### **SEPA** ENVIRONMENTAL CHECKLIST

#### **Purpose of checklist**

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

#### Instructions for applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. **You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown.** You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to **all parts of your proposal**, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

#### Instructions for lead agencies

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

#### Use of checklist for nonproject proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the <u>Supplemental Sheet for Nonproject Actions (Part D)</u>. Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

#### A. Background Find help answering background questions

#### 1. Name of proposed project, if applicable:

Rocky Ridge and Lakewood Sewer Pump Station Improvement Project

#### 2. Name of applicant:

Lake Whatcom Water and Sewer District (LWWSD)

#### 3. Address and phone number of applicant and contact person:

Kristin Hemenway 1220 Lakeway Drive Bellingham, WA 98229 360-734-9224

#### 4. Date checklist prepared:

June 12, 2023

#### 5. Agency requesting checklist:

Lake Whatcom Water and Sewer District

#### 6. Proposed timing or schedule (including phasing, if applicable):

Design of the pump and power line replacement portion of the project is anticipated to be complete in summer 2023, with construction beginning June 2024. Design of the pump station access routes are expected to be complete in summer 2024, with construction beginning June 2025.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No.

- 8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
  - Technical Memorandum RE. Rocky Ridge and Lakewood Sewer Pump Station Improvements Critical Areas (RH2 Engineering, Inc., October 2022).
  - Preliminary Biological Assessment *Rocky Ridge and Lakewood Sewer Pump Station Improvements* (RH2 Engineering, Inc., June 2023).
- 9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known.

#### 10. List any government approvals or permits that will be needed for your proposal, if known.

- Shoreline Exemption Whatcom County (Pump and Powerline Replacement)
- Substantial Shoreline Development Permit Whatcom County (Pump Access Routes)
- 11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

LWWSD owns and operates two sewer pump stations along the southern shoreline of Lake Whatcom. The Lakewood pump station is on parcel No. 370406419422, a property owned by Western Washington University (WWU). The Rocky Ridge pump station is on parcel No. 380431093100, of private ownership. Both pump stations are approximately forty years old and at the end of their design life. Under the Shoreline Exemption permit, the District is planning to replace the pumps, the underground powerline and telephone and pump controls with modern equipment. Under the Substantial Shoreline Development Permit, LWWSD wishes to construct new, safe access routes to both pump stations.

The Lakewood Parcel No. 370406419422 is 8.29 acres. The pump station improvements project site within the Lakewood Parcel is approximately 2,500 sf. The proposed Rocky Ridge pump station improvements extend through parcels No. 380431093100, 380431087103, 380431079111, 380431066114, and 380431061121 along existing sanitary sewer easements. The combined area of the parcels is 1.26 acres. The sanitary sewer easements cover approximately 4,800 sf, and the Rocky Ridge project site is approximately 3,300 sf within these parcels.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The Lakewood pump station proposed site improvements are contained on parcel No. 370406419422, located at 2410 Lake Whatcom Blvd, Bellingham, WA 98229. The Rocky Ridge pump station proposed site improvements are along several properties within several existing 10' wide easements for sanitary sewer facilities. The improvements will take place on parcels No. 380431061121, 380431066114, 380431079111, 380431087103, and 380431093100, from street address 2532 Lake Whatcom Blvd, Bellingham, WA 98229 to 2526 Lake Whatcom Blvd, Bellingham, WA 98229. The Lakewood pump station site is in Section 6 of Township 37 North, of Range 4 East. The Rocky Ridge pump station site is

in Section 31 of Township 37 North, Range 04 East. Please see attached site plans, which include topographic information, and vicinity map.

#### **B. Environmental Elements**

#### 1. Earth Find help answering earth questions

a. General description of the site:

Circle or highlight one: Flat, rolling, hilly, steep slopes, mountainous, other:

b. What is the steepest slope on the site (approximate percent slope)?

Lakewood: 15%; Rocky Ridge: 35%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them, and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

According to Natural Resources Conservation Service soil survey data, the soil in the vicinity of the Rocky Ridge site is Nati Loam and the soil in the vicinity of the Lakewood site is Squalicum gravelly loam. This soil map unit is not considered prime farmland and no agricultural soils will be removed with this project.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

None known.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The project will require excavation for power and control conduits and grading. The proposed access routes for both the Rocky Ridge and Lakewood sites are a combination of gravel pathway and grated staircase. The construction of the pathways will require minimal grading to provide even surface. The installation of staircase footings will require minimal excavation.

#### f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

The only construction on steeper slopes will be excavation for power and control conduits, the installation of stair footings and installation of the grated stairways. Erosion will be mitigated with temporary erosion control measures. Permanent construction will include elevated pervious walkways to minimize erosion.

### g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The proposed access route on the Rocky Ridge site will create 300 sf of new impervious surface over parcels No. 380431087103 and 380431093100, which currently contain no impervious surface. Based on the area of the two parcels, the parcels will be 1.6-percent impervious after project construction. The Lakewood pump station is on the west side of parcel No. 370406419422. The project site is approximately 2,500 sf of the 361,211 sf parcel. There is currently no impervious surface on the 2,500 sf project site. The new impervious surface will be 200 sf and the project site will have 8.0-percent impervious cover after project construction.

#### h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

#### 2. Air Find help answering air questions

# a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

During construction, the proposed replacement pumps will likely be transported to the Lakewood and Rocky Ridge sites by barge via Lake Whatcom, which will generate some diesel or gasoline emissions. Removal of existing pumps, installation of proposed pumps, access route construction, and underground powerline installation will require construction equipment, producing temporary diesel exhaust and dust emissions. The competed project will not produce emissions.

## b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No off-site sources of emissions or odor are anticipated to affect the proposal.

#### c. Proposed measures to reduce or control emissions or other impacts to air, if any.

Construction equipment and vehicles shall conform with Washington State standards for air quality, including using properly functioning equipment and vehicles that have passed emissions testing, using clean-burning fuels when possible, limiting diesel exhaust, limiting vehicle idling, etc. BMPs to reduce and control air emissions shall be included in the project design and specifications, as applicable. Any air quality specific permit conditions will be included in project design and specifications, as well.

#### 3. Water Find help answering water questions

#### a. Surface Water: Find help answering surface water questions

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Both the Lakewood and Rocky Ridge pump stations are along the south shore of Lake Whatcom.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If

#### yes, please describe and attach available plans.

The Rocky Ridge pump station is approximately 18 ft from the ordinary high water mark of Lake Whatcom. The Lakewood pump station is approximately 15 ft from the ordinary high water mark of Lake Whatcom.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill and dredge material will be placed in or removed from surface water or wetlands.

4. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities if known.

No.

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No, Lake Whatcom is a controlled reservoir.

6. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No, temporary erosion and sediment control measures along with other best management practices will be implemented during construction to avoid waste materials from entering Lake Whatcom.

#### b. Ground Water: Find help answering ground water questions

1. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.

No.

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

#### c. Water Runoff (including stormwater):

a) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

This project proposes minimal increase in new impervious surfaces and will not significantly impact the existing runoff patterns of the site.

#### b) Could waste materials enter ground or surface waters? If so, generally describe.

No.

c) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No.

d) Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any.

BMPs will be implemented to avoid and minimize impacts to nearby surface waters during project construction. Project design will be completed to adhere to applicable local, state, and federal regulations, which provide standards to reduce and control impacts to surface, ground, and storm waters, and drainage patterns. A Construction Stormwater Pollution Prevention Plan consistent with local and Ecology requirements will be included in project construction documents and implemented throughout construction of the project.

4. Plants Find help answering plants questions

#### a. Check the types of vegetation found on the site:

- deciduous tree: alder maple, aspen, other: Scouler's Willow
- 🛛 evergreen tree: fir, cedar, pine, other
- <u> shrubs</u>
- 🛛 grass

**\_\_\_**pasture

□ orchards, vineyards, or other permanent crops.

wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

**<u>other</u>** types of vegetation: Horsetail, Sword fern, Lady fern, Nettle, Indian Plum, sweet velvetgrass

#### b. What kind and amount of vegetation will be removed or altered?

Some invasive species and herbaceous native species including horsetail, buttercup, and sweet velvetgrass will be removed for the gravel access paths on both the Lakewood and Rocky Ridge sites.

#### c. List threatened and endangered species known to be on or near the site.

Based on a review of Washington State Department of Natural Resources Natural Heritage data and US Fish and Wildlife Service (USFWS) Information for Planning and Consultation

(IPaC) data, no threatened or endangered plant species are known to be on or near the project site.

### d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.

Propose to remove invasive species (Ivy, Holly, and Himalayan Blackberry) and replant native species (Indian Plum and Salmon Berry).

#### e. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry; English Ivy; Reed canary grass; Holly.

#### 5. Animals Find help answering animal questions

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

- Birds: hawk, heron eagle, songbirds, other:
- Mammals: deer, bear, elk, beaver, other:
- Fish: bass, salmon, trout, herring, shellfish, other:

#### b. List any threatened and endangered species known to be on or near the site.

From the Washington Fish and Wildlife Office evaluation for *Information for Planning and Consultation* the following threatened animals may be on or near the site: Marbled Murrelet, Yellow-Billed Cuckoo, and Bull Trout.

#### c. Is the site part of a migration route? If so, explain.

The project area is within the Pacific Flyway migration route; therefore, it may provide habitat for migratory bird species. Washington Fish and Wildlife Office data indicates five migratory species recognized as Birds of Conservation Concern may be found within the project area: the Black Swift, Evening Grosbeak, Olive-sided Fly Catcher, Rufous Hummingbird, and Western Grebe.

#### d. Proposed measures to preserve or enhance wildlife, if any.

The project proposes minimal disturbance to trees and shrubs and to replace invasive species in the area with a native woody plants. This will minimize impacts to insects, small mammals, and birds that may utilize these areas.

Implementation of TESC measures during construction will help limit erosion, water runoff, and sedimentation into nearby waterbodies, thereby preventing project impacts to fish species in Lake Whatcom.

#### e. List any invasive animal species known to be on or near the site.

No invasive species were observed during project site visits.

6. Energy and Natural Resources Find help answering energy and natural resource questions

1. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Gasoline and oil will be used to fuel construction equipment for construction of the project. The constructed project will not require additional energy needs.

2. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No, the proposed construction is limited to walking surfaces or installation of infrastructure (underground power, pump) below grade.

3. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

None.

7. Environmental Health Find help with answering environmental health questions

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

No.

1. Describe any known or possible contamination at the site from present or past uses.

None known.

2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Construction of the project will utilize oil- and gas-fueled equipment and may require temporary fuel storage onsite. These uses do carry some risk of spill; however, the risk should be minimized with the implementation of spill control methodologies to be outlined in the project design and technical specifications, and in accordance with Washington State pollution control standards.

#### 4. Describe special emergency services that might be required.

No special emergency services are anticipated.

#### 5. Proposed measures to reduce or control environmental health hazards, if any.

No additional measures beyond those mentioned previously.

#### b. Noise

1. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

The project is adjacent to a main thoroughfare but traffic noise is not expected to impact the project.

2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site)?

Temporary construction noise would occur with the pump, powerline replacement, and access route construction work, including noise from construction vehicles and machinery. The contractor will need to follow regulations set forth in Whatcom County Code (WCC) 9.44, including controlling the level and timing of noise generated during construction.

#### 3. Proposed measures to reduce or control noise impacts, if any.

Construction activities and proposed site improvements shall comply with noise regulations of WCC.

#### 8. Land and Shoreline Use Find help answering land and shoreline use questions

### a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The parcels to be impacted by the Rocky Ridge pump station improvements are residential or undeveloped. The existing pump station serves the residential area and its replacement will not affect current land use. The parcel the Lakewood pump station is located on is a recreational property owned by WWU. The replacement of the existing pump and access improvements will not affect the current use of the parcel or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No.

1. Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?

No.

#### c. Describe any structures on the site.

There are no structures on parcels no. 380431087103 and 380431093100 where the Rocky Ridge pump station is located and where the proposed access route will lie. There are residential structures on parcels No. 380431061121, 380431066114, and 380431079111 where the proposed underground power line for the Rocky Ridge pump station will be located. The Lakewood pump station site, parcel No. 370406419422, has two boat houses and several docks.

#### d. Will any structures be demolished? If so, what?

None.

#### e. What is the current zoning classification of the site?

The project sites are classified as Rural Community.

#### f. What is the current comprehensive plan designation of the site?

Rural Community.

g. If applicable, what is the current shoreline master program designation of the site?

Shoreline Residential.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any.

N/A

I. Proposed measures to ensure the proposal is compatible with existing and projected land

#### uses and plans, if any.

The proposed project will replace an existing sewer pump which is compatible with existing land use.

### m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any.

The project does not impact agricultural or forest lands.

#### 9. Housing Find help answering housing questions

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or lowincome housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any.

The project will not impact existing or future housing.

#### **10. Aesthetics** Find help answering aesthetics questions

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The stair railings for the proposed access routes may be up to 15 ft above grade depending on the stair grating elevation. The stair gratings and rails will be steel. There are no proposed buildings for this project.

#### b. What views in the immediate vicinity would be altered or obstructed?

None.

#### c. Proposed measures to reduce or control aesthetic impacts, if any.

The proposed access routes will be designed and constructed in a manner acceptable to the owners of the parcels where the pump stations are located.

#### **11. Light and Glare** Find help answering light and glare questions

#### a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

No light glare will be produced.

#### b. Could light or glare from the finished project be a safety hazard or interfere with views?

The project will not cause temporary or permanent light glare.

#### c. What existing off-site sources of light or glare may affect your proposal?

None expected.

#### d. Proposed measures to reduce or control light and glare impacts, if any.

No temporary or permanent light glare is expected to result from the project.

#### 12. Recreation Find help answering recreation questions

#### a. What designated and informal recreational opportunities are in the immediate vicinity?

Lake Whatcom is used for recreation (ex. boating, swimming, fishing) and the Lakewood pump station site is on a property designated for WWU recreation.

#### b. Would the proposed project displace any existing recreational uses? If so, describe.

No, both pump stations already exist and the proposed improvements will not displace recreational space.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.

None needed.

#### **13. Historic and Cultural Preservation** Find help answering historic and cultural preservation <u>questions</u>

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Whatcom County GIS data does not contain any CR information. Property owners were asked about land history and no known cultural resources are known on the sites. The WISAARD predictive model shows the project sites having a moderate or low risk of encountering historic resources. Additionally, construction in the area will occur entirely within previously disturbed areas, so the probability of inadvertent discovery is anticipated to be low.

### d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

No plans. No permits required.

#### **14. Transportation** Find help with answering transportation questions

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The project sites lie north of Lake Whatcom Boulevard.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Yes, the Whatcom Transit Authority Route 512 serves the site areas.

c. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

The transportation of the new pumps and removal of old pumps will likely rely on water travel via Lake Whatcom.

e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

The project will not generate new regular traffic of any kind.

f. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

#### g. Proposed measures to reduce or control transportation impacts, if any.

The project will not generate new regular transportation impacts.

15. Public Services Find help answering public service questions

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No, the project will not impact public service needs.

**b.** Proposed measures to reduce or control direct impacts on public services, if any. N/A.

**16. Utilities** Find help answering utilities questions

- a. Circle utilities currently available at the site: electricity, natural gas, water, efuse service, telephone, sanitary sewer, septic system, other:
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No new utilities are proposed for this project, only the replacement of two sewer pump stations and underground powerlines that service the pumps. The pump stations are owned by Lake Whatcom Water and Sewer District. Power in the vicinity is supplied by Puget Sound Energy.

#### C. Signature Find help about who should sign

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Type name of signee: Justin L Clary

Position and agency/organization: General Manager/Lake Whatcom Water and Sewer District

Date submitted: 8/16/2023



APPROXIMATE SCALE: 1" = 2,500'

# LAKE WHATCOM WATER AND SEWER DISTRICT LIMINARY REVIEW **ROCKY RIDGE AND LAKEWOOD SEWER PUMP STATION IMPROVEMENTS**



EXIS	STING LEGEND
	ANGLE POINT
0	IRON PIPE
	MONUMENT
	REBAR CAP
$\bigtriangleup^{\prime\prime\prime}$	MAG NAIL CONTROL POINT
Ħ	WATER METER
$\overline{OS}$	SANITARY SEWER MANHOLE
$\bigcirc$	SANITARY SEWER CLEANOUT
×	SANITARY SEWER VALVE
SS	SANITARY SEWER
ss • • • • ss • •—	SANITARY SEWER APPROX. FF
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D	IRRIGATION MANHOLE
¢	UTILITY POLE
-0	POWER GUY SUPPORT POST
$\rightarrow$	POWER GUY ANCHOR
	POWER PAD MOUNT TRANSFO
Ē	POWER MANHOLE
©	POWER METER
т	UNDERGROUND TELEPHONE
———— P ————	UNDERGROUND POWER
OHP	OVERHEAD POWER
	EASEMENT
	PROPERTY LINE
	RIGHT OF WAY CENTERLINE
R/W	RIGHT OF WAY LINE
	BUILDING EDGE
	GRAVEL ROAD EDGELINE
X	TREE (CONIFER)
· ·	TREE (DECIDUOUS)
— — онw — — —	ORDINARY HIGH WATER

#### CONTACT

DAN BURWELL, P.E. (PROJECT MANAGER) ORIN PAUL, P.E. (PROJECT ENGINEER) KAYLIE DENNEHY (STAFF ENGINEER)

BILL HUNTER, P.E. (DISTRICT ENGINEER) KRISTIN HEMENWAY, P,E. (CONSTRUCTION ENGINE KEN ZANGARI (ELECTRICIAN)

SPENCER ROBBINS ROBERT LEE REPAIR DEPT. CONSTRUCTION SERVICES JEN QUIST REPAIR DEPT. STEPHEN STUART SCOTT COFFINGER

# LEGEND



# **CONTACT PERSONNEL**

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LAKE WHATCOM WATER AND SEWER DISTRICT	360.389.1997
LAKE WHATCOM WATER AND SEWER DISTRICT	360.296.4576
WHATCOM COUNTY	360.815.4026
PUGET SOUND ENERGY	360.715.7235
PUGET SOUND ENERGY	888.225.5773
PUGET SOUND ENERGY	888.321.7779
CASCADE NATURAL GAS	360.788.2376
CENTURY LINK	800.954.1211
CENTURY LINK	360.647.4484
CENTURY LINK	360.815.6354
	AGENCY RH2 ENGINEERING RH2 ENGINEERING RH2 ENGINEERING LAKE WHATCOM WATER AND SEWER DISTRICT LAKE WHATCOM WATER AND SEWER DISTRICT LAKE WHATCOM WATER AND SEWER DISTRICT WHATCOM COUNTY PUGET SOUND ENERGY PUGET SOUND ENERGY PUGET SOUND ENERGY PUGET SOUND ENERGY CASCADE NATURAL GAS CENTURY LINK CENTURY LINK

# **DRAWING INDEX**

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3	ROCKY RIDGE EXISTING SITE, DEMOLITION, & TESC PLAN	C0 <sup>2</sup>
4	ROCKY RIDGE PROPOSED SITE PLAN	C02
5	LAKEWOOD EXISTING SITE, DEMOLITION, & TESC PLAN	C03
6	LAKEWOOD PROPSED SITE PLAN	C04

# **SECTION AND DETAIL REFERENCES**

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED. REFERENCE BUBBLES



PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED

WHERE,

V*O*.

X = SECTION/DETAIL REFERENCE ID\* X## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

\*SECTION/DETAIL REFERENCE ID CONVENTIONS SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE ID A - ZZ) AND DETAILS SHOULD HAVE A NUMERICAL REFERENCE ID (0 - 999)

# **ABBREVIATIONS**

CP	
CONC	CONCRETE
CL	CENTERLINE
CPEP	CORRUGATED POLYETHYLENE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DIAM	DIAMETER
DI	DUCTILE IRON
DWG	DRAWING
E	EASTING
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EX	EXISTING
HMA	HOT MIXED ASPHALT
L	LEFT
LT	LEFT
LF	LINEAR FEET

=	NORTHING POI YETHYI ENE
ROP	PROPOSED
VC	POLYVINYL CHLORIDE
	RIGHT
Т	RIGHT
OW	RIGHT-OF-WAY
PEC	SPECIFICATIONS
S	SANITARY SEWER
SMH	SANITARY SEWER MANHOLI
Т	STORM
TA	STATION LINE
TD	STANDARD
Y	SQUARE YARDS
ΥP	TYPICAL
1	WATER

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# SURVEY NOTES

#### SURVEY NOTES:

- THE SURVEY DEPICTED HEREON IS INTENDED TO BE USED FOR THE PURPOSE OF ANALYZING ACCESS TO THE LAKEWOOD PUMP STATION. ALTHOUGH THERE IS A GRAPHICALLY DEPICTED BOUNDARY COMPONENT TO THIS SURVEY, A LACK OF RECOVERED MONUMENTATION AND CONFLICTS BETWEEN MONUMENTATION MAKE BOUNDARY RESOLUTION IMPOSSIBLE WITHOUT FURTHER FIELD DATA ACQUISITION. RIGHT-OF-WAY AND PROPERTY LINES SHOWN HEREON ARE INTENDED TO BE APPROXIMATE.
- . CONTROL AND TOPOGRAPHY FOR THIS SURVEY WAS PERFORMED IN APRIL OF 2017 USING A COMBINATION OF NETWORKED REAL-TIME KINEMATIC GPS AND CONVENTIONAL TECHNIQUES.
- 3. LOCATIONS OF UNDERGROUND UTILITIES DEPICTED HEREON ARE ACCORDING TO SURFACE MARKS PROVIDED BY OTHERS, AND WILSON CAN NOT AND WILL NOT GUARANTEE THE CORRESPONDENCE BETWEEN THE MARKS AND THE EXTANT UTILITIES. UTILITIES MAY EXIST THAT WERE NOT MARKED AT THE TIME OF THIS SURVEY.

#### CONTROL NOTES

- . BASIS OF COORDINATES: COORDINATES ARE A GROUND-VALUE APPROXIMATION OF NAD83(2007) WASHINGTON STATE PLANE (NORTH ZONE) COORDINATES, BASED UPON NETWORKED REAL-TIME KINEMATIC GPS OBSERVATIONS. COORDINATION FOR GROUND-VALUE MENSURATION BASED UPON HOLDING THE FOLLOWING COORDINATES FOR WATER DISTRICT 10 CONTROL POINT WD124, A BERNTSEN SPIKE AT THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LAKE WHATCOM BLVD AND MARIGOLD DRIVE. NAD83(2007) COORDINATES FOR WD124 ARE AS FOLLOWS: NORTHING = 627,301.26 USFT EASTING = 1,278,985.41 USFT
- BASIS OF BEARINGS: HELD BEARING BETWEEN ABOVE MENTIONED WATER DISTRICT 10 CONTROL POINT WD124 (BOC) AND WATER DISTRICT 10 CONTROL POINT WD09, A RAILROAD SPIKE IN ASPHALT AT THE CENTER OF THE STRAWBERRY POINT COURT CUL-DE-SAC. THE GPS-DERIVED INVERSE BEARING BETWEEN WD124 AND WD09 BEING N 40° 06' 17" W A DISTANCE OF 14,247.58 FEET. NAD83(2007) COORDINATES FOR WD09 ARE AS FOLLOWS: NORTHING = 638,198.76 USFT EASTING = 1,269,807.28 USFT
- BASIS OF ELEVATIONS: ELEVATIONS ARE OLD CITY OF BELLINGHAM DATUM VALUES BASED UPON HOLDING THE ELEVATION OF 363.82' AT THE ABOVE-MENTIONED WATER DISTRICT 10 CONTROL POINT WD124. ELEVATIONS AT THE WILSON SITE CONTROL POINTS WERE ESTABLISHED BY CLOSED NETWORKED RTK GPS TIES.





### **ROCKY RIDGE PUMP STATION EXISTING SITE, DEMOLITION, & TESC PLAN** 1" = 20'





# **GENERAL NOTES**

- . FOR TEMPORARY BYPASS PUMPING REFER TO THE TECHNICAL SPECIFICATIONS DIVISION 11.
- 2. KEYS FOR EXISTING STATION WILL BE AVAILABLE FROM THE DISTRICT FOLLOWING NOTICE TO PROCEED.
- CONTRACTOR IS RESPONSIBLE FOR BUOYANCY CONTROL. SUBMIT BUOYANCY CONTROL PLAN TO OWNER FOR REVIEW AND APPROVAL.
- 4. SOILS ON SITE ARE FOREST DUFF. BELOW DUFF LAYER IS DECOMPOSED CHUCKANUT SANDSTONE SAND, GRAVEL, AND COBBLE. SANDSTONE IS AT DEPTH.



# **GENERAL INFORMATION**

**PROPERTY OWNERS:** SITE ADDRESSES: PARCEL NUMBERS: PARCEL AREAS:

NORMAN H & KAREN CHAMBERLIN WITH EASEMENT AS SHOWN 2526 LAKE WHATCOM BLVD, BELLINGHAM, WA 98229 38043109310000, 380431087103\* APPROX. 16,730 SF (0.38 ACRES)

EXISTING IMPERVIOUS SURFACES: 0 SF NEW IMPERVIOUS SURFACES: 300 SF REPLACED AND/OR REMOVED: 0 SF

\* THE NEW PROPOSED IMPERVIOUS SURFACES ARE CONTAINED WITHIN PARCEL NOS. 38043109310000 AND 380431087103. PARCELS NO. 380431079111, 380431066114, AND 380431061121 WILL BE IMPACTED ONLY BY THE INSTALLATION OF THE PROPOSED UNDERGROUND POWERLINE.











# **GENERAL NOTES**

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- 2. KEYS FOR EXISTING STATION WILL BE AVAILABLE FROM THE DISTRICT FOLLOWING NOTICE TO PROCEED.
- 6. CONTRACTOR IS RESPONSIBLE FOR BUOYANCY CONTROL. SUBMIT BUOYANCY CONTROL PLAN TO OWNER FOR REVIEW AND APPROVAL.
- . SOILS ON SITE ARE FOREST DUFF. BELOW DUFF LAYER IS DECOMPOSED CHUCKANUT SANDSTONE SAND, GRAVEL, AND COBBLE. SANDSTONE IS AT DEPTH.



