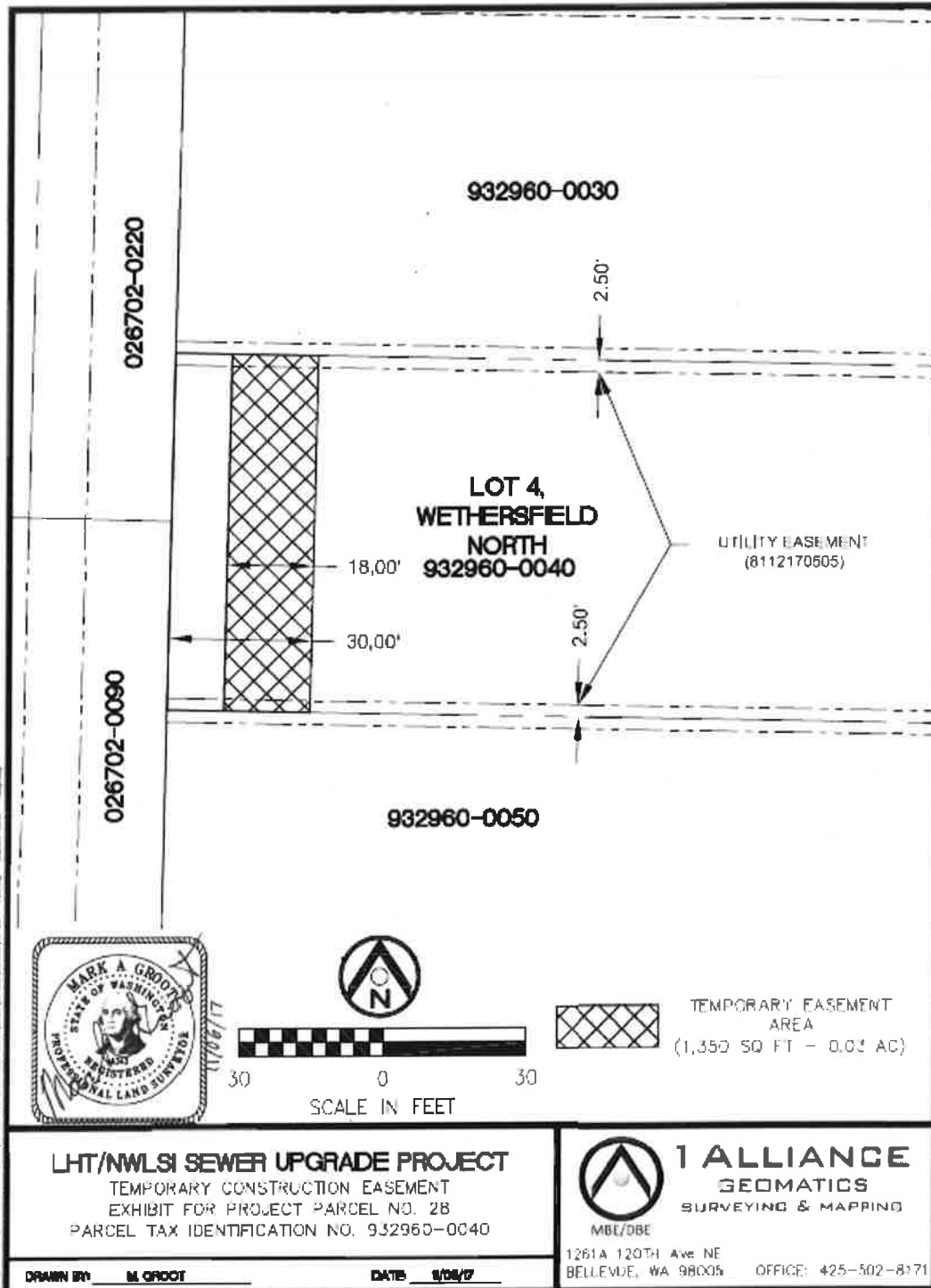
### Description of Temporary Construction Easement Area

THE EAST 18 FEET OF THE WEST 30 FEET OF LOT 4, WETHERSFIELD NORTH,  
ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04  
AND 05, RECORDS OF KING COUNTY.

CONTAINING 1,350 SQUARE FEET OR 0.03 ACRES, MORE OR LESS.

# EXHIBIT E

## Depiction of Temporary Construction Easement Area

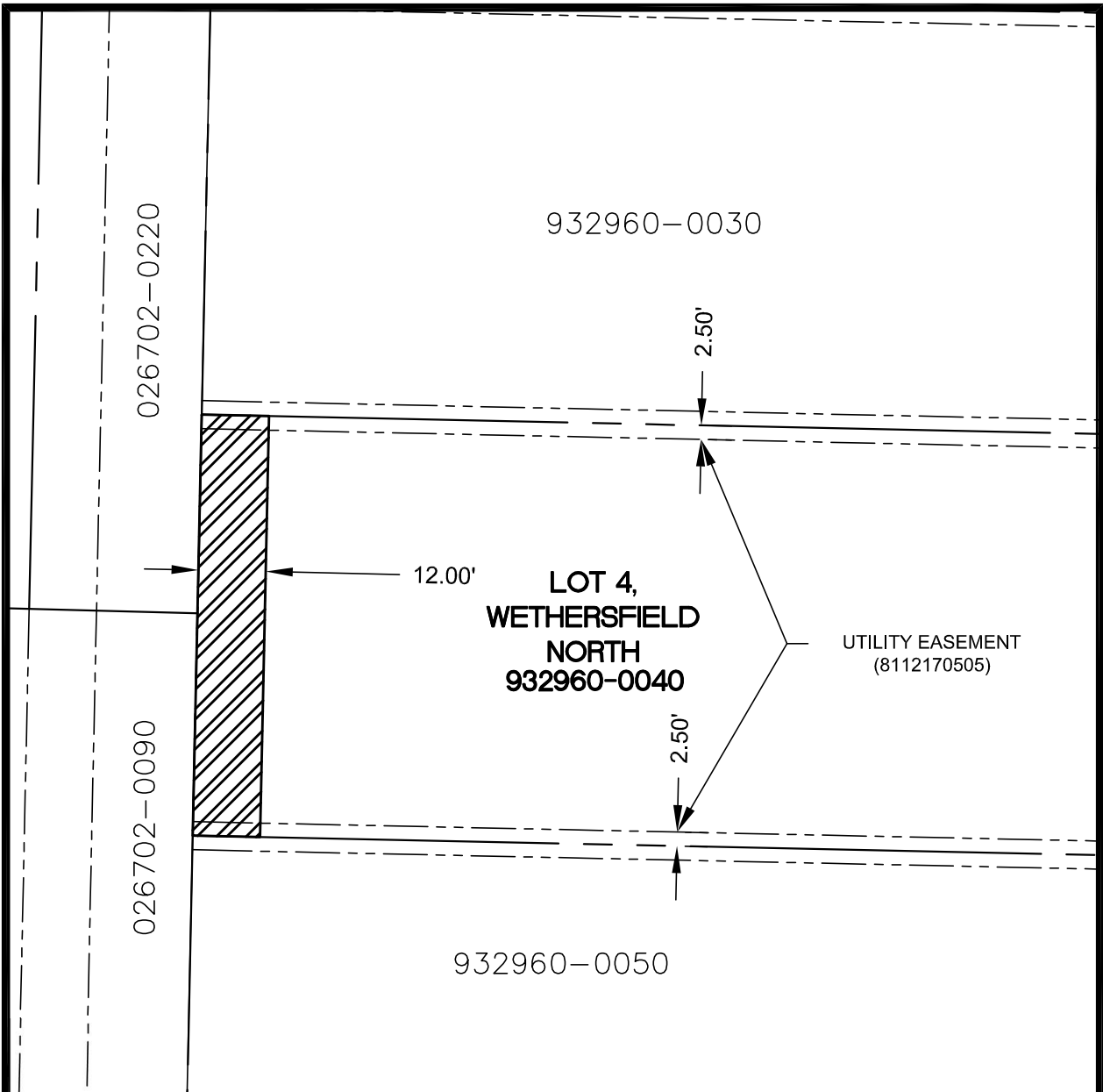


PROJECT PARCEL NO. 28  
PARCEL TAX IDENTIFICATION NO. 932960-0040  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 4, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

mark.dwg 11/06/17 1:24pm - G:\2017\14-007 NWLS LANE MILLS SEWER (000s) (00 CAD) Exhibit 14-007 - Kennedy - 022602-0040 - Permit.dwg



SCALE IN FEET



PERMANENT EASEMENT  
AREA  
(900 SQ FT - 0.02 AC)

## LHT/NWLSI SEWER UPGRADE PROJECT

PERMANENT EASEMENT  
EXHIBIT FOR PROJECT PARCEL NO. 28  
PARCEL TAX IDENTIFICATION NO. 932960-0040



**1 ALLIANCE**  
GEOMATICS  
SURVEYING & MAPPING

MBE/DBE

1261A 120TH Ave NE  
BELLEVUE, WA 98005

OFFICE: 425-502-8171

DRAWN BY: M. GROOT

DATE: 11/06/17



**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland N

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Mihaiuc, Pavel & Magdalena			
<b>2. Mailing Address (Street or PO Box)</b>			
2321 179th Ave			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 9329600010			
Signature of Property Owner			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<u>See signed Utility Easement</u>			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

RECORDING REQUESTED BY AND  
WHEN RECORDED RETURN TO:  
KING COUNTY  
WASTEWATER TREATMENT DIVISION  
MAILSTOP: KSC-NR-0503  
201 SOUTH JACKSON STREET, SUITE 503  
SEATTLE, WA 98104-3855

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**Document Title:** Utility Easement  
**Grantor(s):** Pavel and Magdalena Mihaiuc  
**Grantee:** King County  
**Abbreviated Legal Description:** Lot 1, Wethersfield North  
**Additional Legal Description is on Page:** EXHIBIT "A"  
**Assessor's Tax Parcel Number(s):** 9329600010

#### **UTILITY EASEMENT**

WHEREAS, **King County** ("Grantee") is a political subdivision of the State of Washington and is authorized by Chapter 8.12 RCW, RCW 35.58.320, 35.58.200 and 36.56.010, K.C.C. 28.01.030 and 28.81.010 to acquire and condemn real property for public use for sewage treatment and water pollution abatement facilities; and

WHEREAS, **Pavel Mihaiuc and Magdalena Mihaiuc, husband and wife**, are the owners of certain real property more particularly described in **EXHIBIT "A"** which is attached hereto and incorporated herein by this reference (the "Property"); and

WHEREAS, Grantee has determined that it must **replace and upgrade the Lake Hills Trunk as part of the Lake Hills Trunk NW Lake Sammamish Interceptor Sewer Upgrade Project** (the "Project"); and

WHEREAS, it is necessary for Grantee to acquire a **permanent easement as well as a temporary construction easement** granting King County and its successors and assigns the right to install, construct, own, operate, maintain, use, upgrade, repair and replace certain underground utilities including, without limitation, pipelines, odor control facilities, ducts, vaults, manholes, vents, meters, monitoring equipment, cabinets, containers, switches, transformers, conduits, wires, pump stations and other necessary and convenient

equipment and appurtenances, including, but not limited to, all utility lines or equipment servicing said pipelines, pump stations and related equipment and appurtenances (hereinafter sometimes referred to collectively, as the "Easement Improvements") together with the right of ingress to and egress from the Property for the foregoing purposes for the Project; and

WHEREAS as part of the Project, King County may monitor, replace and maintain reconstructed and restored plantings as may be required by permit conditions for up to one year after the initial installation of restoration plantings, or completion of the project.

NOW, THEREFORE, in consideration of the mutual covenants and agreement hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **Grant of Easements.** Grantor for and in consideration of Thirty Three Thousand Dollars (\$33,000.00) and other valuable consideration in hand paid, and under threat of condemnation, grants and conveys to King County its successors and assigns, all of the following:

A. A permanent, exclusive easement, containing 1,375 square feet, more or less, in, on, under and through the Property for the installation, construction, ownership, operation, maintenance, use, inspection, repair, replacement, renovation, improvement, removal and enhancement of the Easement Improvements, in the location legally described in **EXHIBIT B** and depicted in **EXHIBIT C (the "Permanent Easement Area")**, attached hereto and incorporated herein by this reference together with a right of access in, on and through the Property for ingress and egress to and from Permanent Easement Area for personnel, vehicles and equipment as reasonably necessary or incidental to Grantee's installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal or enhancement of the Easement Improvements.

B. An exclusive temporary construction easement, (the "TCE") containing approximately 2,061 square feet, more or less over, across, along, in, upon, and under the Property legally described in **EXHIBIT D** and depicted in **EXHIBIT E (the "TCE Area")** for any and all activities in connection with the construction of the Easement Improvements and the Project, including, but not limited to mobilization, site preparation, grading, excavation, construction, lighting, ventilation, removal of excavated material, equipment maintenance, storage of equipment and construction materials, stockpiling materials, storm water handling facilities (such as baker tanks), loading and unloading of trucks and/or conveyors, maintenance of trailers and utilities, construction activities for tank, building and pipeline construction, instrumentation, monitoring wells as needed to monitor stormwater quality and quantity, roadwork, landscaping, and final site cleanup, together with the right for access by pedestrians, vehicles and equipment and utility services required for purposes of constructing the Easement Improvements and the Project.

The term of the TCE shall commence upon the date Grantee provides written notice to Grantor of the commencement thereof and shall remain in force until completion of the Project construction and restoration, estimated to be approximately 21 months in duration, (the "Initial Term").

Grantee may extend the term of the TCE and continue to use the TCE Area for additional time for a period not to exceed 24 additional months. In order to exercise the right to additional time, Grantee shall give Grantor thirty (30) day's written notice prior to the expiration of the Initial Term of the TCE that Grantee intends to use the TCE Area for additional time along with a statement as to the amount of additional time for which Grantee shall use the TCE Area. Nothing herein shall prevent Grantee from submitting serial notices of extended use; provided, however, that in no event shall the term of the TCE be extended to a date more than 4 years from the date of commencement of the TCE. If Grantee requires additional time beyond the 21 month Initial Term for the TCE, Grantee shall pay Grantor Twelve Hundred Dollars (\$1,200.00) for each such month of additional use. Any partial months of additional use shall be paid on a pro rata basis.

C. Following the end of the final TCE term set forth in Section 1 B King County shall have the right to periodically enter upon the Permanent Easement Area, Temporary Easement Area, and/or outlying areas, to monitor, replace and maintain the reconstructed and/or restored plantings (or landscaping) without the payment of additional compensation for up to an initial term of up to 12 months. Additionally, King County shall have the right to perform Post-Construction environmental monitoring and maintenance for long term temporary impacts to forest buffer areas. This right of access shall be for an initial term of up to 120 months ("Initial Term of Right of Access"). Grantee may extend the term of the Right of Access by giving Grantor thirty (30) day's written notice prior to the expiration of the Initial Term of the Right of Access.

The consideration for this Utility Easement has been paid by Grantee from the King County Water Quality Fund. The Permanent Easement Area and Temporary Construction Easement Area shall be referred to collectively herein as the "Easement Areas."

2. **Benefit of Easement.** This Utility Easement is for the benefit of all property interests now owned or hereafter acquired by Grantee which constitutes a portion of or is served the Project or by existing or future Easement Improvements and for all purposes necessary or incidental to the installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal and enhancement of the Easement Improvements, and the right of ingress to and egress from, on, to, under, across, and upon the Property as may be necessary to install, construct, use, operate, maintain, inspect, repair, replace, renovate, improve, remove or enhance the Easement Improvements.



3. **Purpose of Easement.** Grantee shall have the right to use the Easement Areas for all purposes necessary or incidental to Grantee's installation, construction, ownership, use, operation, maintenance, inspection, repair, replacement, renovation, improvement, removal and enhancement of all or any Easement Improvements as described herein as Grantee may now or hereafter deem appropriate. Any and all Easement Improvements, of any kind that are now or hereafter acquired, constructed or installed within the Easement Areas shall be and shall at all times remain the property of Grantee.

4. **Grantee's Restoration of Property.** Grantee shall, upon completion of construction of any Easement Improvements described herein, remove any debris and restore the surface of any portion of the Property disturbed by Grantee's construction to the reasonably approximate condition in which it existed at the commencement of Grantee's construction. In addition, Grantee shall, if the Property is disturbed by Grantee's maintenance, removal, repair or replacement of the Easement Improvements specified herein, restore the surface of the Property to the reasonably approximate condition in which it existed at the commencement of said maintenance, removal, repair or replacement.

5. **Grantor's Use of Property.** Grantor reserves the right to use the Property for any purpose not inconsistent with the rights herein granted to Grantee so long as such use does not interfere with, obstruct or endanger the use, function, efficiency, maintenance, repair or replacement of any Easement Improvements now or hereafter constructed, installed, used, operated or maintained by Grantee in the Easement Areas pursuant to this Utility Easement. Except as otherwise provided herein, and after the date of this Utility Easement, the construction, installation, or maintenance of any structures, whether temporary or permanent, shall be absolutely prohibited within the above described (specify the applicable Easement Areas) and shall be deemed an unreasonable interference with the easement rights granted to Grantee herein unless specifically approved in writing by the Grantee. Prior to any activity by Grantor in the Easement Area that requires use of the subsurface of the Property and/or extends to within ten feet of any of Easement Improvements contained therein or which changes the compression loads on or to the lateral support for any Easement Improvements, Grantor shall notify Grantee in writing and shall provide Grantee with a copy of all plans and specifications for such proposed activity for review at least forty-five (45) days prior to the commencement of such activity. Grantor shall not commence such activity unless and until it has received Grantee's prior written consent that the Grantor's proposed construction, work or activity will not interfere with the Grantee's rights under this Utility Easement, which consent may be denied in Grantee's sole judgment and discretion. Grantee's review and approval of Grantor's plans and specifications shall be strictly limited to the facilities and/or excavation shown on the plans and specifications submitted to Grantee and shall in no event constitute or be construed as a certification of the adequacy or sufficiency of Grantor's plans and

specifications nor whether Grantor's construction, work or activity complies with other applicable laws, building codes and other governmental rules and regulations.

6. **Indemnity.** Grantee agrees to defend, indemnify and hold harmless Grantor, its successors and assigns, from all claims, actions, costs, damages or expense of any nature whatsoever (including reasonable attorneys' fees and costs) for injuries, sickness or death of persons, or any damage to property, caused by the negligent acts or omissions of Grantee, its assigns, agents, contractors or employees, in its use of or occupancy under this Utility Easement. Provided, however, that this defense and indemnification obligation does not include such claims, actions, costs, damages or expenses which may be caused by the sole negligence or willful misconduct of the Grantor, its successors, assigns, agents or employees and provided further that if the claims, actions, costs, damages or expenses are caused by or result from the concurrent negligence of (a) the Grantor, its successors or assigns and/or their agents or employees and (b) the Grantee, its agents or employees, or involves those actions covered by RCW 4.24.115, then this indemnity provision shall be valid and enforceable only to the extent of the negligence of the Grantee, its agents or employees. For purposes of this indemnity only, Grantee specifically and expressly waives any immunity that it may be granted under the Washington State Industrial Insurance Act, Title 51 RCW.

7. **Notices.** Any notices required or permitted under this Utility Easement shall be deemed to have been duly given if personally delivered, sent by nationally recognized overnight delivery service, or if mailed or deposited in the United States mail and sent registered or certified mail, postage prepaid to the address listed below or to such other address as either party may from time to time designate in writing and deliver in a like manner. Notices may also be given by facsimile transmission (provided the fax machine has printed a confirmation of receipt). All notices that are mailed shall be deemed received three business days after mailing. All other notices shall be deemed complete upon receipt or refusal to accept delivery. Notices shall be sent to the following addresses:

**To Grantor:**

Pavel and Magdalina Mihaiuc  
2321 179th Ave. N.E.  
Redmond, WA 98052

**To Grantee:**

King County  
Wastewater Treatment Division  
Supervisor,  
Regulatory Permitting and Property  
Acquisition  
Mailstop: KSC-NR-0503  
201 South Jackson Street, Suite 512  
Seattle, WA 98104-3855

8. **Miscellaneous Provisions**

(a) **Representations.** Grantor represents that it is the lawful owner of the Property and has the legal authority to grant and convey this Utility Easement to Grantee.

(b) **Binding Effect.** This Utility Easement is appurtenant to and shall run with all real property and real property interests and easements now owned or hereafter acquired by Grantee or served by the Easement Improvements and shall inure to the benefit of Grantee, its successors and assigns and shall be binding upon the Property and Grantor, and its successors and assigns. Grantee shall have the right to assign its rights under this Utility Easement, in whole or in part, without any additional fee and without the approval or consent of Grantor.

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(d) **Entire Agreement.** This Utility Easement sets forth the entire agreement of the parties as to the subject matter hereof and supersedes all prior discussions and understandings between them. This Utility Easement may not be modified, except by an instrument in writing signed by a duly authorized officer or representative of each party hereto.

(e) **Waiver.** No waiver of any right under this Utility Easement shall be effective unless contained in a writing signed by a duly authorized officer or representative of the party sought to be charged with the waiver and no waiver of any right arising from any breach or failure to perform shall be deemed to be a waiver of any future right or any other right arising under this Utility Easement.

(f) **Governing Law.** This Utility Easement shall be governed by and construed and enforced in accordance with the laws of the State of Washington.

[SIGNATURES APPEAR ON NEXT PAGE]

Dated this 01 day of February, 2018

Pavel Mihaiuc



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Magdalina Mihaiuc



---

**[NOTARIES APPEAR ON NEXT PAGES]**

STATE OF WASHINGTON                    )  
  ) ss.  
COUNTY OF KING                        )

I certify that I know or have satisfactory evidence that Pavel Mihainc  
and Magdalena Mihainc signed this instrument and acknowledged it to be  
(his/her/their) free and voluntary act for the uses and purposes mentioned in the  
instrument.

Dated: 2/1/2018



[Signature]  
Notary Public

Print Name Amy C. Pinneo

My commission expires 12/13/2020

(Use this space for notarial stamp/seal)

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

King County

By: \_\_\_\_\_

Its: \_\_\_\_\_

STATE OF WASHINGTON                    )  
  ) ss  
COUNTY OF KING                        )

I hereby certify that I know or have satisfactory evidence that \_\_\_\_\_ is the \_\_\_\_\_ for the King County Department of Natural Resources, Wastewater Treatment Division, is that person who appeared before me, acknowledged that he/she signed this instrument on behalf of King County, on oath stated that he/she was authorized to execute the instrument and acknowledged it as the free and voluntary act of King County for the uses and purposes mentioned in this instrument.

Date: \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC (Signature)

\_\_\_\_\_  
(printed name)

in and for the State of Washington  
residing at \_\_\_\_\_.

My appointment expires \_\_\_\_\_

**EXHIBIT A**

Legal Description of Entire Property

LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT THEREOF  
RECORDED IN VOLUME 121 OF PLATS, PAGES 4 THROUGH 5, INCLUSIVE,  
RECORDS OF KING COUNTY, WASHINGTON;

SITUATED IN THE COUNTY OF KING, STATE OF WASHINGTON.

## **EXHIBIT B**

### Legal Description for Permanent Easement Area

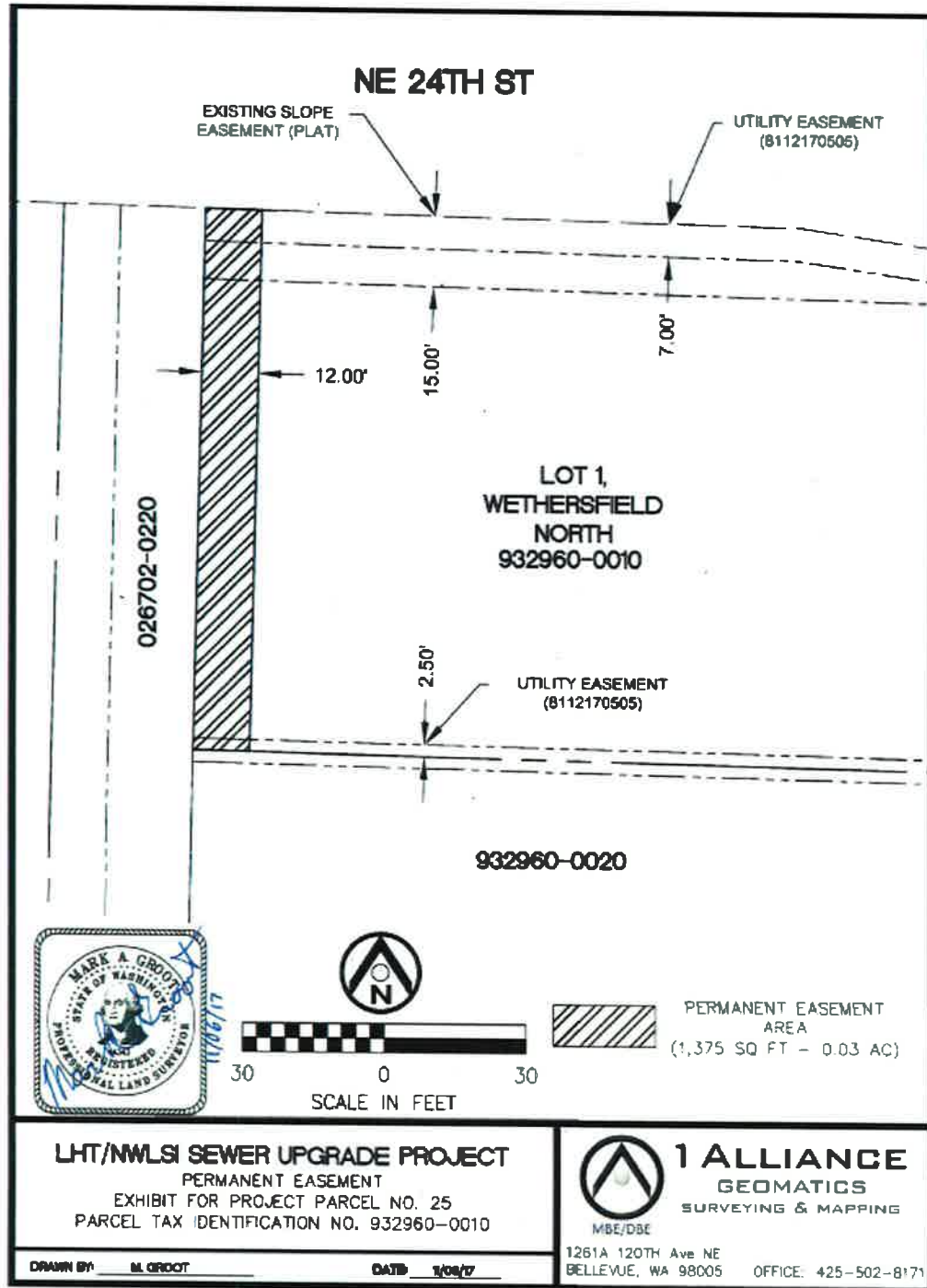
THE WEST 12 FEET OF LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 1,375 SQUARE FEET OR 0.03 ACRES, MORE OR LESS.



## EXHIBIT C

### Depiction of Permanent Easement Area



## **EXHIBIT D**

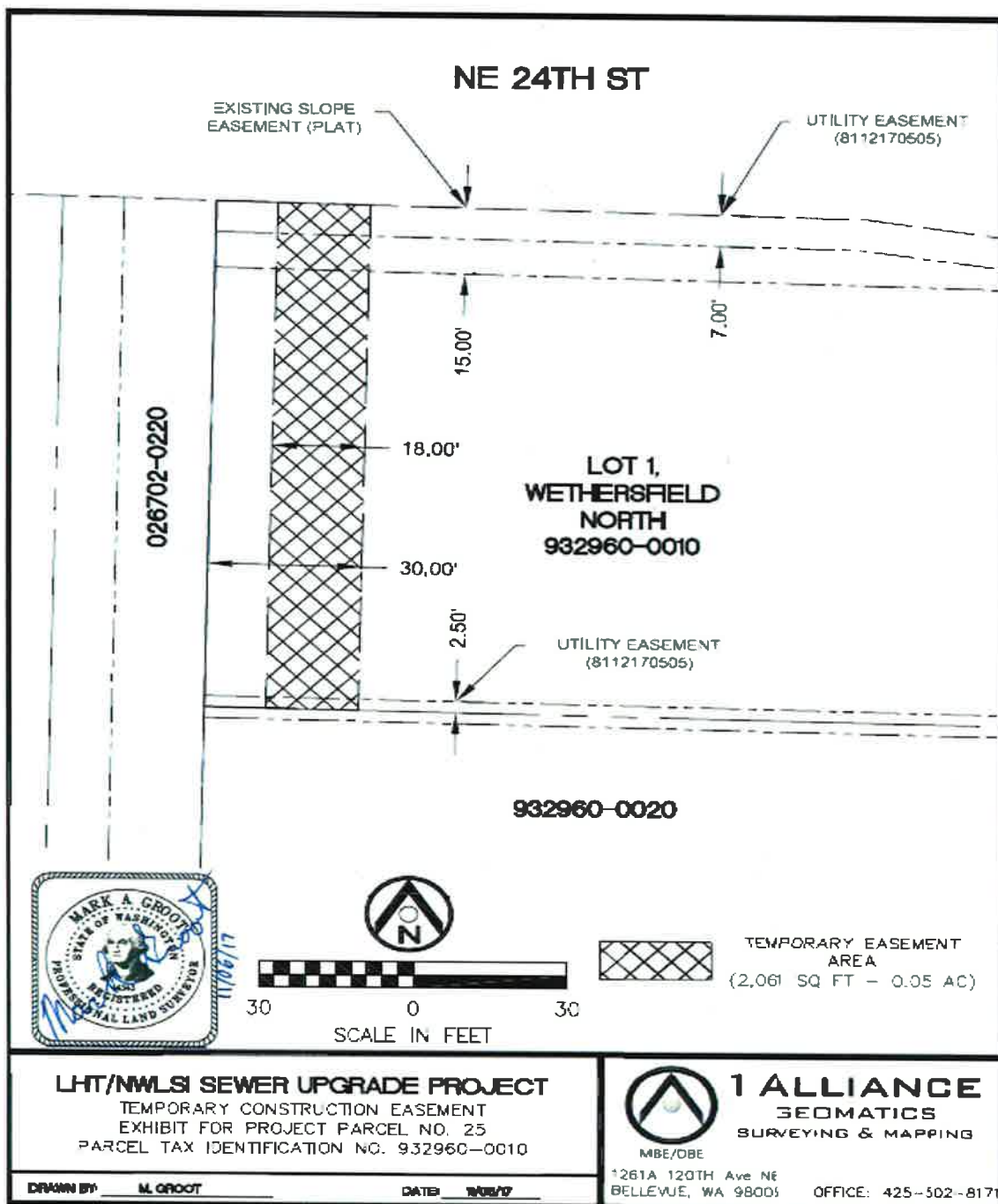
### Description of Temporary Construction Easement Area

THE EAST 18 FEET OF THE WEST 30 FEET OF LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 2,061 SQUARE FEET OR 0.05 ACRES, MORE OR LESS.

# EXHIBIT E

## Depiction of Temporary Easement Area



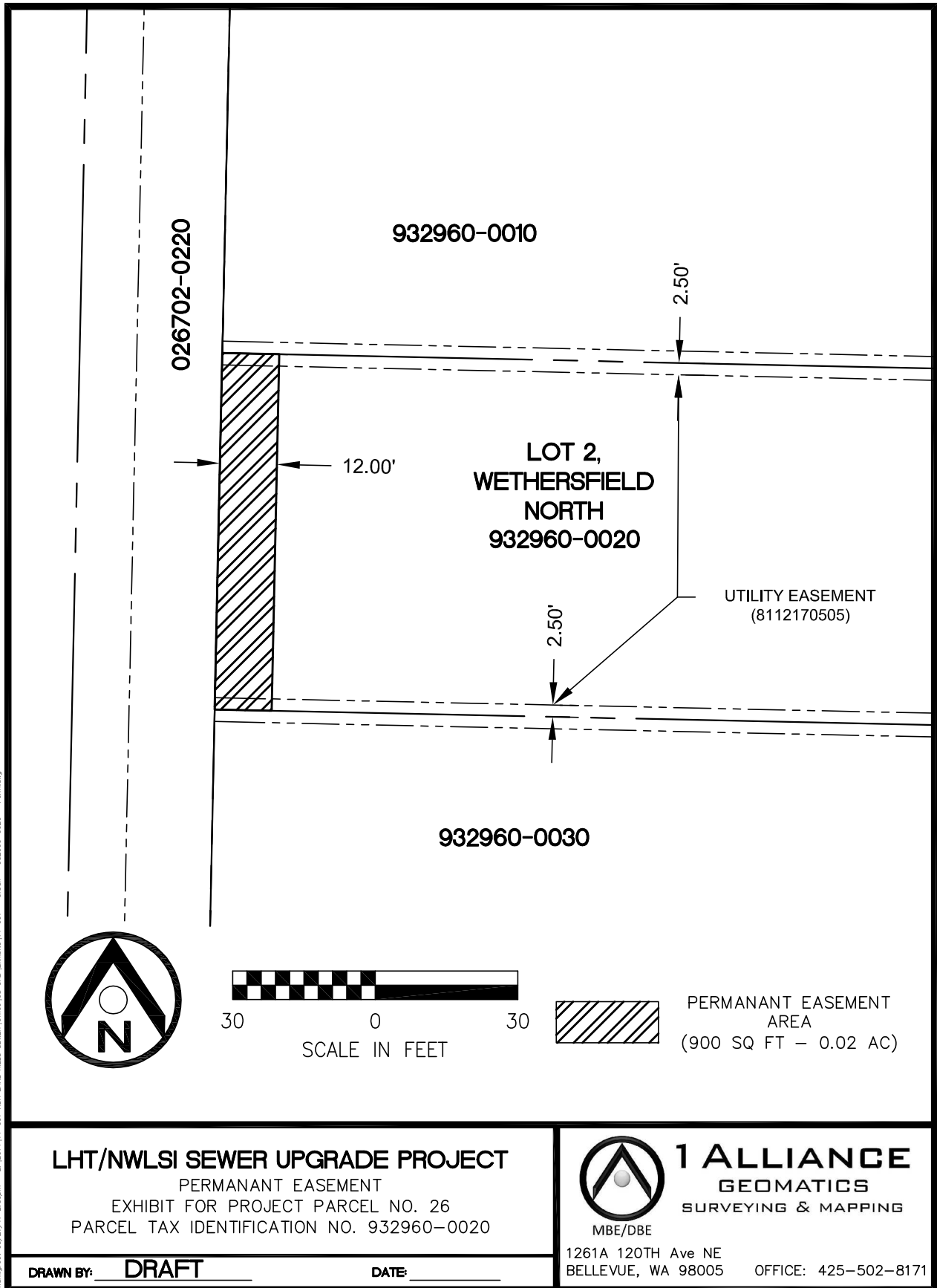
PROJECT PARCEL NO. 25  
PARCEL TAX IDENTIFICATION NO. 932960-0010  
TEMPORARY EASEMENT DESCRIPTION

THE EAST 18 FEET OF THE WEST 30 FEET OF LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

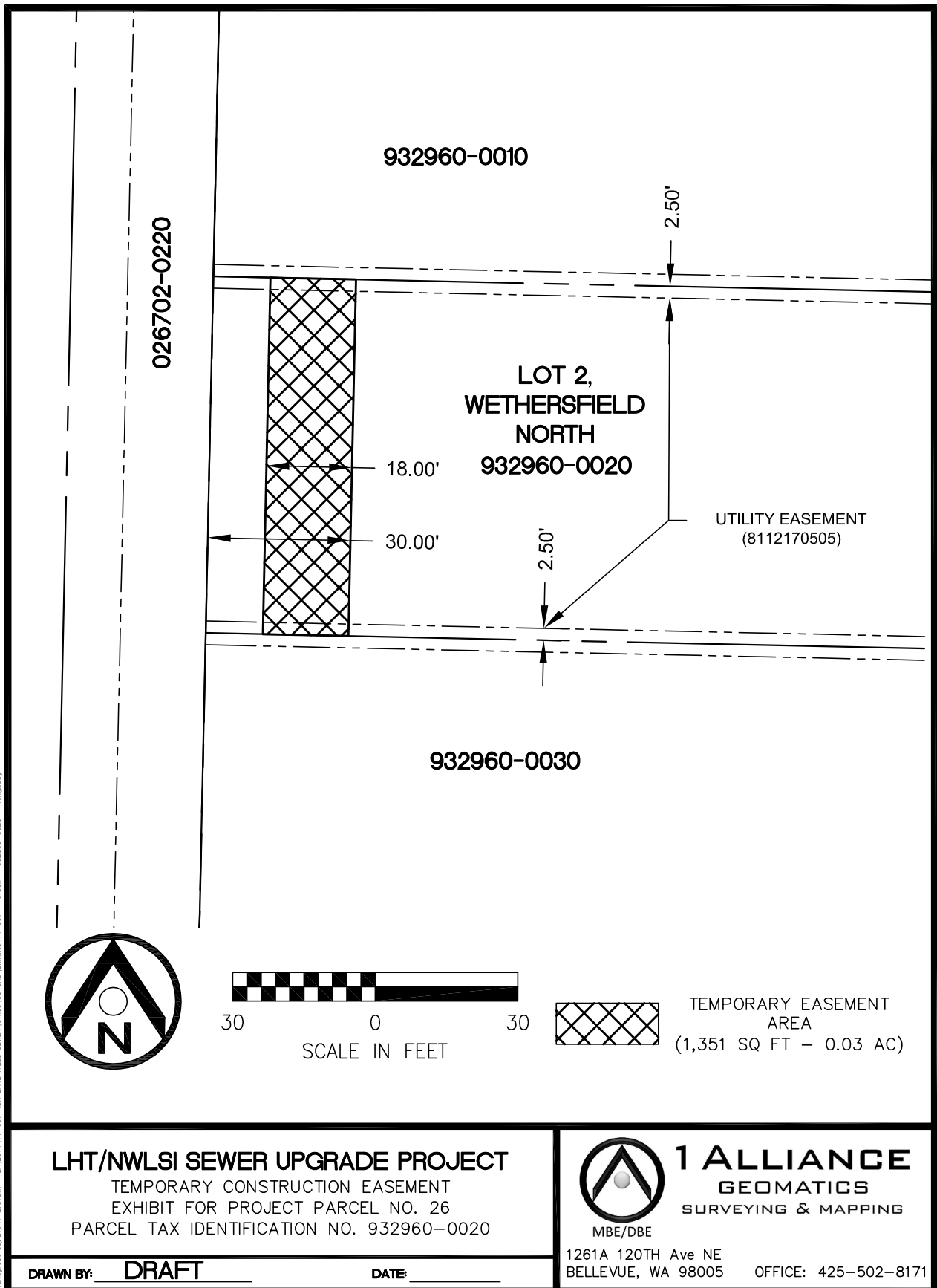
CONTAINING 2,061 SQUARE FEET OR 0.05 ACRES, MORE OR LESS.

mark.groot 11/06/17 7:32am - L: 2014|14-097 HDR LAKE HILLS SEWER|Office|08 CAD|Exhibits|14-097 - Milnaic - 932960-0010 - Temp.dwg

mapxpress 03/27/17 2:58pm - C:\2014\14-007\HSP-LAKE-WALS-SWEEP\Office\DWG-001\Exhibits\14-007 - Urban - 932960-0020 - Perm.dwg



mapxprint: 03/27/17 12:52pm - C:\2014\14-007\HSP-LAKE-WALS-SHWP\Office\DWG-CAD\Exhibits\14-007 - Urban - 932960-0020 - Temp.dwg





**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



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AGENCY USE ONLY

Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland N

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

**1. Name (Last, First, Middle) and Organization (if applicable)**

Schulz, Michael & Yvonne

**2. Mailing Address (Street or PO Box)**

2218 177th Place NE

**3. City, State, Zip**

Redmond, WA 98052

**4. Phone (1)**

**5. Phone (2)**

**6. Fax**

**7. E-mail**

Address or tax parcel number of property you own:

Parcel Number 0267020090

Signature of Property Owner

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

King County via existing easement

Printed Name

Signature

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016





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Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland O

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Rosenwald, Leslie			
<b>2. Mailing Address (Street or PO Box)</b>			
3315 178th Avenue NE			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 8965000170			
Signature of Property Owner			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<u>King County WTD via existing easement</u>			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

PROJECT PARCEL NO. 8  
PARCEL TAX IDENTIFICATION NO. 896500-0170  
PERMANENT EASEMENT DESCRIPTION

THAT PORTION OF LOT 17, VUELAKE NO 1, ACCORDING TO THE PLAT RECORDED IN VOLUME 82 OF PLATS, PAGES 11 AND 12, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 17;  
THENCE SOUTH 0°58'41" WEST ALONG THE WEST LINE OF SAID LOT 17 A DISTANCE OF 0.77 FEET TO THE SOUTH MARGIN OF THE LAKE HILLS UTILITY EASEMENT RECORDED UNDER AUDITOR'S FILE NUMBER 5404416, RECORDS OF KING COUNTY WASHINGTON AND THE POINT OF BEGINNING;  
THENCE CONTINUING SOUTH 0°58'41" WEST ALONG THE WEST LINE OF SAID LOT 17 A DISTANCE OF 4.23 FEET;  
THENCE SOUTH 87°37'17" EAST A DISTANCE OF 82.50 FEET TO THE EAST LINE OF SAID LOT 17;  
THENCE NORTH 31°19'01" WEST ALONG SAID EAST LINE A DISTANCE OF 3.29 FEET TO SAID SOUTH MARGIN;  
THENCE NORTH 86°33'32" WEST ALONG SAID SOUTH MARGIN A DISTANCE OF 80.79 FEET TO THE POINT OF BEGINNING.

CONTAINING 284 SQUARE FEET OR 0.01 ACRES, MORE OR LESS.

mark:groot 11/03/17 11:51am - L: 2014|14-097 HDR LAKE HILLS SEWER|Office|08 CAD Exhibits|14-097 - Rosenwald\_896500-0170 - Perm.dwg



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**Application (JARPA)** [\[help\]](#)



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Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Wetland O

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Datsko, Gerland & Svitlana			
<b>2. Mailing Address (Street or PO Box)</b>			
17703 NE 34th Street			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 8965010160			
Signature of Property Owner			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<u>King County WTD via existing easement</u>			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016



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Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Country  
Creek

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
ASC Marymoor LLC			
<b>2. Mailing Address (Street or PO Box)</b>			
4585 West Lake Sammamish Parkway NE			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 5556300005			
Signature of Property Owner			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<i>Note: King County in process of securing easement</i> _____			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

PROJECT PARCEL NO. 42  
PARCEL TAX IDENTIFICATION NO. 555630-0005  
TEMPORARY EASEMENT DESCRIPTION

THAT PORTION OF LOT 1, BLOCK 1, OF THE PLAT OF MIRAVISTA, ACCORDING TO THE PLAT RECORDED IN VOLUME 28 OF PLATS, PAGE 35, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT;  
THENCE NORTH 70°27'21" WEST ALONG THE SOUTH RIGHT-OF-WAY MARGIN OF WEST LAKE SAMMAMISH PARKWAY A DISTANCE OF 68.75 FEET TO THE BEGINNING OF CURVE CONCAVE TO THE NORTH HAVING A RADIUS OF 704.07 FEET;  
THENCE ALONG THE ARC OF SAID CURVE AND SAID MARGIN THROUGH A CENTRAL ANGLE OF 00°39'06" A DISTANCE OF 8.01 FEET;  
THENCE SOUTH 20°11'45" WEST A DISTANCE OF 25.03 FEET;  
THENCE SOUTH 70°18'14" EAST A DISTANCE OF 6.36 FEET TO THE BEGINNING OF CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 15.00 FEET;  
THENCE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 110°06'12" A DISTANCE OF 28.82 FEET;  
THENCE SOUTH 39°47'57" WEST A DISTANCE OF 6.98 FEET;  
THENCE SOUTH 50°12'03" EAST A DISTANCE OF 37.50 FEET TO THE SOUTHEAST LINE OF SAID LOT 1;  
THENCE NORTH 39°47'57" EAST ALONG SAID SOUTHEAST LINE A DISTANCE OF 68.99 FEET TO THE POINT OF BEGINNING.

CONTAINING 3,242 SQUARE FEET OR 0.07 ACRES, MORE OR LESS.



**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



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Date received: \_\_\_\_\_

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Lake Hills Trunk/NW Lake  
Sammamish Interceptor Upgrade

**Location Name (if applicable):** Country  
Creek

Use this attachment only if you have more than one property owner.  
Complete one attachment for each additional property owner  
impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Meadows at Marymoor Condominiums			
<b>2. Mailing Address (Street or PO Box)</b>			
4600 West Lake Sammamish Parkway NE			
<b>3. City, State, Zip</b>			
Redmond, WA 98052			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
Address or tax parcel number of property you own:			
Parcel Number 5422470000			
<b>Signature of Property Owner</b>			
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.			
<i>Note: King County in process of securing easement</i> _____			
Printed Name		Signature	

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-012 rev. 10/2016

PROJECT PARCEL NO. 43  
PARCEL TAX IDENTIFICATION NO. 542247-0000  
TEMPORARY EASEMENT DESCRIPTION

THAT PORTION OF MEADOWS AT MARYMOOR, ACCORDING TO THE PLAT RECORDED IN VOLUME 151 OF CONDOMINIUMS, PAGES 62 TO 67, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID CONDOMINIUM PLAT;  
THENCE NORTH 70°27'21" WEST ALONG THE NORTH RIGHT-OF-WAY MARGIN OF WEST LAKE SAMMAMISH PARKWAY A DISTANCE OF 388.27 FEET TO THE EASTERLY MARGIN OF THE TEMPORARY CONSTRUCTION EASEMENT AS RECORDED UNDER AUDITOR'S FILE NUMBER 20190208000560, RECORDS OF KING COUNTY AND A POINT TO BE KNOWN HERETOFORE AS POINT 'A';  
THENCE NORTH 19°32'39" EAST, ALONG SAID EASTERLY MARGIN, PERPENDICULAR TO SAID RIGHT-OF-WAY MARGIN, A DISTANCE OF 12.00 FEET TO THE POINT OF BEGINNING;  
THENCE CONTINUING NORTH 19°32'39" EAST A DISTANCE OF 8.00 FEET;  
THENCE NORTH 70°27'21" WEST A DISTANCE OF 36.72 FEET TO THE BEGINNING OF A CURVE CONCAVE TO THE NORTHEAST HAVING A RADIUS OF 15.00 FEET;  
THENCE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 95°18'24" AN ARC DISTANCE OF 24.95 FEET;  
THENCE NORTH 24°51'03" EAST A DISTANCE OF 43.45 FEET TO THE SOUTHEASTERLY MARGIN OF THE NATIVE GROWTH PROTECTION EASEMENT AS RECORDED UNDER AUDITOR'S FILE NUMBER 9809100644, RECORDS OF KING COUNTY WASHINGTON;  
THENCE SOUTH 80°33'09" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 8.37 FEET;  
THENCE SOUTH 47°18'42" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 26.39 FEET;  
THENCE SOUTH 40°08'40" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 34.44 FEET TO THE NORTHERLY MARGIN OF SAID TEMPORARY EASEMENT;  
THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 4.37 FEET;  
THENCE SOUTH 19°32'39" WEST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 8.00 FEET;

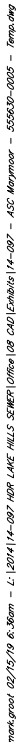


THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 75.00 FEET TO THE POINT OF BEGINNING;

TOGETHER WITH:

COMMENCING AT THE AFOREMENTIONED POINT 'A';  
THENCE NORTH 70°27'21" WEST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 113.30 FEET;  
THENCE NORTH 00°47'43" EAST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 5.28 FEET TO THE WESTERLY MARGIN OF SAID TEMPORARY EASEMENT AND THE POINT OF BEGINNING;  
THENCE NORTH 19°32'39" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 15.00 FEET;  
THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 0.77 FEET TO THE WESTERLY MARGIN OF SAID NATIVE GROWTH PROTECTION EASEMENT;  
THENCE NORTH 16°51'38" EAST ALONG SAID EASEMENT MARGIN A DISTANCE OF 5.53 FEET;  
THENCE NORTH 07°25'36" WEST ALONG SAID EASEMENT MARGIN A DISTANCE OF 10.87 FEET;  
THENCE SOUTH 29°21'32" WEST A DISTANCE OF 30.66 FEET TO SAID RIGHT-OF-WAY MARGIN;  
THENCE SOUTH 70°27'21" EAST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 9.64 FEET TO THE POINT OF BEGINNING.

CONTAINING 1,849 SQUARE FEET OR 0.04 ACRES, MORE OR LESS.





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AGENCY USE ONLY	
Date received:	_____
Agency reference #:	_____
Tax Parcel #(s):	_____ _____ _____
TO BE COMPLETED BY APPLICANT <a href="#">[help]</a>	
Project Name: <u>Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade</u>	
Location Name (if applicable): <u>Wetlands J and K</u>	

**Attachment B:**  
**For additional project location(s)** [\[help\]](#)

Use this attachment only if you have more than one project location.

Use a separate form for each additional location.

**Vicinity of Wetlands J and K**

Use black or blue ink to enter answers in white spaces below.

<b>1. Indicate the type of ownership of the property. (Check all that apply.)</b> <a href="#">[help]</a>			
<input type="checkbox"/> Private			
<input type="checkbox"/> Federal			
<input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.)			
<input type="checkbox"/> Tribal			
<input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>2. Street Address</b> (Cannot be a PO Box. If there is no address, provide other location information in 16) <a href="#">[help]</a>			
Marymoor Park Address: 6046 West Lake Sammamish Parkway NE			
<b>3. City, State, Zip</b> (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Redmond, WA 98052			
<b>4. County</b> <a href="#">[help]</a>			
King			
<b>5. Provide the section, township, and range for the project location.</b> <a href="#">[help]</a>			
<b>¼ Section</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
NE ¼	13 and 14	25 N	05 E
<b>6. Provide the latitude and longitude of the project location.</b> <a href="#">[help]</a>			
• Example: 47.03922 N lat. / -122.89142 W long (Use decimal degrees - NAD 83)			
Wetland J: 47.660452 N lat. / -122.124293 W long			
Wetland K: 47.657958 N lat. / -122.120968 W long			
<b>7. List the tax parcel number(s) for the project location.</b> <a href="#">[help]</a>			
• The local county assessor's office can provide this information.			
Parcels 1425059023 and 1325059001			

**8.** Contact information for all adjoining property owners. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
City of Redmond	PO Box 97010 M/S 3NFN Redmond, WA 98073	1425059058 and rights-of-way
Khalid & Shahida Siddiqui	16208 NE 58th Court Redmond, WA 98052	5196900030
Jinmei & Bo Li	16216 NE 58th Court Redmond, WA 98052	5196900020
Juan & Maria Rivera	16224 NE 58th Court Redmond, WA 98052	5196900010
Dalia & Alexander Alperovich	16219 NE 58th Court Redmond, WA 98052	5196900130
Erik & Julie Still	16220 NE 57th Street Redmond, WA 98052	2155000510
Jon Hacking	16228 NE 57th Street Redmond, WA 98052	2155000520
Mehmet Umay	5541 163rd Court NE Redmond, WA 98052	1425059193
Jeffrey Howard	16350 NE 51st Street Redmond, WA 98052	1425059086
John Chen	16357 NE 51st Street Redmond, WA 98052	1325059007
Tom Chen	PO Box 58206 Seattle, WA 98138	1325059100
Ke-Jui Chang	16518 NE 50th Street Redmond, WA 98052	5196400010
Rafik Robeal	16610 NE 50th Way Redmond, WA 98052	5196420010

**9.** List all wetlands on or adjacent to the project location. [\[help\]](#)

Wetlands J and K are within the project area.

**10.** List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

The Sammamish River, Clise Creek, and Tosh Creek are near the project area – no waterbodies other than wetlands are within the project area.

**11.** Is any part of the project area within a 100-year flood plain? [\[help\]](#)

☒ Yes   ☐ No   ☐ Don't know

**12. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)**

Wetland J is a small slope wetland located between the West Lake Sammamish bike trail and the Sammamish River on the former Willowmoor Farm site within Marymoor Park. Wetland J consists of dominant creeping buttercup, giant horsetail, and nonnative and invasive reed canarygrass. Subdominant red alder and Himalayan blackberry occur at the wetland edges, as well as bird's foot trefoil. Wetland J is seasonally saturated as a result of a high groundwater table driven by seeps. Wetland J provides low habitat functions due to lack of interspersions of vegetation communities and hydrologic regimes and because it does not contain special habitat features that provide structure and diversity to support wildlife.

Wetland K is a large, depressional wetland located between the West Lake Sammamish bike trail/West Lake Sammamish Parkway Northeast and the Sammamish River on the former Willowmoor Farm site within Marymoor Park. Wetland K contains black cottonwood and red alder trees with dominant Sitka willow, red-osier dogwood, salmonberry, and Himalayan blackberry in the understory, along with reed canarygrass and Himalayan blackberry. Wetland K is seasonally saturated and flooded. Sources of water include a high groundwater table driven by seeps and direct input from stormwater outfalls. Wetland K provides moderate habitat functions at the site as it has a high interspersions of vegetation communities and hydrologic regimes, and it contains special habitat features that provide structure and diversity throughout the site to support wildlife.

**13. Describe how the property is currently used. [\[help\]](#)**

The property is currently used as parks/open space (Marymoor Park and trails).

**14. Describe how the adjacent properties are currently used. [\[help\]](#)**

Adjacent properties, west of West Lake Sammamish Parkway NE, are in use as single-family residential.

**15. Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)**

Above-ground structures include paved trails and bollards. Below-ground utilities are present throughout the project area.

**16. Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)**

From State Route (SR) 520, take the West Lake Sammamish Parkway NE exit. Head south on West Lake Sammamish Parkway NE. The project area is on the east side of the road, south of the entrance to Marymoor Park (roughly between the intersections of NE 58th Court and NE 50th Way). See Sheets 1 and 6 to 11 for more information.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-013 rev. 10/2016



**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY	
Date received: _____	
Agency reference #: _____	
Tax Parcel #(s): _____	
_____	
_____	
TO BE COMPLETED BY APPLICANT <a href="#">[help]</a>	
Project Name: <u>Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade</u>	
Location Name (if applicable): <u>Country Creek</u>	

**Attachment B:**  
**For additional project location(s)** [\[help\]](#)

Use this attachment only if you have more than one project location.

Use a separate form for each additional location.

**Vicinity of Country Creek (Wetlands L1, L2 and M)**

Use black or blue ink to enter answers in white spaces below.

<b>1. Indicate the type of ownership of the property. (Check all that apply.)</b> <a href="#">[help]</a>			
<input checked="" type="checkbox"/> Private			
<input type="checkbox"/> Federal			
<input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.)			
<input type="checkbox"/> Tribal			
<input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>2. Street Address</b> (Cannot be a PO Box. If there is no address, provide other location information in 16) <a href="#">[help]</a>			
No Site Address; along West Lake Sammamish Parkway NE south of 168th Court NE (see #16 for more information)			
<b>3. City, State, Zip</b> (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Redmond, WA 98052			
<b>4. County</b> <a href="#">[help]</a>			
King			
<b>5. Provide the section, township, and range for the project location.</b> <a href="#">[help]</a>			
<b>¼ Section</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
SW ¼	13	25 N	05 E
<b>6. Provide the latitude and longitude of the project location.</b> <a href="#">[help]</a>			
• Example: 47.03922 N lat. / -122.89142 W long (Use decimal degrees - NAD 83)			
47.650343 N lat. / -122.114915 W long			
<b>7. List the tax parcel number(s) for the project location.</b> <a href="#">[help]</a>			
• The local county assessor's office can provide this information.			
Right-of-way of West Lake Sammamish Parkway NE and Parcels 5556300005 and 5422470000			

**8.** Contact information for all adjoining property owners. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
Maston Properties	2020 Maltby	7525570220
	Bothell, WA 98021	
Kennebec Condominiums	4517 170th Place NE	3820300000
	Redmond, WA 98052	

**9.** List all wetlands on or adjacent to the project location. [\[help\]](#)

Wetlands L1 and L2 are near the project area; Wetland M is adjacent to Country Creek.

**10.** List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

Country Creek flows within the project area via an existing culvert beneath West Lake Sammamish Parkway NE; no other waterbodies are within the project area.

**11.** Is any part of the project area within a 100-year flood plain? [\[help\]](#)

☐ Yes    ☒ No    ☐ Don't know

**12.** Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

In the vicinity of the proposed culvert modification, vegetation in the riparian buffer of Country Creek consists of both upland and wetland riparian vegetation. Most of the stream has natural stream banks, with some riprap near the culvert under West Lake Sammamish Parkway Northeast. Riparian vegetation consists of salmonberry (*Rubus spectabilis*), red-osier dogwood (*Cornus sericea*), western red-cedar (*Thuja plicata*), red alder (*Alnus rubra*), and Himalayan blackberry (*Rubus armeniacus*). The understory is dominated by creeping buttercup (*Ranunculus repens*) and giant horsetail (*Equisetum telmateia*). The buffer provides shade, wildlife habitat, pollutant removal, bank stabilization, and woody debris recruitment.

**13.** Describe how the property is currently used. [\[help\]](#)

The property is currently in use as transportation (West Lake Sammamish Parkway NE), retirement facility (Parcel 5556300005), and condominiums (Parcel 5422470000).

**14.** Describe how the adjacent properties are currently used. [\[help\]](#)

Adjacent properties are in use as single-family residential.

**15.** Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

Within the project area, structures include the above-ground paved roadway and below-ground culvert and utilities

**16.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From State Route (SR) 520, take the West Lake Sammamish Parkway NE exit. Head south on West Lake Sammamish Parkway NE. The project area is along West Lake Sammamish Parkway NE (roughly between the intersections of Bel-Red Road and 170th Court NE). See Sheets 1 and 12 for more information.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-013 rev. 10/2016

PROJECT PARCEL NO. 42  
PARCEL TAX IDENTIFICATION NO. 555630-0005  
TEMPORARY EASEMENT DESCRIPTION

THAT PORTION OF LOT 1, BLOCK 1, OF THE PLAT OF MIRAVISTA, ACCORDING TO THE PLAT RECORDED IN VOLUME 28 OF PLATS, PAGE 35, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT;  
THENCE NORTH 70°27'21" WEST ALONG THE SOUTH RIGHT-OF-WAY MARGIN OF WEST LAKE SAMMAMISH PARKWAY A DISTANCE OF 68.75 FEET TO THE BEGINNING OF CURVE CONCAVE TO THE NORTH HAVING A RADIUS OF 704.07 FEET;  
THENCE ALONG THE ARC OF SAID CURVE AND SAID MARGIN THROUGH A CENTRAL ANGLE OF 00°39'06" A DISTANCE OF 8.01 FEET;  
THENCE SOUTH 20°11'45" WEST A DISTANCE OF 25.03 FEET;  
THENCE SOUTH 70°18'14" EAST A DISTANCE OF 6.36 FEET TO THE BEGINNING OF CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 15.00 FEET;  
THENCE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 110°06'12" A DISTANCE OF 28.82 FEET;  
THENCE SOUTH 39°47'57" WEST A DISTANCE OF 6.98 FEET;  
THENCE SOUTH 50°12'03" EAST A DISTANCE OF 37.50 FEET TO THE SOUTHEAST LINE OF SAID LOT 1;  
THENCE NORTH 39°47'57" EAST ALONG SAID SOUTHEAST LINE A DISTANCE OF 68.99 FEET TO THE POINT OF BEGINNING.

CONTAINING 3,242 SQUARE FEET OR 0.07 ACRES, MORE OR LESS.



PROJECT PARCEL NO. 43  
PARCEL TAX IDENTIFICATION NO. 542247-0000  
TEMPORARY EASEMENT DESCRIPTION

THAT PORTION OF MEADOWS AT MARYMOOR, ACCORDING TO THE PLAT RECORDED IN VOLUME 151 OF CONDOMINIUMS, PAGES 62 TO 67, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

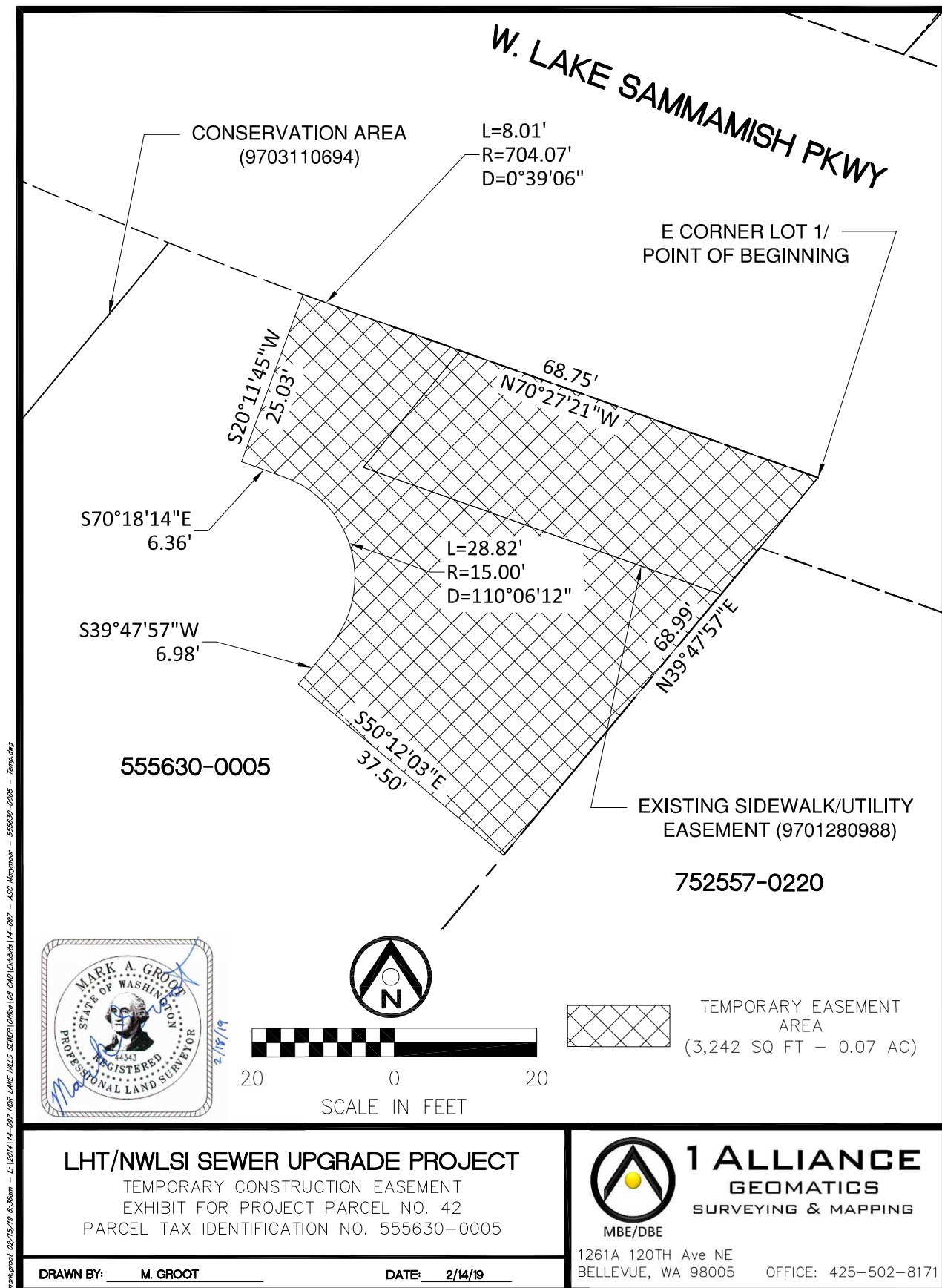
COMMENCING AT THE SOUTHEAST CORNER OF SAID CONDOMINIUM PLAT;  
THENCE NORTH 70°27'21" WEST ALONG THE NORTH RIGHT-OF-WAY MARGIN OF WEST LAKE SAMMAMISH PARKWAY A DISTANCE OF 388.27 FEET TO THE EASTERLY MARGIN OF THE TEMPORARY CONSTRUCTION EASEMENT AS RECORDED UNDER AUDITOR'S FILE NUMBER 20190208000560, RECORDS OF KING COUNTY AND A POINT TO BE KNOWN HERETOFORE AS POINT 'A';  
THENCE NORTH 19°32'39" EAST, ALONG SAID EASTERLY MARGIN, PERPENDICULAR TO SAID RIGHT-OF-WAY MARGIN, A DISTANCE OF 12.00 FEET TO THE POINT OF BEGINNING;  
THENCE CONTINUING NORTH 19°32'39" EAST A DISTANCE OF 8.00 FEET;  
THENCE NORTH 70°27'21" WEST A DISTANCE OF 36.72 FEET TO THE BEGINNING OF A CURVE CONCAVE TO THE NORTHEAST HAVING A RADIUS OF 15.00 FEET;  
THENCE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 95°18'24" AN ARC DISTANCE OF 24.95 FEET;  
THENCE NORTH 24°51'03" EAST A DISTANCE OF 43.45 FEET TO THE SOUTHEASTERLY MARGIN OF THE NATIVE GROWTH PROTECTION EASEMENT AS RECORDED UNDER AUDITOR'S FILE NUMBER 9809100644, RECORDS OF KING COUNTY WASHINGTON;  
THENCE SOUTH 80°33'09" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 8.37 FEET;  
THENCE SOUTH 47°18'42" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 26.39 FEET;  
THENCE SOUTH 40°08'40" WEST, ALONG SAID EASEMENT MARGIN A DISTANCE OF 34.44 FEET TO THE NORTHERLY MARGIN OF SAID TEMPORARY EASEMENT;  
THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 4.37 FEET;  
THENCE SOUTH 19°32'39" WEST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 8.00 FEET;

THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 75.00 FEET TO THE POINT OF BEGINNING;

TOGETHER WITH:

COMMENCING AT THE AFOREMENTIONED POINT 'A';  
THENCE NORTH 70°27'21" WEST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 113.30 FEET;  
THENCE NORTH 00°47'43" EAST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 5.28 FEET TO THE WESTERLY MARGIN OF SAID TEMPORARY EASEMENT AND THE POINT OF BEGINNING;  
THENCE NORTH 19°32'39" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 15.00 FEET;  
THENCE SOUTH 70°27'21" EAST, ALONG SAID TEMPORARY EASEMENT MARGIN A DISTANCE OF 0.77 FEET TO THE WESTERLY MARGIN OF SAID NATIVE GROWTH PROTECTION EASEMENT;  
THENCE NORTH 16°51'38" EAST ALONG SAID EASEMENT MARGIN A DISTANCE OF 5.53 FEET;  
THENCE NORTH 07°25'36" WEST ALONG SAID EASEMENT MARGIN A DISTANCE OF 10.87 FEET;  
THENCE SOUTH 29°21'32" WEST A DISTANCE OF 30.66 FEET TO SAID RIGHT-OF-WAY MARGIN;  
THENCE SOUTH 70°27'21" EAST ALONG SAID RIGHT-OF-WAY MARGIN A DISTANCE OF 9.64 FEET TO THE POINT OF BEGINNING.

CONTAINING 1,849 SQUARE FEET OR 0.04 ACRES, MORE OR LESS.



PROJECT PARCEL NO. 46  
PARCEL TAX IDENTIFICATION NO. 752557-0220  
TEMPORARY EASEMENT DESCRIPTION

THAT PORTION OF TRACT A, OF THE PLAT OF SAMMAMISH PLACE, ACCORDING TO THE PLAT RECORDED IN VOLUME 127 OF PLATS, PAGE 32-34, RECORDS OF KING COUNTY WASHINGTON, EXCEPT THE PORTION DEEDED FOR ROAD PURPOSES UNDER RECORDING NO. 20170425000570 RECORDS OF KING COUNTY; DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTHERLY CORNER OF SAID LOT;  
THENCE SOUTH 70°27'21" EAST ALONG THE SOUTH RIGHT-OF-WAY MARGIN OF WEST LAKE SAMMAMISH PARKWAY A DISTANCE OF 29.27 FEET;  
THENCE SOUTH 33°04'36" WEST A DISTANCE OF 8.89 FEET; TO THE BEGINNING OF CURVE CONCAVE TO THE NORTHWEST HAVING A RADIUS OF 75.00 FEET;  
THENCE ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 26°03'29" A DISTANCE OF 34.11 FEET;  
THENCE SOUTH 59°08'05" WEST A DISTANCE OF 25.32 FEET;  
THENCE NORTH 50°12'03" WEST A DISTANCE OF 16.40 FEET TO THE NORTHWEST LINE OF SAID TRACT A;  
THENCE NORTH 39°47'57" EAST A DISTANCE OF 56.20 FEET; TO THE POINT OF BEGINNING.

CONTAINING 1,539 SQUARE FEET OR 0.04 ACRES, MORE OR LESS.

mark,groot 02/15/19 6:33am - L: 2014|14-097 HDR LAKE HILLS SEWER Office|08 CAD|Exhibits|14-097 - Vodari - 752557-0220 - Temp.dwg

DATE: 2/15/19



**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY	
Date received:	_____
Agency reference #:	_____
Tax Parcel #(s):	_____ _____ _____
TO BE COMPLETED BY APPLICANT <a href="#">[help]</a>	
Project Name: <u>Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade</u>	
Location Name (if applicable): <u>Wetland O</u>	

**Attachment B:**  
**For additional project location(s)** [\[help\]](#)

Use this attachment only if you have more than one project location.

Use a separate form for each additional location.

**Vicinity of Wetland O**

Use black or blue ink to enter answers in white spaces below.

<b>1. Indicate the type of ownership of the property. (Check all that apply.)</b> <a href="#">[help]</a>			
<input checked="" type="checkbox"/> Private			
<input type="checkbox"/> Federal			
<input type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.)			
<input type="checkbox"/> Tribal			
<input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>2. Street Address</b> (Cannot be a PO Box. If there is no address, provide other location information in 16) <a href="#">[help]</a>			
17703 NE 34th Street and 3315 178th Avenue NE			
<b>3. City, State, Zip</b> (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Redmond, WA 98052			
<b>4. County</b> <a href="#">[help]</a>			
King			
<b>5. Provide the section, township, and range for the project location.</b> <a href="#">[help]</a>			
<b>¼ Section</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
NE ¼	24	25 N	05 E
<b>6. Provide the latitude and longitude of the project location.</b> <a href="#">[help]</a>			
• Example: 47.03922 N lat. / -122.89142 W long (Use decimal degrees - NAD 83)			
47.639871 N lat. / -122.103637 W long			
<b>7. List the tax parcel number(s) for the project location.</b> <a href="#">[help]</a>			
• The local county assessor's office can provide this information.			
Parcels 8965010160 and 8965000170			

**8.** Contact information for all adjoining property owners. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
Philippe Michael	17709 NE 34th Street Redmond, WA 98052	8965010150
William & Jennifer Wilcox	3321 178th Avenue NE Redmond, WA 98052	8965000180
Leo Poort	3320 177th Avenue NE Redmond, WA 98052	8965000160

**9.** List all wetlands on or adjacent to the project location. [\[help\]](#)

Wetland O is within the project area.

**10.** List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

There are no waterbodies other than wetlands within or adjacent to the project area.

**11.** Is any part of the project area within a 100-year flood plain? [\[help\]](#)

☐ Yes   ☒ No   ☐ Don't know

**12.** Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

Wetland O is a Category IV depressional wetland in a residential lawn near the intersection of NE 34th Street and 177th Avenue NE within the City of Redmond. Wetland O provides low habitat functions at the site because it is a mowed lawn with no interspersions of habitat or special habitat features. The surrounding landscape has a low potential to support habitat functions at the wetland because accessible and relatively undisturbed habitat is not available in the surrounding urban area.

**13.** Describe how the property is currently used. [\[help\]](#)

The properties are used as single-family residential including homes and yards. The wetland area is currently used as lawn associated with two single-family residences.

**14.** Describe how the adjacent properties are currently used. [\[help\]](#)

Adjacent properties are in use as single-family residential.

**15.** Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

Above-ground structures on the properties include associated single-family residences. Below-ground utilities are present.

**16.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From State Route (SR) 520, take the West Lake Sammamish Parkway NE exit. Head south on West Lake Sammamish Parkway NE. Turn right onto NE 36th Street. Turn left onto 177th Avenue NE. Turn left onto NE 33rd Street. Turn left onto 178th Avenue NE. Wetland O is in the backyard of two residences located at 17703 NE 34th Street and 3315 178th Avenue NE. See Sheets 1 and 13 for more information.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-013 rev. 10/2016

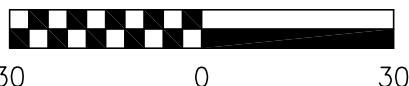
PROJECT PARCEL NO. 8  
PARCEL TAX IDENTIFICATION NO. 896500-0170  
PERMANENT EASEMENT DESCRIPTION

THAT PORTION OF LOT 17, VUELAKE NO 1, ACCORDING TO THE PLAT RECORDED IN VOLUME 82 OF PLATS, PAGES 11 AND 12, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 17;  
THENCE SOUTH 0°58'41" WEST ALONG THE WEST LINE OF SAID LOT 17 A DISTANCE OF 0.77 FEET TO THE SOUTH MARGIN OF THE LAKE HILLS UTILITY EASEMENT RECORDED UNDER AUDITOR'S FILE NUMBER 5404416, RECORDS OF KING COUNTY WASHINGTON AND THE POINT OF BEGINNING;  
THENCE CONTINUING SOUTH 0°58'41" WEST ALONG THE WEST LINE OF SAID LOT 17 A DISTANCE OF 4.23 FEET;  
THENCE SOUTH 87°37'17" EAST A DISTANCE OF 82.50 FEET TO THE EAST LINE OF SAID LOT 17;  
THENCE NORTH 31°19'01" WEST ALONG SAID EAST LINE A DISTANCE OF 3.29 FEET TO SAID SOUTH MARGIN;  
THENCE NORTH 86°33'32" WEST ALONG SAID SOUTH MARGIN A DISTANCE OF 80.79 FEET TO THE POINT OF BEGINNING.

CONTAINING 284 SQUARE FEET OR 0.01 ACRES, MORE OR LESS.





PERMANENT EASEMENT  
AREA  
(284 SQ FT - 0.01 AC)

DATE: 11/06/17

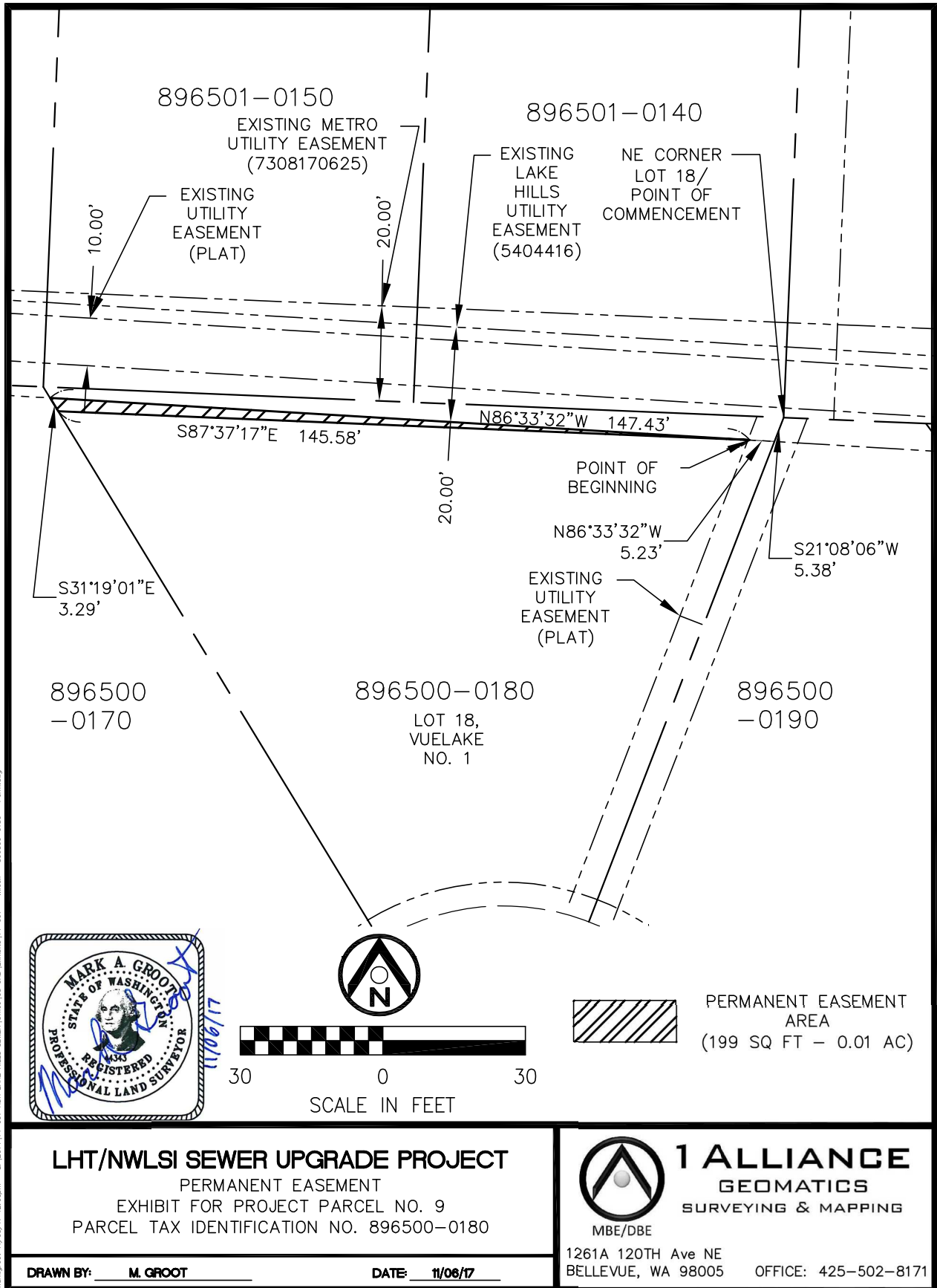
mark.groot 11/03/17 11:51am - L: 2014 | 14-097 HDR LAKE HILLS SEWER | Office | 08 CAD | Exhibits | 14-097 - Rosenwald\_896500-0170 - Perm.dwg

PROJECT PARCEL NO. 9  
PARCEL TAX IDENTIFICATION NO. 896500-0180  
PERMANENT EASEMENT DESCRIPTION

THAT PORTION OF LOT 18, VUELAKE NO 1, ACCORDING TO THE PLAT RECORDED IN VOLUME 82 OF PLATS, PAGES 11 AND 12, RECORDS OF KING COUNTY WASHINGTON; DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 18;  
THENCE SOUTH 21°08'06" WEST ALONG THE EAST LINE OF SAID LOT 18 A DISTANCE OF 5.38 FEET TO THE SOUTH MARGIN OF THE LAKE HILLS UTILITY EASEMENT RECORDED UNDER AUDITOR'S FILE NUMBER 5404416, RECORDS OF KING COUNTY WASHINGTON;  
THENCE NORTH 86°33'32" WEST ALONG SAID SOUTH MARGIN A DISTANCE OF 5.23 FEET TO THE POINT OF BEGINNING;  
THENCE CONTINUING NORTH 86°33'32" WEST ALONG SAID MARGIN A DISTANCE OF 147.43 FEET TO THE WEST LINE OF SAID LOT 18;  
THENCE SOUTH 31°19'01" EAST ALONG SAID WEST LINE A DISTANCE OF 3.29 FEET;  
THENCE SOUTH 87°37'17" EAST A DISTANCE OF 145.58 FEET TO THE POINT OF BEGINNING;

CONTAINING 199 SQUARE FEET OR 0.01 ACRES, MORE OR LESS.





**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY	
Date received: _____	
Agency reference #: _____	
Tax Parcel #(s): _____	
_____	
_____	
TO BE COMPLETED BY APPLICANT <a href="#">[help]</a>	
Project Name: <u>Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade</u>	
Location Name (if applicable): <u>Wetland N</u>	

**Attachment B:**  
**For additional project location(s)** [\[help\]](#)

Use this attachment only if you have more than one project location.

Use a separate form for each additional location.

**Vicinity of Wetland N**

Use black or blue ink to enter answers in white spaces below.

<b>1. Indicate the type of ownership of the property. (Check all that apply.)</b> <a href="#">[help]</a>			
<input checked="" type="checkbox"/> Private			
<input type="checkbox"/> Federal			
<input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.)			
<input type="checkbox"/> Tribal			
<input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>2. Street Address</b> (Cannot be a PO Box. If there is no address, provide other location information in 16) <a href="#">[help]</a>			
No Street Address; Wetland N is located on the hillside of the ravine associated with Brae Burn Creek, south of NE 24th Street within the City of Redmond (see #16).			
<b>3. City, State, Zip</b> (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Redmond, WA 98052			
<b>4. County</b> <a href="#">[help]</a>			
King			
<b>5. Provide the section, township, and range for the project location.</b> <a href="#">[help]</a>			
<b>¼ Section</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
NE ¼	25	25 N	05 E
<b>6. Provide the latitude and longitude of the project location.</b> <a href="#">[help]</a>			
• Example: 47.03922 N lat. / -122.89142 W long (Use decimal degrees - NAD 83)			
47.630599 N lat. / -122.102772 W long			
<b>7. List the tax parcel number(s) for the project location.</b> <a href="#">[help]</a>			
• The local county assessor's office can provide this information.			
Parcels 0267020220, 9329600010, 9329600020, 9329600030, 9329600040, and 0267020090			

**8.** Contact information for all adjoining property owners. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
Stephen Giff	17769 NE 24th Street	2525059172
	Redmond, WA 98052	
Traci & Vladan Jovanovic	17747 NE 24th Street	2525059153
	Redmond, WA 98052	
Andrew & Kerry Hill	17711 NE 24th Street	2525059087
	Redmond, WA 98052	
Alan Post & Lisa Chaki	2225 177th Place NE	0267020100
	Redmond, WA 98052	
Shuo-Hsien Hsiao	2217 179th Avenue NE	9329600050
	Redmond, WA 98052	
Paul & Susan Novotne	2210 177th Place NE	0267020080
	Redmond, WA 98052	

**9.** List all wetlands on or adjacent to the project location. [\[help\]](#)

Wetland N is within the project area.

**10.** List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

Brae Burn Creek is located near the project area, to the east.

**11.** Is any part of the project area within a 100-year flood plain? [\[help\]](#)

☐ Yes   ☒ No   ☐ Don't know

**12.** Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

Wetland N is a slope wetland located along the west side of the ravine containing Brae Burn Creek. The wetland contains Himalayan blackberry, creeping buttercup, and giant horsetail, black cottonwood, red alder, and Pacific willow. Wetland N provides moderate habitat functions at the site. The wetland vegetation is composed of forested, scrub-shrub, and emergent communities, with the forested areas composed of multiple strata. The wetland provides habitats that are moderately interspersed with the vegetation classes, providing structure and diversity throughout the site that support wildlife. In addition, special habitat features provide habitat including snags and downed large woody material.

**13.** Describe how the property is currently used. [\[help\]](#)

The property is currently undeveloped (Parcel 0267020220, which is owned by King County Property Services), and contains portions of backyards associated with single-family residences.

**14.** Describe how the adjacent properties are currently used. [\[help\]](#)

Adjacent properties are in use as single-family residential.

**15.** Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

Above-ground structures include nearby single-family residences; there are no structures within the project area. Below-ground utilities are present throughout the project area.

**16.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

From SR 520, take the West Lake Sammamish Parkway NE exit and drive south along West Lake Sammamish Parkway NE. Turn right onto 180th Avenue NE. Turn right onto NE 24th Street. The project area is located on the south side of NE 24th Street, approximately 280 feet west of the intersection with 179th Avenue NE. See Sheets 1 and 14 for more information.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-013 rev. 10/2016

PROJECT PARCEL NO. 25  
PARCEL TAX IDENTIFICATION NO. 932960-0010  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 1,375 SQUARE FEET OR 0.03 ACRES, MORE OR LESS.

mark.groot 11/06/17 7:29am - L: | 2014 | 14-097 HDR LAKE HILLS SEWER | Office | 08 CAD | Exhibits | 14-097 - Mithaic - 932960-0010 - Perm.dwg



PROJECT PARCEL NO. 25  
PARCEL TAX IDENTIFICATION NO. 932960-0010  
TEMPORARY EASEMENT DESCRIPTION

THE EAST 18 FEET OF THE WEST 30 FEET OF LOT 1, WETHERSFIELD NORTH, ACCORDING TO THE PLAT RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 2,061 SQUARE FEET OR 0.05 ACRES, MORE OR LESS.

**NE 24TH ST**

EXISTING SLOPE EASEMENT (PLAT)

UTILITY EASEMENT (8112170505)

15.00'

7.00'

18.00'

30.00'

2.50'

UTILITY EASEMENT (8112170505)

**LOT 1, WETHERSFIELD NORTH**  
**932960-0010**

**932960-0020**

026702-0220

MARK A. GROOT  
STATE OF WASHINGTON  
REGISTERED  
PROFESSIONAL LAND SURVEYOR  
11/06/17

30 0 30  
SCALE IN FEET

TEMPORARY EASEMENT AREA  
(2,061 SQ FT - 0.05 AC)

**LHT/NWLSI SEWER UPGRADE PROJECT**  
TEMPORARY CONSTRUCTION EASEMENT  
EXHIBIT FOR PROJECT PARCEL NO. 25  
PARCEL TAX IDENTIFICATION NO. 932960-0010

**1 ALLIANCE**  
GEOMATICS  
SURVEYING & MAPPING  
MBE/DBE  
1261A 120TH Ave NE  
BELLEVUE, WA 98005  
OFFICE: 425-502-8171

DRAWN BY: M. GROOT DATE: 11/06/17

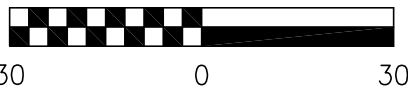
UTILITY EASEMENT  
(8112170505)

026702-0220

**LOT 1,  
WETHERSFIELD  
NORTH  
932960-0010**

UTILITY EASEMENT  
(8112170505)

**932960-0020**



SCALE IN FEET



TEMPORARY EASEMENT  
AREA  
(2,061 SQ FT – 0.05 AC)

# LHT/NWLSI SEWER UPGRADE PROJECT

TEMPORARY CONSTRUCTION EASEMENT  
EXHIBIT FOR PROJECT PARCEL NO. 25  
PARCEL TAX IDENTIFICATION NO. 932960-0010



**1 ALLIANCE**  
GEOMATICS  
SURVEYING & MAPPING

MBE/DBE

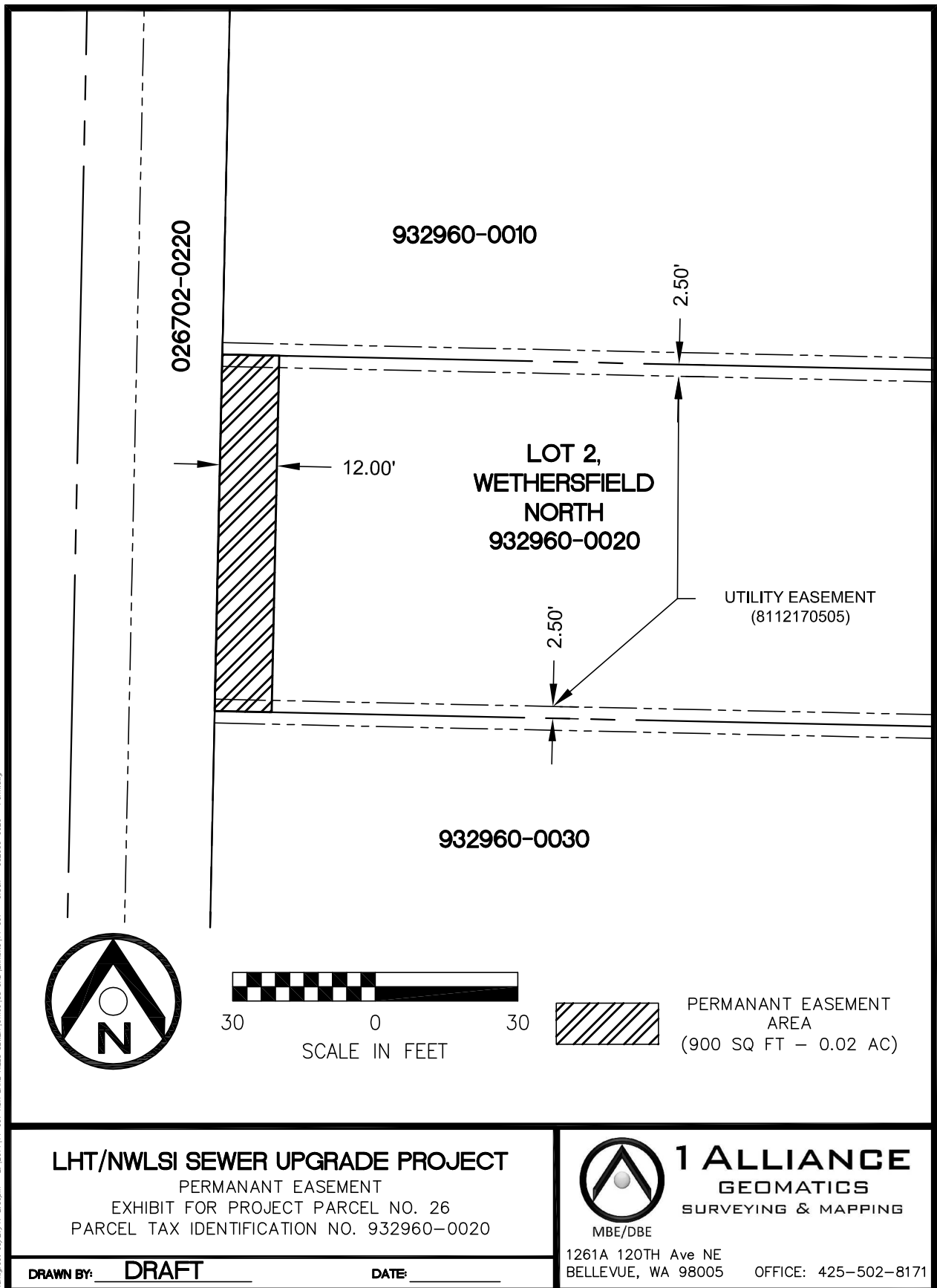
1261A 120TH Ave NE  
BELLEVUE, WA 98005

OFFICE: 425-502-8171

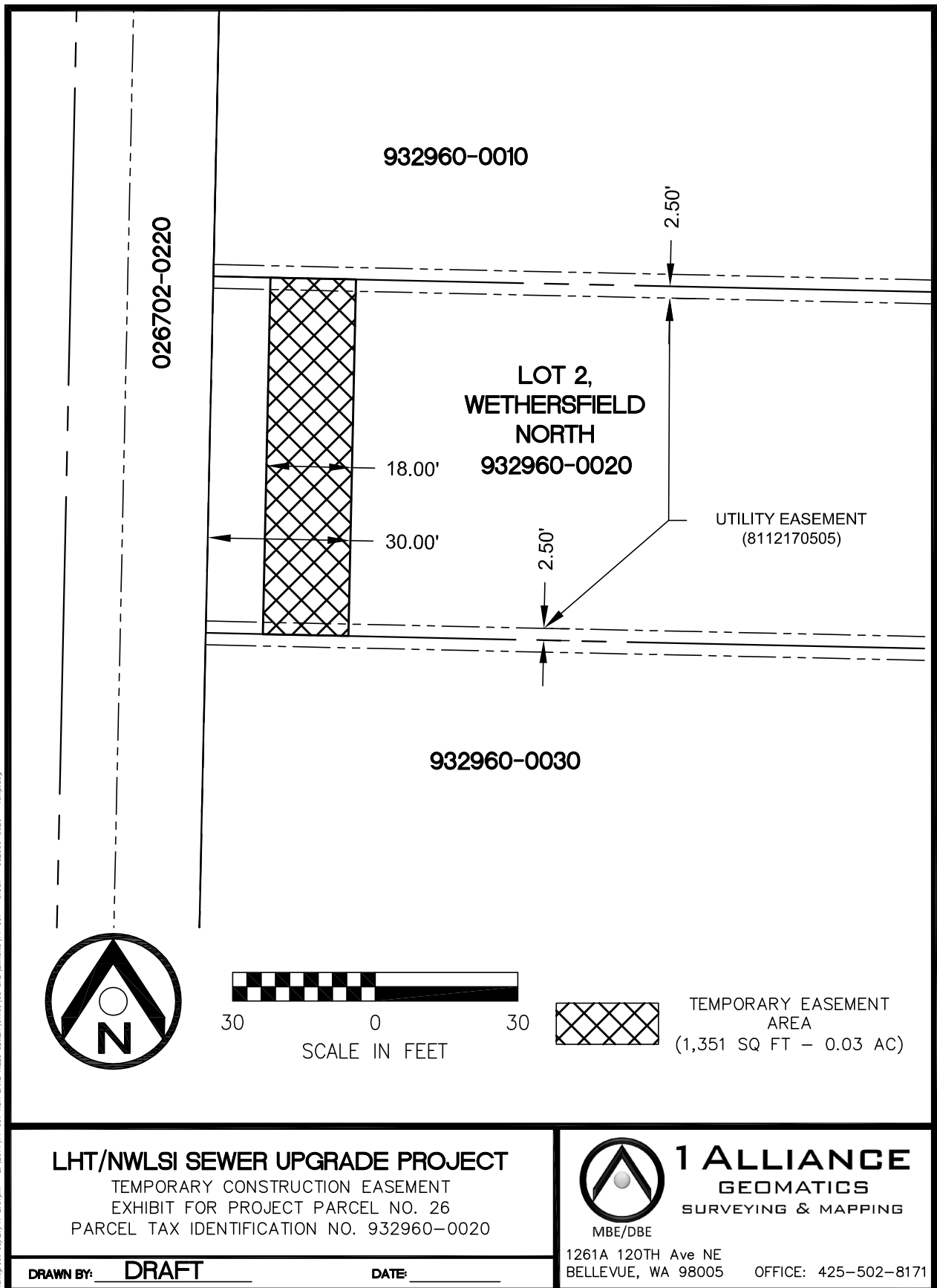
**DRAWN BY:** M. GROOT

**DATE:** 11/06/17

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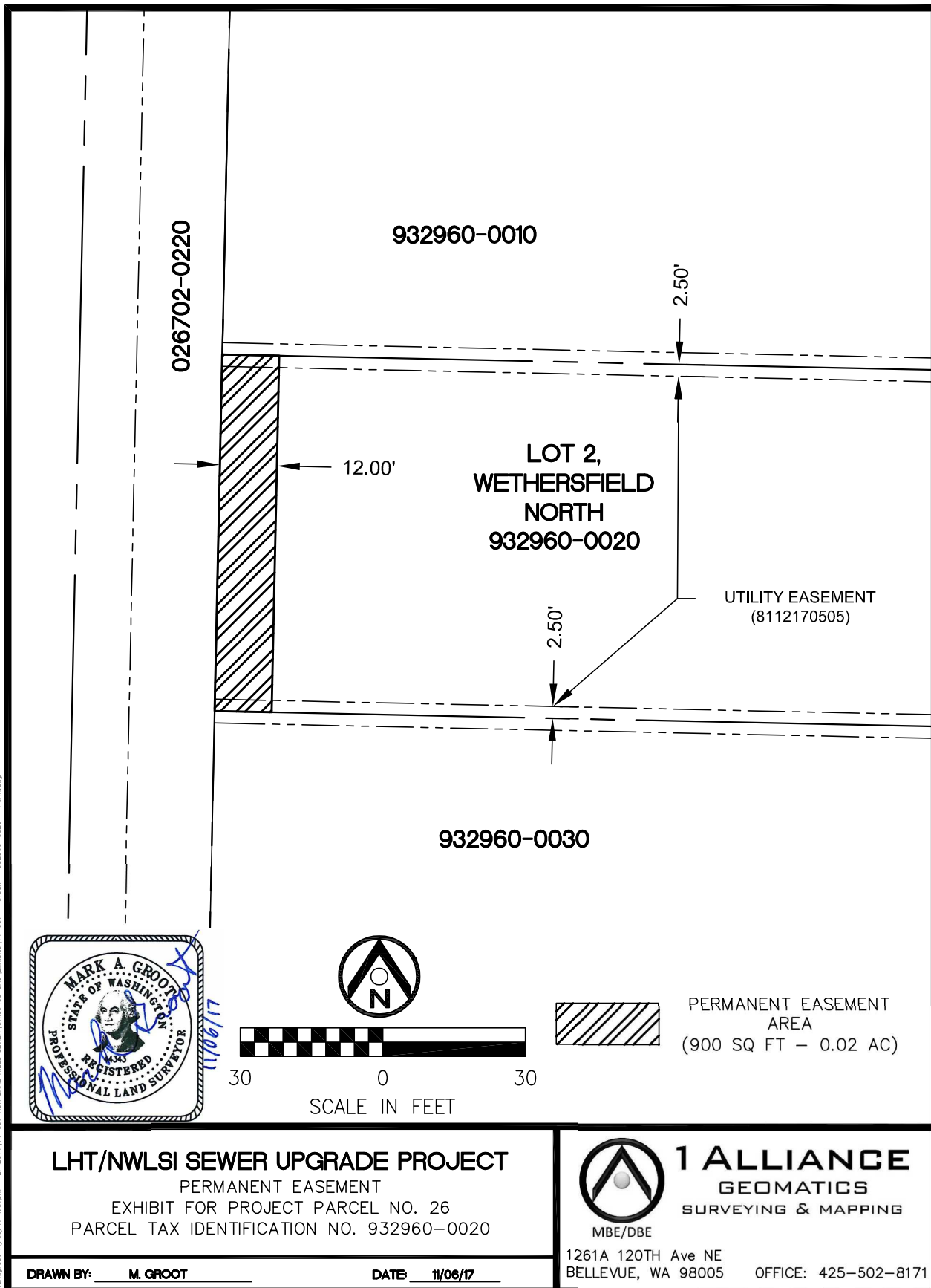


PROJECT PARCEL NO. 26  
PARCEL TAX IDENTIFICATION NO. PARCEL 932960-0020  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 2, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

mark.dgroot 1/10/17 1:23pm - G:\2017\14-007 NWLSI SEWER UPGRADE\14-007 - Urban - 932960-0020 - Permit.dwg

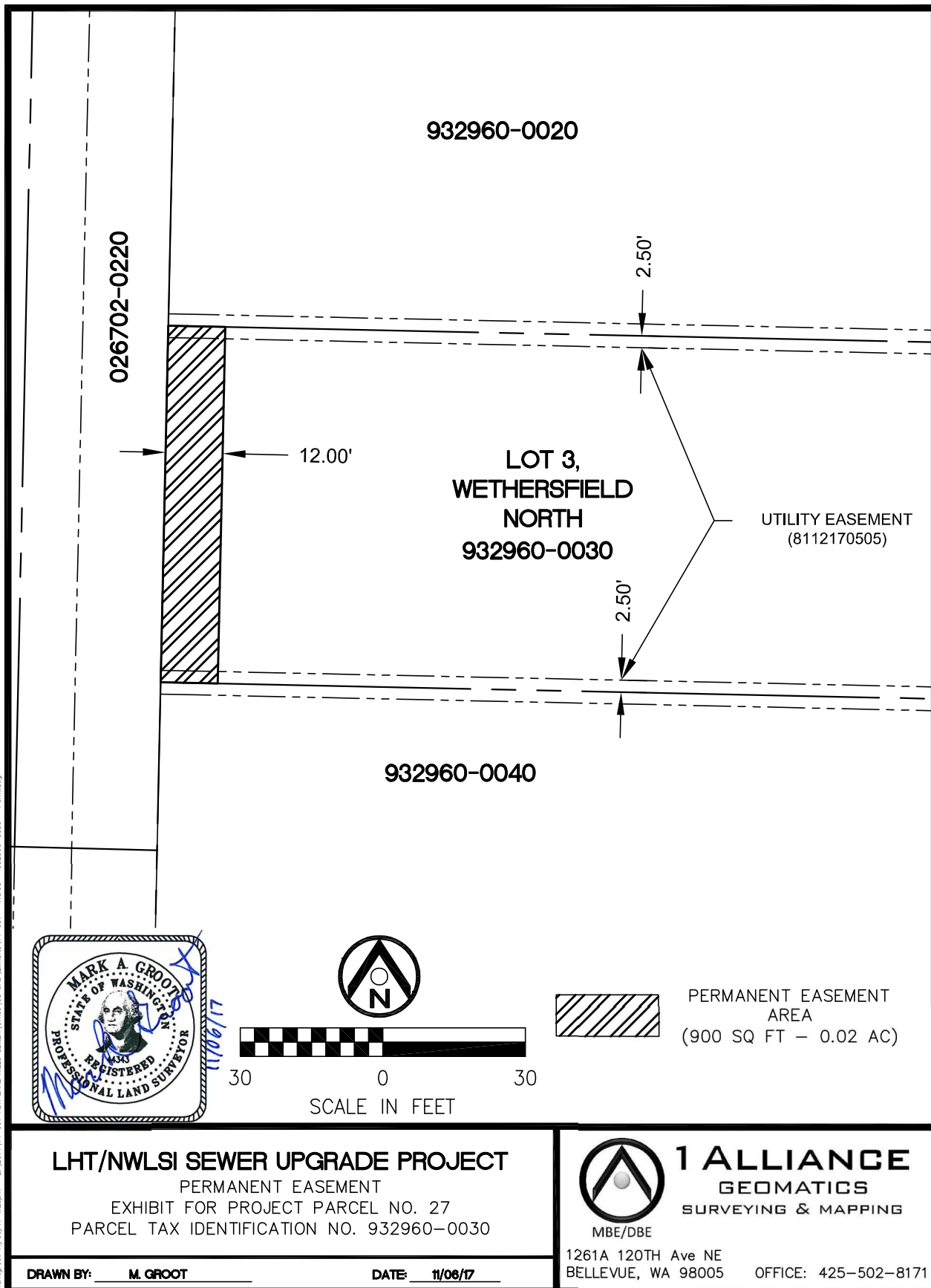


PROJECT PARCEL NO. 27  
PARCEL TAX IDENTIFICATION NO. PARCEL 932960-0030  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 3, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

mark.dwg 1/10/17 1:28pm - G:\2017\14-007 NWLSI SEWER UPGRADE\14-007 - Permit - 932960-0030 - Permit.dwg



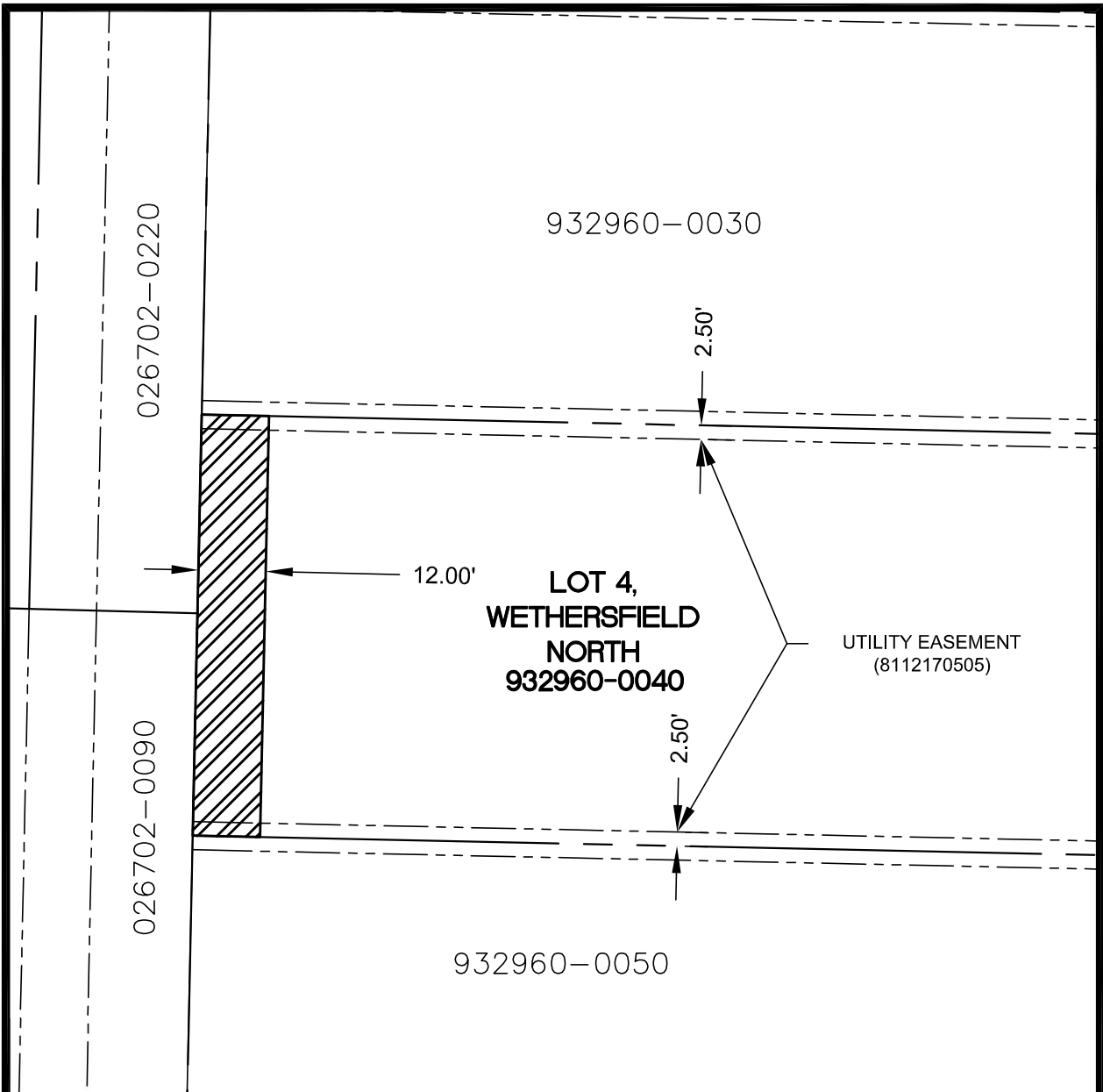


PROJECT PARCEL NO. 28  
PARCEL TAX IDENTIFICATION NO. 932960-0040  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 4, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.

mark.dwg 11/06/17 1:24pm - G:\2017\14-007 NWSE LANE MILLS SEWER (000s) (00 CAD) Exhibit 14-007 - Kennedy - 932960-0040 - Permit.dwg



SCALE IN FEET



PERMANENT EASEMENT  
AREA  
(900 SQ FT - 0.02 AC)

## LHT/NWLSI SEWER UPGRADE PROJECT

PERMANENT EASEMENT  
EXHIBIT FOR PROJECT PARCEL NO. 28  
PARCEL TAX IDENTIFICATION NO. 932960-0040



**1 ALLIANCE**  
GEOMATICS  
SURVEYING & MAPPING

MBE/DBE

1261A 120TH Ave NE  
BELLEVUE, WA 98005

OFFICE: 425-502-8171

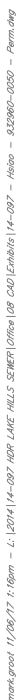
DRAWN BY: M. GROOT

DATE: 11/06/17

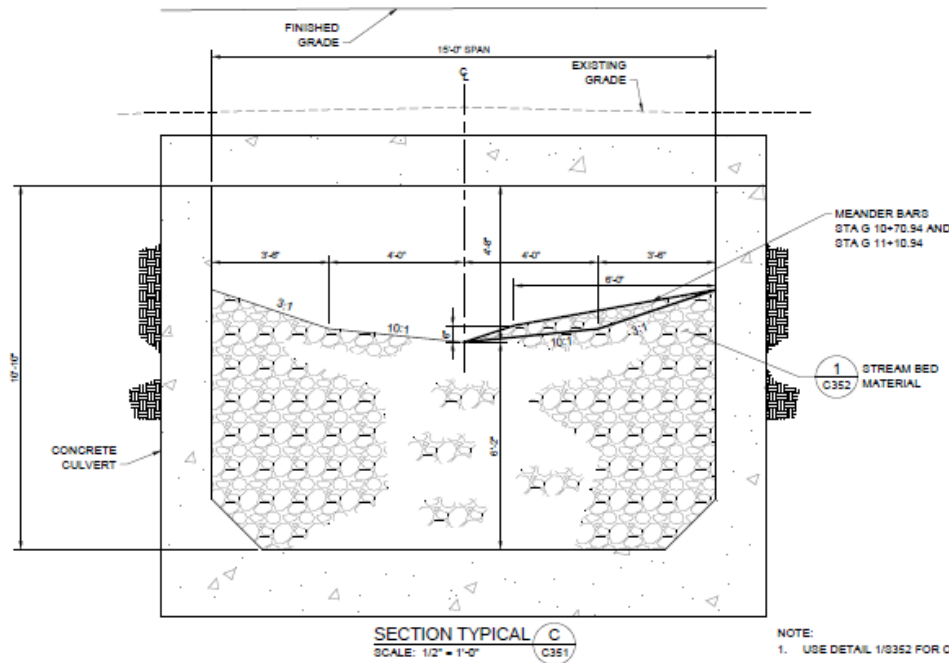
PROJECT PARCEL NO. 29  
PARCEL TAX IDENTIFICATION NO. 932960-0050  
PERMANENT EASEMENT DESCRIPTION

THE WEST 12 FEET OF LOT 5, WETHERSFIELD NORTH, ACCORDING TO THE PLAT  
RECORDED IN VOLUME 121 OF PLATS, PAGES 04 AND 05, RECORDS OF KING COUNTY.

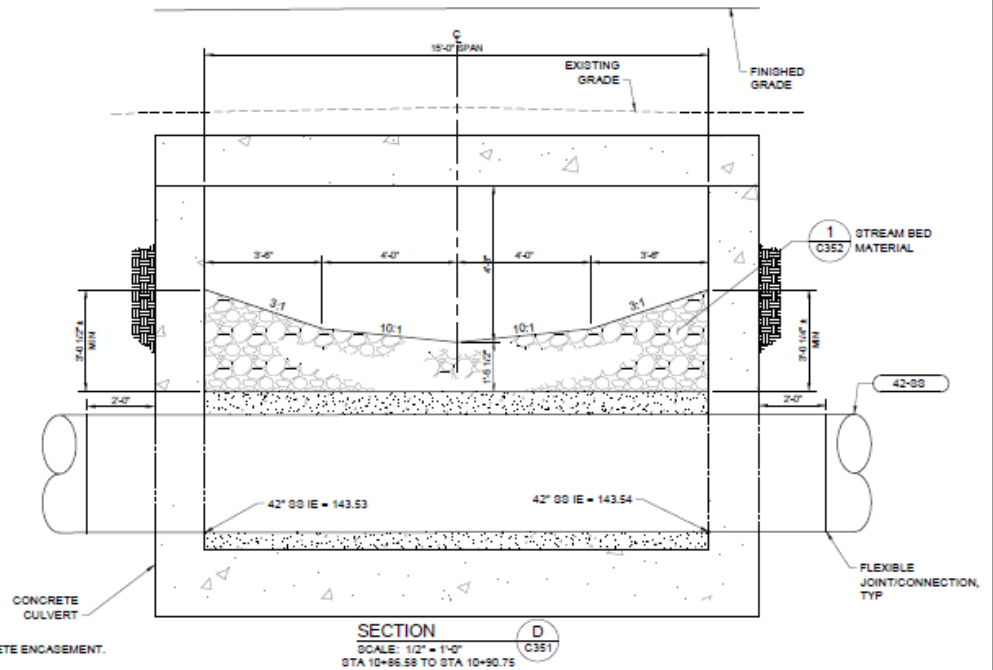
CONTAINING 900 SQUARE FEET OR 0.02 ACRES, MORE OR LESS.



OFFICE: 425-502-8171



NOTE:  
1. USE DETAIL 1/3352 FOR CONCRETE ENCASMENT.



## Country Creek Sections and Details

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair,  
remove, or decommission parts of the existing sewer; and restoration/  
mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

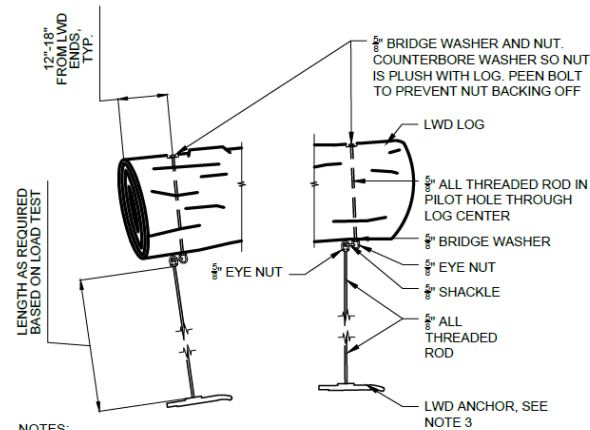
NEAR/AT: Redmond

COUNTY: King

STATE: WA

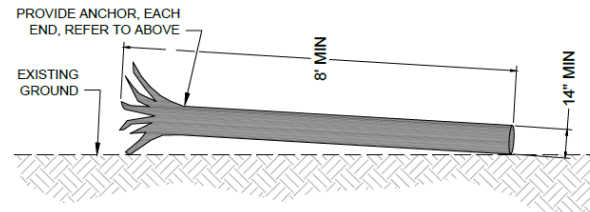
SHEET: 31 of 35

DATE: September 2022



**NOTES:**

1. LWD-BANK LOG LENGTHS SHOWN IN PLAN ARE CONCEPTUAL AND NOT BASED ON CURRENT AVAILABILITY. VARY LOG LENGTH AND DIAMETER TO NATURALIZE APPEARANCE. REFER TO DRAWINGS AND SPECIFICATIONS.
2. PLACEMENT OF LWD SHALL BE VARIED IN ORIENTATION AND SPACING TO MINIMIZE DISTURBANCE TO EXISTING TREES. ACTUAL CONFIGURATION TO BE FIELD DIRECTED BY THE PROJECT REPRESENTATIVE.
3. TWO ANCHORS PER LWD-BANK LOG. ACTUAL ORIENTATION AND LOCATION OF ANCHORS SHALL BE DIRECTED BY THE PROJECT REPRESENTATIVE



**LARGE WOODY DEBRIS (LWD)**

SCALE: NTS

4  
VARIES

**Country Creek  
Sections and Details**

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

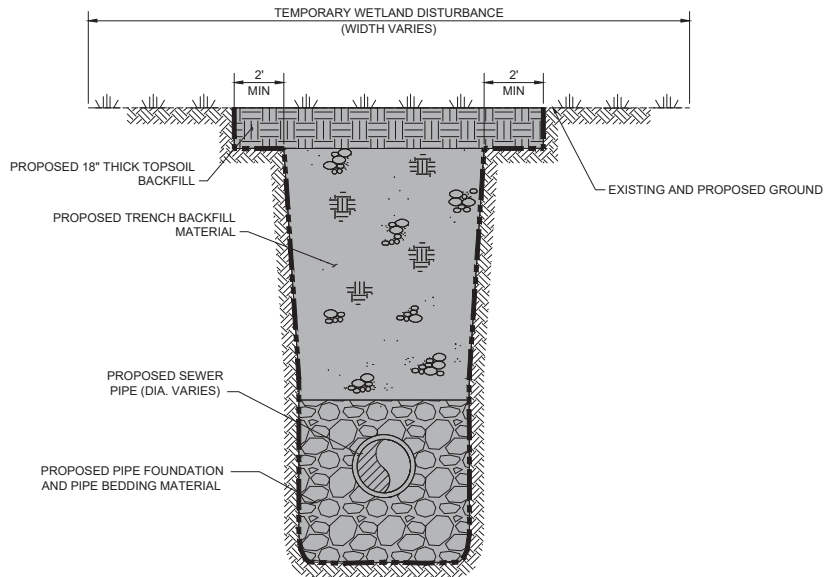
NEAR/AT: Redmond

COUNTY: King

STATE: WA

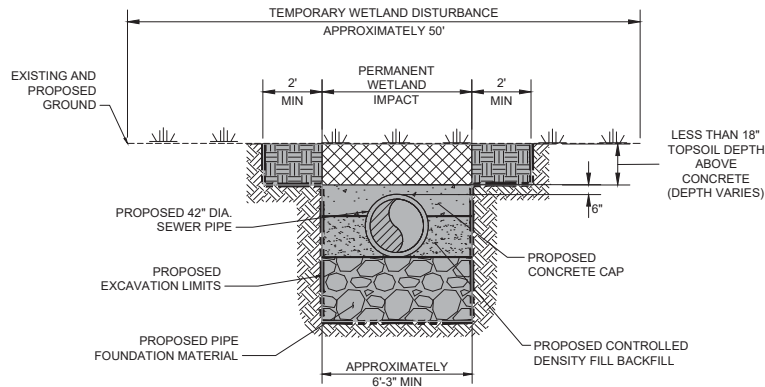
SHEET: 32 of 35

DATE: September 2022



SECTION-TYPICAL PIPE TRENCH INSTALLATION THROUGH WETLAND A  
SCALE: NTS

A



SECTION-TYPICAL PIPE TRENCH INSTALLATION THROUGH WETLAND K  
WITH LESS THAN 18" OF TOPSOIL COVER (APPROX 30 LF)  
SCALE: NTS

B

LEGEND:

----- EXISTING AND PROPOSED GROUND  
 --- PROPOSED EXCAVATION LIMITS  
 Existing Wetland Symbol:

TEMPORARY WETLAND IMPACT  
 PERMANENT WETLAND IMPACT  
 EXISTING NATIVE SOIL

PROPOSED PIPE BEDDING AND PIPE FOUNDATION MATERIAL  
 PROPOSED TOPSOIL  
 PROPOSED CONCRETE CAP

PROPOSED CONTROLLED DENSITY FILL BACKFILL

## Typical Trench Section and Concrete Cap Section (Wetland K)

REFERENCE #: NWS-2017-0533

APPLICANT:

**King County**  
 Department of Natural Resources and Parks  
 Wastewater Treatment Division  
 Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See Sheets 25-30

Lake Hills Trunk and Northwest Lake Sammamish  
 Interceptor Upgrade

LOCATION:  
 Parcels 1125059096 and 112505HYDR

Lat/Long:  
 North End: 47° 40' 42.549"/-122° 7' 55.3902"  
 South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
 repair, remove, or decommission parts of the existing sewer;  
 and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

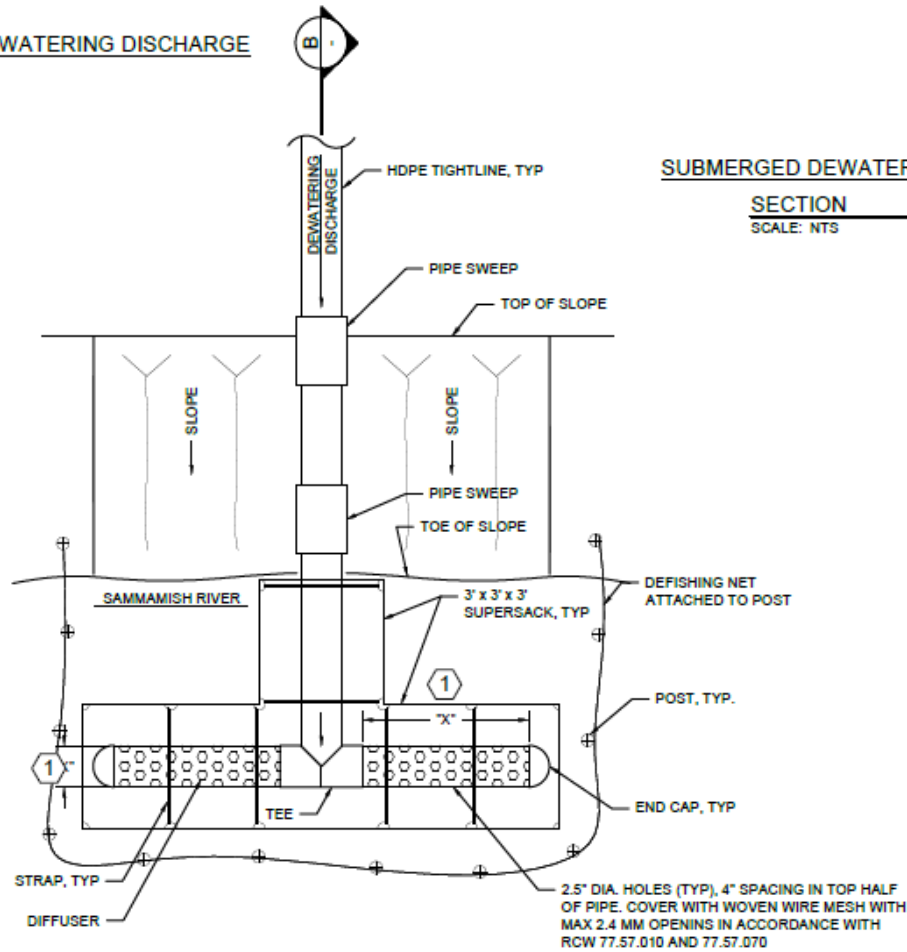
NEAR/AT: Redmond

COUNTY: King STATE: WA

SHEET: 33 of 35

DATE: September 2022

## SUBMERGED DEWATERING DISCHARGE



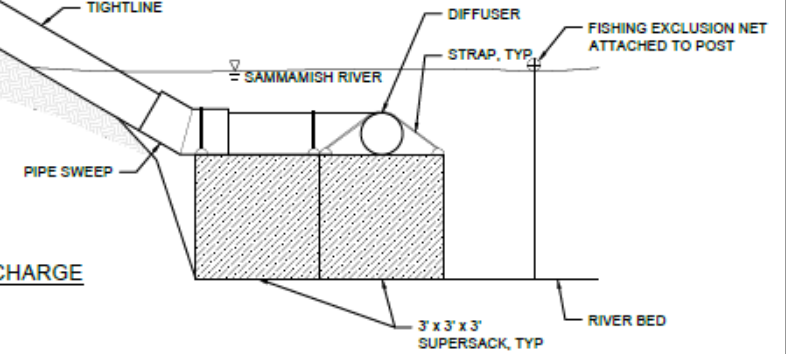
## SUBMERGED DEWATERING DISCHARGE

SECTION  
SCALE: NTS

B  
-

DETAIL  
SCALE: NTS

2  
VARIES



## Dewatering Discharge Detail

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:  
Parcels 1125059096 and 112505HYDR

Lat/Long:  
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South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

NEAR/AT: Redmond

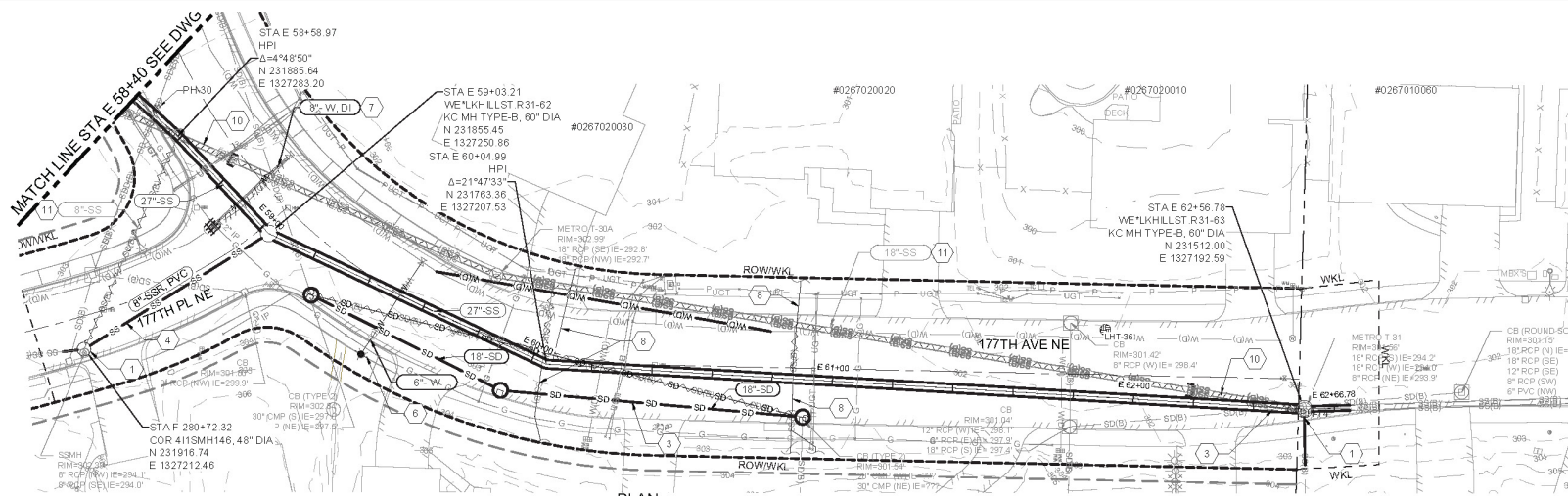
COUNTY: King

STATE: WA

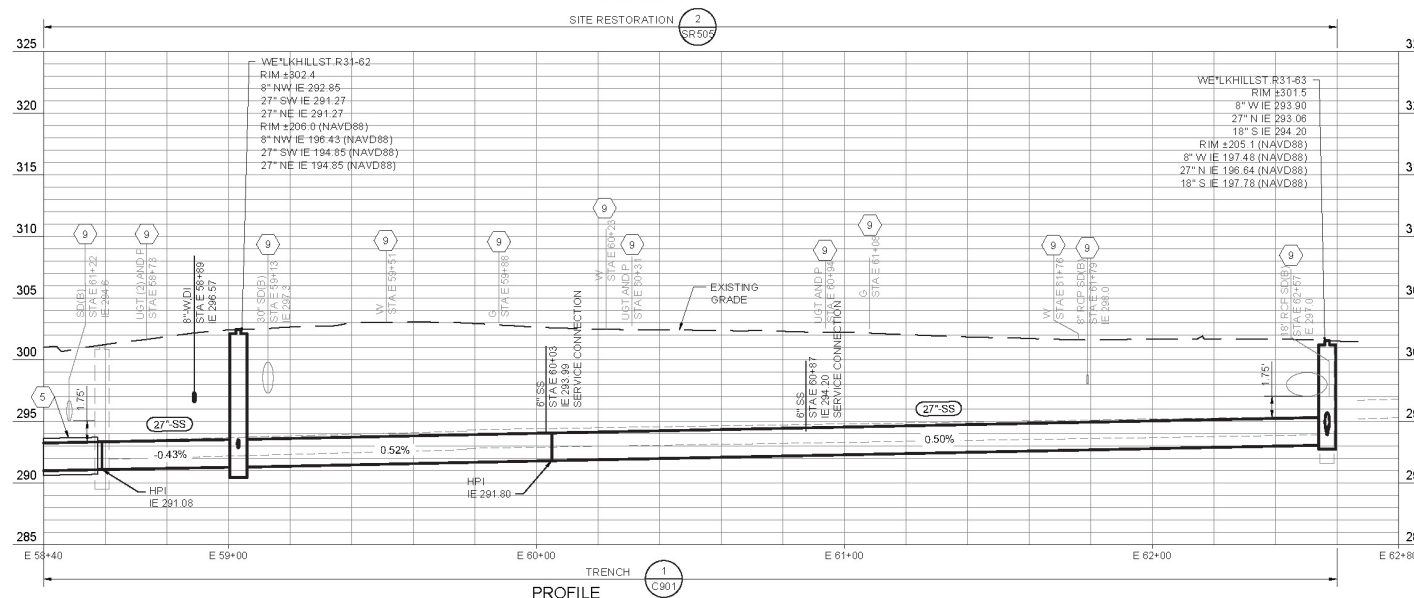
SHEET: 34 of 35

DATE: September 2022

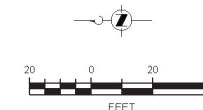




PLAN  
SCALE: 1" = 20'



PROFILE  
SCALE: 1" = 20'



#### KEY NOTES:

- 1 REMOVE EXISTING MH.
- 2 NOT USED.
- 3 CONTRACTOR TO VERIFY SD LOCATION PRIOR TO CONSTRUCTION OF MH SEE SR 506 FOR SD DESIGN.
- 4 SEE COR LAT NO. E10 ON DWG C515.
- 5 DETAIL 2/C904.
- 6 FIRE HYDRANT ASSEMBLY PER COR STD DETAIL 713.
- 7 REMOVE EXISTING AC WATER PIPE A MINIMUM OF 10 FEET EACH SIDE OF EXCAVATION AND DISPOSE OF AT AN APPROVED DISPOSAL SIGHT. VERIFY WITH CITY OF REDMOND BEFORE REMOVAL. SEGMENT 5 TRENCH REPLACE WITH 8" W AND CONNECT TO EX. 8" AC W WITH COUPLING PER DETAIL 3/C901 AND CONNECT TO EX. GATE VALVE. SEE WATER MAIN E9 REPLACEMENT PROFILE E9/C547.
- 8 LOCATE EXISTING 6" SSS AND CONNECT TO 27" SS.
- 9 PROTECT EXISTING UTILITY.
- 10 REMOVE EXISTING 18" SS.
- 11 ABANDON EXISTING 8" AND 18" SS.

#### NOTES:

1. INVERT ELEVATIONS REPRESENT PIPE ELEVATIONS AT CENTER OF MH UNLESS OTHERWISE NOTED.
2. FINAL GRADE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
3. ALLOWABLE PIPE MATERIALS FOR KC PIPE ARE FRP AND SOLID WALL PVC.

#### ORIGIN SURVEY BASEMAP:

1. AERIAL TOPOGRAPHIC MAPPING BY MILLER CREEK ASSOCIATES
2. SUPPLEMENTAL TOPOGRAPHIC MAPPING AND UTILITY LOCATIONS BY 1ALLIANCE GEOMATICS.

#### DATUM:

NAVD88 = (METRO DATUM) - 96.42 FT

## Brae Burn Creek Plan and Profile Detail

REFERENCE: (To be filled out by USACE)

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
**Wastewater Treatment Division**  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:  
Parcels 1125059096 and 112505HYDR  
Lat/Long:  
North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"  
DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

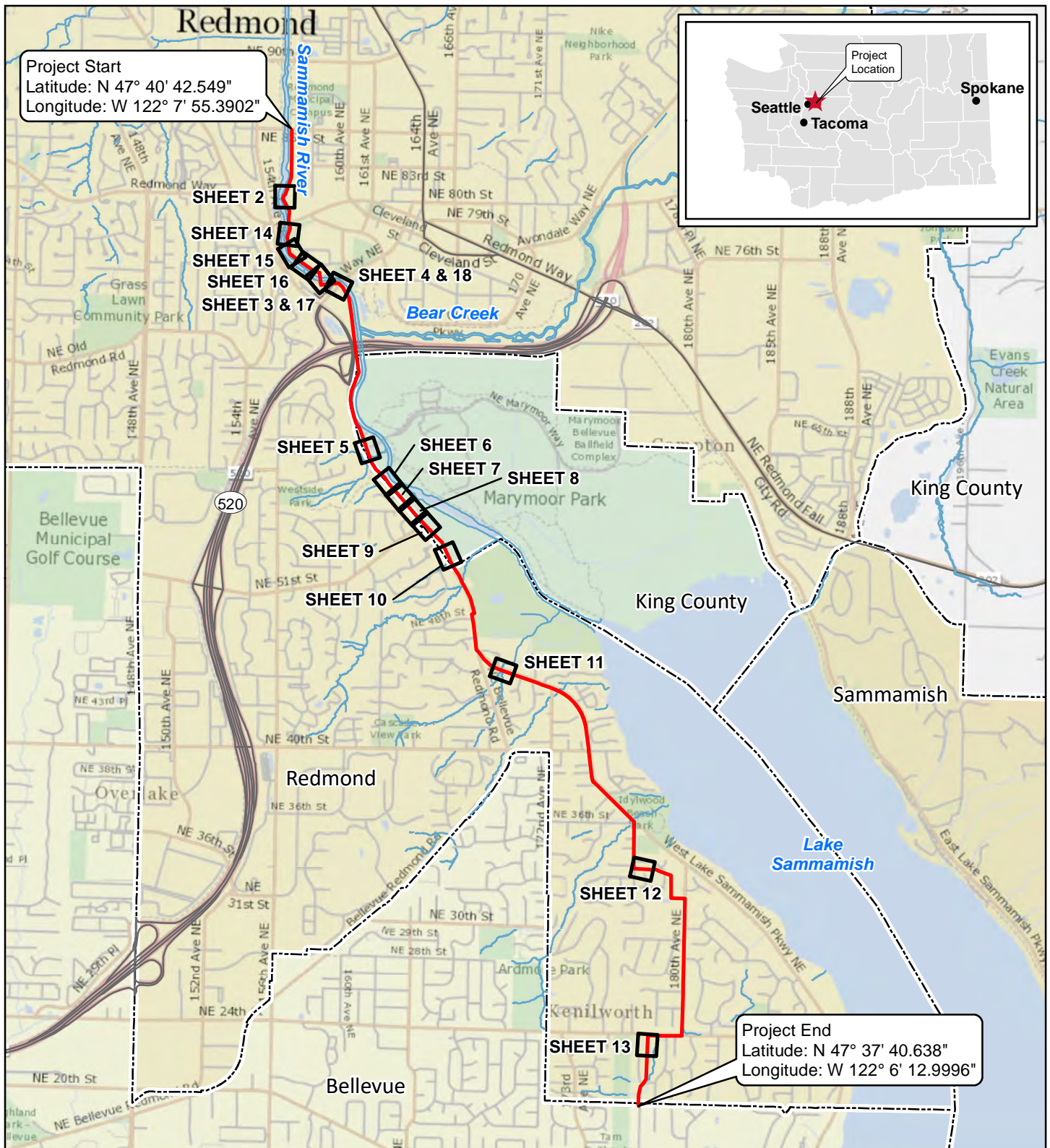
IN: Sammamish River and Wetland E affected areas only  
NEAR/AT: Redmond

NEAR/AT: Redmond  
COUNTY: King

STATE: WA

SHEET: 35 of 35

DATE: September 2022



0 1,000 2,000  
Feet

#### Legend

- Project Alignment
- Stream
- Municipal Boundary

#### Project Vicinity/Overview

REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

**PROPOSED PROJECT:** Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

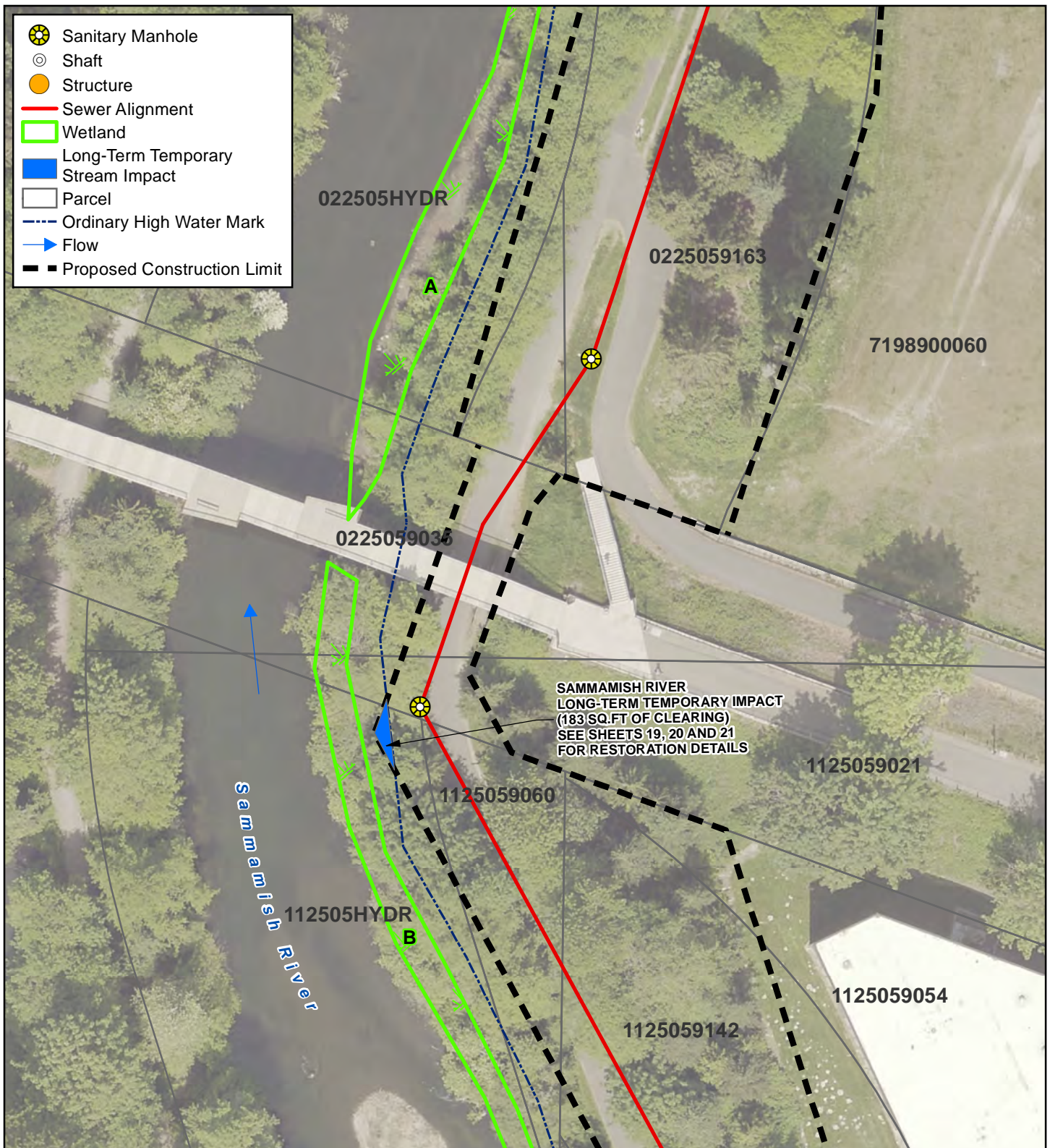
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STATE: WA

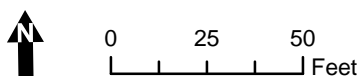
SHEET: 1 of 35

DATE: March 2023





**Sammamish River - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

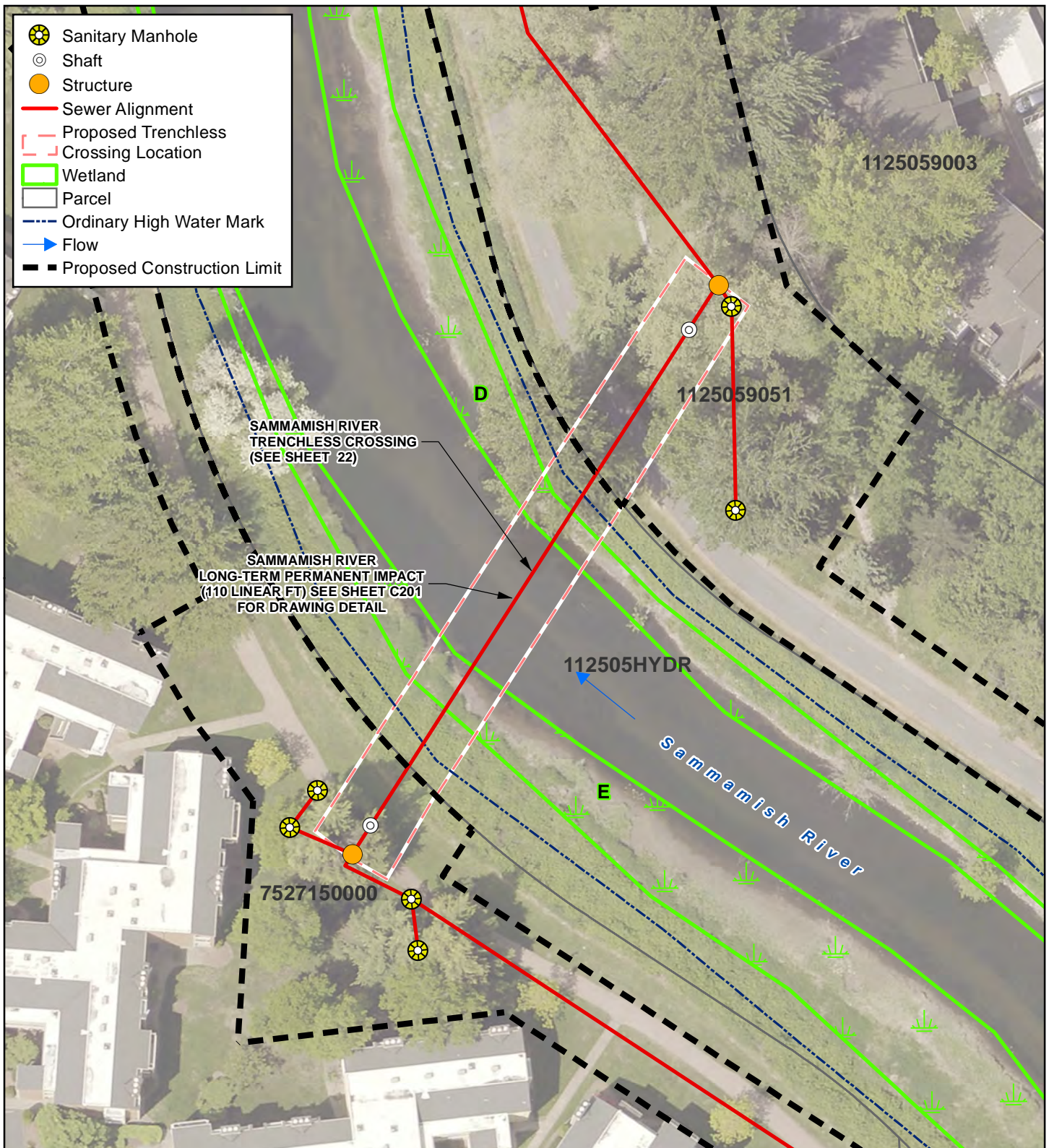
COUNTY: King

STATE: WA

SHEET: 2 of 35

DATE: March 2023





**Sammamish River Crossing - Plan View**

REFERENCE #:

APPLICANT:



**King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

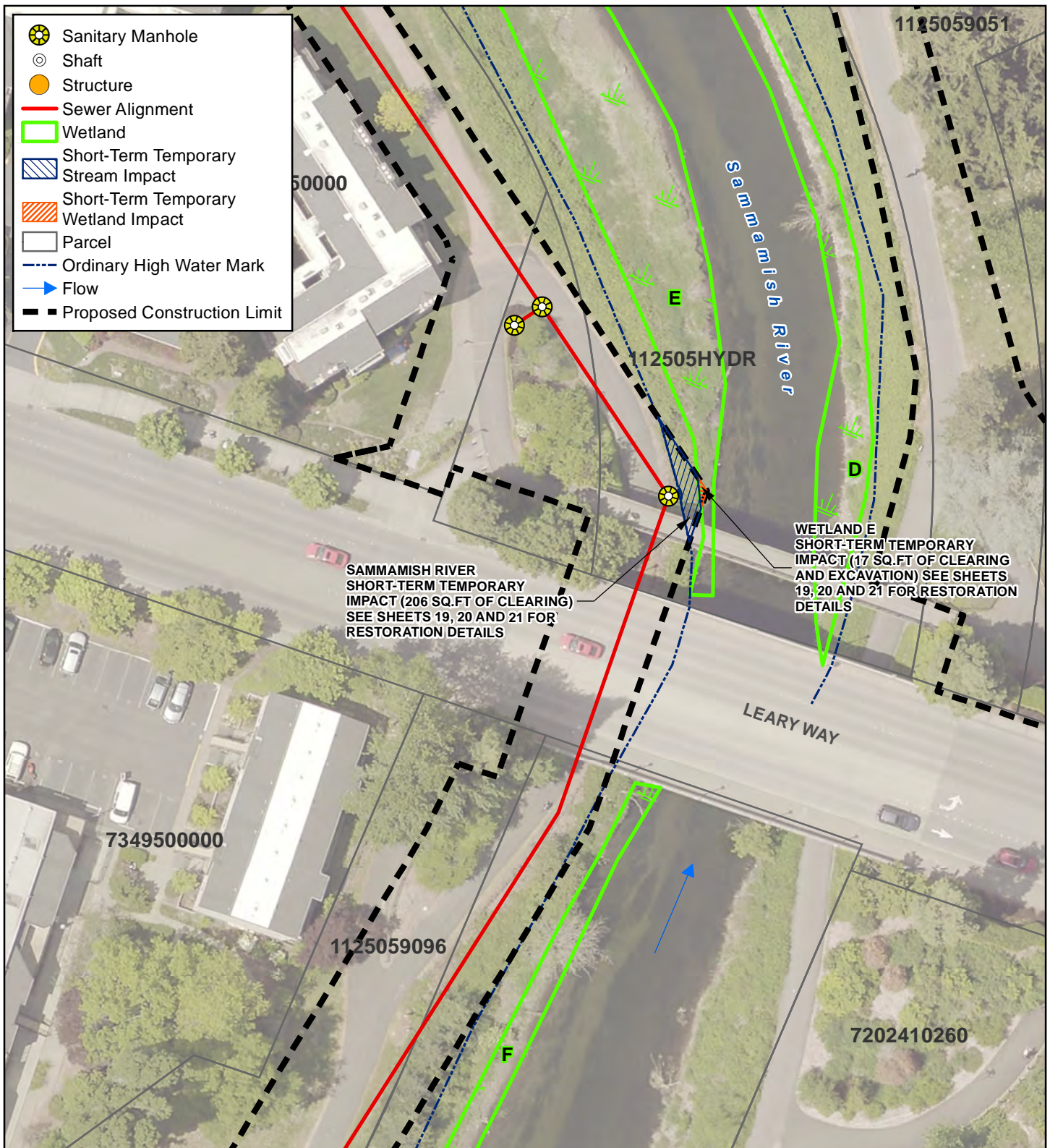
COUNTY: King

STATE: WA

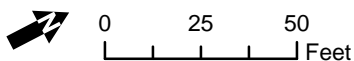
SHEET: 3 of 35

DATE: September 2022





**Wetland E/Sammamish River - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

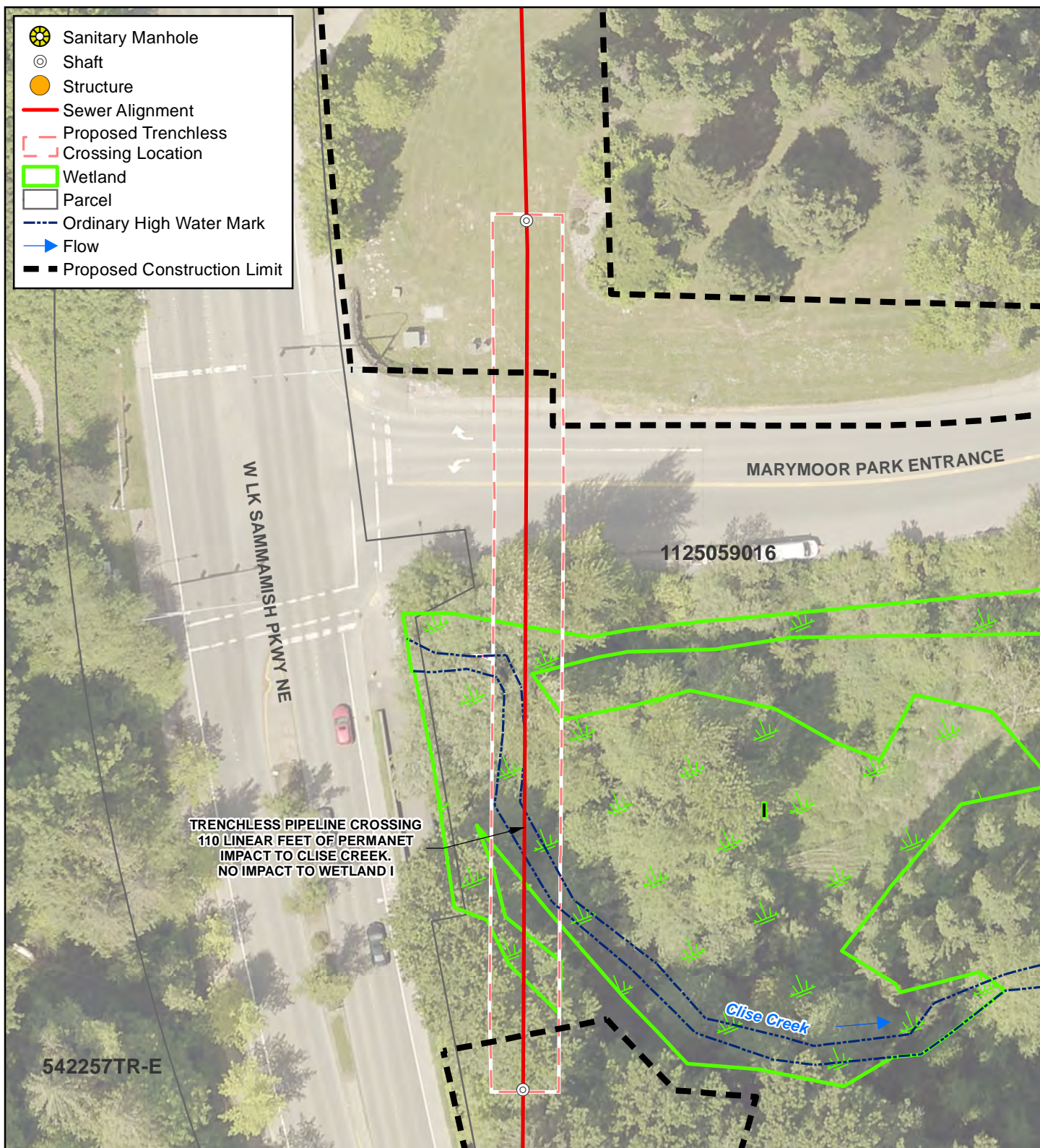
COUNTY: King

STATE: WA

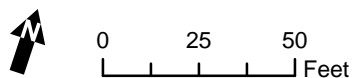
SHEET: 4 of 35

DATE: March 2023





**Clise Creek and Wetland I - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

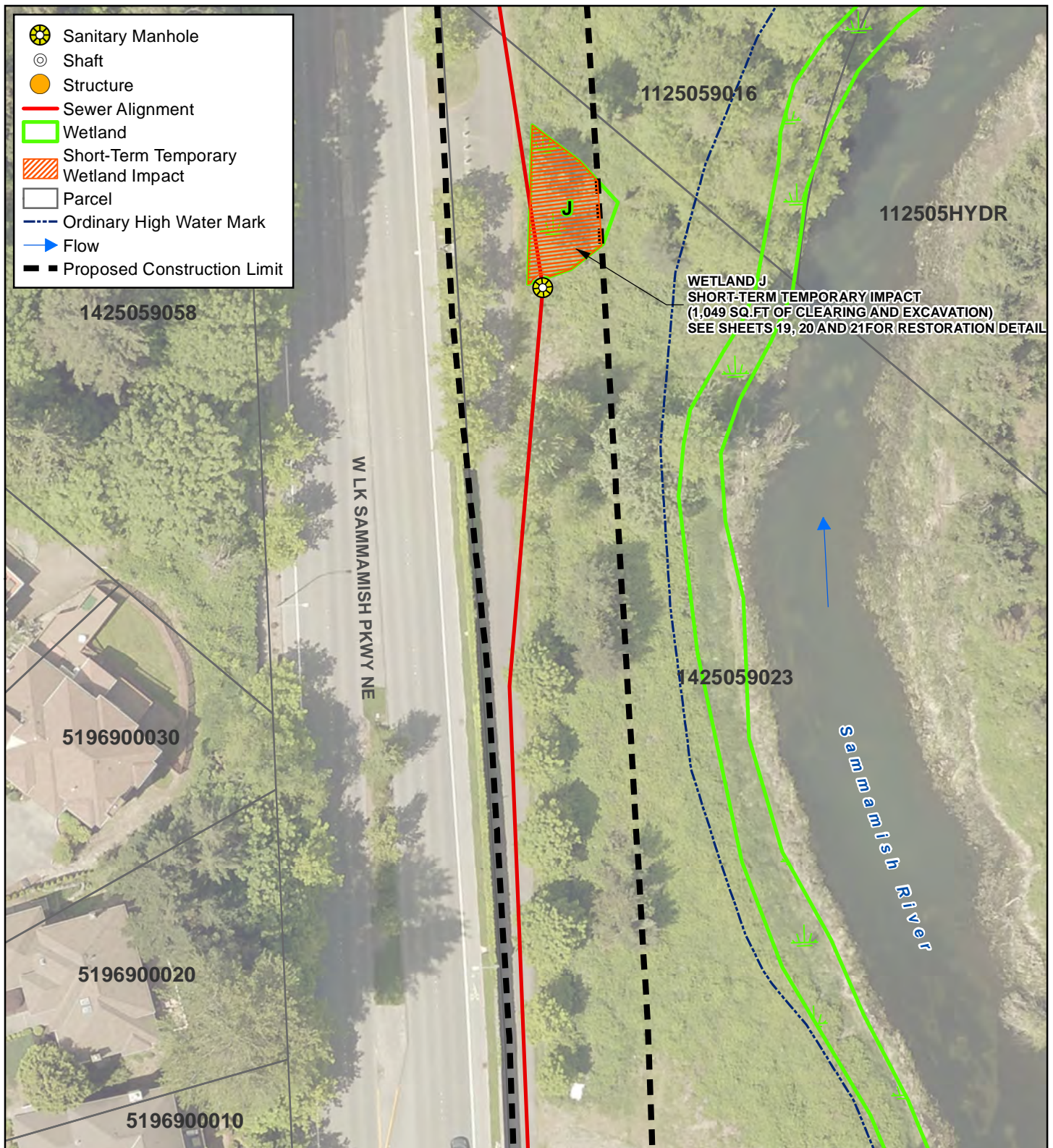
COUNTY: King

STATE: WA

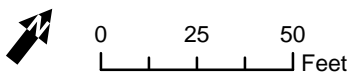
SHEET: 5 of 35

DATE: March 2023



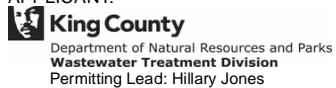


**Wetland J - Plan View**



REFERENCE #:

APPLICANT:



ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

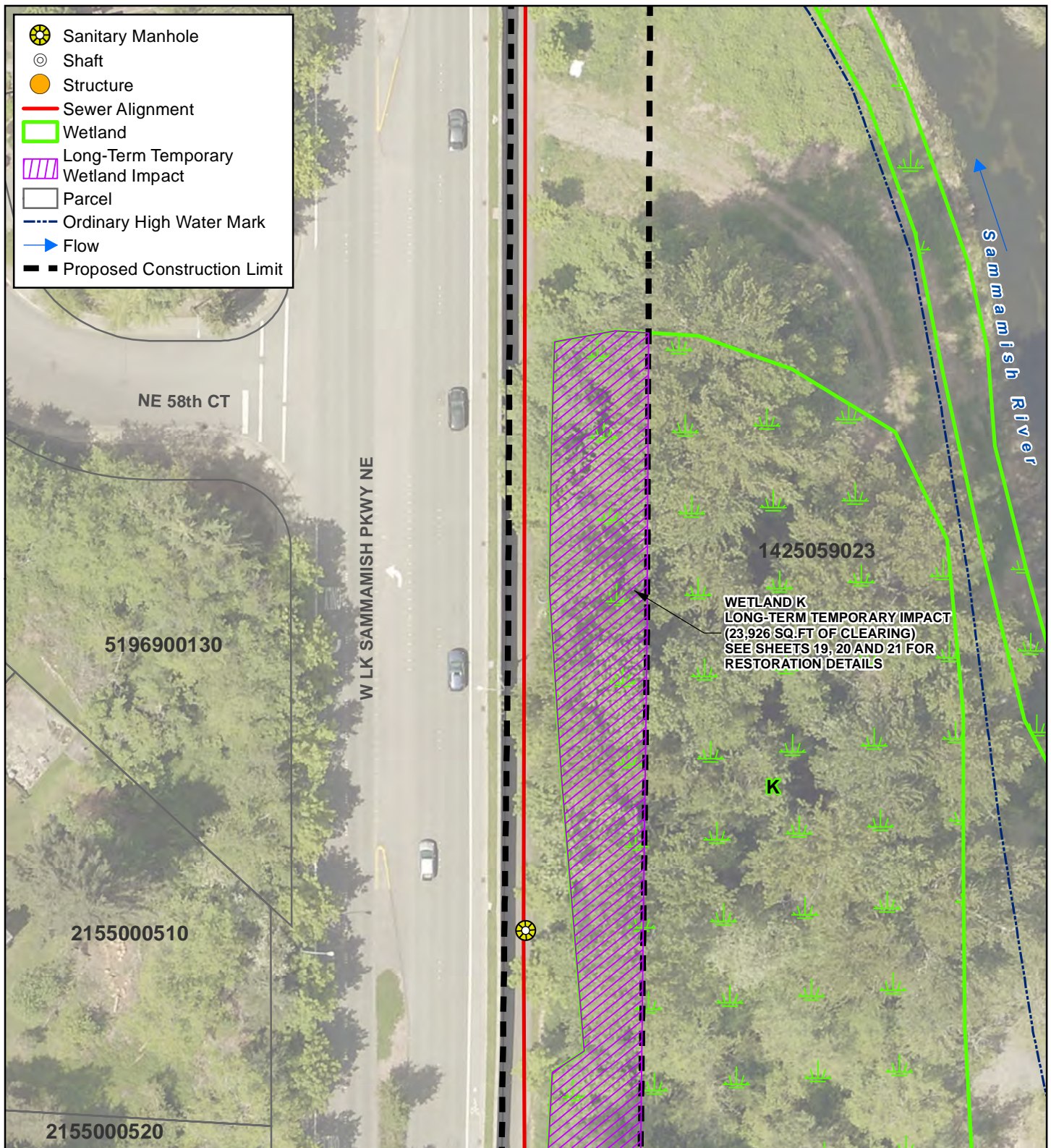
COUNTY: King

STATE: WA

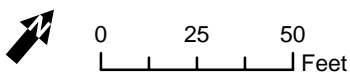
SHEET: 6 of 35

DATE: March 2023



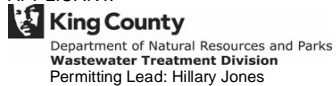


**Wetland K - Plan View**  
(1 of 4)



REFERENCE #:

APPLICANT:



ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

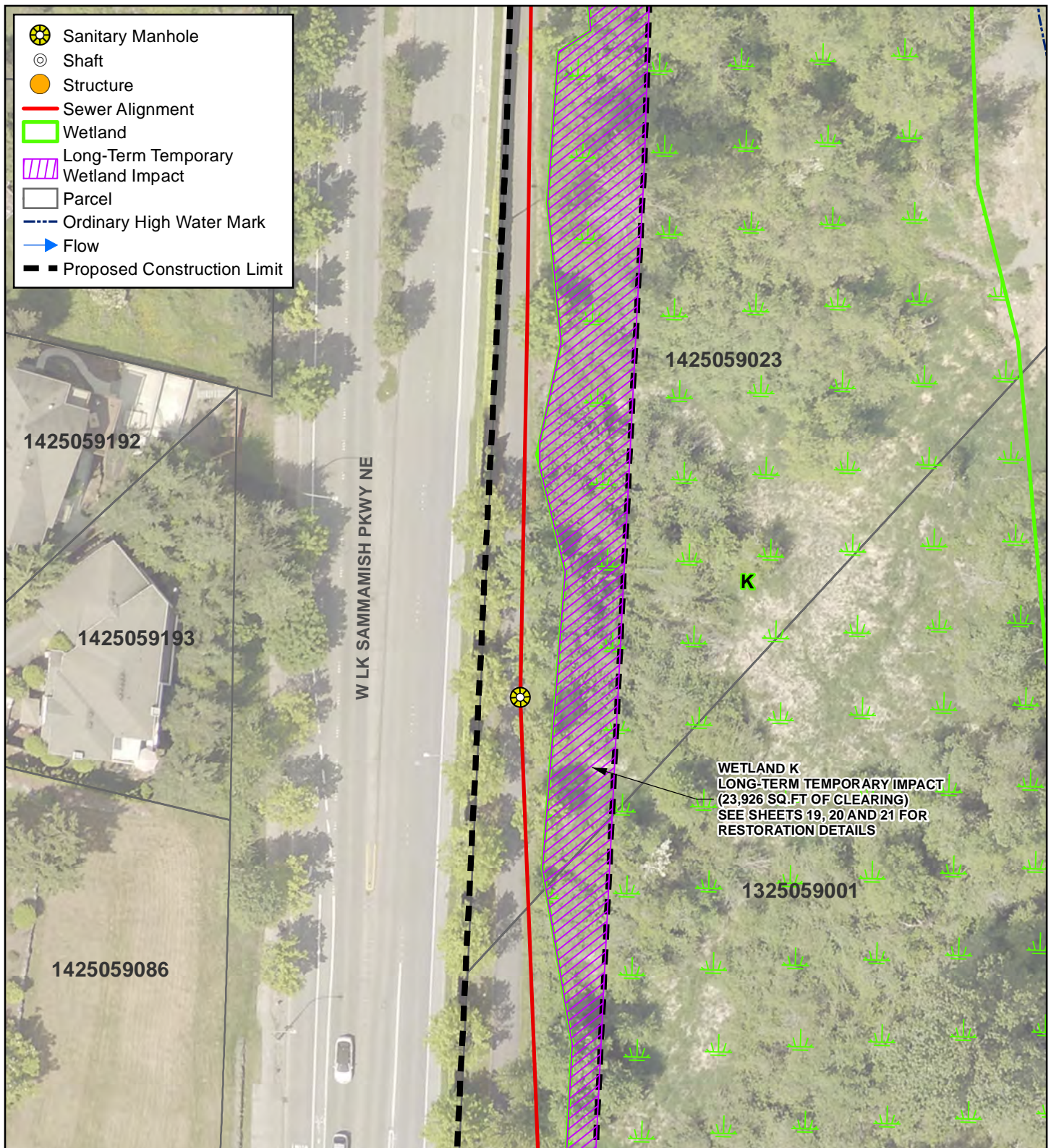
COUNTY: King

STATE: WA

SHEET: 7 of 35

DATE: March 2023





**Wetland K - Plan View  
(2 of 4)**



0 25 50  
Feet

**REFERENCE #:**

**APPLICANT:**



**King County**  
Department of Natural Resources and Parks  
**Wastewater Treatment Division**  
Permitting Lead: Hillary Jones

**ADJACENT PROPERTY OWNERS:**

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

**LOCATION:**

Parcels 1125059096 and 112505HYDR

**Lat/Long:**

North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"

**DATUM:** King County Metro Datum

**PROPOSED PROJECT:** Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

**IN:** Sammamish River and Wetland E affected areas only

**NEAR/AT:** Redmond

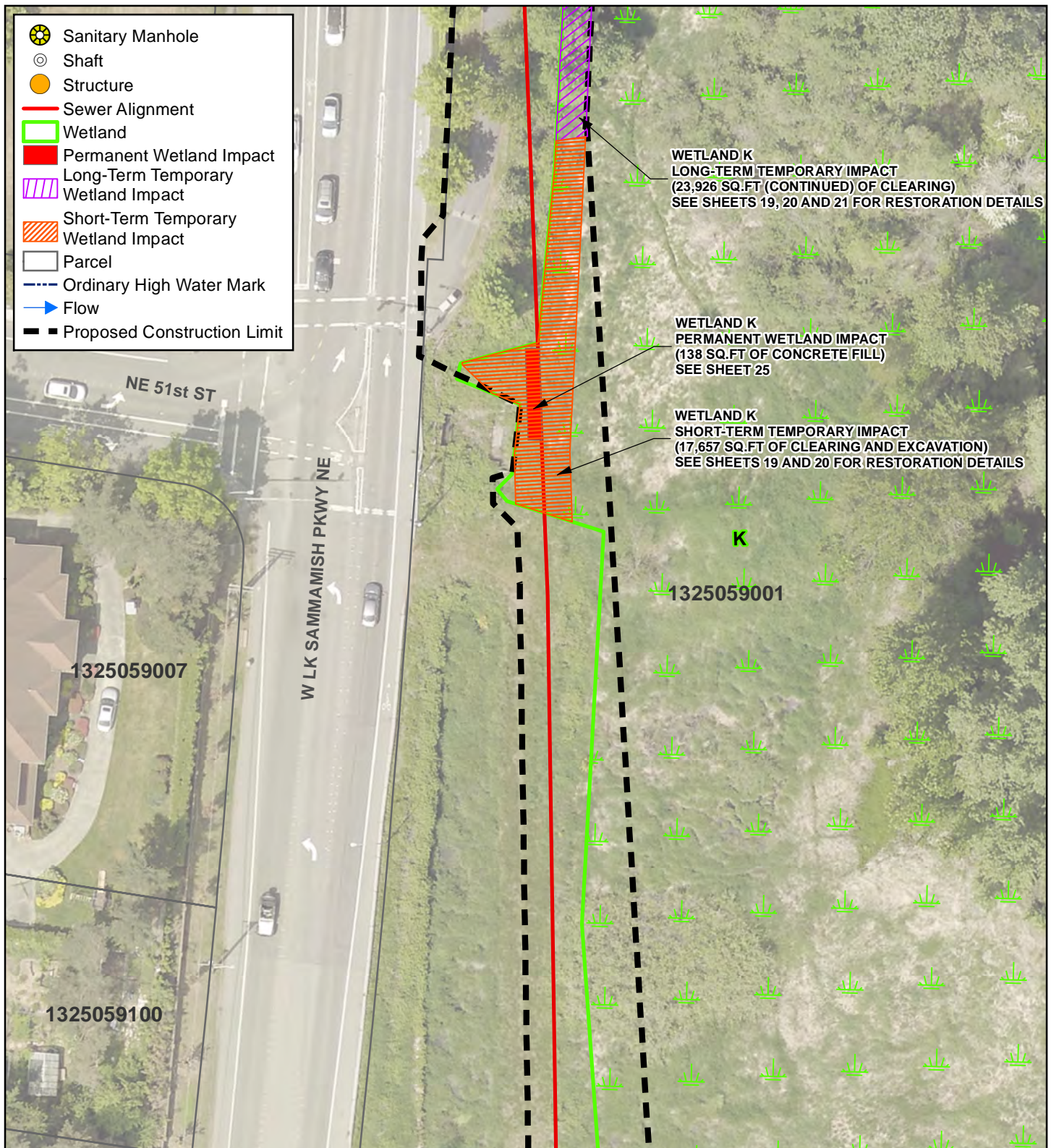
**COUNTY:** King

**STATE:** WA

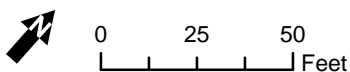
**SHEET:** 8 of 35

**DATE:** March 2023





**Wetland K - Plan View**  
**(3 of 4)**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

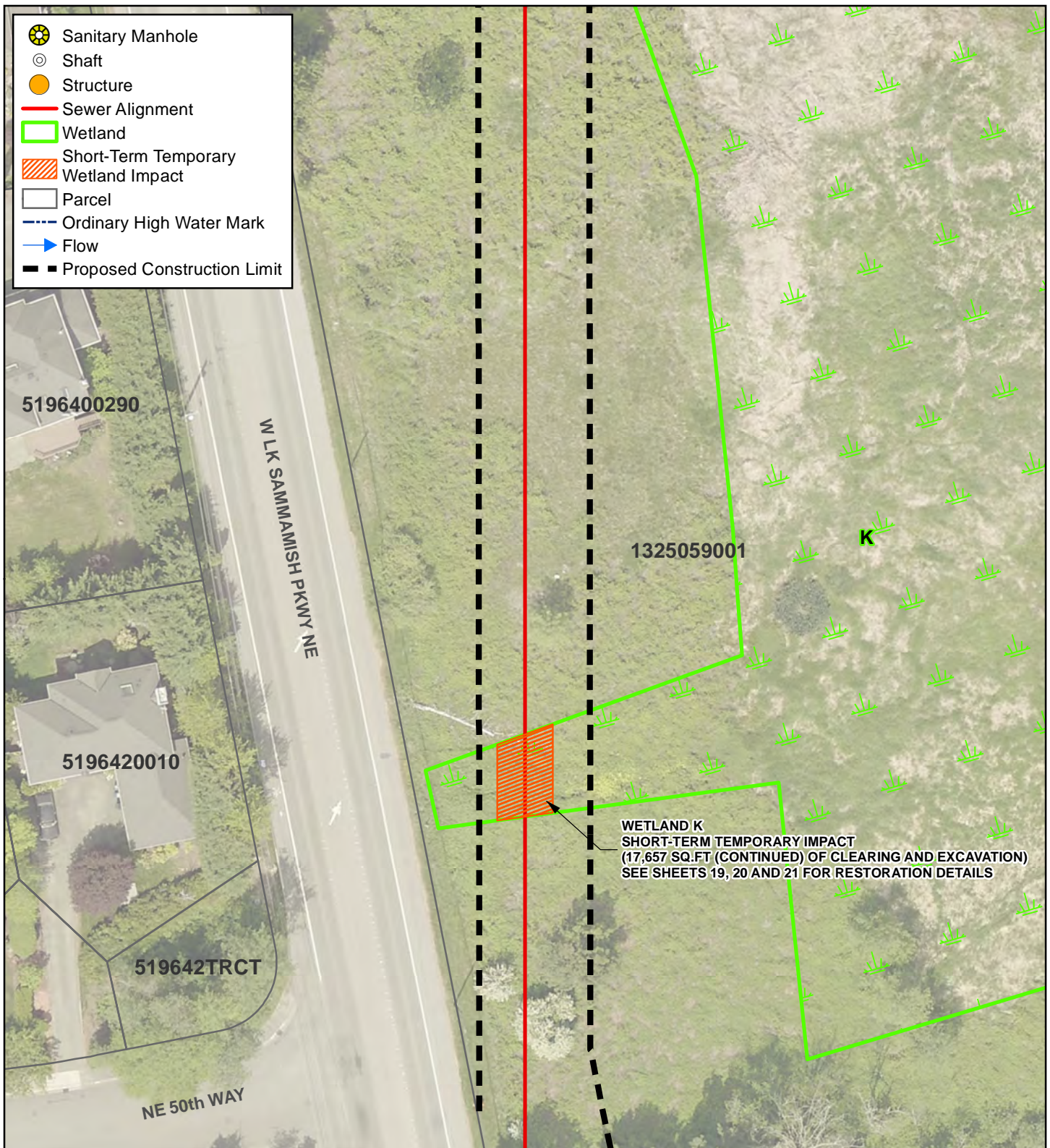
COUNTY: King

STATE: WA

SHEET: 9 of 35

DATE: March 2023





## Wetland K - Plan View (4 of 4)



0 25 50  
Feet

### REFERENCE #:

### APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

### ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

### LOCATION:

Parcels 1125059096 and 112505HYDR

### Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

**PROPOSED PROJECT:** Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

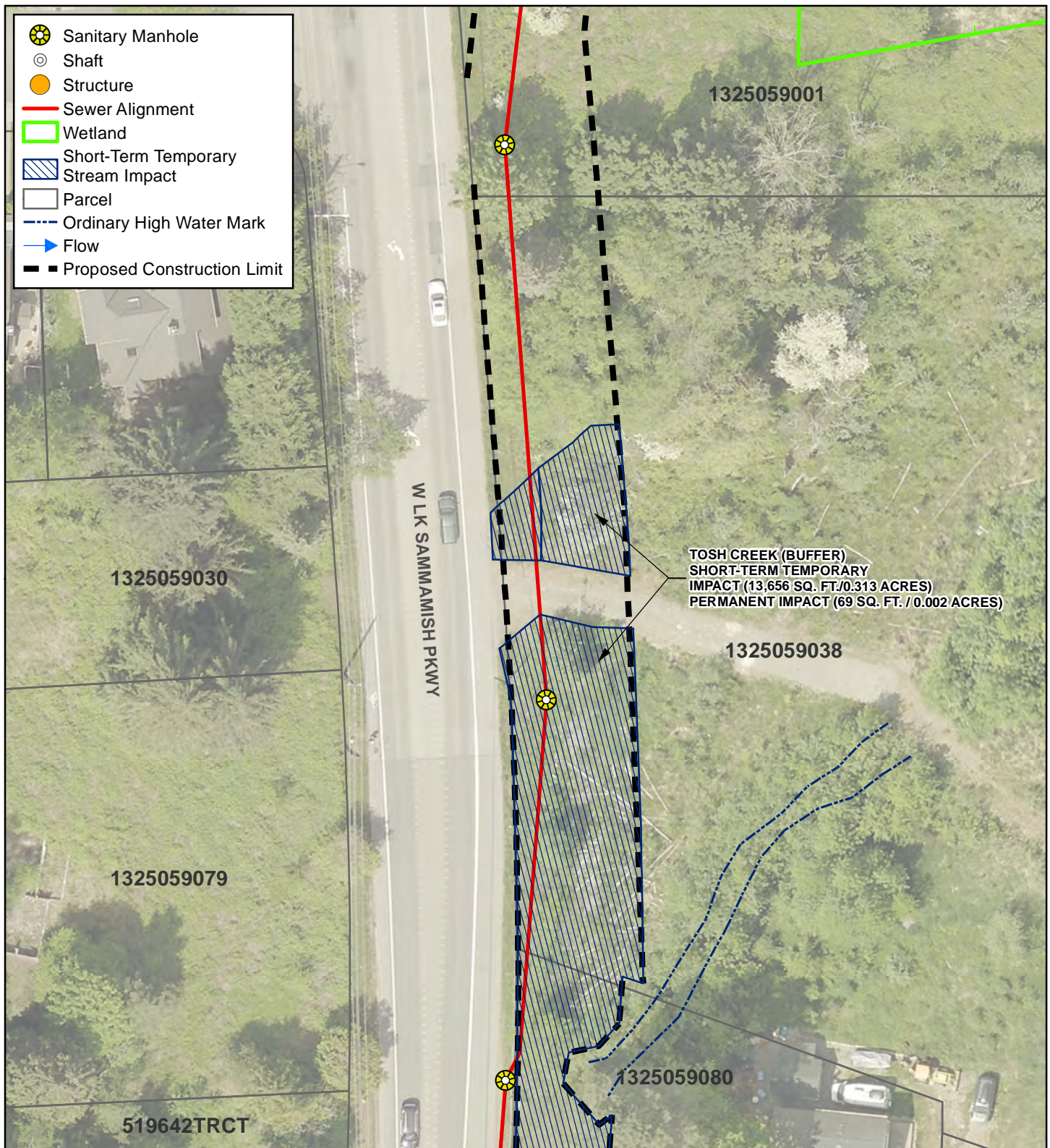
COUNTY: King

STATE: WA

SHEET: 10 of 35

DATE: March 2023





## Tosh Creek- Plan View



0 25 50  
Feet

### REFERENCE #:

### APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

### ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

### LOCATION:

Parcels 1125059096 and 112505HYDR

### Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

**PROPOSED PROJECT:** Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

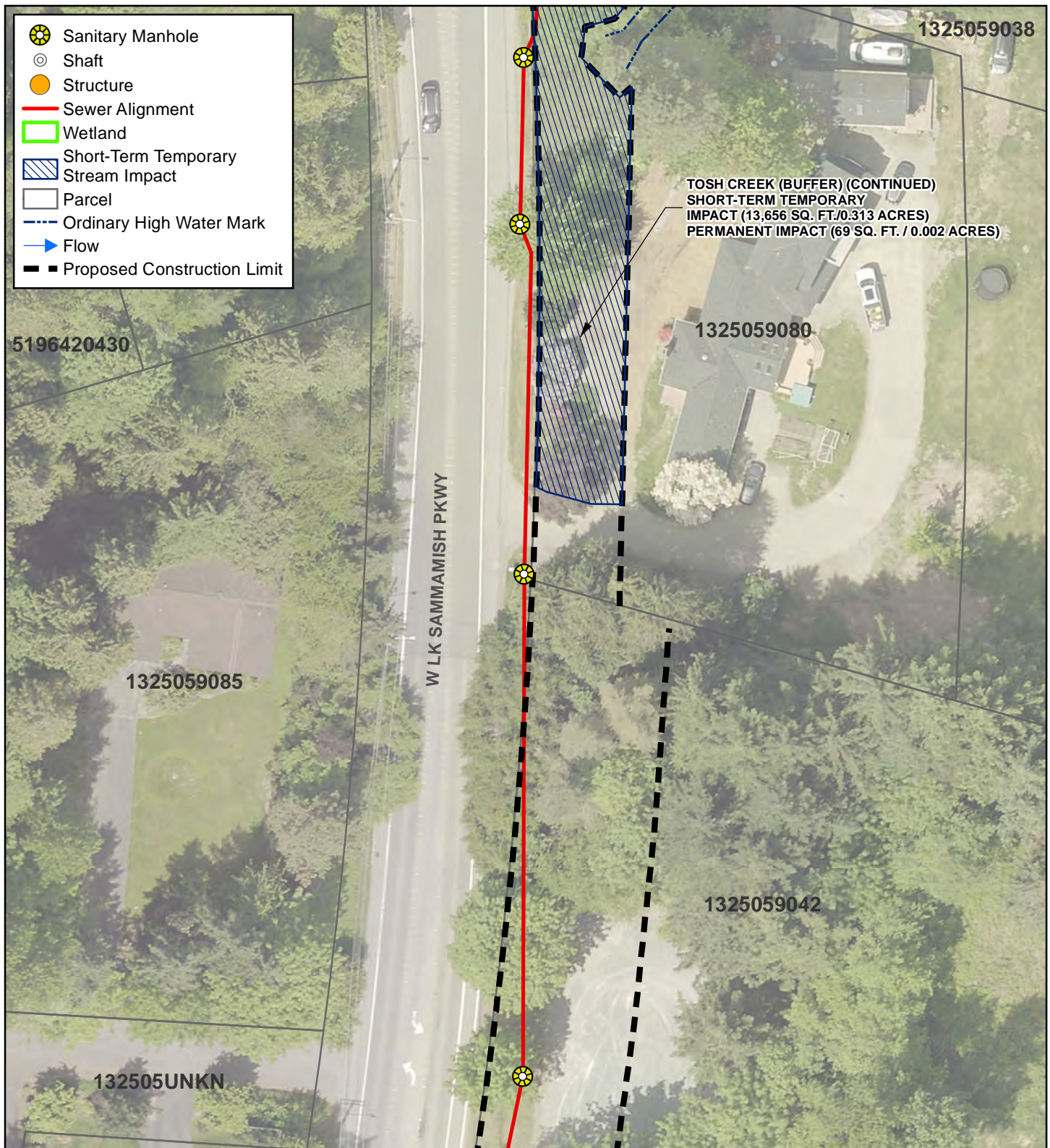
COUNTY: King

STATE: WA

SHEET: 11 of 35

DATE: March 2023





**Tosh Creek - Plan View**



0 25 50  
Feet

**REFERENCE #:**

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

**APPLICANT:**

**King County**  
Department of Natural Resources and Parks  
**Wastewater Treatment Division**  
Permitting Lead: Hillary Jones

**LOCATION:**  
Parcels 1125059096 and 112505HYDR

**Lat/Long:**  
North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"  
**DATUM:** King County Metro Datum

**ADJACENT PROPERTY OWNERS:**

See JARPA and Attachment B Forms

**PROPOSED PROJECT:** Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/ mitigation for wetland impacts

**IN:** Sammamish River and Wetland E affected areas only

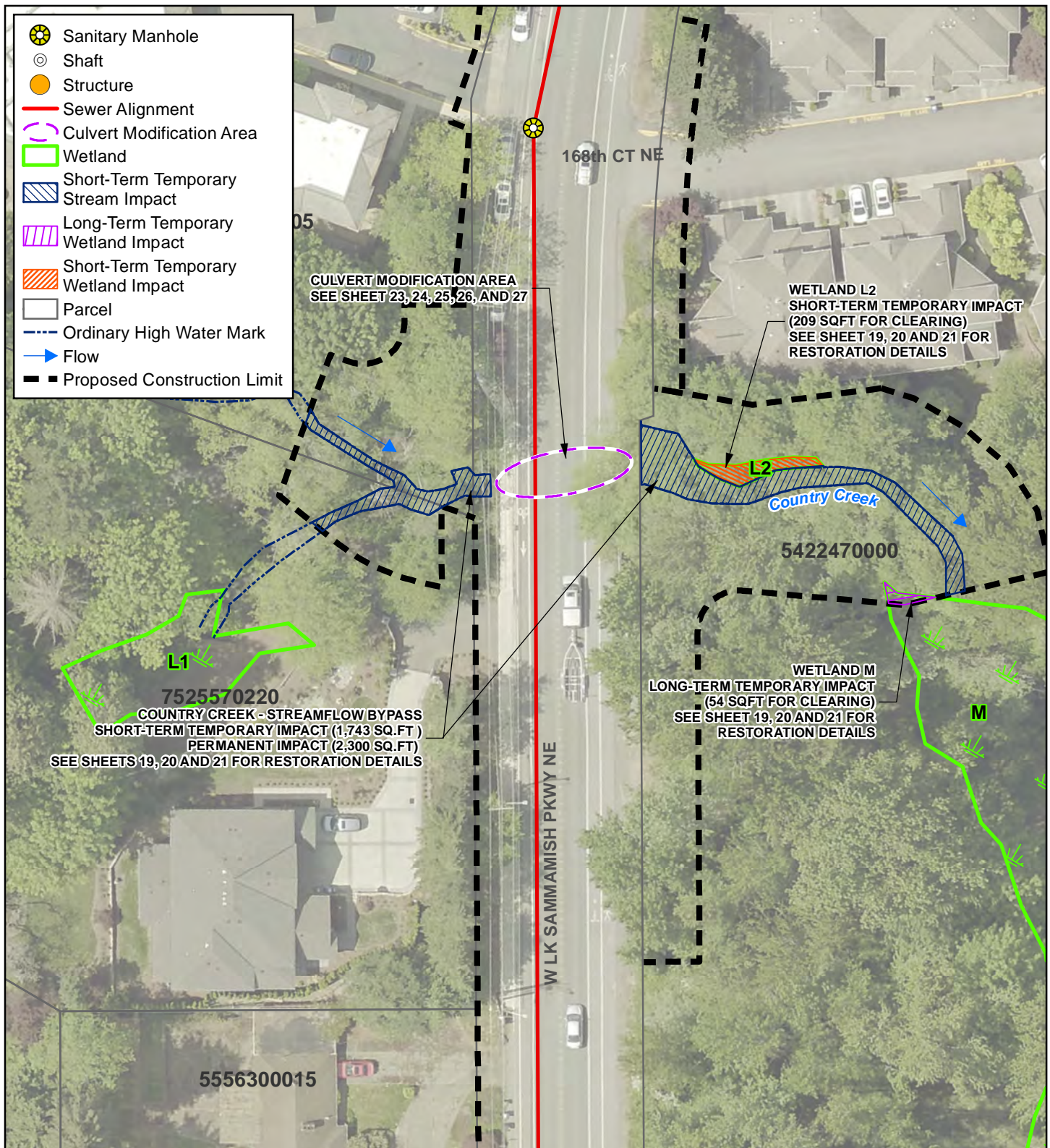
**NEAR/AT:** Redmond

**COUNTY:** King **STATE:** WA

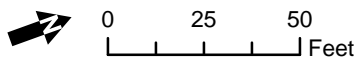
**SHEET:** 12 of 35

**DATE:** March 2023





**Country Creek - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

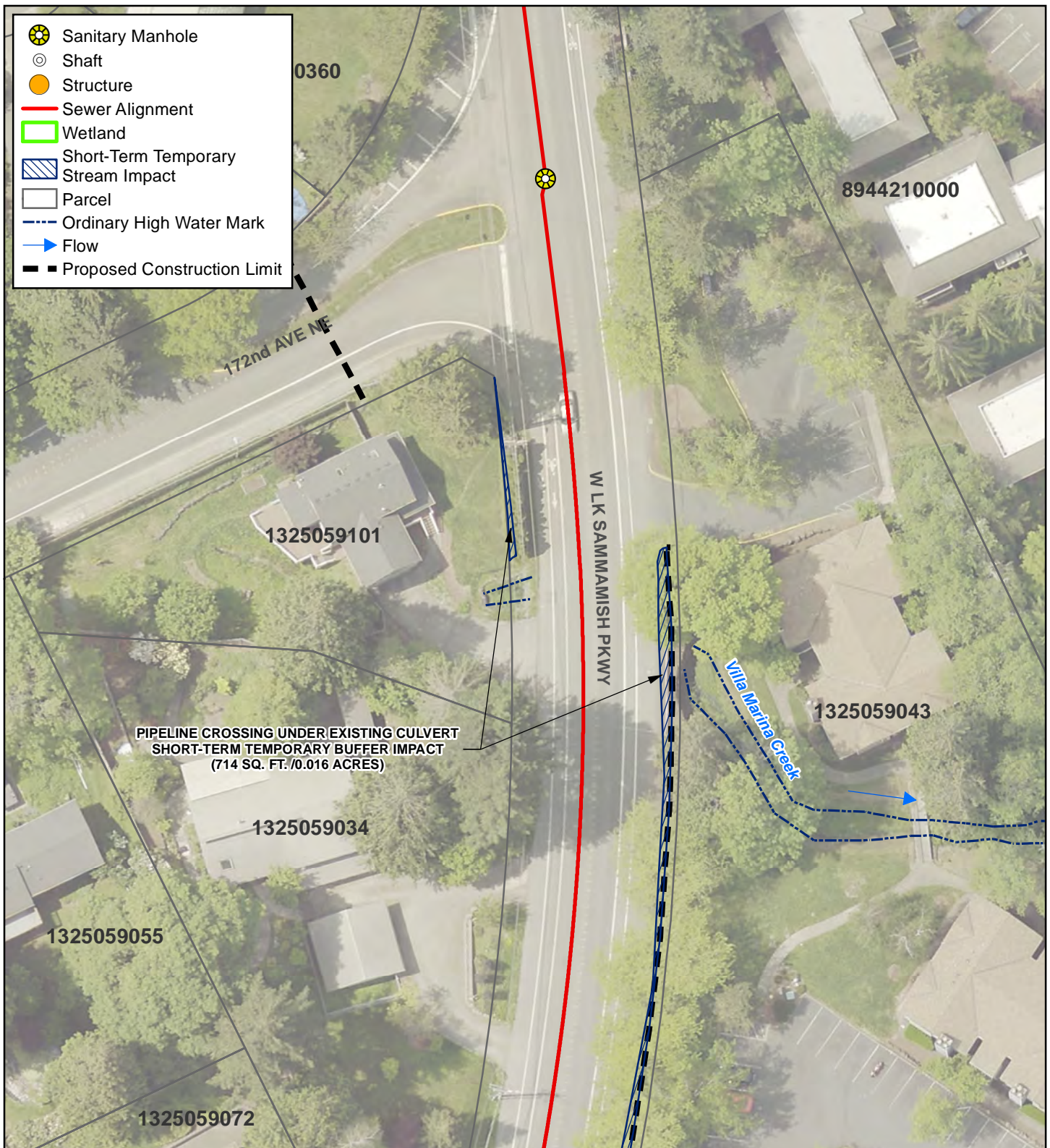
COUNTY: King

STATE: WA

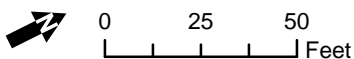
SHEET: 13 of 35

DATE: March 2023





**Villa Marina Creek - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

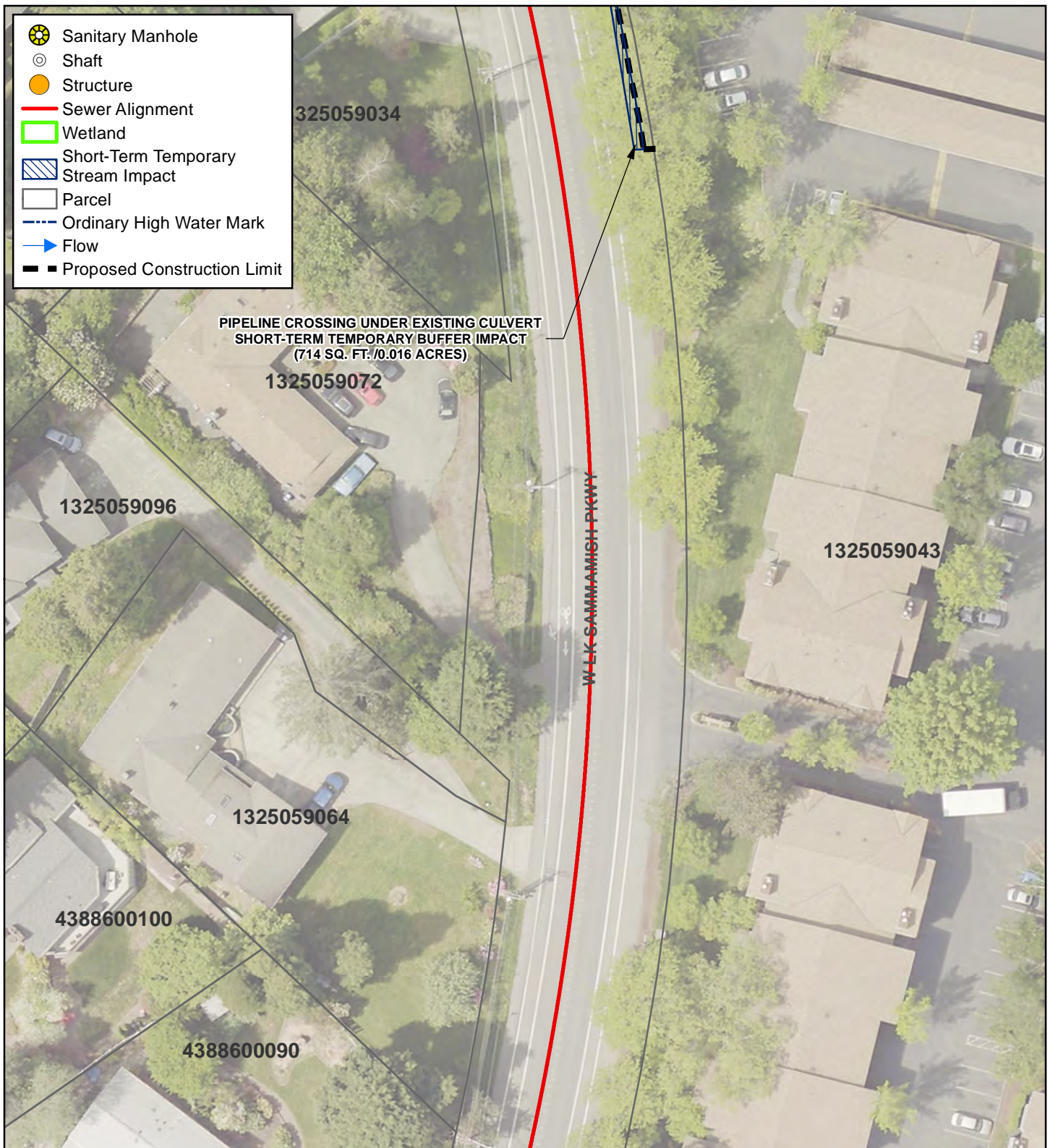
COUNTY: King

STATE: WA

SHEET: 14 of 35

DATE: March 2023





## Villa Marina Creek - Plan View



0 25 50  
Feet

### REFERENCE #:

### APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

### ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

### LOCATION:

Parcels 1125059096 and 112505HYDR

### Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

**PROPOSED PROJECT:** Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

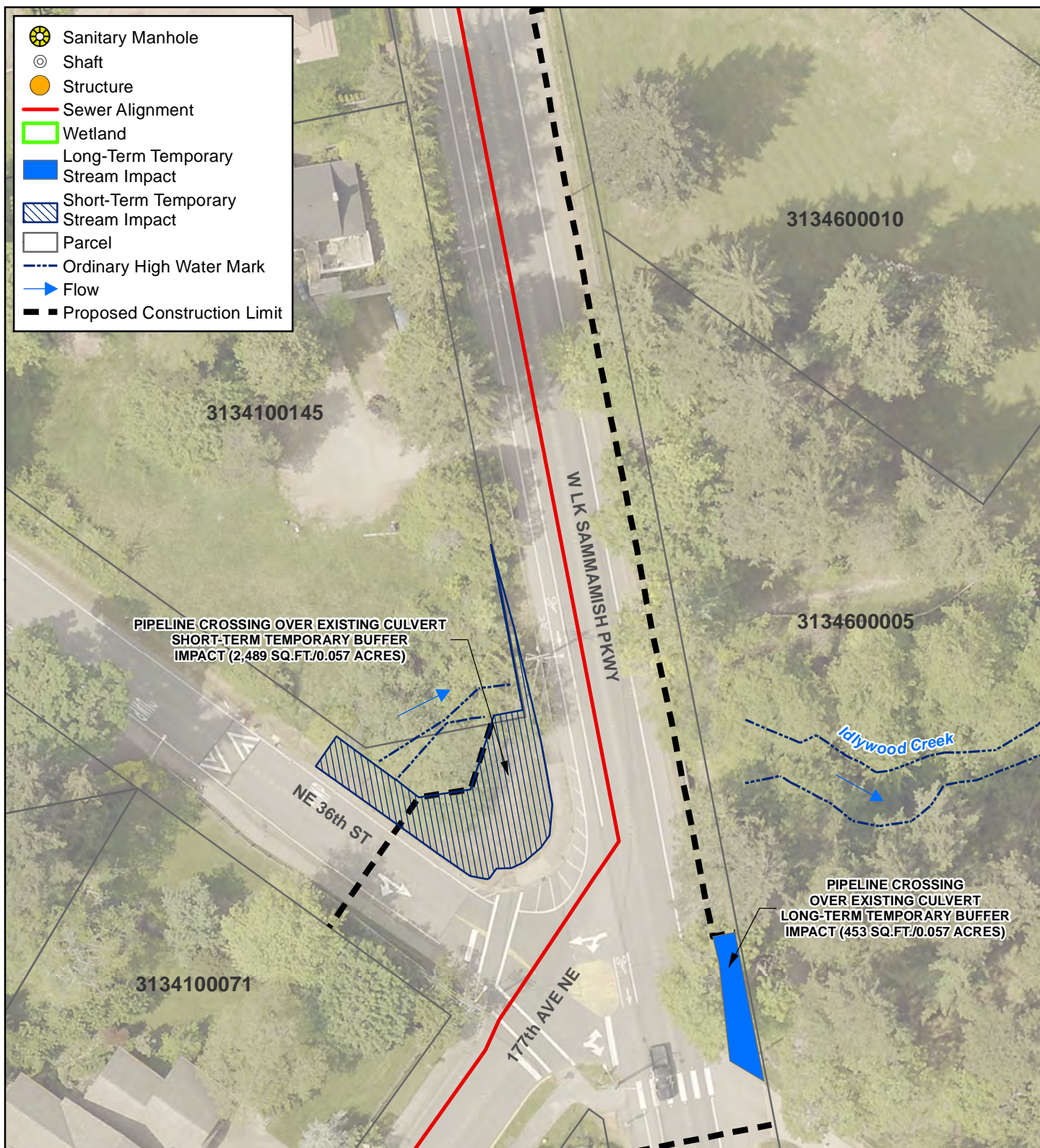
NEAR/AT: Redmond

COUNTY: King STATE: WA

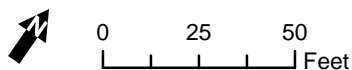
SHEET: 15 of 35

DATE: March 2023





**Idylwood Creek - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/ mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

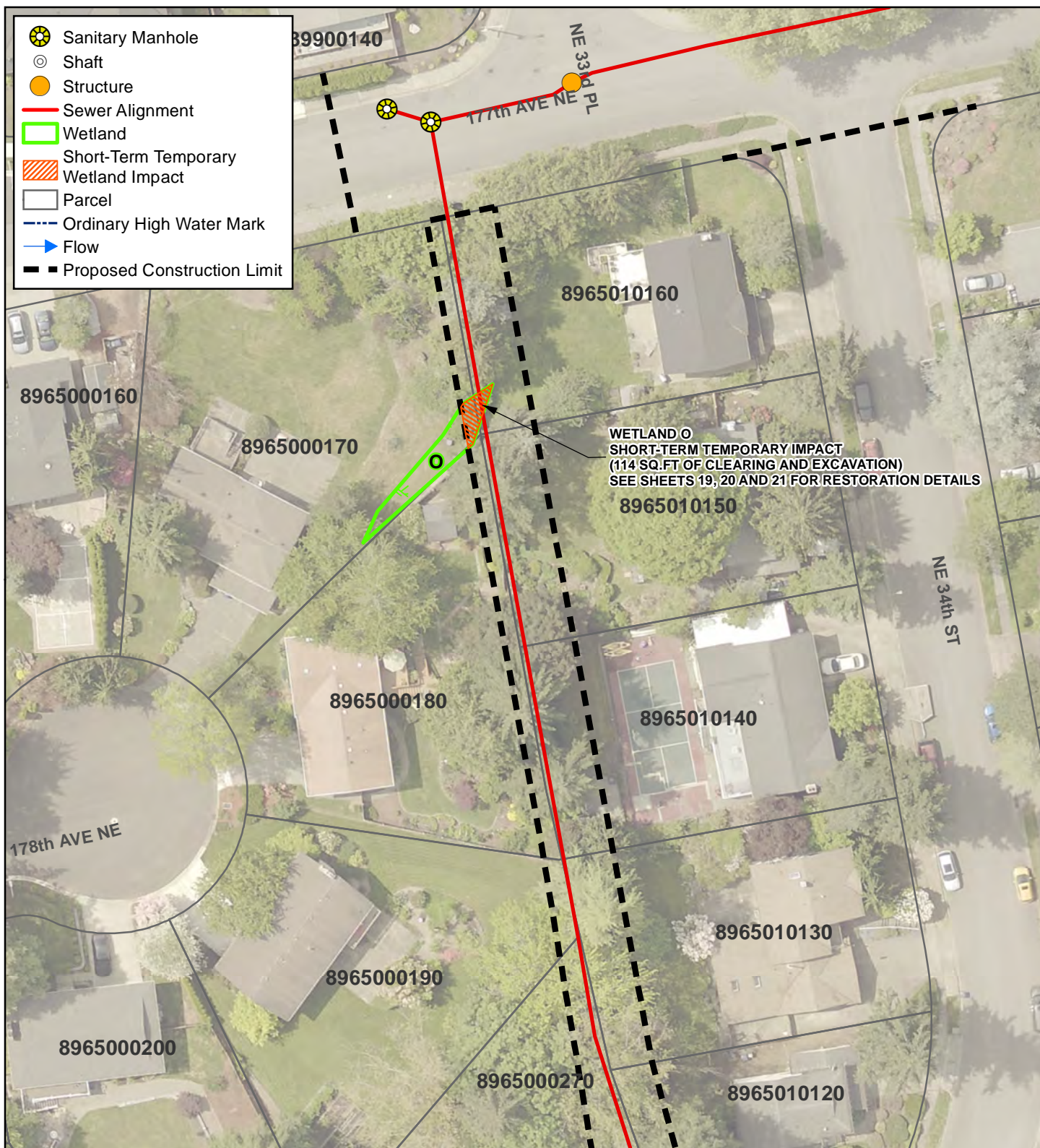
COUNTY: King

STATE: WA

SHEET: 16 of 35

DATE: September 2022





**Wetland O - Plan View**



0 25 50  
Feet

REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

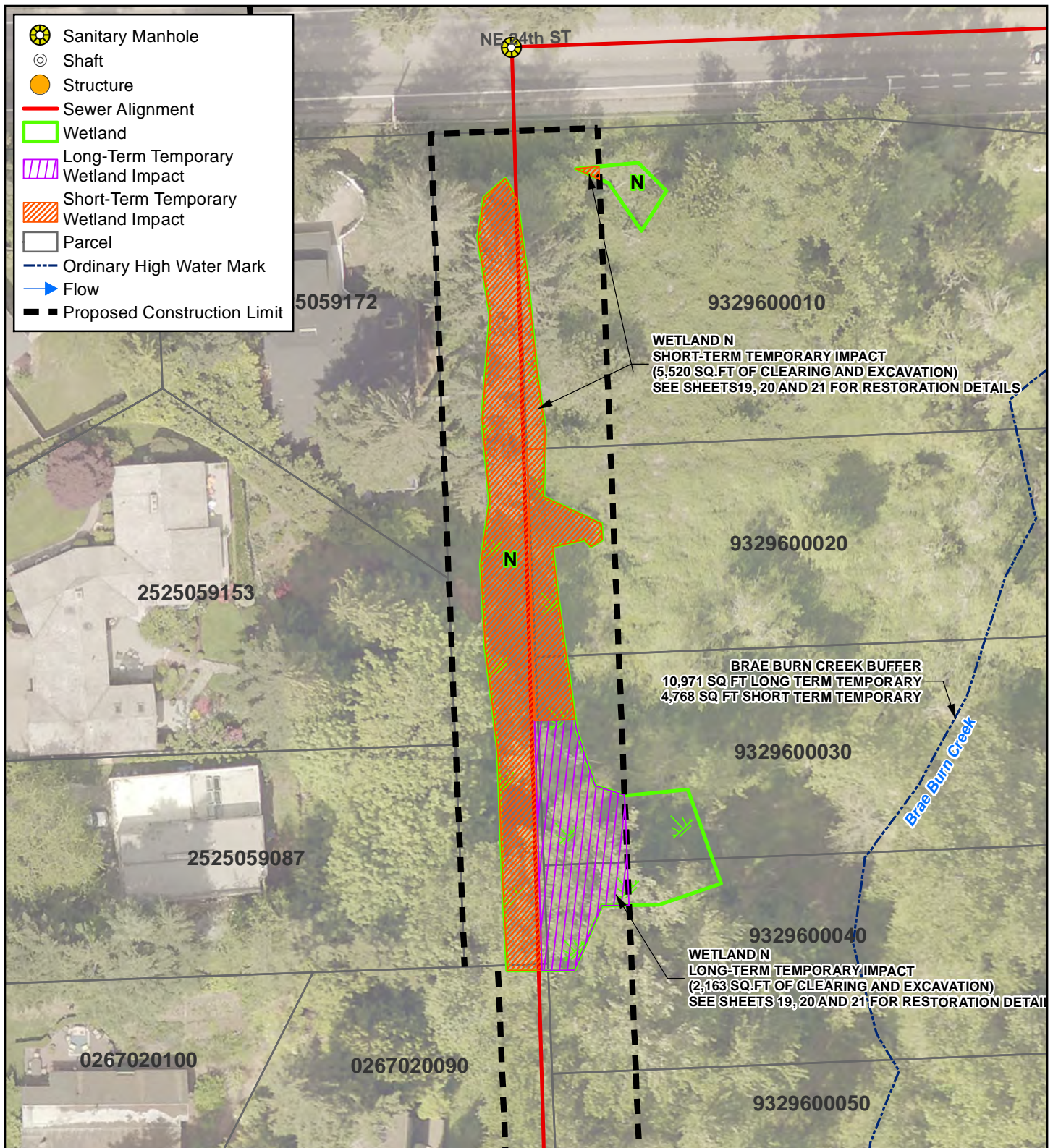
COUNTY: King

STATE: WA

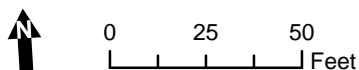
SHEET: 17 of 35

DATE: March 2023





**Wetland N - Plan View**



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

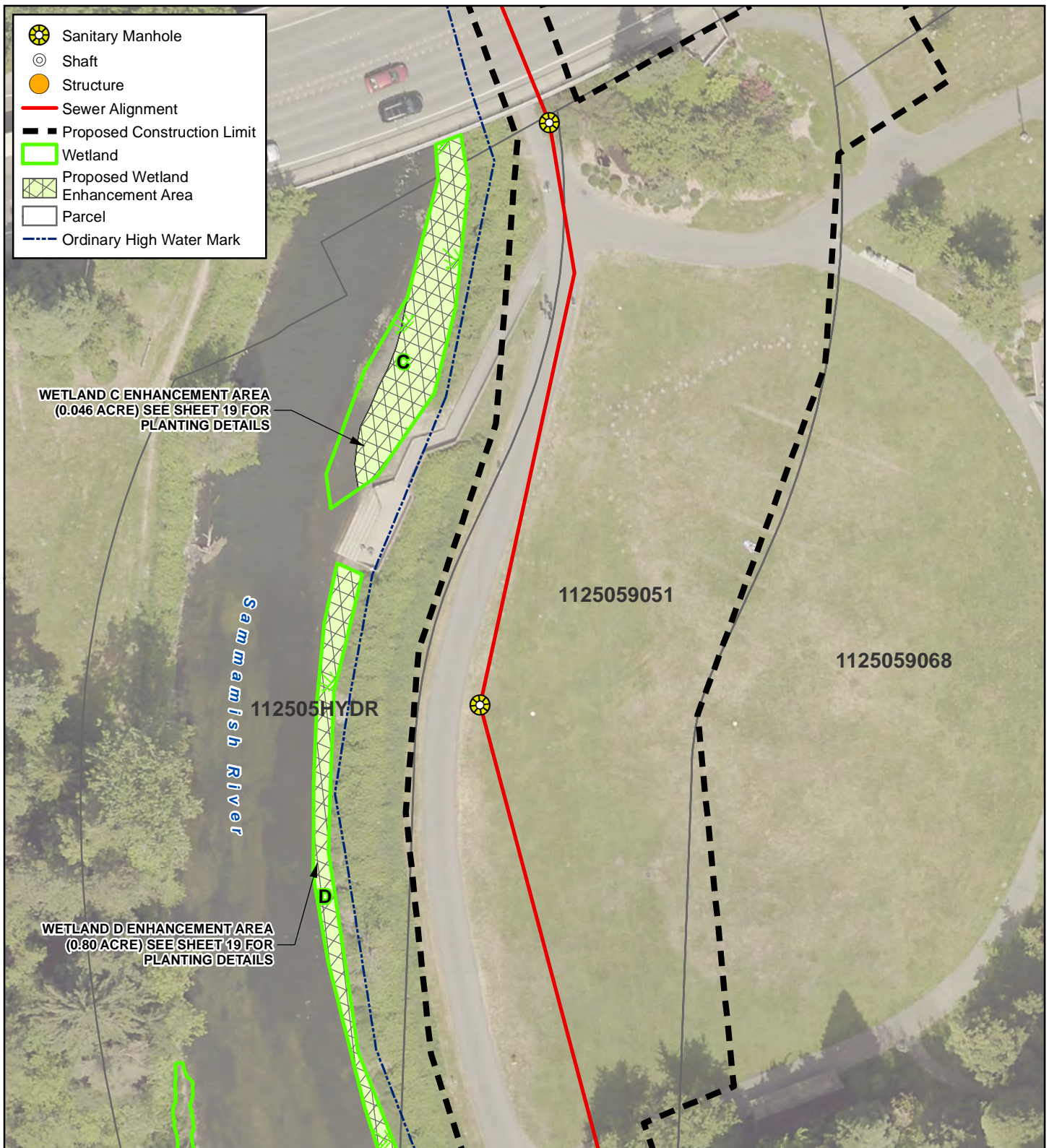
COUNTY: King

STATE: WA

SHEET: 18 of 35

DATE: March 2023





## Wetland Enhancement Compensatory Mitigation Sites (1 of 5)

REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

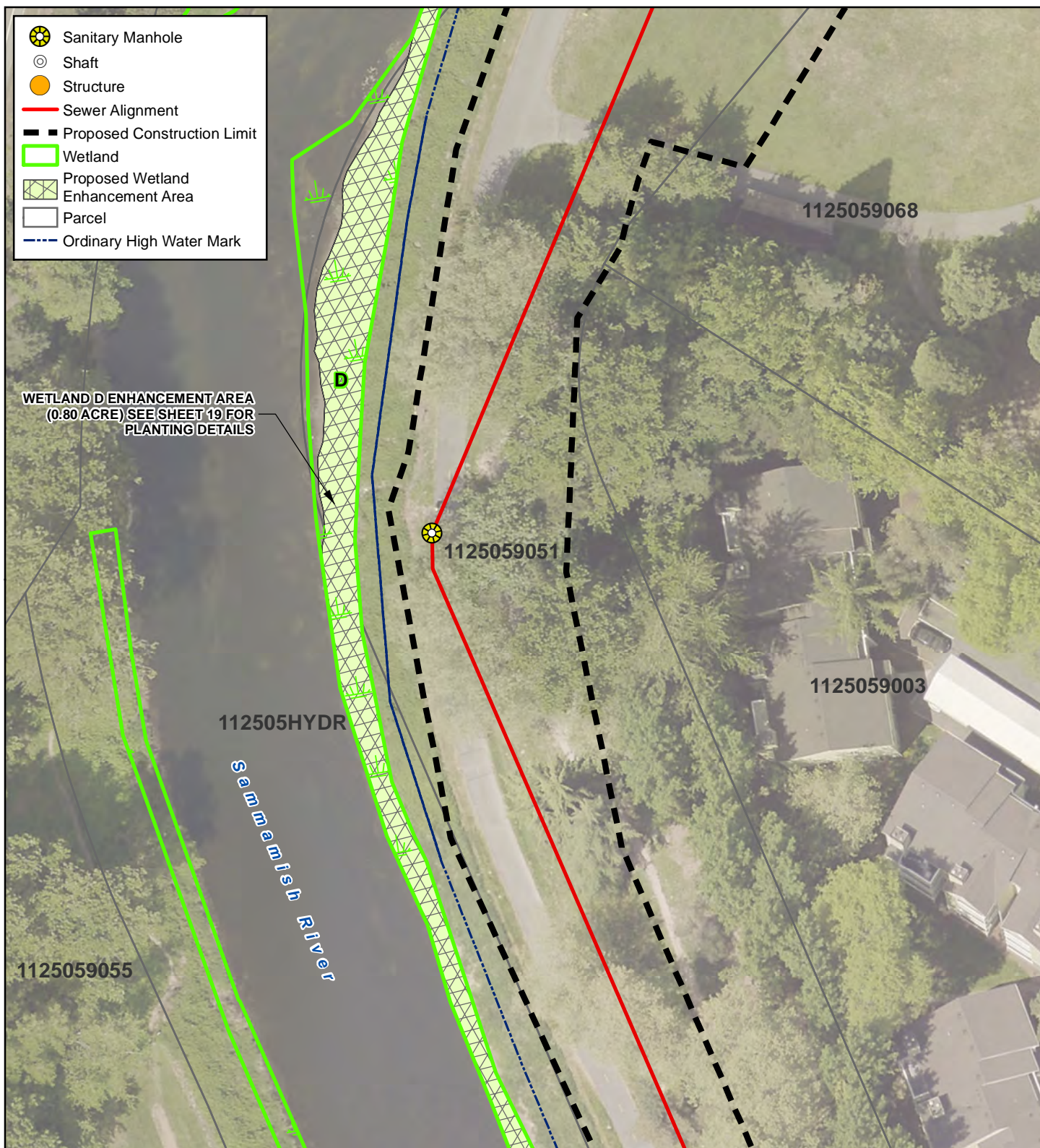
COUNTY: King

STATE: WA

SHEET: 19 of 35

DATE: March 2023





## Wetland Enhancement Compensatory Mitigation Sites (2 of 5)



0 25 50  
Feet

REFERENCE #:

APPLICANT:



**King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

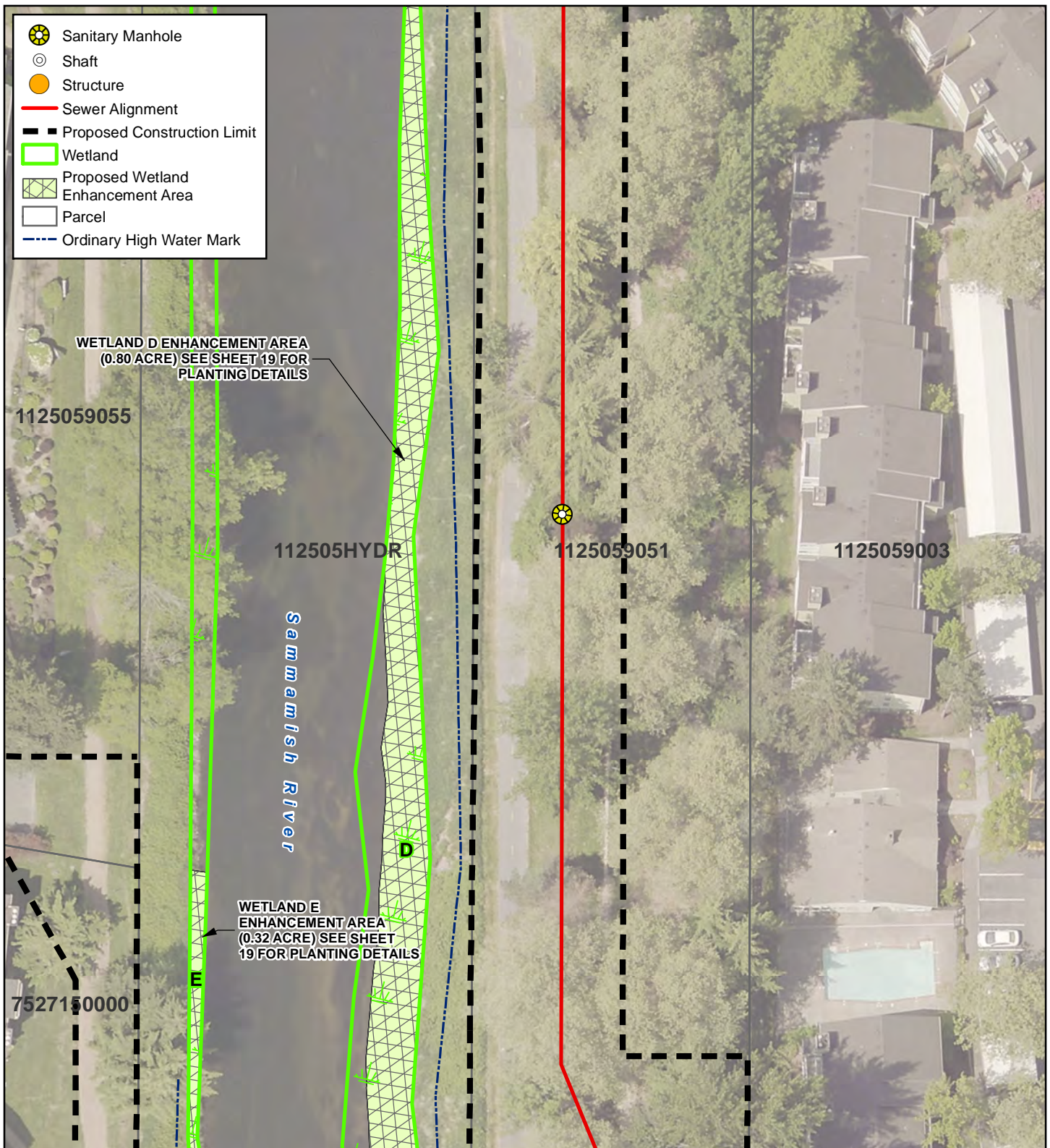
COUNTY: King

STATE: WA

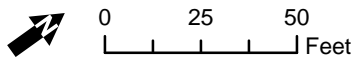
SHEET: 20 of 35

DATE: March 2023





## Wetland Enhancement Compensatory Mitigation Sites (3 of 5)



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

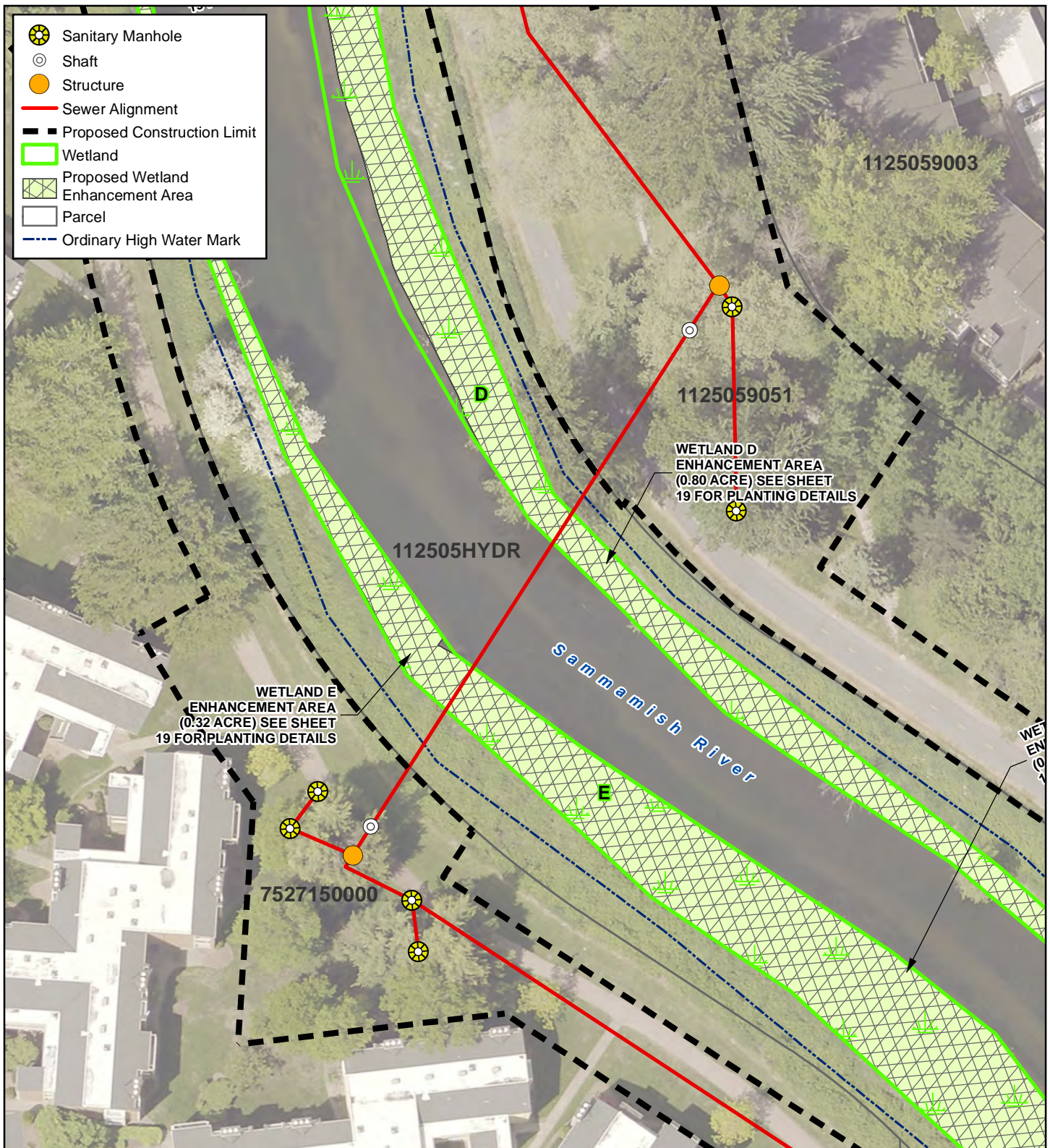
COUNTY: King

STATE: WA

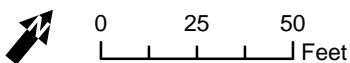
SHEET: 21 of 35

DATE: March 2023





## Wetland Enhancement Compensatory Mitigation Sites (4 of 5)



REFERENCE #:

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

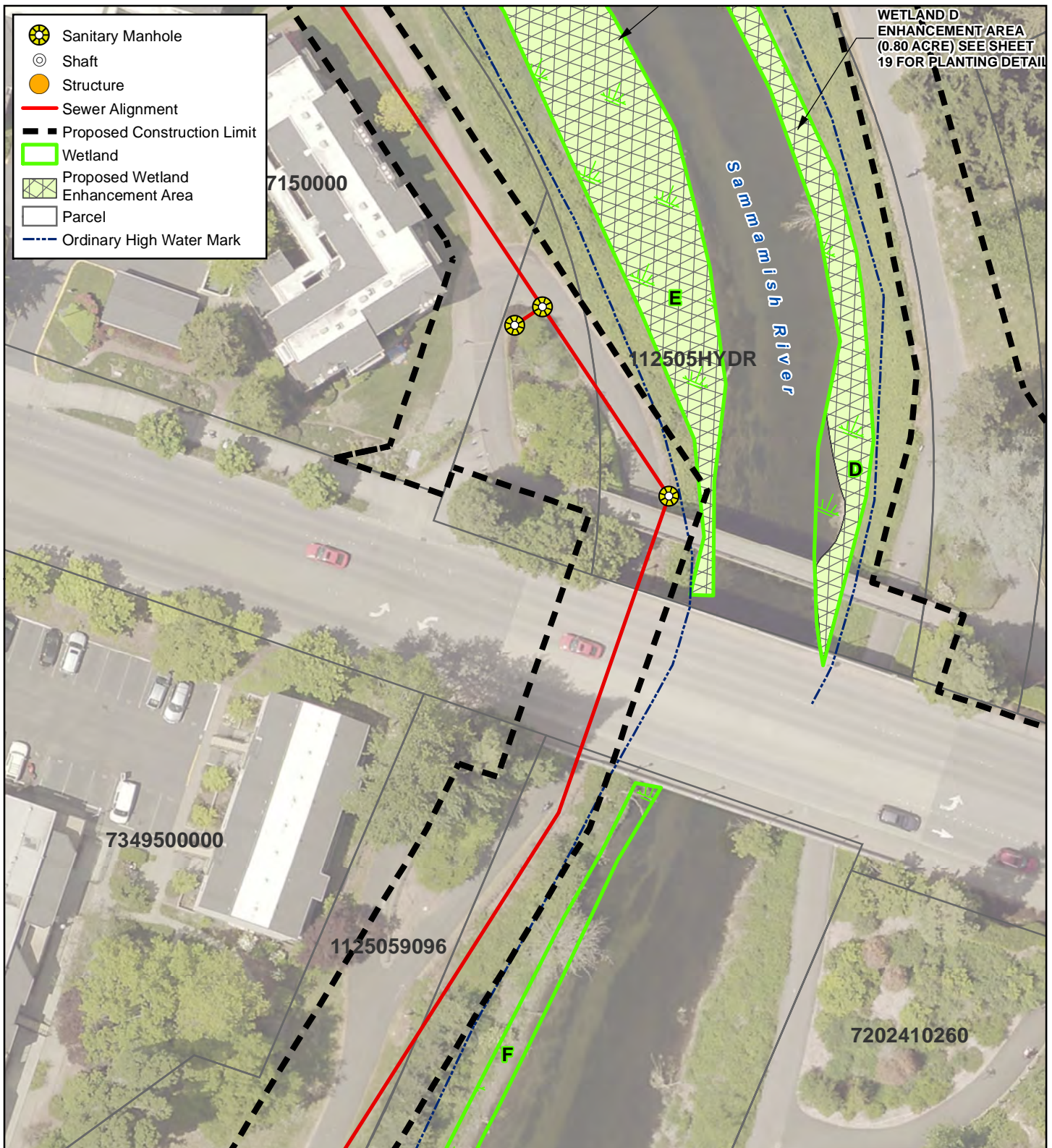
COUNTY: King

STATE: WA

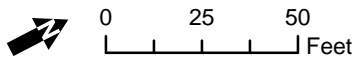
SHEET: 17 of 30

DATE: August 2019





## Wetland Enhancement Compensatory Mitigation Sites (5 of 5)



REFERENCE #:

APPLICANT:



**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 23 of 35

DATE: March 2023



**SEGMENT 1 TREE REMOVAL AND REPLACEMENT: C.O.R. (NON-CRITICAL AREAS, NON-ROW)**

	SIGNIFICANT TREE REMOVAL (1-1)	LANDMARK TREE REMOVAL (3-1)	ON SITE REPLACEMENT	TREE REPLACEMENT FEE	REQUIRED REPLACEMENT	ACTUAL REPLACEMENT	DELTA
TOTAL	205** ***	10	237	0	205** ***	237**	*2 (+7)** ***

**SEGMENT 1 TREE REPLACEMENT SCHEDULE: C.O.R. (NON-CRITICAL AREAS)**

	KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	NATIVE	NON- NATIVE	ADAPTIVE	DROUGHT TOLERANT
DECIDUOUS	AC	11	ACER CIRCINATUM	VINE MAPLE	8' MIN HT, 2.5" CAL. MIN. 3" STEM MIN.	B&B	15'-20' O.C.	x			x
	ACA	2	ACER CAMPESTRE	HEDGE MAPLE	2.5" CAL. MIN.	B&B	20' O.C.		x		x
	AGR	3	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	SERVICEBERRY	8' MIN HT, 2.5" CAL. MIN. 3" STEM MIN.	B&B	15'-20' O.C.		x	x	x
	AR	12	ALNUS RUBRA	RED ALDER	2.5" CAL. MIN.	B&B	20' O.C.	x			
	AV	3	ARBUTUS UNEDO	STRAWBERRY TREE	2.5" CAL. MIN.	B&B	15'-20' O.C.		x	x	
	BN	15	BETULA NIGRA	RIVER BIRCH	8' MIN HT, 2.5" CAL. MIN. 3" STEM MIN.	B&B	15'-20' O.C.		x		x
	CB	40	CARPINUS BETULUS 'FRANS FONTAINE'	COLUMNAR HORNBEAM	2.5" CAL. MIN.	B&B	PER PLANS		x	x	
	CC	8	CERCIS CANADENSIS	EASTERN REDBUD	2.5" CAL. MIN.	B&B	15'-20' O.C.		x	x	x
	CN	8	CORNUS NUTALLII	PACIFIC DOGWOOD	2.5" CAL. MIN.	B&B	15'-20' O.C.	x			
	FL	4	FRAXINUS LATIFOLIA	OREGON ASH	2.5" CAL. MIN.	B&B	20'-25' O.C.	x			
	GB	2	GINKGO BILOBA	GINKGO	2.5" CAL. MIN.	B&B	10'-15' O.C.		x	x	x
	HI	2	HAMAMELIS X INTERMEDIA 'ARNOLD'S PROMISE'	WITCH HAZEL	8' MIN HT, 2.5" CAL. MIN. 3" STEM MIN.	B&B	10'-15' O.C.		x		
	LS	5*	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	2.5" CAL. MIN.	B&B	30' O.C.		x		
	PS	9	PRUNUS SERRULATA 'XWANDAN'	FLOWERING CHERRY	2.5" CAL. MIN.	B&B	20'-25' O.C.		x		
	QG	18	QUERCUS GARRYANA	GARRY OAK	2.5" CAL. MIN.	B&B	30' O.C.	x			x
EVERGREEN	AG	10	ABIES GRANDIS	GRAND FIR	8' HT MIN.	B&B	25' O.C.	x			x
	CD	3	CEDRUS DEODORA	DEODAR CEDAR	8' HT MIN.	B&B	25'-30' O.C.		x		
	CL	5	CHAMAECYPARIS LAWSONIANA	LAWSON CYPRESS	8' HT MIN.	B&B	30' O.C.		x	x	x
	PA	6	PICEA ABIES	NORWAY SPRUCE	8' HT MIN.	B&B	12'-15' O.C.				
	PC	13	PINUS CONTORTA	SHORE PINE	8' HT MIN.	B&B	20' O.C.	x			x
	PM	29	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	8' HT MIN.	B&B	20'-25' O.C.	x			x
	PSI	9	PICEA SITCHENSIS	SITKA SPRUCE	8' HT MIN.	B&B	25' O.C.	x			
	TH	8	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	8' HT MIN.	B&B	30' O.C.	x			
	TP	15	THUJA PLICATA	WESTERN RED CEDAR	8' HT MIN.	B&B	25'-30' O.C.	x			

**SEGMENT 1 WETLAND, STREAM, AND BUFFER PLANT SCHEDULE**

STRATUM	KEY	BOTANICAL NAME	COMMON NAME	INDICAT OR STATUS	SIZE	SPACING	TOTAL QTY	PLANT ZONE QUANTITIES						
								USR-1	USR-2	USR-3	USR-4	USR-5	WSS-1	WSS-2
<b>TREE</b>														
DECIDUOUS	FL	FRAXINUS LATIFOLIA	OREGON ASH	FAC	5 GAL	15' O.C.	14	6	1			7		
	FP	FRAXGULA PURSHIANA	CASCARA	FAC	2 GAL	5' O.C.	15	4			1	10		
	MF	MAIUS FUSCA	OREGON CRABAPPLE	FACW	5 GAL	15' O.C.	5		3			2		
	PE	PRUNUS EMARGINATA	BITTER CHERRY	FACU	5 GAL	15' O.C.	5		1			4		
CONIFER	PSI	PICEA SITCHENSIS	SITKA SPRUCE	FAC	5 GAL	15' O.C.	11	5	2	4				
	PM	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	FACU	5 GAL	15' O.C.	27	1		1	1	24		
<b>SHRUB</b>														
		AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	FACU	2 GAL	5' O.C.	224	31				9	184	
		CORNUS SERICEA VAR. STOLONIFERA	RED-OSIER DOGWOOD	FACW	2 GAL	5' O.C.	87						11	78
		CORYLUS CORNUSTA	BEAKED HAZELNUT	FACU	2 GAL	5' O.C.	41	31		10				
		GAULTHERIA SHALLO	SALAL	FACU	2 GAL	5' O.C.	261	163	63	35				
		HOLCOSCUS DISCOLOR	CREAMBUSH OCEANSPRAY	FACU	2 GAL	5' O.C.	239	31	16			8	184	
		LONICERA INVOLUCRATA	BLACK TWNBERRY	FAC	2 GAL	5' O.C.	251	31	16	10	9	185		
		DEMELERIA CERASIFORMIS	INDIAN PLUM	FACU	2 GAL	5' O.C.	41	31		10				
		PHILADELPHUS LEWISII	LEWIS' MOCK ORANGE	NL	2 GAL	5' O.C.	193					9	184	
		PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	FACW	2 GAL	5' O.C.	294		16		9	184	11	74
		RIBES DIVARICATUM	COAST BLACK GOOSEBERRY	FAC	2 GAL	5' O.C.	203			10	9	184		
		RIBES SANGUINEUM	RED CURRANT	FACU	2 GAL	5' O.C.	240	31	16		9	184		
		ROSA NUTKANA	NOOTKA ROSE	FAC	2 GAL	5' O.C.	225	31			9	185		
		ROSA PISOCARPA	WILD ROSE	FAC	2 GAL	5' O.C.	204			10	9	185		
		RUBUS NUTKANUS	THIMBLEBERRY	FACU	2 GAL	5' O.C.	210		16		9	185		
		SALIX GEYERIANA	GEYER'S WILLOW	FACW	5' LIVE STAKE	5' O.C.	84						10	74
		SALIX LUCIDA SSP. LASANDRIA	PACIFIC WILLOW	FACW	5' LIVE STAKE	5' O.C.	85						11	74
		SALIX SITCHENSIS	SITKA WILLOW	FACW	5' LIVE STAKE	5' O.C.	85						11	74
		SAMBUCUS RACEMOSA	RED ELDERBERRY	FACU	2 GAL	5' O.C.	223	31			8	184		
		SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	FACU	2 GAL	5' O.C.	41	31		10				
GROUND COVER		ARCTOSTAPHYLOS UVA-URSI	KINK/KINK	FACU	2 GAL	1.5' O.C.	9032	301	200	128	334	8069		
		ARUNCO DIOICUS	GOATSBEARD	FACU	1 GAL	1.5' O.C.	635	42	68	43	57	425		
		CHAMAENEDION ANGUSTIFOLIUM	FIREWEED	NL	1 GAL	1.5' O.C.	482					57	425	
		POLYSTICHUM MUNITUM	WESTERN SWORD FERN	FACU	1 GAL	1.5' O.C.	9032	301	200	128	334	8069		

**UPLAND RIPARIAN MIX:**

RANDOMLY MIX THE FOLLOWING SPECIES IN GROUPS SIMILAR TO DETAIL 4, DWG SR902 IN THE QTY. PROPORTIONS SPECIFIED BELOW

BOTANICAL NAME	COMMON NAME	QTY. (%)	SIZE	ROOT	REMARKS
<b>SHRUBS - SPACE AT 3'-0" O.C.</b>					
CORNUS SERICEA VAR. STOLONIFERA	RED-OSIER DOGWOOD	8%	30" HT	#2 CONT.	
LONICERA INVOLUCRATA	BLACK TWNBERRY	5%	30" HT	#2 CONT.	
BERBERIS AQUIFOLIUM	SHINING OREGON-GRAPE	5%	18" HT	#1 CONT.	PLANT IN CLUSTERS OF (3)
PHILADELPHUS LEWISII	LEWIS' MOCK ORANGE	2%	12" HT	#1 CONT.	
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	2%	30" HT	#2 CONT.	
RIBES SANGUINEUM	RED CURRANT	5%	18" HT	#1 CONT.	
ROSA NUTKANA	NOOTKA ROSE	4%	18" HT	#1 CONT.	PLANT IN CLUSTERS OF (3)
RUBUS NUTKANUS	THIMBLEBERRY	5%	18" HT	#1 CONT.	
RUBUS SPECTABILIS	SALMONBERRY	2%	18" HT	#1 CONT.	
SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	2%	18" HT	#1 CONT.	

**GROUND COVER AND PERENNIALS - SPACE AT 18" O.C.**

RANDOMLY MIX THE FOLLOWING SPECIES IN GROUPS IN THE QTY. PROPORTIONS SPECIFIED BELOW

BOTANICAL NAME	COMMON NAME	QTY. (%)	SIZE	ROOT	REMARKS
ARCTOSTAPHYLOS UVA-URSI	KINK/KINK	15%	6" HT	#1 CONT.	PLANT ABOVE OHWM
FRAGARIA SP.	STRAWBERRY	15%	6" HT	#1 CONT.	PLANT ABOVE OHWM
GAULTHERIA SHALLO	SALAL	15%	6" HT	#1 CONT.	PLANT ABOVE OHWM
VANCOUVERIA HEXANDRA	INSIDE-OUT-FLOWER	15%	6" HT	#1 CONT.	PLANT ABOVE OHWM

**Planting Schedule**

REFERENCE #: NWS-2017-0533

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
**Wastewater Treatment Division**  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

 Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

 PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

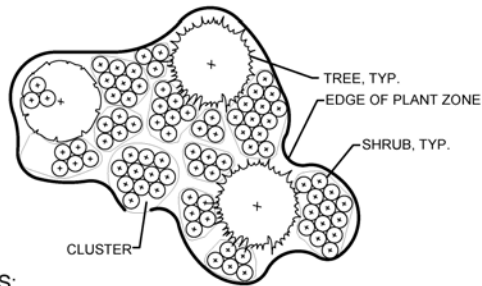
NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 24 of 35

DATE: March 2023

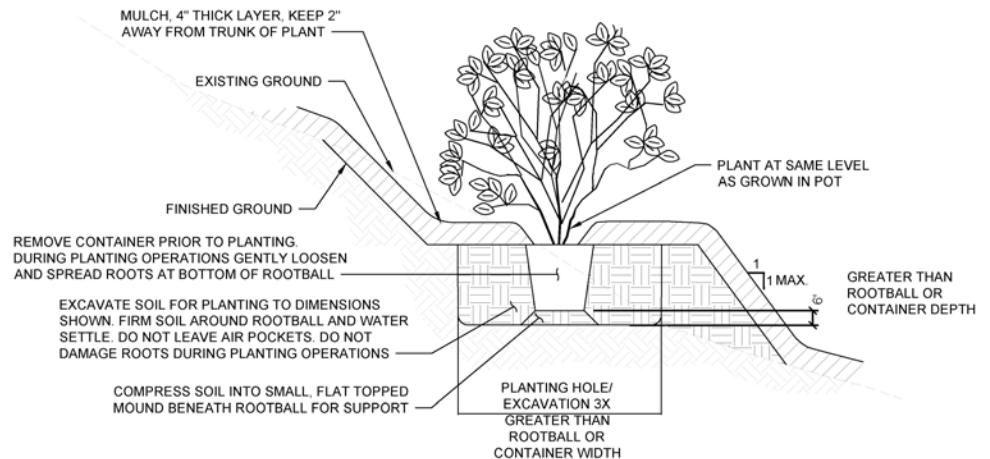


#### NOTES:

1. PLANT SHRUBS IN CLUSTERS OF UNEVEN NUMBERS (E.G. THREE, FIVE, SEVEN, ETC.)
2. PLANT ONE SPECIES OF SHRUBS IN CLUSTERS OF THREE, FIVE, SEVEN, ETC.
3. EVENLY SPACE CLUSTERS THROUGHOUT PLANTING AREA.
4. INTENT OF SHRUB PLANTING IS TO APPEAR NATURAL AND INFORMAL.
5. DO NOT LEAVE OPEN GAPS BETWEEN CLUSTERS.

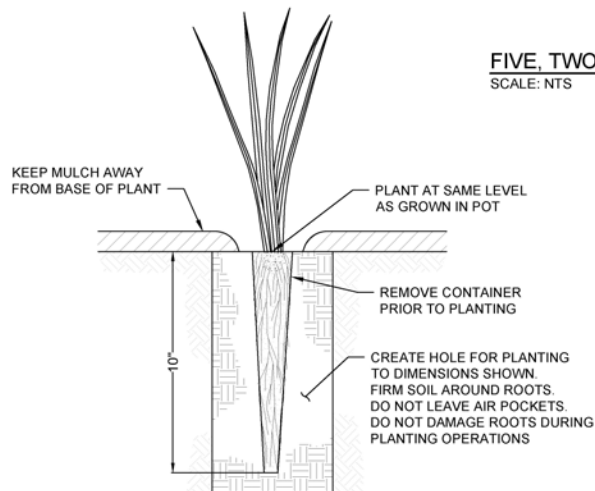
#### SHRUB SPACING AROUND TREES

SCALE: NTS



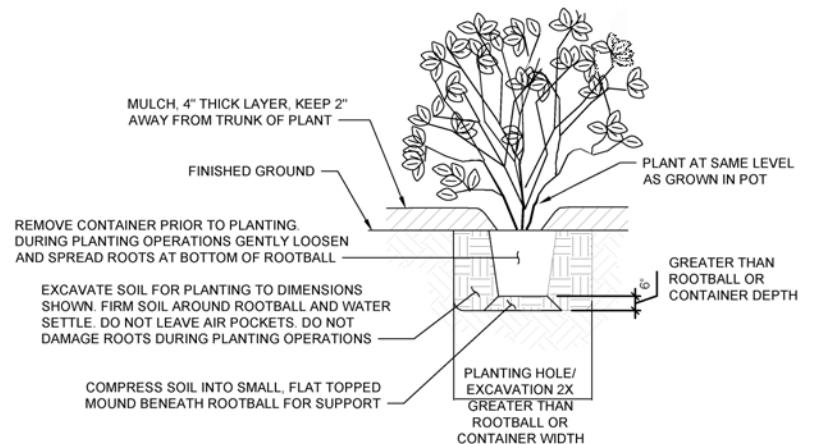
#### FIVE, TWO, AND ONE GALLON CONTAINER PLANTING ON SLOPE

SCALE: NTS



#### 10 CUBIC-INCH PLUG PLANTING

SCALE: NTS



#### FIVE, TWO, AND ONE GALLON CONTAINER PLANTING

SCALE: NTS

## Wetland and Stream Restoration Details

REFERENCE #: NWS-2017-0533

#### APPLICANT:

**King County**  
Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

#### LOCATION:

Parcels 1125059096 and 112505HYDR

#### Lat/Long:

North End: 47° 40' 42.549\"/>

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
repair, remove, or decommission parts of the existing sewer;  
and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

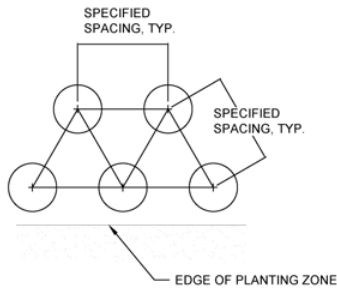
NEAR/AT: Redmond

COUNTY: King

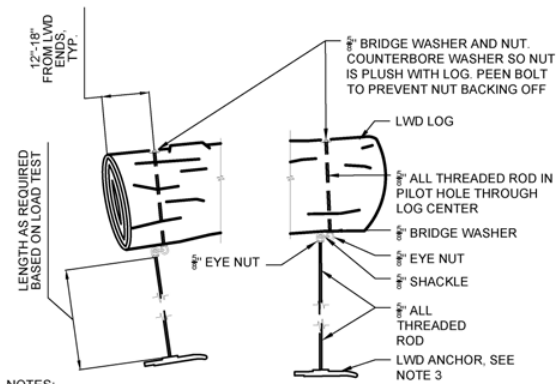
STATE: WA

SHEET: 25 of 35

DATE: March 2023

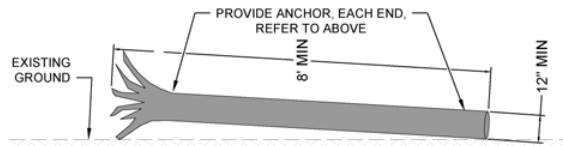


**TRIANGULAR PLANT SPACING**  
SCALE: NTS



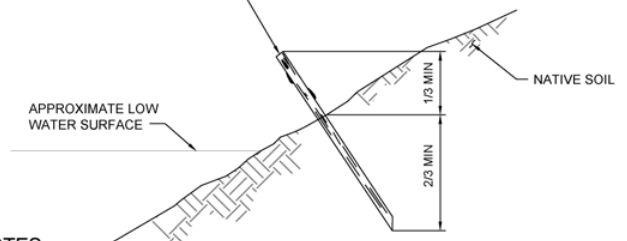
**NOTES:**

1. LWD-BANK LOG LENGTHS SHOWN IN PLAN ARE CONCEPTUAL AND NOT BASED ON CURRENT AVAILABILITY. VARY LOG LENGTH AND DIAMETER TO NATURALIZE APPEARANCE. REFER TO DRAWINGS AND SPECIFICATIONS.
2. PLACEMENT OF LWD SHALL BE VARIED IN ORIENTATION AND SPACING TO MINIMIZE DISTURBANCE TO EXISTING TREES. ACTUAL CONFIGURATION TO BE FIELD DIRECTED BY THE PROJECT REPRESENTATIVE.
3. TWO ANCHORS PER LWD-BANK LOG OR KEY PIECE. ANCHORS NOT REQUIRED FOR MOBILE WOOD. ACTUAL ORIENTATION AND LOCATION OF ANCHORS SHALL BE DIRECTED BY THE PROJECT REPRESENTATIVE.
4. KEY PIECE LOGS AS INDICATED IN THE DRAWINGS SHALL BE MINIMUM 22" DIAMETER AND MINIMUM 18' IN LENGTH.



INSTALL LIVE STAKE APICAL END UP SO THAT AT LEAST TWO NODES/BUD SCARS ARE ABOVE GROUND WITH AT LEAST 2/3 OF STAKE BELOW GROUND

APPROXIMATE LOW WATER SURFACE



**NOTES:**

1. BASAL END OF LIVE STAKES SHALL BE 1 TO 2 INCHES IN DIAMETER.
2. KEEP LIVE STAKES COVERED, COOL, AND MOIST AT ALL TIMES PRIOR TO PLANTING. AT NO TIME SHOULD PLANT MATERIAL BE EXPOSED AND ALLOWED TO DRY OUT. LIVE STAKES CAN BE TEMPORARY STORED IN WATER PRIOR TO INSTALLATION.
3. PRE-DRIVE HOLE UTILIZING REBAR PRIOR TO INSERTING LIKE STAKE CUTTING. TAMP SOIL TO REMOVE AIR POCKETS. LIGHTLY DRIVE LIKE STAKE A MINIMUM OF  $\frac{1}{3}$  LENGTH BELOW GROUND UTILIZING A RUBBER Mallet. ENSURE LIVE STAKE CUTTING HAS MINIMUM OF TWO LIVE BUDS ABOVE GRADE.

**LIVE STAKE PLANTING**

SCALE: NTS

## Wetland and Stream Restoration Details

REFERENCE #: NWS-2017-0533

**APPLICANT:**



**King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

**LOCATION:**

Parcels 1125059096 and 112505HYDR

**Lat/Long:**

North End: 47° 40' 42.549"/-122° 7' 55.3902"  
South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

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IN: Sammamish River and Wetland E affected areas only

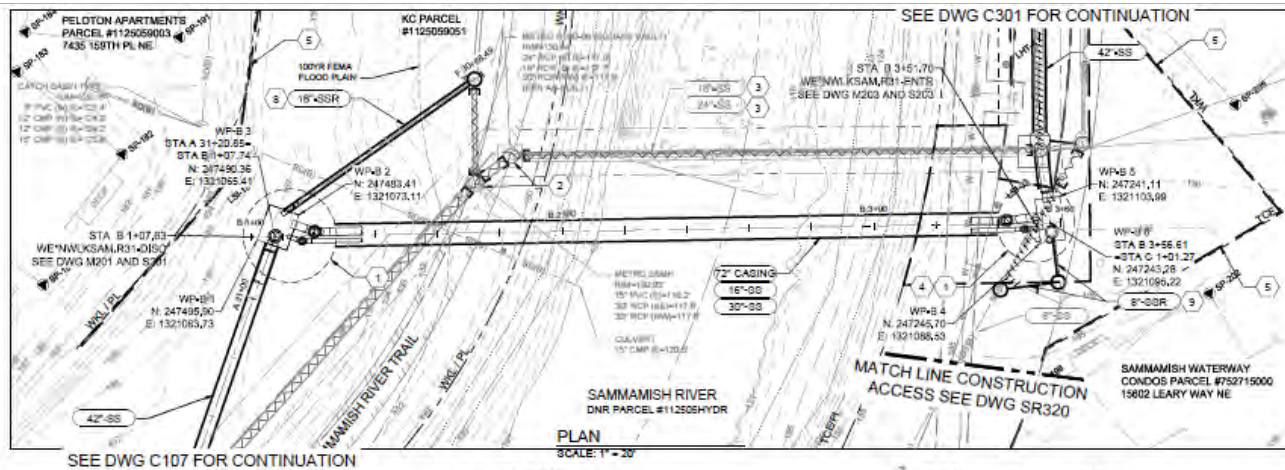
NEAR/AT: Redmond

COUNTY: King

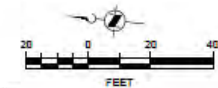
STATE: WA

SHEET: 26 of 35

DATE: March 2023



**SAMMAMISH RIVER  
LONG-TERM PERMANENT IMPACT  
(110 LINEAR FT)**



**KEY NOTES:**

- 1 SHAFT LOCATION AND SIZE IS APPROXIMATE AND IS SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO DETERMINE SIZE AND SHAPE OF SHAFTS.
- 2 ABANDON EX. MH
- 3 ABANDON EX. SIPHON
- 4 REMOVE EX. SEWER WITHIN EXTENTS OF TRENCHLESS SHAFT.
- 5 NOISE BARRIER LOCATION SHOWN IS APPROXIMATE.
- 6 WITHIN SHAFT - FILL CLASS O FROM WORKING BASE SLAB TO LIMIT SHOWN ON M DWGS.
- 7 16" SIE TO MATCH 30" SIE.
- 8 NEW 18" SDR AND MH; SEE DWG C107.
- 9 NEW 8" SDR AND MH; SEE DWG C301.

**NOTES:**

1. INVERT ELEVATIONS REPRESENT PIPE ELEVATIONS AT CENTER OF MANHOLE UNLESS OTHERWISE NOTED.
2. FINAL GRADE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
3. STATIONING SHOWN ALONG CENTERLINE OF 72" CASING.
4. STRUCTURE WORK POINTS LOCATED ON OUTSIDE CORNERS OF STRUCTURE.



**Sammamish River Crossing  
Profile/Section View**

REFERENCE: (To be filled out by USACE)

APPLICANT:

**King County**  
Department of Natural Resources and Parks  
**Wastewater Treatment Division**  
Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
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IN: Sammamish River and Wetland E affected areas only  
NEAR/AT: Redmond

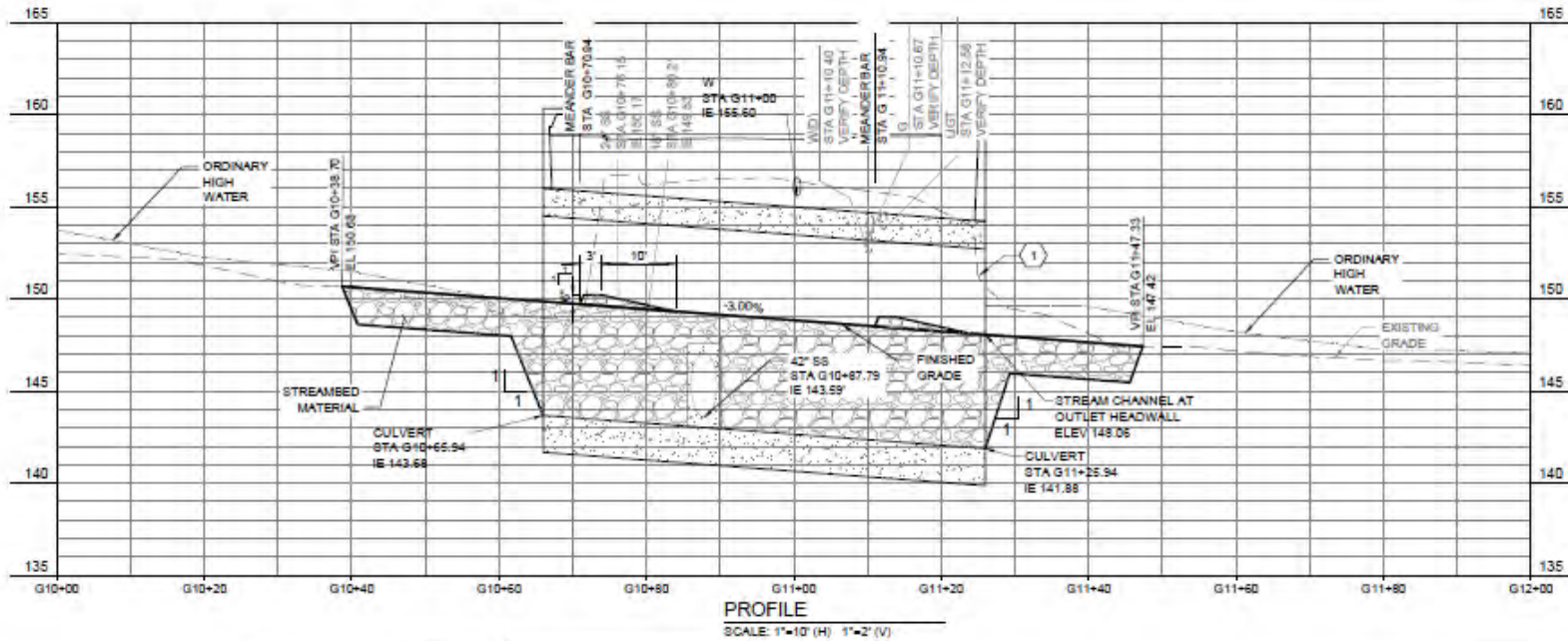
NEAR/AT: Redmond  
COUNTY: King

STATE: WA

SHEET: 27 of 35

DATE: March 2023





**KEY NOTES:**

1 SEE DWG 0351-0359 FOR STRUCTURAL DESIGN.

**DATUM:**  
VERTICAL DATUM = METRO  
NAVD88 = (METRO DATUM) - 96.42 FT

## Country Creek Profile

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
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IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

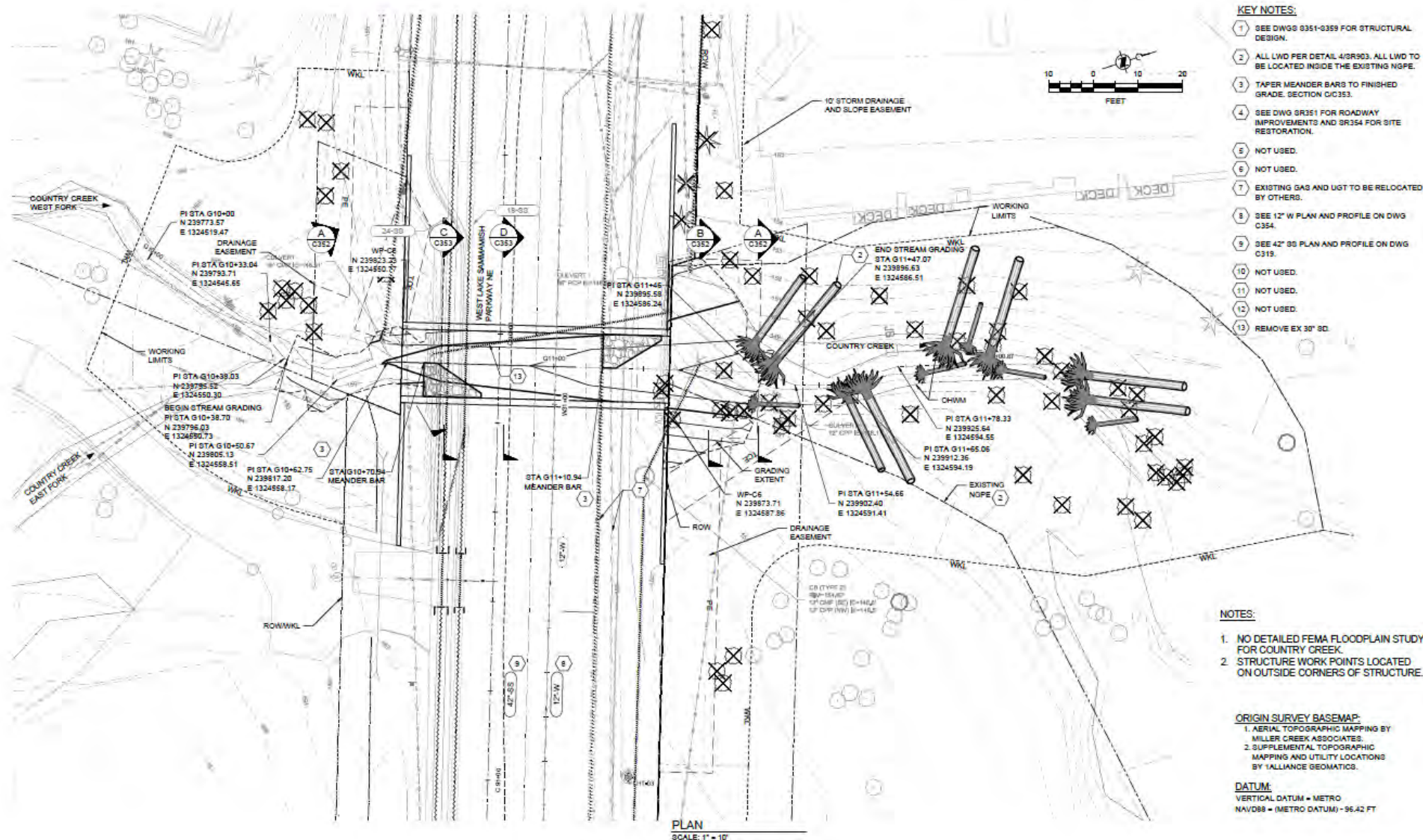
NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 28 of 35

DATE: March 2023



## Country Creek Detail

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

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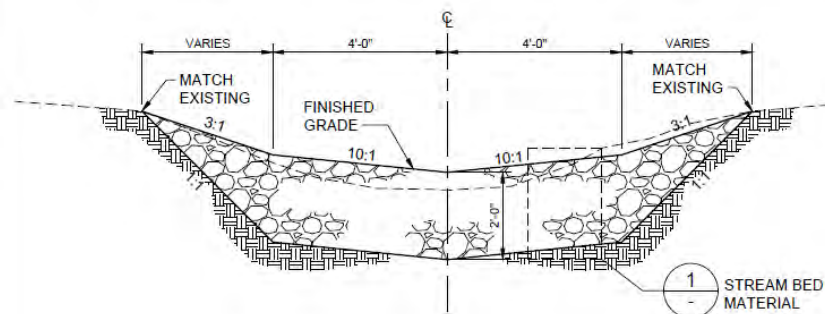
NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 29 of 35

DATE: March 2023



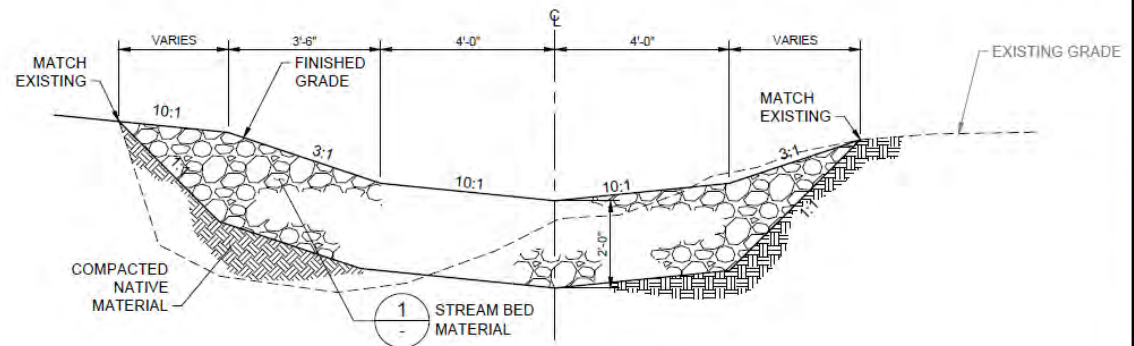
### SECTION

SCALE: 1/2" = 1'-0"

STA G10+38.70 TO G10+65.74

STA G11+43.00 TO G11+47.33

A  
C351

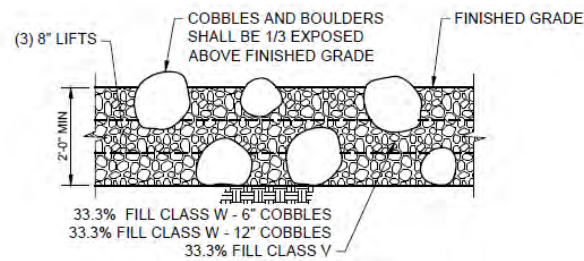


### SECTION

SCALE: 1/2" = 1'-0"

STA G11+25.94 TO G11+43.00

B  
C351



### STREAM BED MATERIAL

### DETAIL

SCALE: NTS

1  
-

## Country Creek Sections and Details

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
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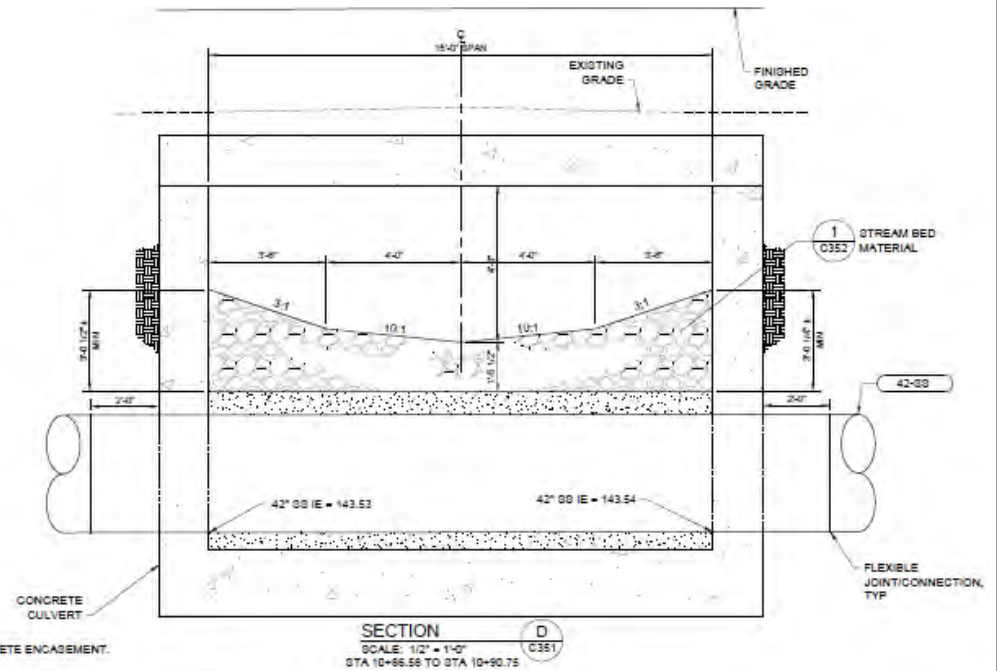
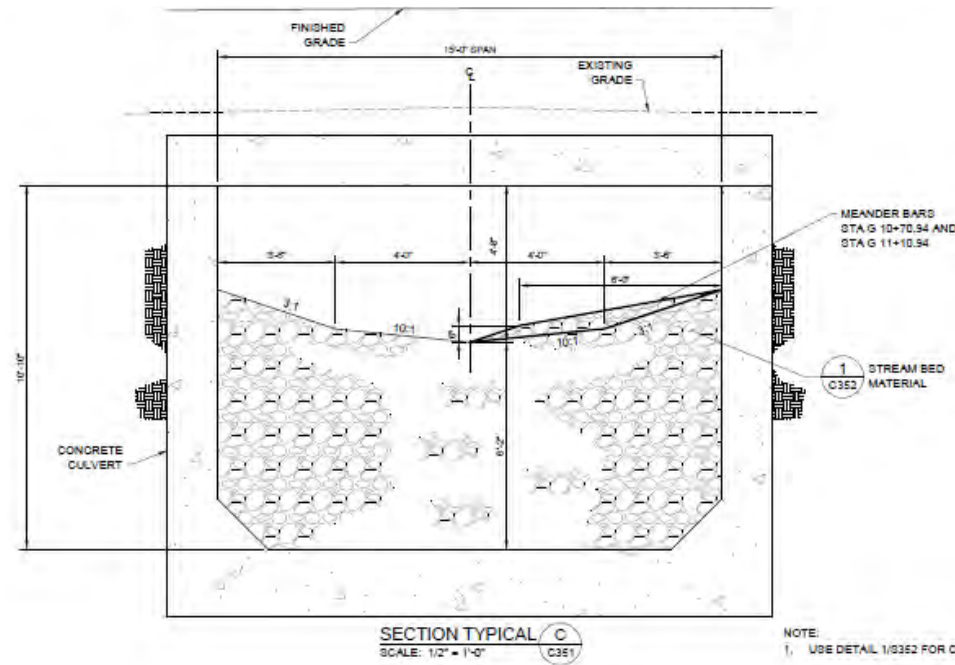
COUNTY: King

STATE: WA

SHEET: 30 of 35

DATE: March 2023





## Country Creek Sections and Details

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
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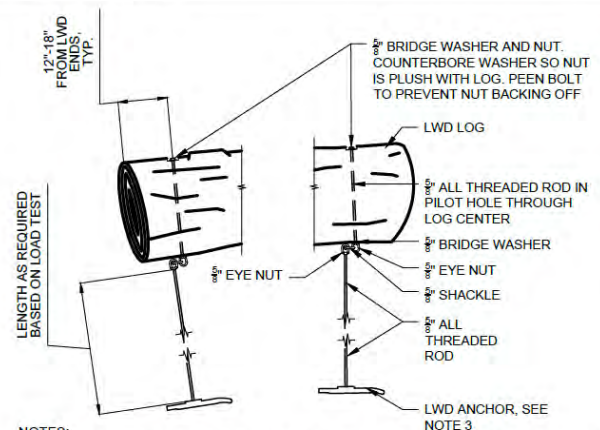
COUNTY: King

STATE: WA

SHEET: 31 of 35

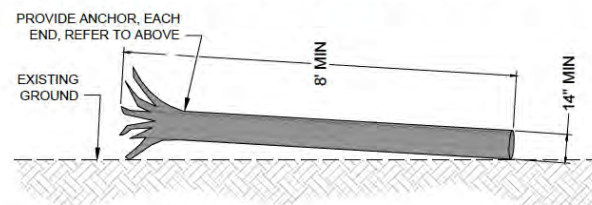
DATE: March 2023





**NOTES:**

1. LWD-BANK LOG LENGTHS SHOWN IN PLAN ARE CONCEPTUAL AND NOT BASED ON CURRENT AVAILABILITY. VARY LOG LENGTH AND DIAMETER TO NATURALIZE APPEARANCE. REFER TO DRAWINGS AND SPECIFICATIONS.
2. PLACEMENT OF LWD SHALL BE VARIED IN ORIENTATION AND SPACING TO MINIMIZE DISTURBANCE TO EXISTING TREES. ACTUAL CONFIGURATION TO BE FIELD DIRECTED BY THE PROJECT REPRESENTATIVE.
3. TWO ANCHORS PER LWD-BANK LOG. ACTUAL ORIENTATION AND LOCATION OF ANCHORS SHALL BE DIRECTED BY THE PROJECT REPRESENTATIVE



**LARGE WOODY DEBRIS (LWD)**

SCALE: NTS

4  
VARIES

**Country Creek  
Sections and Details**

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:

Parcels 1125059096 and 112505HYDR

Lat/Long:

North End: 47° 40' 42.549"/-122° 7' 55.3902"

South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair,  
remove, or decommission parts of the existing sewer; and restoration/  
mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

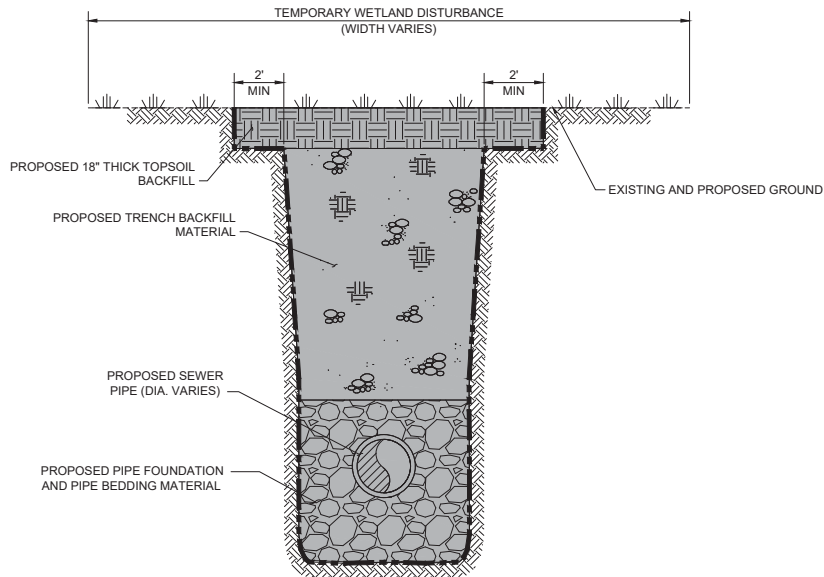
NEAR/AT: Redmond

COUNTY: King

STATE: WA

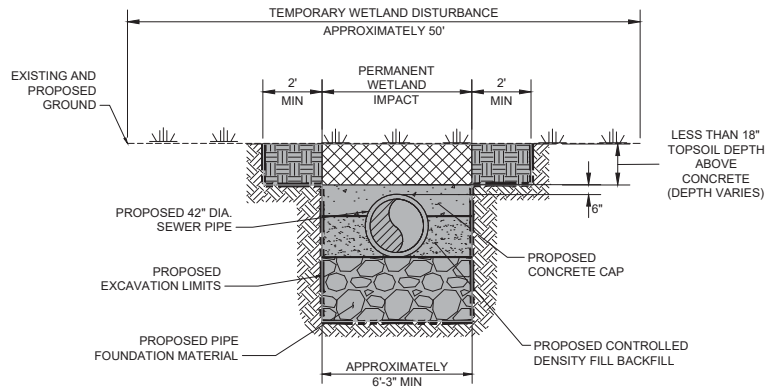
SHEET: 32 of 35

DATE: March 2023



SECTION-TYPICAL PIPE TRENCH INSTALLATION THROUGH WETLAND  
SCALE: NTS

A

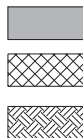


SECTION-TYPICAL PIPE TRENCH INSTALLATION THROUGH WETLAND K  
WITH LESS THAN 18" OF TOPSOIL COVER (APPROX 30 LF)  
SCALE: NTS

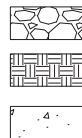
B

LEGEND:

----- EXISTING AND PROPOSED GROUND  
 - - - - - PROPOSED EXCAVATION LIMITS  
 ~~~~~~ EXISTING WETLAND



TEMPORARY WETLAND IMPACT  
 PERMANENT WETLAND IMPACT  
 EXISTING NATIVE SOIL



PROPOSED PIPE BEDDING AND  
PIPE FOUNDATION MATERIAL  
 PROPOSED TOPSOIL  
 PROPOSED CONCRETE CAP



PROPOSED CONTROLLED  
DENSITY FILL BACKFILL

## Typical Trench Section and Concrete Cap Section (Wetland K)

REFERENCE #: NWS-2017-0533

APPLICANT:

**King County**  
 Department of Natural Resources and Parks  
 Wastewater Treatment Division  
 Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:

See Sheets 25-30

Lake Hills Trunk and Northwest Lake Sammamish  
 Interceptor Upgrade

LOCATION:  
 Parcels 1125059096 and 112505HYDR

Lat/Long:  
 North End: 47° 40' 42.549"/-122° 7' 55.3902"  
 South End: 47° 37' 40.638"/-122° 6' 12.9996"

DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer;  
 repair, remove, or decommission parts of the existing sewer;  
 and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only

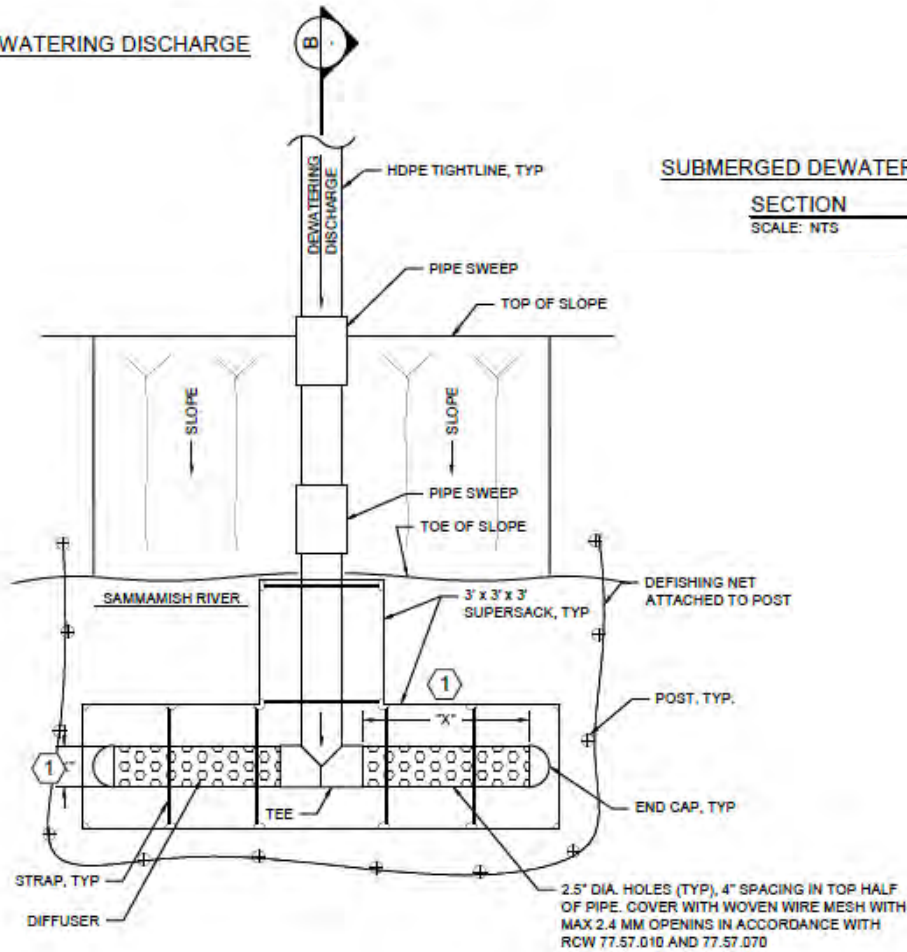
NEAR/AT: Redmond

COUNTY: King STATE: WA

SHEET: 33 of 35

DATE: March 2023

## SUBMERGED DEWATERING DISCHARGE



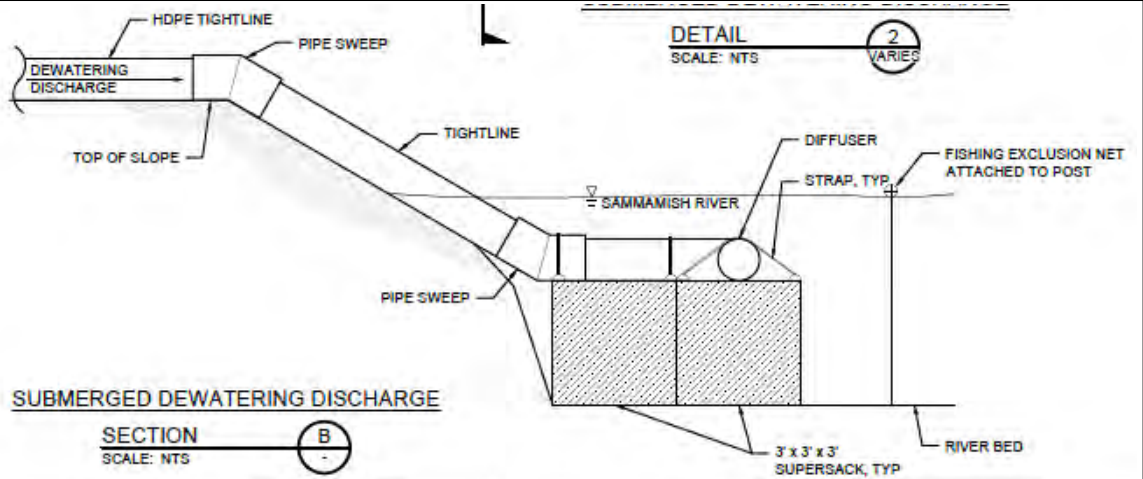
## SUBMERGED DEWATERING DISCHARGE

SECTION  
SCALE: NTS

B

DETAIL  
SCALE: NTS

2  
VARIES



## Dewatering Discharge Detail

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:  
Parcels 1125059096 and 112505HYDR

Lat/Long:  
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DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair,  
remove, or decommission parts of the existing sewer; and restoration/  
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IN: Sammamish River and Wetland E affected areas only

NEAR/AT: Redmond

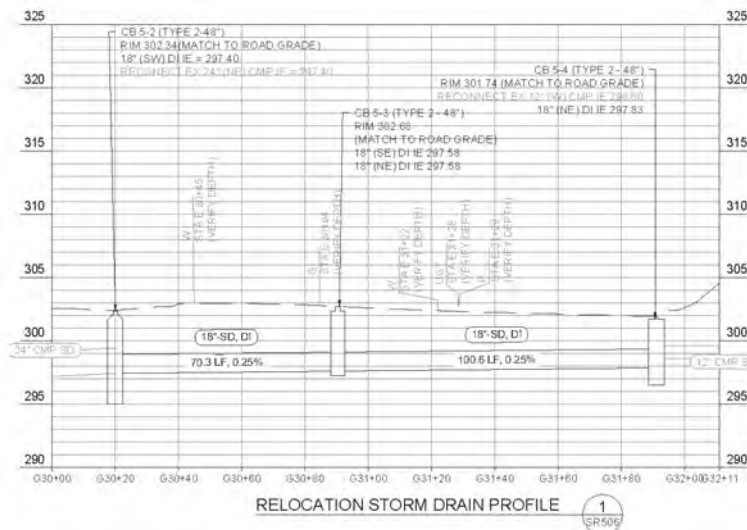
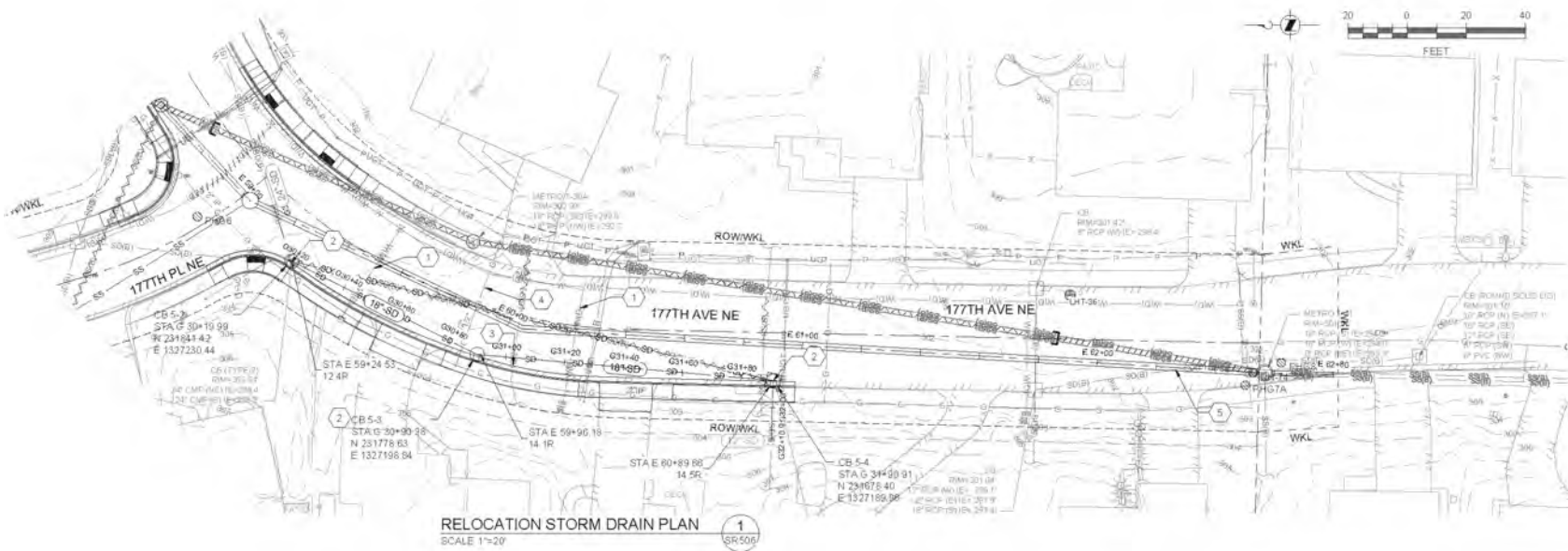
NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 34 of 35

DATE: March 2023



- KEY NOTES:**
- 1 CONTRACTOR TO VERIFY AND RELOCATE WATER LINE AS NEEDED.
  - 2 REPLACE EXISTING CATCH BASIN WITH 48" CATCH BASIN TYPE 2 PER COR/WSDOT STD PLAN B-10 20-01 WITH VANED GRATE PER COR/WSDOT STD PLAN B-30 30-02.
  - 3 NEW 48" CATCH BASIN TYPE 2 PER COR/WSDOT STD PLAN B-10 20-01 WITH VANED GRATE PER COR/WSDOT STD PLAN B-30 30-02.
  - 4 CONTRACTOR TO VERIFY AND RELOCATE GAS LINE AS NEEDED.
  - 5 PROTECT EXISTING UTILITY.
- NOTES:**
- 1 INVERT ELEVATIONS REPRESENT PIPE ELEVATIONS AT CENTER OF MH UNLESS OTHERWISE NOTED.
  - 2 FINAL GRADE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
  - 3 EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND FOR UTILITY RELOCATIONS IF REQUIRED.

**ORIGIN OF SURVEY BASEMAP:**

**DATUM:**  
NAVD83 = (METRO DATUM) + 96.42 FT

## Brae Burn Creek Plan and Profile Detail

REFERENCE: (To be filled out by USACE)

APPLICANT:



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

Permitting Lead: Hillary Jones

ADJACENT PROPERTY OWNERS:  
See JARPA and Attachment B Forms

Lake Hills Trunk and Northwest Lake Sammamish  
Interceptor Upgrade

LOCATION:  
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DATUM: King County Metro Datum

PROPOSED PROJECT: Install replacement gravity sewer; repair, remove, or decommission parts of the existing sewer; and restoration/mitigation for wetland impacts

IN: Sammamish River and Wetland E affected areas only  
NEAR/AT: Redmond

NEAR/AT: Redmond

COUNTY: King

STATE: WA

SHEET: 35 of 35

DATE: March 2023