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## **Exhibit E: Wetland Assessment and Delineation**

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# Oregon

Kate Brown, Governor

## Department of State Lands

775 Summer Street NE, Suite 100

Salem, OR 97301-1279

(503) 986-5200

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[www.oregon.gov/dsl](http://www.oregon.gov/dsl)

### State Land Board

Kate Brown

Governor

Shemia Fagan

Secretary of State

Tobias Read

State Treasurer

July 14, 2021

Oregon Street Business Park, LLC

Attn: Bruce Polley

PO Box 1489

Sherwood, OR 97140

Re: **WD # 2021-0196 Approved**  
Wetland Delineation Report for The Oregon Street Business Park  
Washington County; T2S R1W S28C TLs 500 and 501 (Portions)  
APP # 24010, RGL # 1439  
City of Sherwood Local Wetlands Inventory Wetland R-5

Dear Mr. Polley:

The Department of State Lands has reviewed the wetland delineation report prepared by AKS Engineering and Forestry for the site referenced above. Please note that the study areas include only a portion of the tax lots described above (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 5 and 5A of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study areas, 2 wetlands (Wetland A and B, totaling approximately 0.59 acres) were identified. The wetlands are subject to the permit requirements of the state Removal-Fill Law. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, Wetland B is within the active floodplain of Rock Creek, an essential salmonid stream and its southern portion is part of a compensatory wetland mitigation site (RGL # 1439); therefore, fill or removal of any amount of material within this wetland may require a state permit.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Since measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you

work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact the Jurisdiction Coordinator for Washington County, Chris Stevenson, PWS, at (503) 986-5246.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter Ryan".

Peter Ryan, SPWS  
Aquatic Resource Specialist

Enclosures

ec: Stacey Reed, PWS, AKS Engineering and Forestry  
City of Sherwood Planning Department (Maps enclosed for updating LWI)  
Danielle Erb, Corps of Engineers  
Grey Wolf, DSL

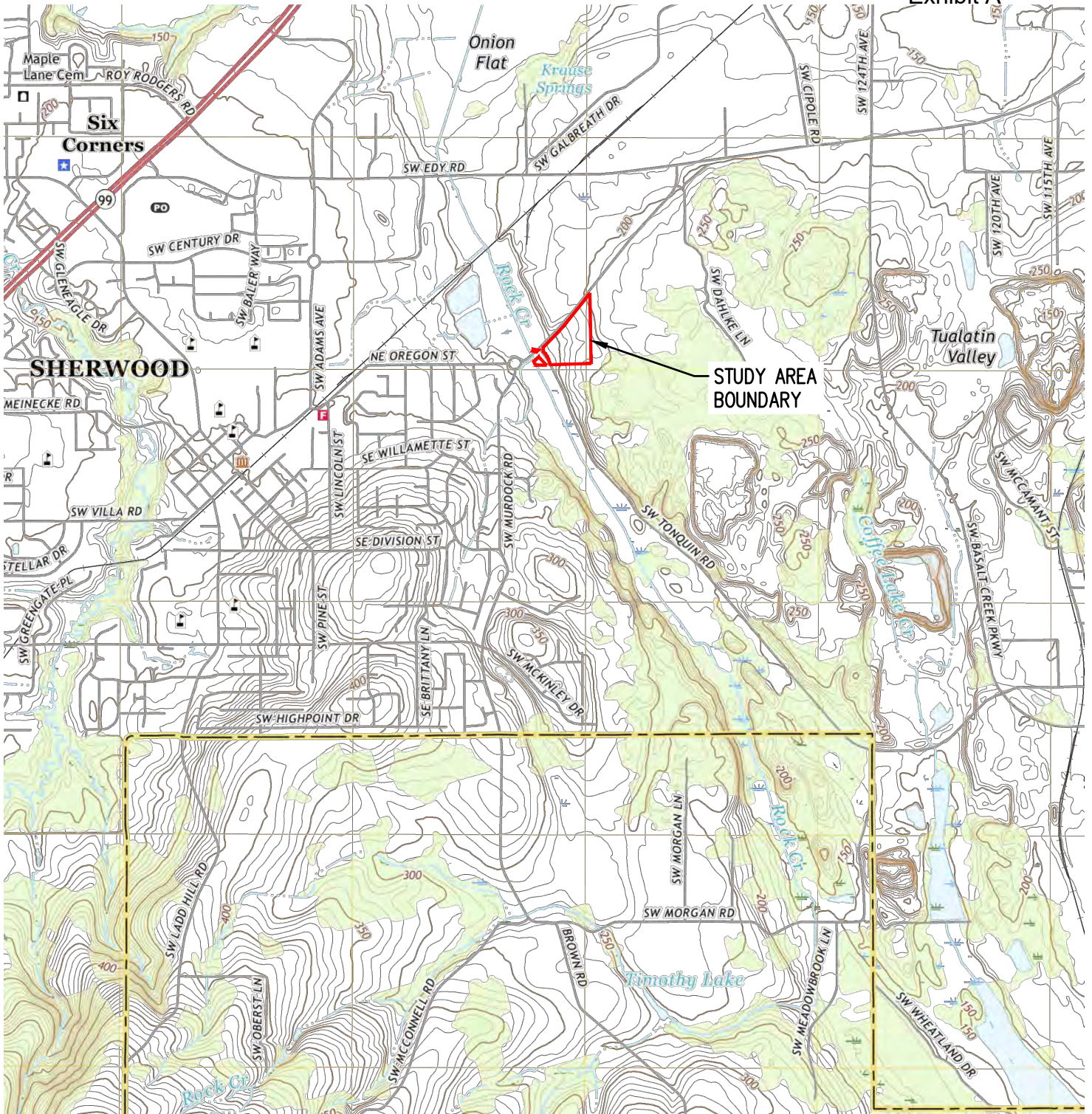
**WETLAND DELINEATION / DETERMINATION REPORT COVER FORM**

**Exhibit A**

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: <https://apps.oregon.gov/DSL/EPS/program?key=4>.

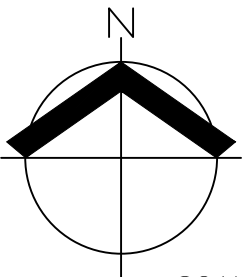
Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover form and report, minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279**. A single PDF of the completed cover form and report may be e-mailed to: **Wetland\_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

<b>Contact and Authorization Information</b>	
<input checked="" type="checkbox"/> Applicant <input checked="" type="checkbox"/> Owner Name, Firm and Address: Oregon Street Business Park, LLC ATTN: Bruce Polley P.O. Box 1489 Sherwood, OR 97140	Business phone # Mobile phone # (optional) E-mail: bruce@airteknw.com
<input type="checkbox"/> Authorized Legal Agent, Name and Address (if different):	Business phone # Mobile phone # (optional) E-mail:
I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.	
<b>Typed/Printed Name:</b> <u>Bruce Polley</u> <b>Signature:</b> <b>Date:</b> _____ <b>Special instructions regarding site access:</b> _____	
<b>Project and Site Information</b>	
Project Name: Oregon Street Business Park	Latitude: 45.360684      Longitude: -122.823151 <b>decimal degree</b> - centroid of site or start & end points of linear project
Proposed Use: Employment Industrial	Tax Map # 2S 1 28C Tax Lot(s) 500 and Portion of 501
Project Street Address (or other descriptive location): 21720 SW Oregon Street	Tax Map # Tax Lot(s)
City: Sherwood      County: Washington	Township 2S      Range 1W      Section 28      QQ SW Use separate sheet for additional tax and location information
Waterway: N/A	River Mile: N/A
<b>Wetland Delineation Information</b>	
Wetland Consultant Name, Firm and Address: Stacey Reed, PWS AKS Engineering & Forestry LLC 12965 SW Herman Rd, Ste 100 Tualatin, OR 97062	Phone # (503) 563-6151 Mobile phone # (if applicable) E-mail: staceyr@aks-eng.com
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.	
<b>Consultant Signature:</b> <b>Date:</b> <u>04/12/2021</u>	
<b>Primary Contact</b> for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Study Area size: 9.27 acres    Total Wetland Acreage: 0.5900	
<b>Check Applicable Boxes Below</b>	
<input type="checkbox"/> R-F permit application submitted <input type="checkbox"/> Mitigation bank site <input type="checkbox"/> Industrial Land Certification Program Site <input type="checkbox"/> Wetland restoration/enhancement project (not mitigation) <input checked="" type="checkbox"/> Previous delineation/application on parcel If known, previous DSL # <u>2000-0488</u>	<input checked="" type="checkbox"/> Fee payment submitted \$ <u>475</u> <input type="checkbox"/> Fee (\$100) for resubmittal of rejected report <input type="checkbox"/> Request for Reissuance. See eligibility criteria. (no fee) DSL # _____      Expiration date _____ <input type="checkbox"/> LWI shows wetlands or waters on parcel Wetland ID code _____
<b>For Office Use Only</b>	
DSL Reviewer: <u>CS</u> Fee Paid Date: ____ / ____ / ____	DSL WD # <u>2021-0196</u>
Date Delineation Received: <u>04 / 12 / 2021</u> Scanned: <input type="checkbox"/> Electronic: <input checked="" type="checkbox"/> DSL App.# _____	



STUDY AREA  
BOUNDARY

USGS 7.5' TOPOGRAPHIC SERIES  
QUADRANGLE: SHERWOOD, OR (2020)



SCALE: 1" = 2000 FEET



DATE: 04/08/2021

**USGS VICINITY MAP**  
**OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT**

AKS ENGINEERING & FORESTRY, LLC  
 12965 SW HERMAN RD, STE 100  
 TUALATIN, OR 97062  
 503.563.6151 WWW.AKS-ENG.COM



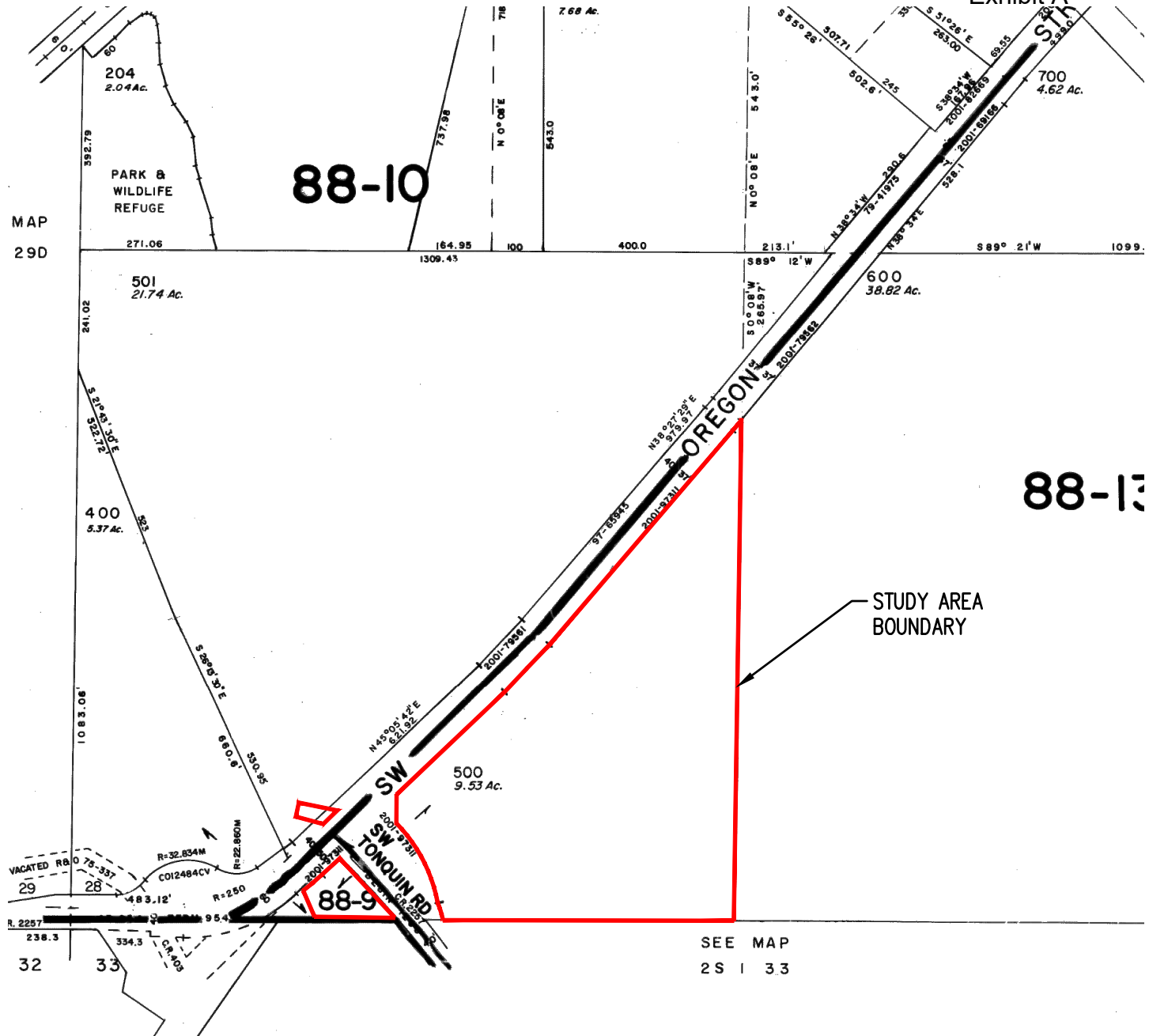
FIGURE  
**1**

DRWN: ANF  
 CHKD: SKT  
 AKS JOB:  
 7971

88-10

88-13

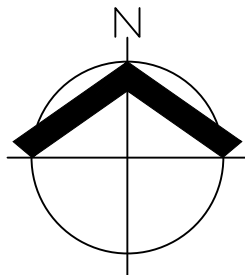
MAP  
29D



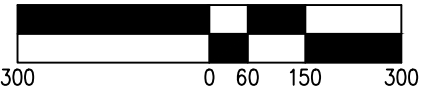
STUDY AREA  
BOUNDARY

SEE MAP  
2 S | 33

WASHINGTON COUNTY  
TAX LOT 500  
AND PORTION OF TAX LOT 501  
TAX MAP 2S 1 28C



SCALE: 1" = 300 FEET



ORIGINAL PAGE SIZE: 8.5" x 11"


DATE: 04/08/2021

<b>TAX MAP (MAP 2S 1 28C)</b> <b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>FIGURE</b> <b>2</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151    WWW.AKS-ENG.COM		DRWN: ANF CHKD: SKT AKS JOB: 7971



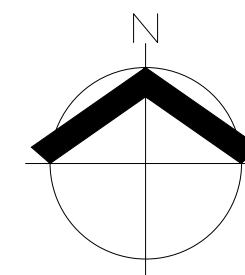
**DSL WD # 2021-0196**  
**Approval Issued 7/14/2021**  
**Approval Expires 7/14/2026**

**LEGEND**

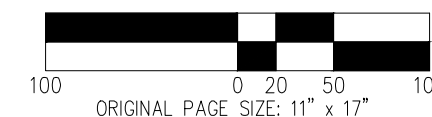
-  TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)
- PSS/PEM/SLOPE WETLAND A: 11,430 SF± (0.26 ACRES±)
- PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)
-  PHOTO LOCATIONS & ORIENTATION

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.

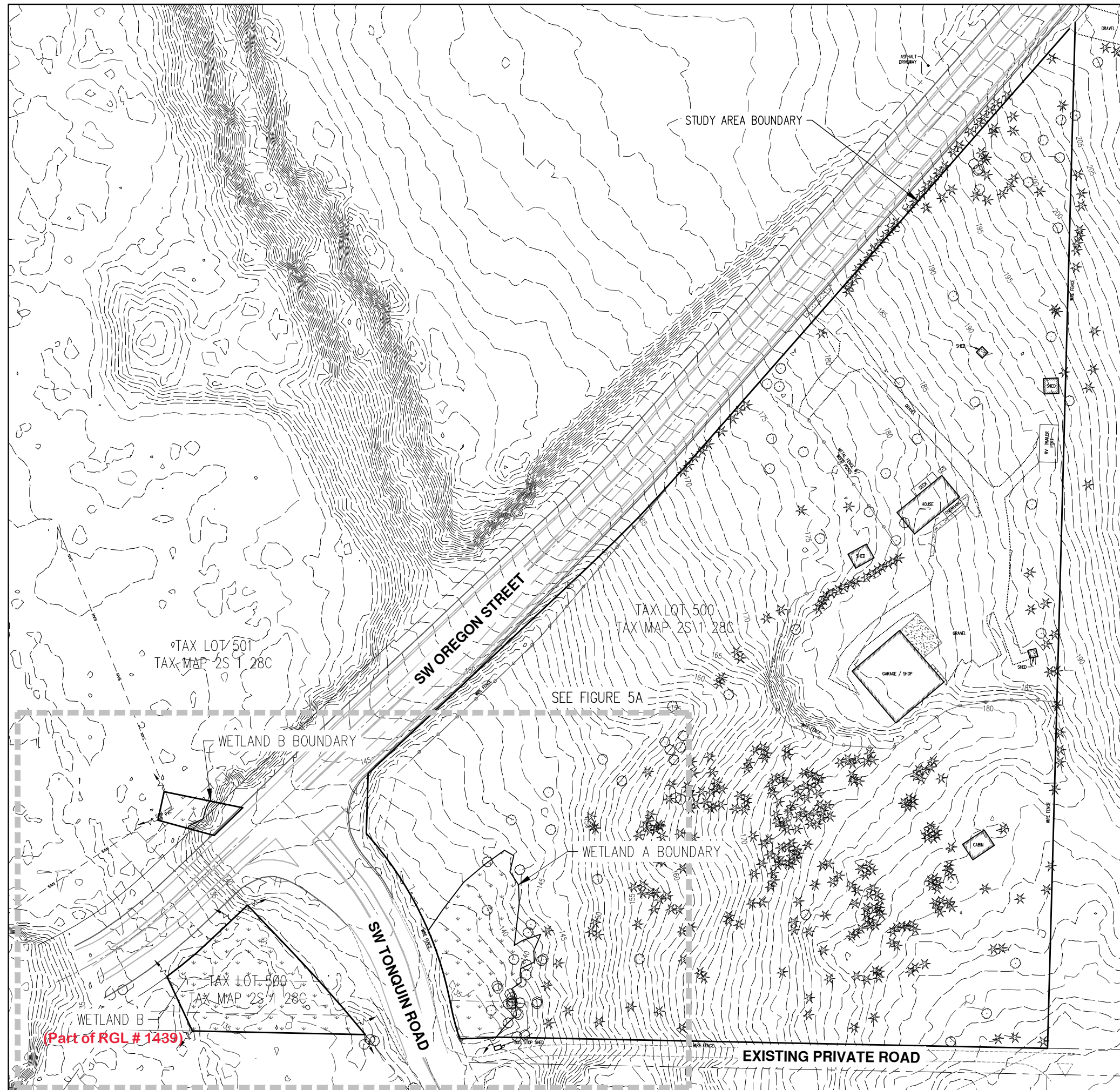


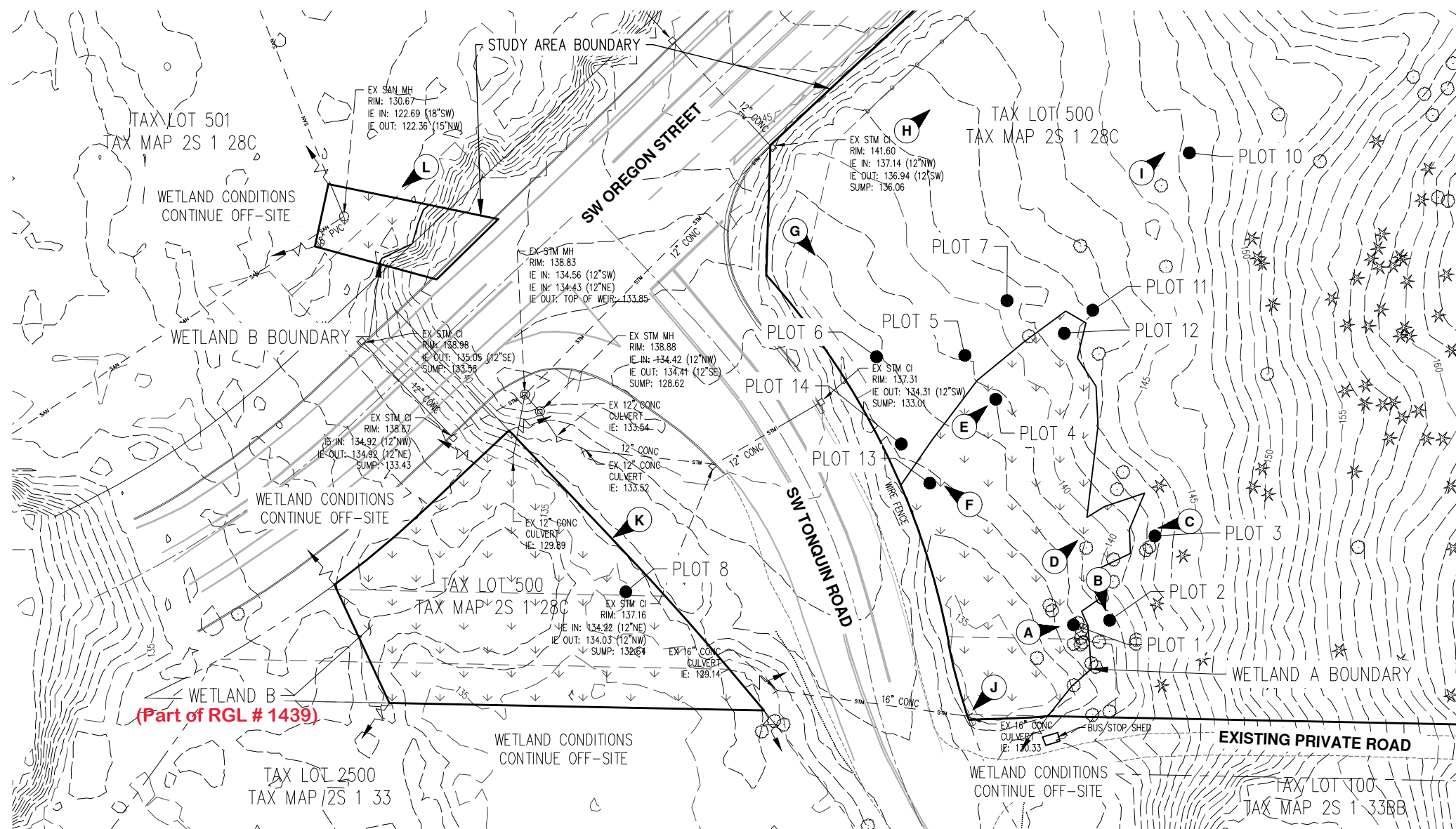
SCALE: 1" = 100 FEET







DATE: 04/08/2021

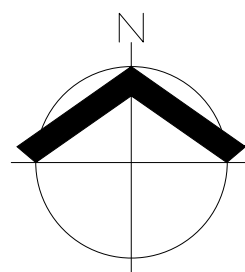
<b>WETLAND DELINEATION OVERVIEW</b>	FIGURE
<b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>	<b>5</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	DRWN: SKT CHKD: SAR AKS JOB: 7971





**LEGEND**

-  TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)
-  PSS/PEM/SLOPE WETLAND A: 11,430 SF± (0.26 ACRES±)
-  PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)
-  PHOTO LOCATIONS & ORIENTATION



SCALE: 1" = 60 FEET



WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.

DSL WD # 2021-0196  
Approval Issued 7/14/2021  
Approval Expires 7/14/2026

DATE: 04/08/2021

<b>WETLAND DELINEATION</b>	FIGURE
<b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>	<b>5A</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	DRWN: SKT CHKD: SAR AKS JOB: 7971





# Oregon Street Business Park Sherwood, Oregon Wetland Delineation Report

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**Date:** April 2021

**Prepared for:** Oregon Street Business Park, LLC  
P.O. Box 1489  
Sherwood, Oregon 97140

**Prepared by:** AKS Engineering & Forestry, LLC  
Sonya Templeton, Natural Resource Specialist  
Stacey Reed, PWS, Senior Wetland Scientist  
503-563-6151 | [staceyr@aks-eng.com](mailto:staceyr@aks-eng.com)

**Study Area:** SW Oregon Street and SW Tonquin Road  
Washington County Assessor's Map 2S 1 28C  
Tax Lot 500 and Portion of Tax Lot 501  
Sherwood, Oregon

**AKS Job Number:** 7971



12965 SW Herman Road, Suite 100  
Tualatin, OR 97062  
(503) 563-6151

## Table of Contents

<b>Introduction.....</b>	<b>1</b>
<b>A. Landscape Setting and Land Use .....</b>	<b>1</b>
<b>B. Site Alterations .....</b>	<b>2</b>
<b>C. Precipitation Data and Analysis.....</b>	<b>2</b>
<b>D. Methods.....</b>	<b>3</b>
<b>F. Description of All Wetlands and Other Non-Wetland Waters .....</b>	<b>3</b>
Wetlands .....	3
Wetland A .....	3
Wetland B .....	4
Upland .....	4
<b>G. Mapping Method.....</b>	<b>5</b>
<b>H. Deviation from LWI or NWI.....</b>	<b>5</b>
<b>I. Additional Information .....</b>	<b>5</b>
<b>J. Summary of Results and Conclusions .....</b>	<b>5</b>
<b>K. Required Disclaimer .....</b>	<b>6</b>
<b>L. List of Preparers .....</b>	<b>6</b>
<b>Literature Cited and Referenced .....</b>	<b>7</b>

## Tables

Table 1: Precipitation Data Prior to the March 8, 2021 Site Visit .....	3
Table 2: Summary of Study Results and Conclusions .....	6

## Appendices

### Appendix A: Maps

- Figure 1: Vicinity Map
- Figure 2: County Assessor’s Map
- Figure 3: NRCS Soils Map
- Figure 4: Local Wetland Inventory (LWI) Map
- Figures 5 and 5A: Wetland Delineation Map

### Appendix B: Historical Aerial Photographs

### Appendix C: Precipitation Data

### Appendix D: Wetland Determination Data Forms

### Appendix E: Photo Location Map and Site Photographs

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## Introduction

This report was prepared by AKS Engineering Forestry, LLC (AKS) in accordance with Oregon Administrative Rules (OAR) 141-090-0030 and OAR-141-090-0035 (1-17) and describes the results of a wetland delineation conducted on Tax Lot 500 and a portion of Tax Lot 501 of Washington County Assessor's Map 2S 1 28C, which is located at the intersection of SW Oregon Street and SW Tonquin Road in Sherwood, Washington County, Oregon (Figures 1 and 2, Appendix A). The study area for the wetland delineation was approximately 9.27 acres and is shown in Figures 1 to 5 in Appendix A.

The on-site boundaries of one palustrine scrub-shrub/emergent wetland (referred to as Wetland A) and portions of a large palustrine emergent wetland associated with the floodplain of Rock Creek (referred to as Wetland B) were delineated by AKS in the study area. Both wetlands are likely to be determined jurisdictional to the Oregon Department of State Lands (DSL) and Wetland B is likely to be determined jurisdictional to the US Army Corps of Engineers (USACE) due to its adjacency to Rock Creek, a natural perennial stream.

David Evans & Associates, Inc. (DEA) conducted a wetland delineation that covered the study area in 2000 for Washington County's Oregon Street/Murdock Road to Tualatin/Sherwood Road Widening Project. The delineation determined palustrine emergent wetland was present in the vicinity of Wetland A mapped under our study. The DEA delineation was concurred by DSL under WD2000-0488. Washington County received a removal-fill permit from DSL (DSL permit #RF-24010) to impact a portion of Wetland A for the widening and raising of SW Oregon Street and intersection improvements with SW Tonquin Road. Permanent wetland impacts were mitigated through on-site wetland enhancement, which included enhancement within Wetland B delineated under this study.

## A. Landscape Setting and Land Use

The study area east of SW Tonquin Road and south of SW Oregon Street contains three buildings and gravel parking located in the northern portion of the site, with remaining portions consisting of a forested area and an open field. The forested area is dominated by Douglas-fir (*Pseudotsuga menziesii*, FACU), big-leaf maple (*Acer macrophyllum*, FACU), English holly (*Ilex aquifolium*, FACU), oso-berry (*Oemleria cerasiformis*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), common snowberry (*Symphoricarpos albus*, FACU), pineland sword fern (*Polystichum munitum*, FACU), and California dewberry (*Rubus ursinus*, FACU). The open field is dominated by mowed bentgrass (*Agrostis* species, FAC), bluegrass (*Poa* species, FAC), common dandelion (*Taraxacum officinale*, FACU), white clover (*Trifolium repens*, FAC), and English plantain (*Plantago lanceolata*, FACU).

The study area southwest of SW Tonquin Road is undeveloped and is entirely wetland (referred to as Wetland B) dominated by reed canary grass (*Phalaris arundinacea*, FACW). Wetland B extends north of SW Oregon Street, also dominated by reed canary grass, with scattered thickets of Douglas' meadowsweet (*Spiraea douglasii*, FACW), and Oregon ash (*Fraxinus latifolia*, FACW).

Topography within the study area east of SW Tonquin Road slopes to the west towards Wetland A. Elevation varies at 180 feet in the eastern portion of the site with the lowest elevation at 135 feet within Wetland A in the western portion of the site. The remaining study areas are relatively flat (less than 3 percent overall slope) and slopes subtly towards Rock Creek.

The land use to the north and east generally consists of industrial land uses with high-density residential to the west. The study area is currently zoned as Employment Industrial within the City of Sherwood's Tonquin Employment Area.

The following soil units are mapped within the study area, according to the Natural Resources Conservation Service (NRCS) Washington County Area Soil Survey Map (Figure 3, Appendix A):

- Briedwell stony silt loam (Unit 5B), 0 to 7 percent slopes; Non-hydric
- Cove silty clay loam (Unit 13); Hydric
- Laurelwood silt loam (Unit 28B), 3 to 7 percent slopes; Non-hydric

## **B. Site Alterations**

Historical aerial photos, dating from 1994 to 2019, were obtained from Google Earth and are included in Appendix B. The portion of the study area east of SW Tonquin Road was mostly forested from as early as 1994, until it was logged sometime between 1994 and 2000.

Sometime between 2001 and 2002, grading was done for the Oregon Street/Tonquin Road intersection improvements, which were completed in 2003. The road improvement project resulted in a partial fill of the wetlands delineated under this study.

Sometime in 2004, enhancement of Wetland B occurred which appears to have included excavation of a depression. The excavation appears to have been associated with the wetland mitigation enhancement under DSL permit #RF-24010.

The study area appears to be relatively unchanged since the 2014 aerial image and no other site alterations appear to have taken place that would have direct or indirect hydrological impacts to wetlands delineated on the site.

## **C. Precipitation Data and Analysis**

The closest WETS (Climate Analysis for Wetlands Tables) station to the project site is the Hillsboro station. According to the Hillsboro WETS data, the growing season is between March 15 and November 10. The site visit was conducted on March 8, 2021; however, evidence of the onset of the growing season was observed, including woody bud burst and the emergence of herbaceous vegetation from the ground, confirming the site visit was conducted during the growing season. Raw precipitation data is included in Appendix C.

According to the National Weather Service (NWS) Hillsboro station, 0.01 inches of rain were received on the day of the March 8, 2021 site visit with 1.02 inches recorded in the two weeks prior. Observed water year-to-date (Starting October 1, 2020) was 24 inches, which was 3.74 inches below normal. As depicted by Table 1, normal rainfall levels were observed during the three months prior to the March 8, 2021 site visit.

**Table 1: Precipitation Data Prior to the March 8, 2021 Site Visit**

Prior Months	Observed Precipitation (Inches)	Average WETS Precipitation (Inches)	30% Chance Will Have		Condition Dry, Wet, Normal	Condition Value (1=dry, 2=normal, 3=wet)	Month Weight	Multiply Previous Two Columns
			Less Than	More Than				
February 2021	3.91	3.63	2.25	4.39	Normal	2	3	6
January 2021	7.86	5.28	3.69	6.27	Wet	3	2	6
December 2020	5.27	5.98	4.06	7.14	Normal	2	1	2
<b>Sum</b>								<b>14</b>
Rainfall of prior period was: drier than normal (sum is 6-9), normal (sum is 10-14), wetter than normal (sum is 15-18)								

## D. Methods

The methodology used to determine the presence of wetlands followed the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (Wakeley et al., 2010). The *National Wetland Plant List 2018* (USACE, 2018) was used to assign wetland indicator status for the appropriate region.

Field work was conducted on March 8, 2021 by AKS Stacey Reed, PWS, Senior Wetland Scientist and Sonya Templeton, Natural Resource Specialist. Soils, vegetation, and indicators of hydrology were recorded at 14 sample plot locations (there is no sample plot 9) on standardized wetland determination data forms (Appendix D) to document site conditions.

Representative ground level site photographs are included in Appendix E. References cited and literature used are listed at the end of this report.

## F. Description of All Wetlands and Other Non-Wetland Waters

### Wetlands

#### Wetland A

Wetland A is a palustrine scrub-shrub/emergent wetland (PSS/PEM) located east of SW Tonquin Road. The main hydrology sources for Wetland A are hillside seeps, including a seasonal spring and direct precipitation. Wetland A is situated on a toeslope where water flows through the wetland in one direction, exiting the site through a culvert located under SW Tonquin Road. During the March 2021 site visit, the culvert was dry and approximately 2 inches of scatted surface water ponding was observed in the lower elevation portions of the wetland, upslope of the culvert. Wetland A belongs to the Slopes hydrogeomorphic (HGM) classification. Wetland conditions only extend slightly off-site to the south.

The PSS portion of Wetland A is dominated by Nootka rose (*Rosa nutkana*, FAC), red alder sapling (*Alnus rubra*, FAC), Oregon ash saplings, Himalayan blackberry (FAC), and creeping buttercup (*Ranunculus repens*, FAC). The PEM portion of Wetland A is dominated by field meadow-foxtail (*Alopecurus pratensis*, FAC), creeping buttercup, with scattered patches of slough sedge (*Carex obnupta*, OBL).

Soils in the wetland are low chroma (chroma 2 or less) displaying common distinct and prominent redoximorphic features, meeting hydric soil indicator F6 Redox Dark Surface. A depleted matrix (hydric indicators F3 or A11) was also observed at most wetland plots.

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A groundwater table was observed within the surface 12 inches at all wetland plots during the March 2021 site visit.

The wetland boundary is well defined based on changes in the vegetation community from FAC-dominated in wetland (Nootka rose, red alder, creeping buttercup) to a non-hydrophytic community in upland (Douglas-fir, English holly, oso-berry, fringe-cup (*Tellima grandiflora*, FACU). The change in the vegetation community coincides with a subtle change in the local relief from concave, low elevation in the wetland to a higher elevation, convex local relief in upland. The adjacent upland was documented at paired upland Plots 2, 3, 11, and 14, which lacked hydric soil indicators.

#### **Wetland B**

Wetland B is a palustrine emergent (PEM) wetland located within the portion of Tax Lot 500 west of SW Tonquin Road, and within a portion of Tax Lot 501 north of SW Oregon Street. Wetland B continues off-site as it is part of a large floodplain wetland associated with Rock Creek. The main hydrology sources for Wetland B within the study area are a seasonally-high groundwater table, subsurface flow from upslope hillsides, and occasional overbank flooding from Rock Creek. Wetland B belongs to the Slope/Riverine Impounding HGM subclass.

Within the study area Wetland B is mainly dominated by reed canary grass (FACW), with scattered patches of Oregon ash saplings (FACW) and Douglas' meadowsweet (FACW). Soils in the wetland are low chroma (chroma 2 or less) displaying common distinct and prominent redoximorphic features, meeting hydric soil indicator F6 Redox Dark Surface. A high ground water table and saturation was observed at wetland Plot 8 during the March 2021 site visit.

No data was collected for the portion of Wetland B north of Oregon Street, as the entire study area contained approximately 6-8 inches deep of inundation and was dominated by a FACW vegetation community (reed canary grass and Douglas' meadowsweet). The wetland boundary for the portion on tax lot 501 was defined by the fill slope associated with Oregon Street which was dominated by beaked hazelnut (*Corylus cornuta*; FACU) and pineland sword fern (FACU). The wetland boundary was therefore determined by the change in vegetation community from FACW in wetland to FACU in upland which coincided by a distinct change in landform, from concave floodplain wetland to convex hillslope in the upland.

#### **Upland**

Plots 5 and 6 were established in the northwestern corner of the study area south of Oregon Street, in the vicinity of wetland plots 3 and 5 delineated under WD2000-0488. This area was dominated by mowed bluegrass (FAC), bentgrass (FAC), and field meadow-foxtail, with common dandelion (FACU) and white clover (FAC).

While soils at Plots 5 and 6 met hydric soil indicators, a ground water table was not observed during the March 2021 site visit, which was during a period of normal rainfall. There was no evidence of secondary wetland hydrology indicators. Plots were left open for approximately 1 hour to allow adequate time for the groundwater table to equilibrate. According the WD2000-0488 delineation data, wetland Plots 3 and 5 did not display indicators of wetland hydrology during their site visit and were determined wetland based on hydric soil indicators.

Since Plots 5 and 6 had no indicators of wetland hydrology during a period of normal rainfall, we determined these plots to be upland. This area is located approximately 1 foot higher than the adjacent

wetland. We conducted an initial site visit on February 16, 2021, which received 0.07 inches of rain day of and 2.67 inches within the two weeks prior, according to the Hillsboro NWS station precipitation data. Since February 2021 was recorded as a wetter than normal month, we postponed delineation until March 8, 2021. Plots 5 and 6 lacked a groundwater table within the surface 16-inches during the February 2021 site visit, after leaving plots open for over a half hour.

Plot 10 was established in a low elevational feature within the forested hillslope. This area was dominated by big-leaf maple, common snowberry, and dovefoot geranium (*Geranium molle*, NOL). Plot 10 lacked hydric soil and wetland hydrology indicators; therefore, was determined to be upland. This area also lacked a defined bed and bank or evidence of surface flow.

### **G. Mapping Method**

Wetland A, the on-site portions of Wetland B, and Plots 1 through 14 (there is no Plot 9) were professionally land surveyed by AKS with sub-meter accuracy on March 10, 2021. Wetland boundaries were flagged in the field with orange wire whips and flagging and sample plots were flagged with pink wire whips. Flags were left in the field after surveying. The delineation map is included as Figures 5 and 5A in Appendix A.

### **H. Deviation from LWI or NWI**

According to the City of Sherwood's DSL-approved Local Wetland Inventory (LWI), wetland is mapped in the vicinity of Wetlands A and B delineated under this study (Figure 4, Appendix A). Our study generally agrees with the LWI mapping.

### **I. Additional Information**

Wetlands A and B are naturally occurring wetlands likely to be determined jurisdictional by DSL.

Seasonal discharge from Wetland A flows off-site to the west through a 16-inch diameter culvert under SW Tonquin Road. The culvert discharges into Rock Creek, a perennial tributary to the Tualatin River, on the western side of SW Tonquin Road.

According to the US Environmental Protection Agency (EPA) and USACE finalization of The Navigable Waters Protection Rule (NWPR), wetlands are only federally jurisdictional if there is a one-way surface connection associated with inundation from the paragraph (a)(3) water to the wetland during a "typical year." Rock Creek, the (a)(3) tributary, is located off-site at a lower elevation on the western side of SW Tonquin Road. Wetland A is located several feet higher in elevation than Rock Creek. Therefore, it is very unlikely that flow associated with Rock Creek extends upslope through the culvert under Tonquin Road to inundate Wetland A during a typical year; therefore, under the NWPR, Wetland A may not be determined jurisdictional to the USACE.

However, Wetland B receives overbank flooding associated with Rock Creek (a paragraph (a)(2) water); therefore, Wetland B may be regulated under Section 404 of the Clean Water Act (CWA).

### **J. Summary of Results and Conclusions**

Table 3 below provides a summary of the on-site sizes of the features, hydrologic connections to other nearby waters, the Cowardin and Hydrogeomorphic (HGM) classifications for the wetlands, and our prediction of whether each feature would likely be determined jurisdictional by DSL or the USACE.

Table 2: Summary of Study Results and Conclusions

Potentially Jurisdictional Feature	Latitude/Longitude	Size Within Study area (acres)	Cowardin Class	HGM class or Flow Regime	Connection to Other Waters	DSL/USACE Predicted Jurisdiction
Wetland A	45.36053722/ -122.82397334	0.26	PSS/PEM	Slope	Rock Creek	DSL
Wetland B	45.36053722/ -122.82397333	0.33	PEM	Slope/Riverine Impounding	Rock Creek	DSL and USACE

### K. Required Disclaimer

This report documents the investigation, best professional judgment, and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk, unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with Oregon Administrative Rules (OAR) 141-090-0005 through 141-090-0055.

### L. List of Preparers



Sonya Templeton  
Natural Resource Specialist  
Fieldwork, Report Preparation



Stacey Reed, PWS  
Senior Wetland Scientist  
Fieldwork, Report QA/QC



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## Literature Cited and Referenced

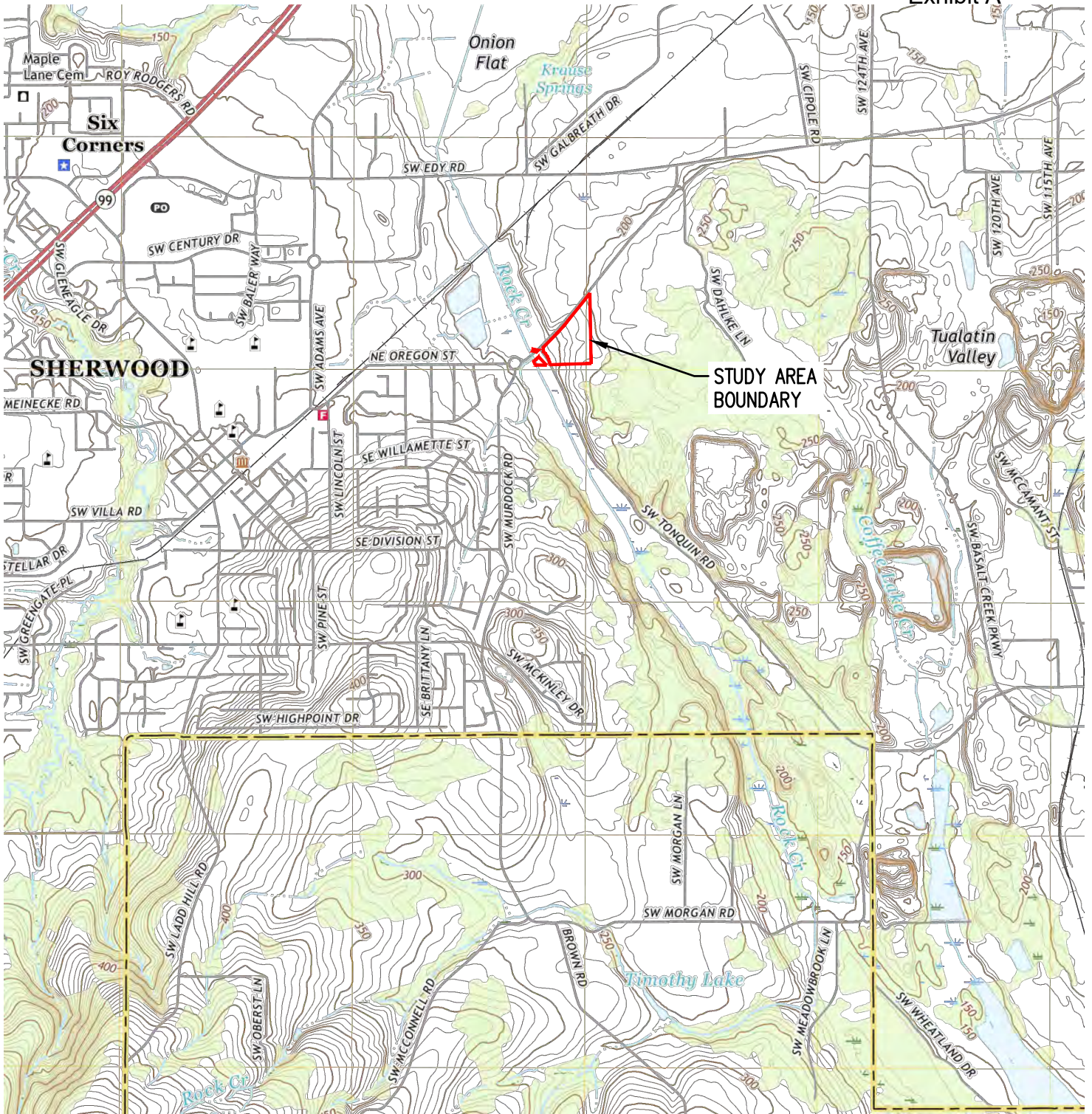
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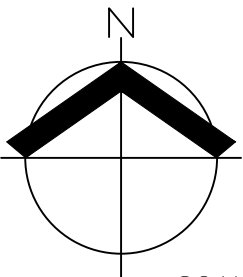
## **Appendix A: Maps**

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USGS 7.5' TOPOGRAPHIC SERIES  
QUADRANGLE: SHERWOOD, OR (2020)



SCALE: 1" = 2000 FEET



DATE: 04/08/2021

**USGS VICINITY MAP**  
**OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT**

AKS ENGINEERING & FORESTRY, LLC  
 12965 SW HERMAN RD, STE 100  
 TUALATIN, OR 97062  
 503.563.6151 WWW.AKS-ENG.COM



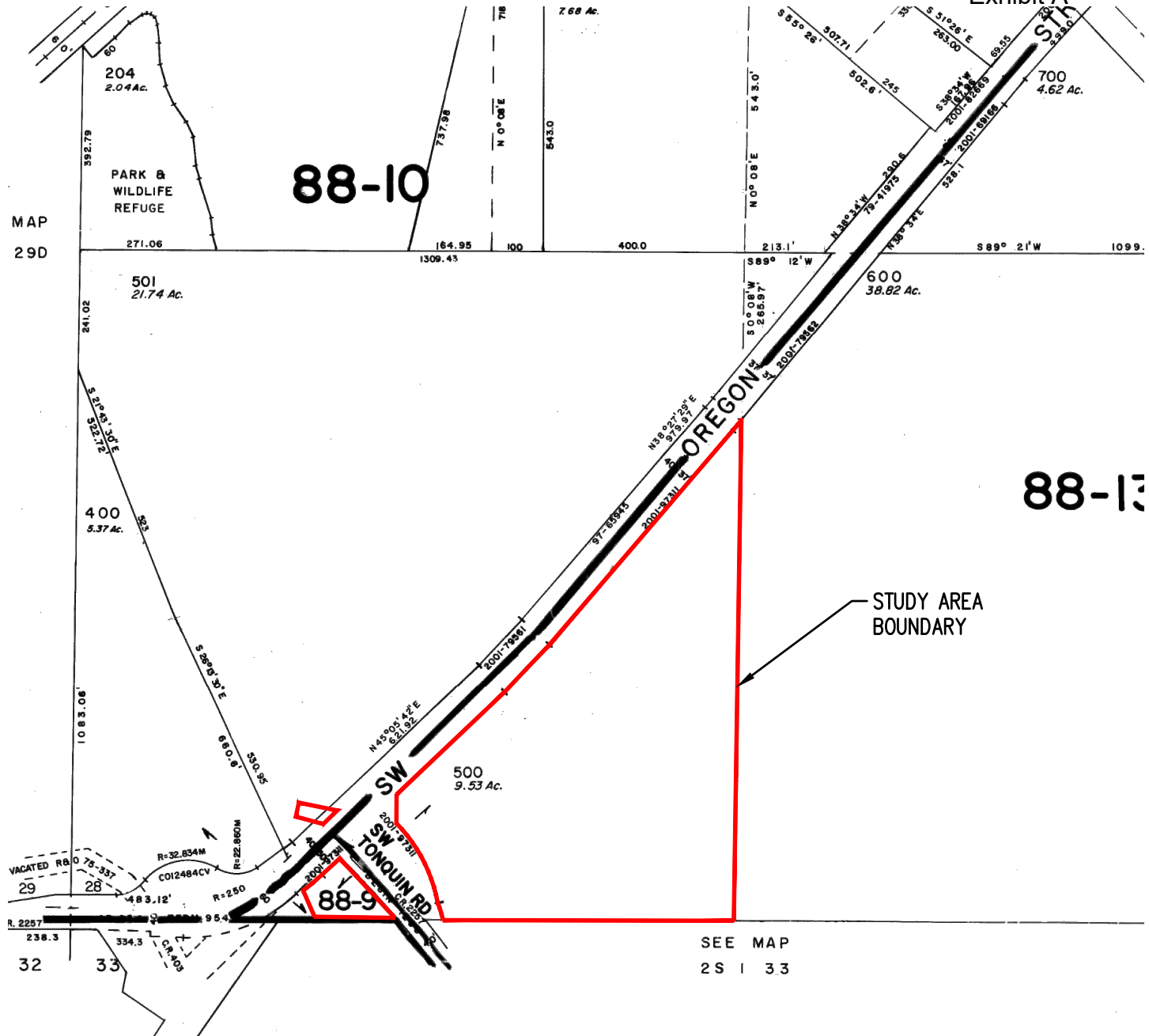
FIGURE  
**1**

DRWN: ANF  
 CHKD: SKT  
 AKS JOB:  
 7971

88-10

88-13

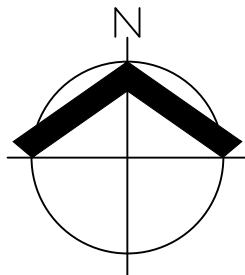
MAP  
29D



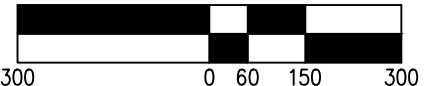
STUDY AREA BOUNDARY

SEE MAP  
2 S | 33

WASHINGTON COUNTY  
TAX LOT 500  
AND PORTION OF TAX LOT 501  
TAX MAP 2S 1 28C



SCALE: 1" = 300 FEET



ORIGINAL PAGE SIZE: 8.5" x 11"

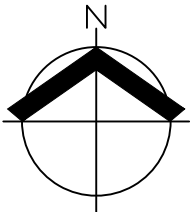
DATE: 04/08/2021

<b>TAX MAP (MAP 2S 1 28C)</b> <b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>FIGURE</b> <b>2</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151    WWW.AKS-ENG.COM		DRWN: ANF CHKD: SKT AKS JOB: 7971



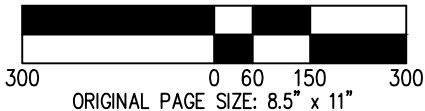


MAP UNIT SYMBOL	MAP UNIT NAME
5B	BRIEDWELL STONY SILT LOAM, 0% TO 7% SLOPES; NON-HYDRIC
28B	LAURELWOOD SILT LOAM, 3% TO 7% SLOPES; NON-HYDRIC
13	COVE SILTY CLAY LOAM; HYDRIC



NRCS WEB SOIL SURVEY FOR WASHINGTON COUNTY

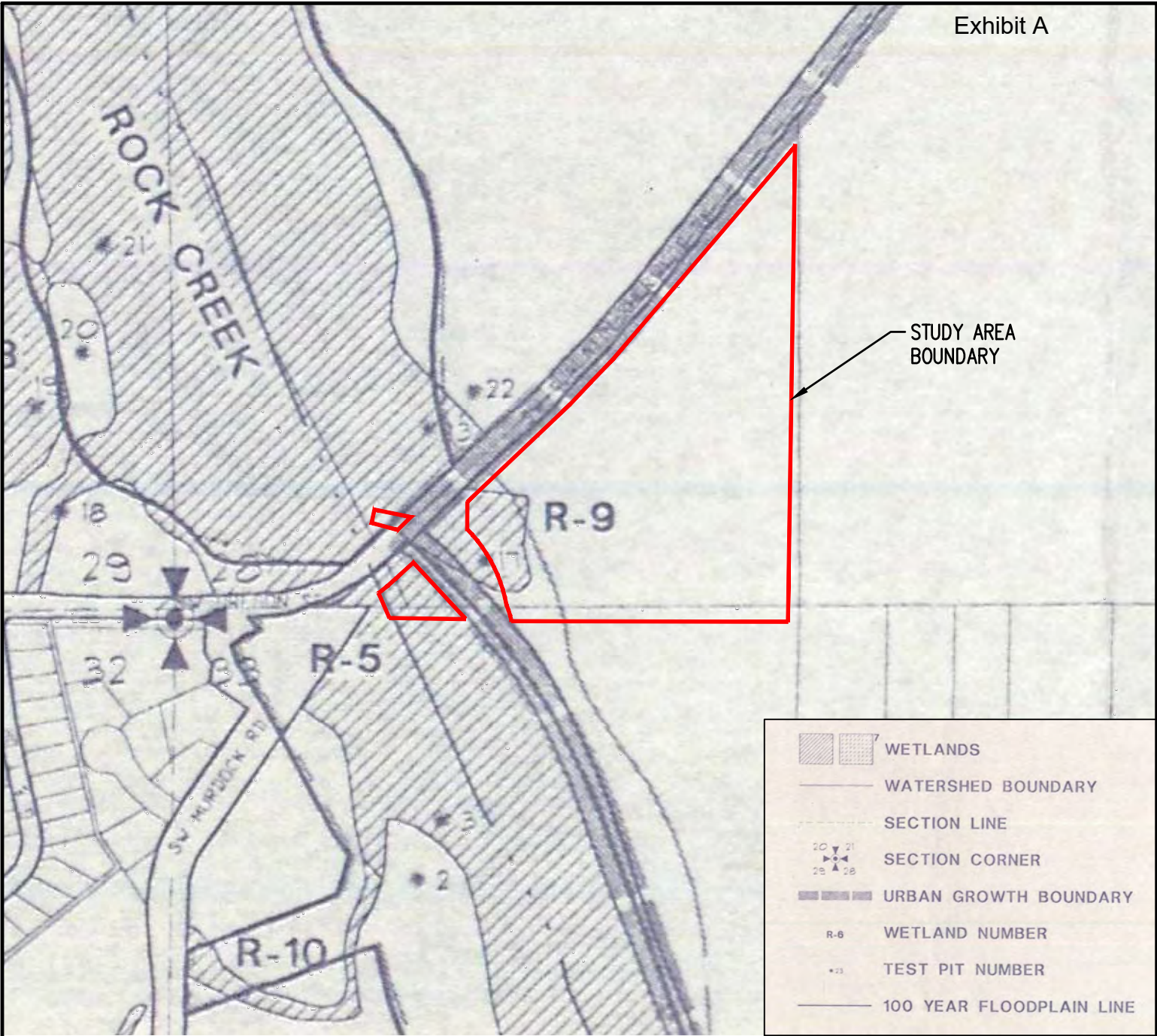
SCALE: 1" = 300 FEET



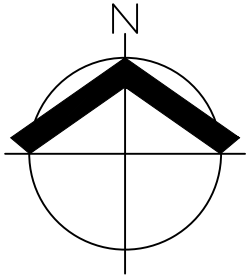
DATE: 04/08/2021

<b>NRCS SOIL SURVEY MAP</b> <b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>FIGURE</b> <b>3</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151    WWW.AKS-ENG.COM		DRWN: ANF CHKD: SKT AKS JOB: 7971

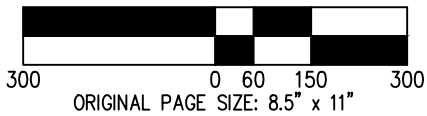




CITY OF SHERWOOD, OREGON  
WETLANDS INVENTORY (1992)



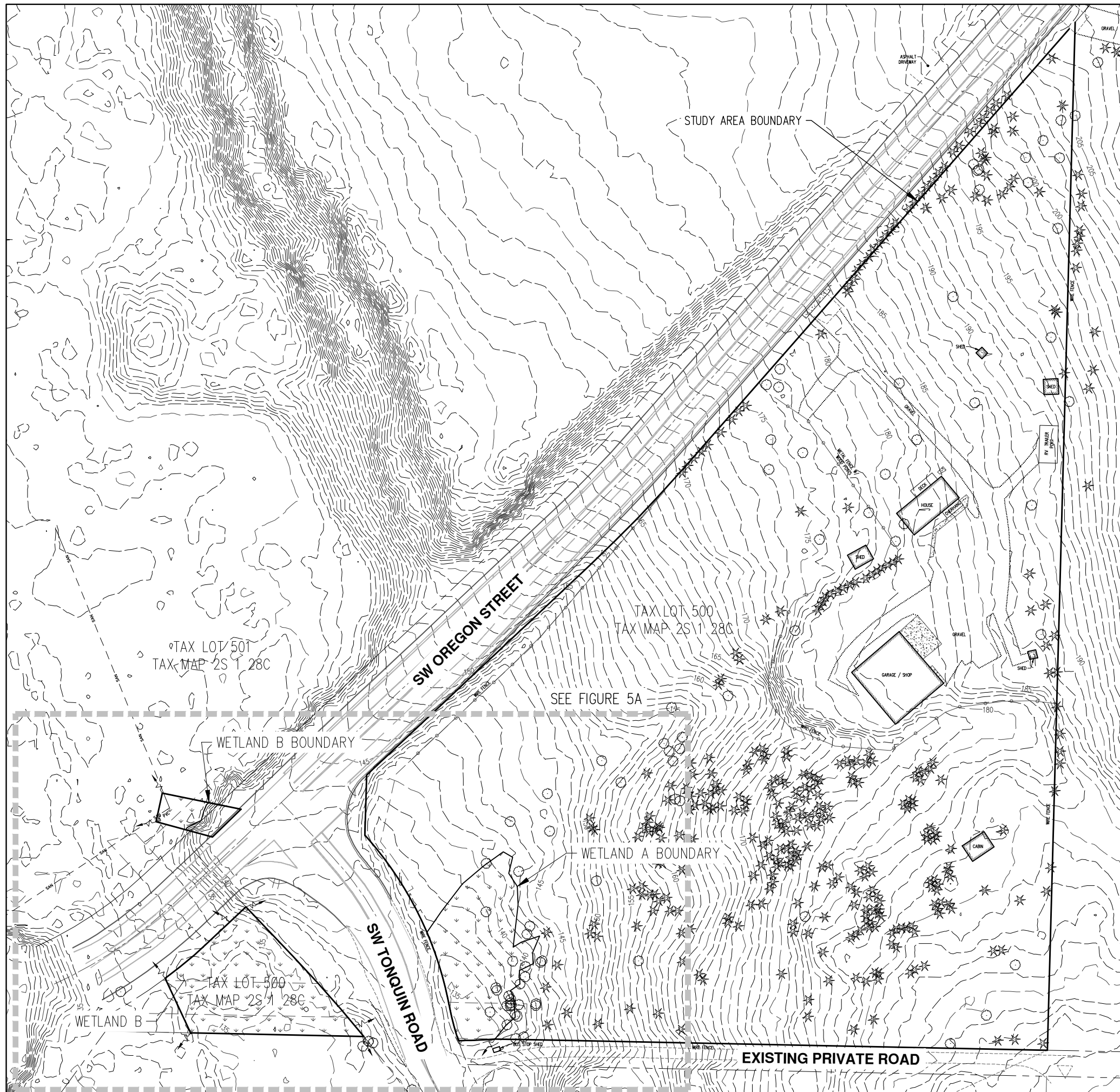
SCALE: 1" = 300 FEET



DATE: 04/08/2021

<b>LOCAL WETLAND INVENTORY MAP</b> <b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>FIGURE</b> <b>4</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151    WWW.AKS-ENG.COM		DRWN: ANF CHKD: SKT AKS JOB: 7971



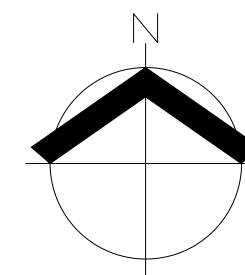


**LEGEND**

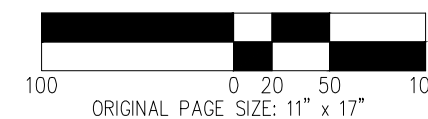
- TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)
- PSS/PEM/SLOPE WETLAND A: 11,430 SF± (0.26 ACRES±)
- PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)
- PHOTO LOCATIONS & ORIENTATION

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.



SCALE: 1" = 100 FEET

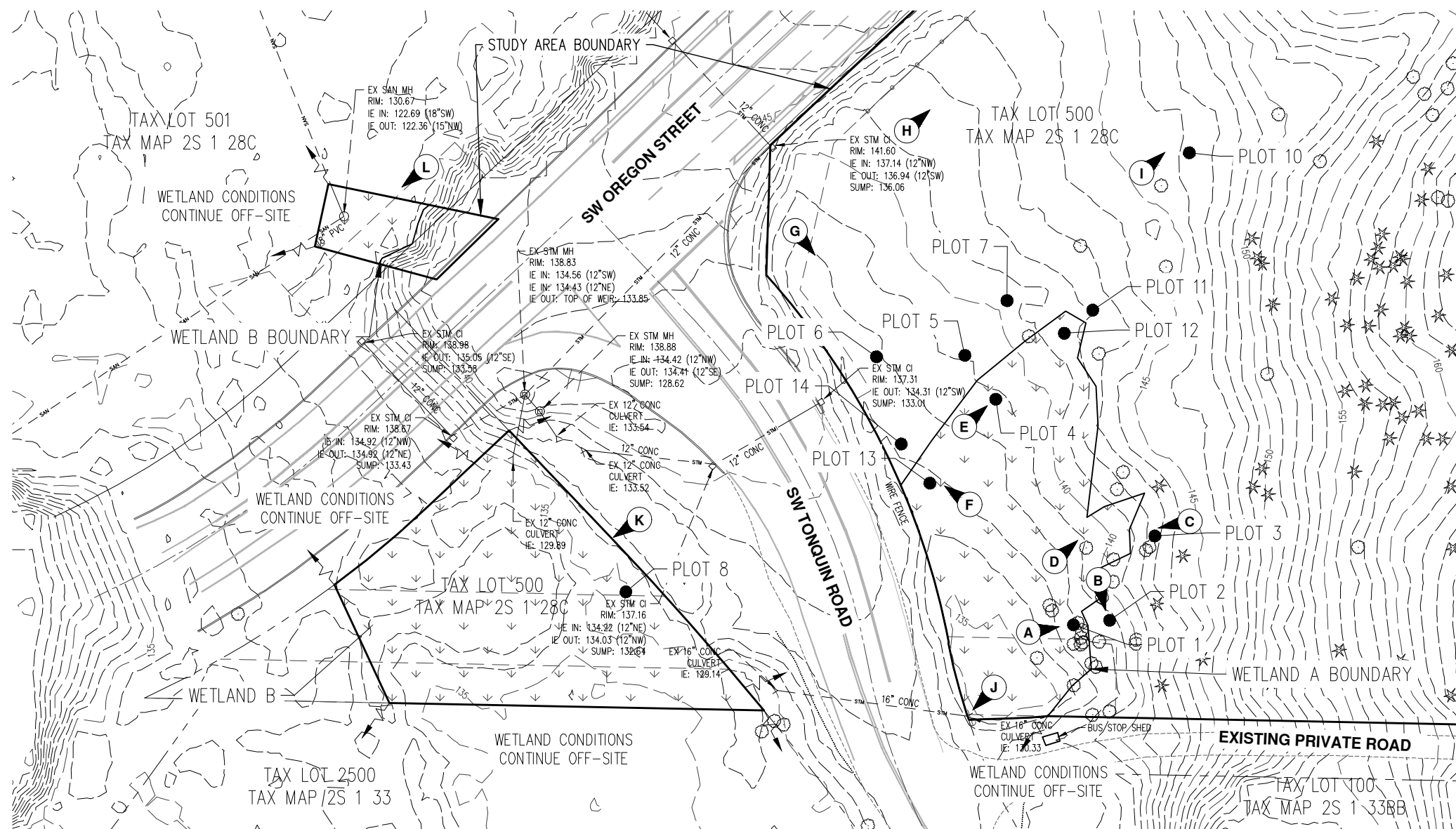


DATE: 04/08/2021

<b>WETLAND DELINEATION OVERVIEW</b>	FIGURE
<b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>	<b>5</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	DRWN: SKT CHKD: SAR AKS JOB: 7971

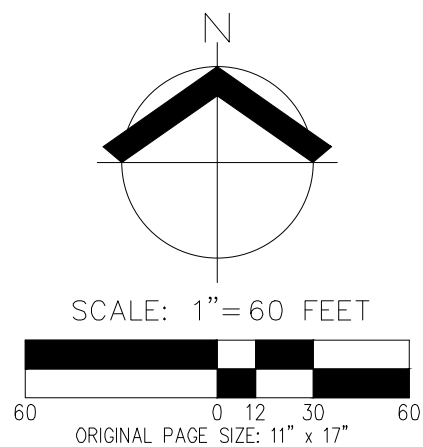






**LEGEND**

- TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)
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1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.

DATE: 04/08/2021

<b>WETLAND DELINEATION</b>		FIGURE
<b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>5A</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: SKT CHKD: SAR AKS JOB: 7971



## **Appendix B: Historical Aerial Photographs**

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May 2019

21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



Google Earth

Image © U.S. Geological Survey

500 ft



May 2017  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



April 2015  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



Google Earth  
Image U.S. Geological Survey



500 ft

July 2014

21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



500 ft

May 2010  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



July 2008  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7871





June 2006

21720 SW Oregon St.  
Sherwood, OR  
Job# 7971





July 2004  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7871

Google Earth  
Image © 2021 Metro, Portland Oregon



400 ft



July 2003  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971

Google Earth  
Image U.S. Geological Survey

500 ft



August 2002  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971



500 ft



May 2002

21720 SW Oregon St.  
Sherwood, OR  
Job# 7971

Google Earth

Image U.S. Geological Survey

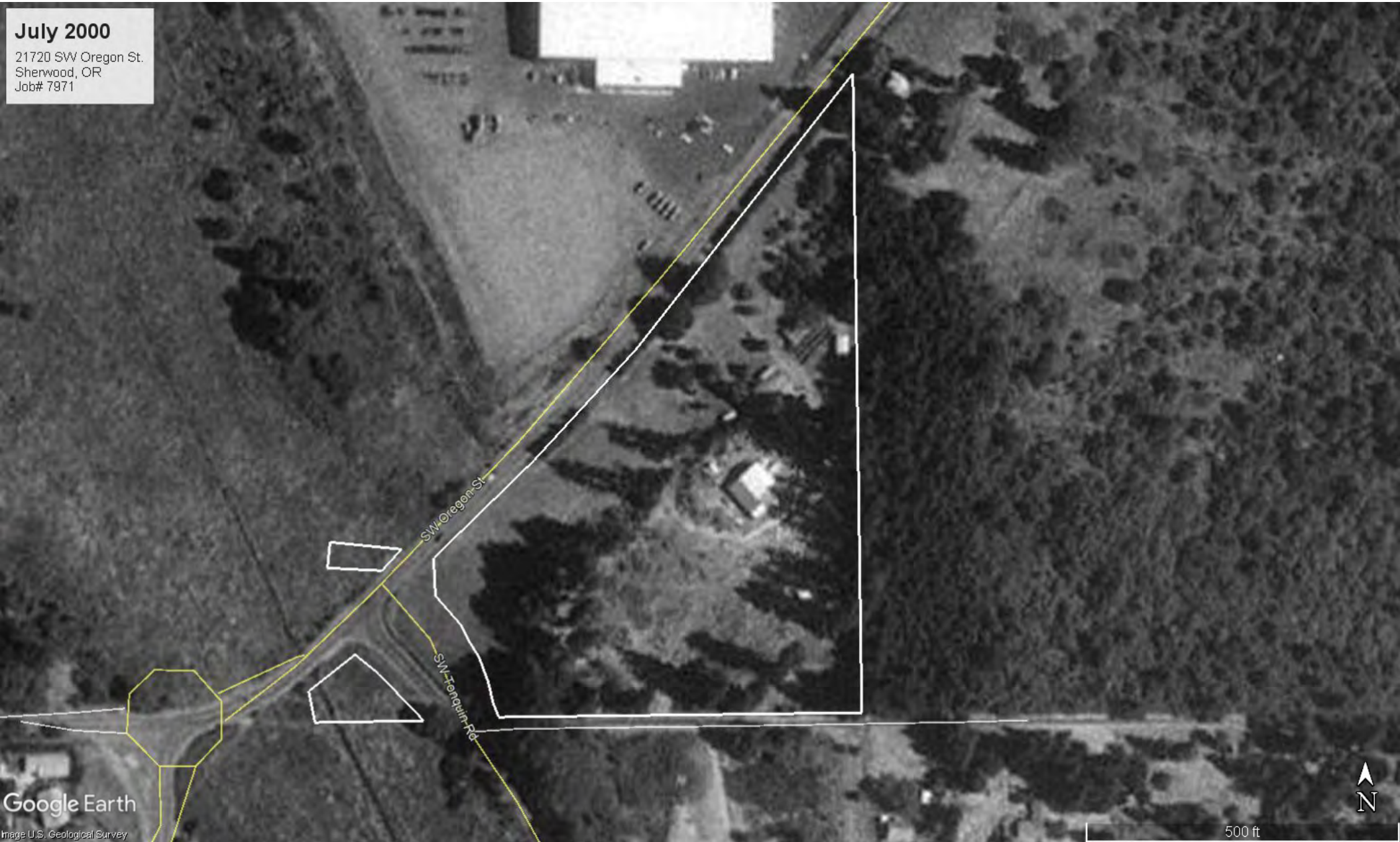
500 ft





July 2001  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971





July 2000  
21720 SW Oregon St.  
Sherwood, OR  
Job# 7971

Google Earth  
Image U.S. Geological Survey

500 ft



May 1994

21720 SW Oregon St.  
Sherwood, OR  
Job# 7971





## **Appendix C: Precipitation Data**

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WETS Table

WETS Station: PORTLAND-HILLSBORO AP, OR								
Requested years: 1971 - 2021								
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall
Jan	46.7	33.8	40.2	5.28	3.69	6.27	12	-
Feb	49.9	33.6	41.8	3.63	2.25	4.39	10	-
Mar	54.9	36.3	45.6	3.77	2.77	4.43	11	-
Apr	60.6	39.1	49.9	2.40	1.78	2.82	8	-
May	68.1	44.7	56.4	1.81	1.06	2.21	6	-
Jun	73.5	49.0	61.2	1.20	0.75	1.45	4	-
Jul	81.8	52.4	67.1	0.28	0.16	0.32	1	-
Aug	82.3	52.1	67.2	0.45	0.16	0.49	1	-
Sep	75.9	47.5	61.7	1.30	0.58	1.58	3	-
Oct	63.3	41.5	52.4	3.12	1.95	3.77	7	-
Nov	52.2	36.7	44.4	5.21	3.56	6.22	11	-
Dec	45.6	33.2	39.4	5.98	4.06	7.14	13	-
Annual:					30.26	37.33		
Average	62.9	41.7	52.3	-	-	-	-	-
Total	-	-	-	34.42			88	-

GROWING SEASON DATES			
Years with missing data:	24 deg = 29	28 deg = 29	32 deg = 29
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0
Data years used:	24 deg = 22	28 deg = 22	32 deg = 22
Probability	24 F or higher	28 F or higher	32 F or higher
50 percent *	2/2 to 11/28: 299 days	3/15 to 11/10: 240 days	4/20 to 10/23: 186 days
70 percent *	1/23 to 12/9: 320 days	3/7 to 11/19: 257 days	4/13 to 10/31: 201 days

\* Percent chance of the growing season occurring between the Beginning and Ending dates.

STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1998						M0.68	M0.32	T	0.87	M2.75	9.03	7.07	20.72
1999	7.48	9.78	4.29	1.50	1.74	1.55	0.66	0.84	0.14	2.49	6.91	3.91	41.29
2000	6.92	4.35	3.02	1.36	1.91	1.04	0.08	M0.15	1.27	3.00	2.16	3.24	28.50
2001	1.94	1.58	2.33	1.86	0.85	1.20	0.45	0.79	0.79	3.13	8.54	6.98	30.44
2002	7.31	3.13	3.49	1.71	1.44	1.30	M0.32	0.05	0.83	0.43	2.61	9.88	32.50
2003	8.29	2.93	5.16	5.91	0.75	0.15	T	0.55	0.94	3.07	4.43	7.93	40.11
2004	5.90	4.27	M1.68	1.79	1.24	0.82	T	2.31	1.37	3.55	2.61	3.72	29.26
2005	2.27	0.68	4.42	2.56	4.35	1.55	0.24	0.32	1.36	3.68	6.09	9.09	36.61
2006	11.90	1.99	3.57	2.02	2.70	1.08	0.14	0.08	0.00	0.00	12.00	M7.00	45.00

## Exhibit A

									59	90	88	49	34
2007	3.24	3.80	2.39	1.96	1.29	0.97	0.40	0.53	1.73	3.12	3.90	8.94	32.27
2008	5.38	1.49	3.31	1.94	0.97	0.36	0.09	1.37	0.22	1.69	4.51	M2.77	24.10
2009	M4.36	1.08	2.40	1.24	2.92	1.34	0.13	0.72	1.51	3.32	5.72	M3.96	28.70
2010	5.14	4.06	3.76	3.22	3.16	3.52	0.45	0.17	2.21	3.98	5.23	8.16	43.06
2011	3.59	3.83	5.39	3.42	M2.10	0.59	1.23	T	0.26	1.88	5.38	2.33	30.00
2012	5.79	M2.48	6.59	2.38	2.34	2.42	0.09	0.02	0.04	5.45	7.59	7.50	42.69
2013	1.47	1.87	1.81	2.33	3.98	1.31	T	0.85	6.27	0.87	2.73	1.08	24.57
2014	2.41	5.06	6.07	3.42	1.70	0.92	0.52	0.14	1.10	6.12	2.83	5.88	36.17
2015	3.01	4.57	4.68	1.41	0.44	0.54	0.32	0.55	0.86	3.42	4.00	14.60	38.40
2016	7.53	3.96	5.31	1.88	0.80	1.33	0.33	0.25	0.93	8.66	6.25	4.77	42.00
2017	4.11	10.06	6.96	3.56	1.82	1.05	T	0.13	1.39	4.04	7.38	2.92	43.42
2018	5.17	2.15	2.79	3.32	0.11	0.65	T	T	0.79	3.33	2.61	4.74	25.66
2019	3.12	4.96	1.36	3.23	1.45	0.64	0.49	0.21	3.08	1.51	1.16	5.22	26.43
2020	7.18	1.49	2.12	0.88	1.86	2.04	0.07	0.25	M1.28	1.38	5.34	5.27	29.16
2021	7.86	3.91											11.77

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - <http://www.ncdc.noaa.gov>.

### Climatological Report (Daily)

000  
CDUS46 KPQR 091144  
CLIHIO

CLIMATE REPORT  
NATIONAL WEATHER SERVICE  
344 AM PST TUE MAR 09 2021

.....  
...THE HILLSBORO OR CLIMATE SUMMARY FOR MARCH 8 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010  
CLIMATE RECORD PERIOD 1929 TO 2021

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
--------------	----------------	------------	--------------	------	--------------	-----------------------	-----------

TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	53	342 PM	73	2004	54	-1	50
MINIMUM	30	712 AM	25	1985	35	-5	30
AVERAGE	42				45	-3	40

PRECIPITATION (IN)							
YESTERDAY	0.01		1.13	1995	0.11	-0.10	
MONTH TO DATE	0.24				0.88	-0.64	
SINCE OCT 1	24.00				27.74	-3.74	
SINCE JAN 1	12.01				11.35	0.66	

DEGREE DAYS							
HEATING							
YESTERDAY	23				20	3	
MONTH TO DATE	172				165	7	
SINCE JUL 1	3310				3692	-382	

COOLING							
YESTERDAY	0				0	0	
MONTH TO DATE	0				0	0	
SINCE JAN 1	0				0	0	

WIND (MPH)							
HIGHEST WIND SPEED	23						S (190)
HIGHEST GUST SPEED	30						S (180)
AVERAGE WIND SPEED	6.1						

WEATHER CONDITIONS  
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.  
NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)

HIGHEST	100	100 AM
LOWEST	46	300 PM
AVERAGE	73	

.....

THE HILLSBORO OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	55	70	1965 2005
MINIMUM TEMPERATURE (F)	36	24	1943 1951

SUNRISE AND SUNSET

MARCH 9 2021.....	SUNRISE	635 AM PST	SUNSET	610 PM PST
MARCH 10 2021.....	SUNRISE	633 AM PST	SUNSET	612 PM PST

- INDICATES NEGATIVE NUMBERS.
- R INDICATES RECORD WAS SET OR TIED.
- MM INDICATES DATA IS MISSING.
- T INDICATES TRACE AMOUNT.

---

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

Explanation of the Preliminary Monthly Climate Data (F6) Product

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - <http://www.ncdc.noaa.gov>.

**WFO Monthly/Daily Climate Data**

000  
 CXUS56 KPQR 011210  
 CF6HIO  
 PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: HILLSBORO OR  
 MONTH: FEBRUARY  
 YEAR: 2021  
 LATITUDE: 45 32 N  
 LONGITUDE: 122 57 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	50	46	48	6	17	0	0.54	M	M	8.1	17	180	M	M	10	1	22	170
2	50	40	45	3	20	0	0.46	M	M	10.8	26	180	M	M	8	1	37	180
3	46	35	41	-1	24	0	0.10	M	M	3.1	21	180	M	M	10	1	25	180
4	45	36	41	-1	24	0	0.01	M	M	3.9	13	180	M	M	9	1	16	190
5	52	33	43	1	22	0	0.03	M	M	5.0	16	170	M	M	8	1	20	180
6	48	31	40	-2	25	0	0.01	M	M	5.7	18	180	M	M	9	12	26	210
7	49	36	43	1	22	0	0.02	M	M	4.6	15	270	M	M	10	1	20	280
8	45	31	38	-4	27	0	0.00	M	M	2.4	9	340	M	M	9	1	12	340
9	47	27	37	-5	28	0	0.00	M	M	0.9	6	50	M	M	3	12	8	40
10	47	31	39	-3	26	0	0.00	M	M	2.0	9	40	M	M	8		13	40
11	40	28	34	-8	31	0	0.10	M	M	7.5	21	80	M	M	10	1	28	70
12	29	25	27	-15	38	0	0.41	M	M	10.0	17	80	M	M	10	16	25	80
13	34	24	29	-13	36	0	0.33	M	M	5.0	18	120	M	M	10	16	23	100
14	33	28	31	-11	34	0	0.48	M	M	1.9	9	120	M	M	10	16	12	80
15	48	32	40	-2	25	0	0.18	M	M	3.3	16	230	M	M	9	12	23	210
16	50	33	42	0	23	0	0.07	M	M	3.9	18	300	M	M	8	1	24	330
17	50	33	42	0	23	0	T	M	M	1.5	8	270	M	M	7	12	10	260
18	41	35	38	-4	27	0	0.27	M	M	2.7	10	100	M	M	8	1	13	100
19	49	38	44	1	21	0	0.11	M	M	3.8	14	160	M	M	10	12	15	160
20	50	34	42	-1	23	0	T	M	M	5.2	15	180	M	M	9	1	19	300
21	51	42	47	4	18	0	T	M	M	12.7	21	180	M	M	9		25	180
22	52	37	45	2	20	0	0.22	M	M	11.2	22	180	M	M	9	1	28	180
23	49	33	41	-2	24	0	0.07	M	M	5.4	17	230	M	M	6	1	22	240
24	48	31	40	-3	25	0	0.07	M	M	1.3	8	40	M	M	6	12	11	290
25	51	36	44	1	21	0	0.20	M	M	6.6	21	280	M	M	10	1	26	280
26	50	40	45	2	20	0	0.23	M	M	9.4	31	320	M	M	9	1	37	310
27	50	31	41	-3	24	0	T	M	M	4.2	14	270	M	M	8		19	300
28	55	39	47	3	18	0	0.00	M	M	3.8	13	160	M	M	5		17	170
=====																		
SM	1309	945			686	0	3.91	M		145.9			M		237			
=====																		
AV	46.8	33.8								5.2	FASTST	M	M	8	MAX(MPH)			
								MISC	----	>	31	320				#	37	180
=====																		

NOTES:  
 # LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: HILLSBORO OR  
MONTH: FEBRUARY  
YEAR: 2021  
LATITUDE: 45 32 N  
LONGITUDE: 122 57 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 40.3	TOTAL FOR MONTH: 3.91	1 = FOG OR MIST
DPTR FM NORMAL: -2.0	DPTR FM NORMAL: -0.50	2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
HIGHEST: 55 ON 28	GRTST 24HR 0.65 ON 12-13	3 = THUNDER
LOWEST: 24 ON 13		4 = ICE PELLETS
	SNOW, ICE PELLETS, HAIL	5 = HAIL
	TOTAL MONTH: M	6 = FREEZING RAIN OR DRIZZLE
	GRTST 24HR M ON M	7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS
	GRTST DEPTH: M ON M	8 = SMOKE OR HAZE
		9 = BLOWING SNOW
		X = TORNADO
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	

MAX 32 OR BELOW: 1	0.01 INCH OR MORE: 20
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 13
MIN 32 OR BELOW: 11	0.50 INCH OR MORE: 1
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0

[HDD (BASE 65) ]	
TOTAL THIS MO. 686	CLEAR (SCALE 0-3) 1
DPTR FM NORMAL 52	PTCLDY (SCALE 4-7) 8
TOTAL FM JUL 1 3138	CLOUDY (SCALE 8-10) 19
DPTR FM NORMAL -387	

[CDD (BASE 65) ]		[PRESSURE DATA]
TOTAL THIS MO. 0		HIGHEST SLP 30.62 ON 24
DPTR FM NORMAL 0		LOWEST SLP 29.64 ON 15
TOTAL FM JAN 1 0		
DPTR FM NORMAL 0		

[REMARKS]  
#FINAL-02-21#

Explanation of the Preliminary Monthly Climate Data (F6) Product

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**WFO Monthly/Daily Climate Data**

238  
 CXUS56 KPQR 011210  
 CF6HIO  
 PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: HILLSBORO OR  
 MONTH: JANUARY  
 YEAR: 2021  
 LATITUDE: 45 32 N  
 LONGITUDE: 122 57 W

TEMPERATURE IN F:					:PCPN:		SNOW:		WIND			:SUNSHINE:		SKY		:PK WND		
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
											12Z AVG MX 2MIN							
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	52	46	49	11	16	0	0.28	M	M	8.4	17	170	M	M	10	18	22	180
2	50	46	48	10	17	0	1.04	M	M	15.4	24	180	M	M	9	1	34	180
3	51	38	45	6	20	0	0.32	M	M	7.0	20	180	M	M	8	1	26	190
4	52	43	48	9	17	0	0.66	M	M	6.8	16	230	M	M	9	1	20	220
5	49	40	45	6	20	0	0.09	M	M	6.1	17	130	M	M	8	1	26	110
6	50	42	46	7	19	0	0.71	M	M	3.9	14	170	M	M	10	12	18	180
7	53	37	45	6	20	0	0.01	M	M	4.5	18	100	M	M	5	12	23	100
8	51	31	41	2	24	0	0.43	M	M	3.6	12	320	M	M	6	1	16	310
9	45	30	38	-1	27	0	0.03	M	M	2.5	10	300	M	M	6	12	12	300
10	47	39	43	3	22	0	0.12	M	M	1.6	12	90	M	M	10	12	13	80
11	50	39	45	5	20	0	0.52	M	M	3.1	13	180	M	M	9	12	17	170
12	59	50	55	15	10	0	1.85	M	M	13.5	22	210	M	M	10	1	29	210
13	59	39	49	9	16	0	0.01	M	M	5.3	31	280	M	M	2		40	270
14	54	35	45	5	20	0	0.02	M	M	2.8	9	290	M	M	3	1	11	290
15	50	44	47	7	18	0	0.06	M	M	2.1	8	80	M	M	10	1	9	70
16	49	39	44	4	21	0	0.00	M	M	2.4	7	170	M	M	7		8	180
17	50	35	43	3	22	0	0.03	M	M	2.3	7	310	M	M	8	12	8	310
18	53	30	42	2	23	0	0.00	M	M	2.5	9	310	M	M	3	12	11	60
19	54	28	41	0	24	0	0.00	M	M	2.0	8	120	M	M	0	1	12	90
20	47	26	37	-4	28	0	T	M	M	0.6	5	290	M	M	4	1	6	220
21	49	38	44	3	21	0	0.14	M	M	2.1	8	60	M	M	9	18	10	60
22	51	29	40	-1	25	0	0.00	M	M	3.2	12	50	M	M	3		15	60
23	46	25	36	-5	29	0	0.00	M	M	0.6	6	140	M	M	3	12	7	160
24	39	35	37	-4	28	0	0.38	M	M	1.9	10	180	M	M	10	1	13	140
25	42	34	38	-3	27	0	0.01	M	M	1.7	9	160	M	M	10	1	11	170
26	40	33	37	-4	28	0	0.47	M	M	7.4	20	100	M	M	10	1	27	80
27	42	32	37	-4	28	0	0.22	M	M	2.6	10	200	M	M	10	12	13	200
28	46	34	40	-1	25	0	0.03	M	M	3.8	10	160	M	M	10	12	14	160
29	45	32	39	-2	26	0	0.07	M	M	2.6	10	160	M	M	9	12	13	170
30	51	41	46	5	19	0	0.12	M	M	9.2	21	160	M	M	10	18	26	160
31	55	47	51	9	14	0	0.24	M	M	7.6	18	180	M	M	10	1	24	170
SM	1531	1137			674	0	7.86	M		139.1			M		231			
AV	49.4	36.7								4.5	FASTST	M	M	7		MAX(MPH)		
								MISC	----	31	280					40	270	



NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: HILLSBORO OR
MONTH: JANUARY
YEAR: 2021
LATITUDE: 45 32 N
LONGITUDE: 122 57 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 43.0 TOTAL FOR MONTH: 7.86 1 = FOG OR MIST
DPTR FM NORMAL: 2.9 DPTR FM NORMAL: 1.80 2 = FOG REDUCING VISIBILITY
HIGHEST: 59 ON 13,12 GRTST 24HR 2.53 ON 11-12 TO 1/4 MILE OR LESS
LOWEST: 25 ON 23 3 = THUNDER
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS
TOTAL MONTH: M 5 = HAIL
GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE
GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:
VSBY 1/2 MILE OR LESS
8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]
MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 25
MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 15
MIN 32 OR BELOW: 9 0.50 INCH OR MORE: 5
MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 2

[HDD (BASE 65) ]
TOTAL THIS MO. 674 CLEAR (SCALE 0-3) 5
DPTR FM NORMAL -98 PTCLDY (SCALE 4-7) 8
TOTAL FM JUL 1 2452 CLOUDY (SCALE 8-10) 18
DPTR FM NORMAL -443

[CDD (BASE 65) ]
TOTAL THIS MO. 0
DPTR FM NORMAL 0 [PRESSURE DATA]
TOTAL FM JAN 1 0 HIGHEST SLP 30.54 ON 17
DPTR FM NORMAL 0 LOWEST SLP 29.39 ON 26

[REMARKS]
#FINAL-01-21#

Explanation of the Preliminary Monthly Climate Data (F6) Product

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**WFO Monthly/Daily Climate Data**

232

CXUS56 KPQR 011537

CF6HIO

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: HILLSBORO OR  
 MONTH: DECEMBER  
 YEAR: 2020  
 LATITUDE: 45 32 N  
 LONGITUDE: 122 57 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	51	30	41	0	24	0	0.00	M	M	5.8	20	80	M	M	5	12	28	70
2	55	33	44	4	21	0	0.00	M	M	11.3	21	100	M	M	0		30	90
3	50	30	40	0	25	0	0.00	M	M	1.7	7	290	M	M	1		8	290
4	55	26	41	1	24	0	0.00	M	M	2.4	8	310	M	M	0	1	10	330
5	54	28	41	1	24	0	0.01	M	M	3.7	14	100	M	M	3		16	100
6	47	38	43	3	22	0	0.03	M	M	1.8	7	70	M	M	10	1	9	50
7	50	34	42	3	23	0	0.00	M	M	0.9	7	300	M	M	1	1	8	140
8	54	34	44	5	21	0	0.18	M	M	1.8	14	310	M	M	6	1	18	330
9	50	35	43	4	22	0	T	M	M	2.2	13	310	M	M	8	12	16	310
10	41	34	38	-1	27	0	0.12	M	M	3.0	10	170	M	M	10	12	12	170
11	42	31	37	-2	28	0	0.40	M	M	1.9	9	30	M	M	10	12	12	30
12	46	31	39	1	26	0	0.04	M	M	5.5	16	90	M	M	5	12	20	80
13	44	38	41	3	24	0	0.44	M	M	2.9	12	110	M	M	10	1	16	130
14	45	36	41	3	24	0	T	M	M	1.7	8	230	M	M	9	12	10	320
15	49	41	45	7	20	0	0.11	M	M	9.0	22	170	M	M	9	1	27	170
16	50	42	46	8	19	0	0.47	M	M	4.7	16	190	M	M	8	1	22	180
17	52	38	45	7	20	0	0.02	M	M	5.4	13	240	M	M	8	1	18	180
18	50	38	44	6	21	0	0.17	M	M	8.3	22	180	M	M	8	1	26	180
19	53	44	49	11	16	0	0.48	M	M	9.9	22	180	M	M	10	1	30	180
20	53	46	50	12	15	0	1.24	M	M	2.7	13	180	M	M	10	1	16	170
21	59	41	50	12	15	0	0.28	M	M	9.8	30	310	M	M	9	1	39	180
22	49	31	40	2	25	0	0.03	M	M	3.5	17	260	M	M	7	12	23	280
23	49	28	39	1	26	0	0.00	M	M	3.3	10	60	M	M	3	12	13	70
24	44	22	33	-5	32	0	0.00	M	M	2.6	7	290	M	M	0	1	8	300
25	49	31	40	2	25	0	0.61	M	M	4.3	20	160	M	M	8	1	25	150
26	51	40	46	8	19	0	0.10	M	M	7.6	15	170	M	M	7	1	19	200
27	52	32	42	4	23	0	0.02	M	M	3.6	12	60	M	M	4	12	16	60
28	48	26	37	-1	28	0	0.00	M	M	3.4	8	310	M	M	0	1	10	70
29	37	27	32	-6	33	0	0.06	M	M	1.6	7	300	M	M	8	12	8	120
30	47	36	42	4	23	0	0.42	M	M	8.6	18	180	M	M	10	1	25	150
31	51	45	48	10	17	0	0.04	M	M	9.8	16	190	M	M	9	1	22	180
=====																		
SM	1527	1066			712	0	5.27	M		144.7			M		196			
=====																		
AV	49.3	34.4								4.7	FASTST	M	M	6		MAX(MPH)		
								MISC	----	30	310					39	180	

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: HILLSBORO OR
MONTH: DECEMBER
YEAR: 2020
LATITUDE: 45 32 N
LONGITUDE: 122 57 W

[TEMPERATURE DATA]

[PRECIPITATION DATA]

SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 41.8
DPTR FM NORMAL: 3.3
HIGHEST: 59 ON 21
LOWEST: 22 ON 24

TOTAL FOR MONTH: 5.27
DPTR FM NORMAL: -1.47
GRST 24HR 1.46 ON 19-20
SNOW, ICE PELLETS, HAIL
TOTAL MONTH: M
GRST 24HR M ON M
GRST DEPTH: M ON M

- 1 = FOG OR MIST
2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
3 = THUNDER
4 = ICE PELLETS
5 = HAIL
6 = FREEZING RAIN OR DRIZZLE
7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS
8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

[NO. OF DAYS WITH]

[WEATHER - DAYS WITH]

MAX 32 OR BELOW: 0
MAX 90 OR ABOVE: 0
MIN 32 OR BELOW: 13
MIN 0 OR BELOW: 0

0.01 INCH OR MORE: 21
0.10 INCH OR MORE: 13
0.50 INCH OR MORE: 2
1.00 INCH OR MORE: 1

[HDD (BASE 65) ]

TOTAL THIS MO. 712
DPTR FM NORMAL -108
TOTAL FM JUL 1 1778
DPTR FM NORMAL -342

CLEAR (SCALE 0-3) 7
PTCLDY (SCALE 4-7) 9
CLOUDY (SCALE 8-10) 15

[CDD (BASE 65) ]

TOTAL THIS MO. 0
DPTR FM NORMAL 0
TOTAL FM JAN 1 344
DPTR FM NORMAL 146

[PRESSURE DATA]

HIGHEST SLP 30.58 ON 1
LOWEST SLP 29.61 ON 21

[REMARKS]

#FINAL-12-20#

## **Appendix D: Wetland Determination Data Forms**

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**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 1  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360742 Long: -122.823014 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Populus balsamifera</u>	10%	Yes	FAC		Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
10% = Total Cover					
Sapling/Shrub Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Prevalence Index worksheet:</b>	
1. <u>Fraxinus latifolia</u>	20%	Yes	FACW		Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. <u>Rosa nutkana</u>	15%	Yes	FAC	<b>Total % Cover of:</b> _____ <b>Multiply by:</b> _____ OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>73</u> x 3 = <u>219</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>108</u> (A) <u>289</u> (B) Prevalence Index = B/A = <u>2.68</u>	
3. <u>Alnus rubra</u>	10%	No	FAC		
4. <u>Symphoricarpos albus</u>	5%	No	FACU		
5. <u>Rubus armeniacus</u>	3%	No	FAC		
53% = Total Cover					
Herb Stratum (Plot Size: 5' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Ranunculus repens</u>	20%	Yes	FAC		<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Alopecurus pratensis</u>	15%	Yes	FAC		<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
3. <u>Carex obnupta</u>	10%	Yes	OBL		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. _____	_____	_____	_____		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
45% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>55%</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**

<b>SOIL</b>						<b>Sampling Point:</b>	<b>1</b>
<b>Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):</b>							
Depth	Matrix		Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture
0-5	10YR 3/2	98	7.5YR 4/4	2	C	M	SiL
5-11	10YR 3/2	95	7.5YR 4/4	5	C	M	SiL
11-16	10YR 4/1	95	7.5YR 4/4	5	C	M	SiL

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)			
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)				
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)				
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)				

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No _____
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**Remarks:**

<b>HYDROLOGY</b>		
<b>Wetland Hydrology Indicators:</b>		
<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 9"	
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 12"	

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 2  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): 3-5%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360746 Long: -122.822961 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Populus balsamifera</u>	30%	Yes	FAC		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
30% = Total Cover					Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Symphoricarpos albus</u>	20%	Yes	FACU	FACW species <u>0</u> x 2 = <u>0</u>	
2. <u>Mahonia aquifolium</u>	15%	Yes	FACU	FAC species <u>68</u> x 3 = <u>204</u>	
3. <u>Rosa nutkana</u>	10%	No	FAC	FACU species <u>45</u> x 4 = <u>180</u>	
4. <u>Ilex aquifolium</u>	10%	No	FACU	UPL species <u>2</u> x 5 = <u>10</u>	
5. <u>Rubus armeniacus</u>	3%	No	FAC	Column Totals: <u>115</u> (A) <u>394</u> (B)	
58% = Total Cover				Prevalence Index = B/A = <u>3.43</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Carex leptopoda</u>	20%	Yes	FAC		1 - Rapid Test for Hydrophytic Vegetation
2. <u>Ranunculus repens</u>	5%	Yes	FAC		X 2 - Dominance Test is >50%
3. <u>Geranium molle</u>	2%	No	NOL		3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. _____	_____	_____	_____		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
27% = Total Cover					
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum	<u>73%</u>			<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 Bare ground covered by leaf litter.

<b>SOIL</b>	<b>Sampling Point:</b> 2
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 3/2	100					SIL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<p><b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b></p> <p><input type="checkbox"/> Histosol (A1)                      <input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Histic Epipedon (A2)              <input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Black Histic (A3)                   <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)              <input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)   <input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)           <input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)           <input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)           <input type="checkbox"/> Redox Depressions (F8)</p>	<p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p><b>Restrictive Layer (if present):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p><b>Hydric Soil Present?</b></p> <p>Yes _____ No <b>X</b> _____</p>
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**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)                      <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)                              <input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Water Marks (B1)                              <input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Sediment Deposits (B2)                      <input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Drift Deposits (B3)                              <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)                              <input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Iron Deposits (B5)                              <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)                              <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)      <input type="checkbox"/> Other (Explain in Remarks)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>

<p><b>Field Observations:</b></p> <p>Surface Water Present?    Yes _____ No <b>X</b> _____      Depth (inches): _____</p> <p>Water Table Present?      Yes <b>X</b> _____ No _____      Depth (inches): <b>15"</b></p> <p>Saturation Present?        Yes <b>X</b> _____ No _____      Depth (inches): <b>13"</b></p> <p>(includes capillary fringe)</p>	<p><b>Wetland Hydrology Present?</b></p> <p>Yes _____ No <b>X</b> _____</p>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
Pit was left open for approximately 2 hours.



**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 3  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360853 Long: -122.822879 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Pseudotsuga menziesii</u>	20%	Yes	FACU		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Populus balsamifera</u>	10%	Yes	FAC	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
30% = Total Cover					Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Rubus armeniacus</u>	20%	Yes	FAC	FACW species <u>5</u> x 2 = <u>10</u>	
2. <u>Crataegus monogyna</u>	15%	Yes	FAC	FAC species <u>45</u> x 3 = <u>135</u>	
3. <u>Physocarpus capitatus</u>	5%	No	FACW	FACU species <u>30</u> x 4 = <u>120</u>	
4. <u>Ilex aquifolium</u>	5%	No	FACU	UPL species <u>0</u> x 5 = <u>0</u>	
5. <u>Oemleria cerasiformis</u>	5%	No	FACU	Column Totals: <u>80</u> (A) <u>265</u> (B)	
50% = Total Cover				Prevalence Index = B/A = <u>3.31</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Tellima grandiflora</u>	20%	Yes	FACU		1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____		X 2 - Dominance Test is >50%
3. _____	_____	_____	_____		3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. _____	_____	_____	_____		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
20% = Total Cover					
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum	<u>80%</u>			<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 Bare ground covered by leaf litter.

<b>SOIL</b>	<b>Sampling Point:</b> 3
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 3/2	100					SiL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<p><b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b></p> <p>___ Histosol (A1)                      ___ Sandy Redox (S5)          ___ Histic Epipedon (A2)            ___ Stripped Matrix (S6)          ___ Black Histic (A3)                ___ Loamy Mucky Mineral (F1) (except MLRA 1)          ___ Hydrogen Sulfide (A4)           ___ Loamy Gleyed Matrix (F2)          ___ Depleted Below Dark Surface (A11) ___ Depleted Matrix (F3)          ___ Thick Dark Surface (A12)        ___ Redox Dark Surface (F6)          ___ Sandy Mucky Mineral (S1)        ___ Depleted Dark Surface (F7)          ___ Sandy Gleyed Matrix (S4)        ___ Redox Depressions (F8)</p>	<p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <p>___ 2 cm Muck (A10)          ___ Red Parent Material (TF2)          ___ Very Shallow Dark Surface (TF12)          ___ Other (Explain in Remarks)</p> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p><b>Restrictive Layer (if present):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p><b>Hydric Soil Present?</b></p> <p>Yes _____ No <u>  X  </u></p>
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**Remarks:**

**HYDROLOGY**

<p><b>Wetland Hydrology Indicators:</b></p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p>___ Surface Water (A1)                      ___ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)          ___ High Water Table (A2)                      ___ Salt Crust (B11)          ___ Saturation (A3)                              ___ Aquatic Invertebrates (B13)          ___ Water Marks (B1)                            ___ Hydrogen Sulfide Odor (C1)          ___ Sediment Deposits (B2)                   ___ Oxidized Rhizospheres along Living Roots (C3)          ___ Drift Deposits (B3)                        ___ Presence of Reduced Iron (C4)          ___ Algal Mat or Crust (B4)                    ___ Recent Iron Reduction in Tilled Soils (C6)          ___ Iron Deposits (B5)                         ___ Stunted or Stressed Plants (D1) (LRR A)          ___ Surface Soil Cracks (B6)                 ___ Other (Explain in Remarks)          ___ Inundation Visible on Aerial Imagery (B7)     ___ Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p>___ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)          ___ Drainage Patterns (B10)          ___ Dry-Season Water Table (C2)          ___ Saturation Visible on Aerial Imagery (C9)          ___ Geomorphic Position (D2)          ___ Shallow Aquitard (D3)          ___ FAC-Neutral Test (D5)          ___ Raised Ant Mounds (D6) (LRR A)          ___ Frost-Heave Hummocks (D7)</p>
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<p><b>Field Observations:</b></p> <p>Surface Water Present?    Yes _____ No <u>  X  </u>      Depth (inches): _____</p> <p>Water Table Present?      Yes _____ No <u>  X  </u>      Depth (inches): <u>  &gt;16"  </u></p> <p>Saturation Present?        Yes _____ No <u>  X  </u>      Depth (inches): <u>  &gt;16"  </u>          (includes capillary fringe)</p>	<p><b>Wetland Hydrology Present?</b></p> <p>Yes _____ No <u>  X  </u></p>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 4  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361013 Long: -122.823162 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>	
1. _____	_____	_____	_____	FAC species <u>85</u> x 3 = <u>255</u>	
2. _____	_____	_____	_____	FACU species <u>2</u> x 4 = <u>8</u>	
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
4. _____	_____	_____	_____	Column Totals: <u>87</u> (A) <u>263</u> (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.02</u>	
0% = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>	
Herb Stratum (Plot Size: 5' r or _____)					1 - Rapid Test for Hydrophytic Vegetation
1. <u>Alopecurus pratensis</u>	<u>50%</u>	<u>Yes</u>	<u>FAC</u>		<u>X</u> 2 - Dominance Test is >50%
2. <u>Ranunculus repens</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Rumex crispus</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Trifolium repens</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>		5 - Wetland Non-Vascular Plants <sup>1</sup>
5. <u>Plantago lanceolata</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
6. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
87% = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>13%</u>					

**Remarks:**

<b>SOIL</b>	<b>Sampling Point:</b> 4
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/2	95	7.5YR 4/4	5	C	M	SiL	
10-16	10YR 4/1	95	7.5YR 4/4	5	C	M	SiCL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<p><b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b></p> <p> <input type="checkbox"/> Histosol (A1)                      <input type="checkbox"/> Sandy Redox (S5)  <input type="checkbox"/> Histic Epipedon (A2)              <input type="checkbox"/> Stripped Matrix (S6)  <input type="checkbox"/> Black Histic (A3)                    <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)  <input type="checkbox"/> Hydrogen Sulfide (A4)              <input type="checkbox"/> Loamy Gleyed Matrix (F2)  <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Depleted Matrix (F3)  <input type="checkbox"/> Thick Dark Surface (A12)          <input checked="" type="checkbox"/> Redox Dark Surface (F6)  <input type="checkbox"/> Sandy Mucky Mineral (S1)          <input type="checkbox"/> Depleted Dark Surface (F7)  <input type="checkbox"/> Sandy Gleyed Matrix (S4)          <input type="checkbox"/> Redox Depressions (F8)         </p>	<p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <p> <input type="checkbox"/> 2 cm Muck (A10)  <input type="checkbox"/> Red Parent Material (TF2)  <input type="checkbox"/> Very Shallow Dark Surface (TF12)  <input type="checkbox"/> Other (Explain in Remarks)         </p> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p><b>Restrictive Layer (if present):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p><b>Hydric Soil Present?</b></p> <p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

<p><b>Field Observations:</b></p> <p>Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/>      Depth (inches): _____</p> <p>Water Table Present?      Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>9"</u></p> <p>Saturation Present?        Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>Surface</u></p> <p>(includes capillary fringe)</p>	<p><b>Wetland Hydrology Present?</b></p> <p>Yes <input checked="" type="checkbox"/> No _____</p>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
Pit left open approximately 30 minutes. Hydrology supported by upslope hillside spring.

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 5  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361064 Long: -122.823162 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Acer macrophyllum</u>	15%	Yes	FACU		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
15% = Total Cover					Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				OBL species <u>0</u> x 1 = <u>0</u>	
1. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>	
2. _____	_____	_____	_____	FAC species <u>93</u> x 3 = <u>279</u>	
3. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>	
4. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
5. _____	_____	_____	_____	Column Totals: <u>103</u> (A) <u>319</u> (B)	
0% = Total Cover				Prevalence Index = B/A = <u>3.10</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Poa species</u>	40%	Yes	FAC*		1 - Rapid Test for Hydrophytic Vegetation
2. <u>Alopecurus pratensis</u>	30%	Yes	FAC		X 2 - Dominance Test is >50%
3. <u>Agrostis species</u>	20%	Yes	FAC*		3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. <u>Plantago lanceolata</u>	5%	No	FACU		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. <u>Taraxacum officinale</u>	5%	No	FACU		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. <u>Trifolium repens</u>	3%	No	FAC		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
103% = Total Cover					
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 \*Assumed FAC.

<b>SOIL</b>	<b>Sampling Point:</b> 5
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth (inches)	Matrix		Redox Features			Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			
0-9	10YR 3/2	95	7.5YR 4/6	5	C	M	SiL	
9-16	10YR 4/1	90	7.5YR 4/6	10	C	M	SiCL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b>	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)  <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b>	<b>Hydric Soil Present?</b>
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

**Remarks:**  
 Redox appears relict.

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (2 or more required)</b> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

<b>Field Observations:</b>			<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): <u>&gt;16"</u>	
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): <u>&gt;16"</u>	

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
 Plot left open approximately 1 hour. Soils dry throughout. No free water or saturation observed within surface 12-inches during a February 16, 2021 initial site visit either. Does not meet problematic wetland hydrology indicators.

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 6  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361060 Long: -122.823370 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>	
1. _____	_____	_____	_____	FAC species <u>94</u> x 3 = <u>282</u>	
2. _____	_____	_____	_____	FACU species <u>4</u> x 4 = <u>16</u>	
3. _____	_____	_____	_____	UPL species <u>2</u> x 5 = <u>10</u>	
4. _____	_____	_____	_____	Column Totals: <u>100</u> (A) <u>308</u> (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.08</u>	
0% = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>	
Herb Stratum (Plot Size: 5' r or _____)					1 - Rapid Test for Hydrophytic Vegetation
1. <u>Poa species</u>	<u>40%</u>	<u>Yes</u>	<u>FAC*</u>		<u>X</u> 2 - Dominance Test is >50%
2. <u>Alopecurus pratensis</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Agrostis species</u>	<u>20%</u>	<u>Yes</u>	<u>FAC*</u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Geranium molle</u>	<u>2%</u>	<u>No</u>	<u>NOL</u>		5 - Wetland Non-Vascular Plants <sup>1</sup>
5. <u>Plantago lanceolata</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
6. <u>Trifolium repens</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
7. <u>Rumex crispus</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>		
8. <u>Prunella vulgaris</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
100% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 \*Assumed FAC.

<b>SOIL</b>	<b>Sampling Point:</b> 6
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 3/2	95	7.5YR 4/6	5	C	M	SiL	
8-16	10YR 4/1	98	7.5YR 4/6	2	C	M	SiCL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)  <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (2 or more required)</b> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes _____ No <input checked="" type="checkbox"/> Depth (inches): >16" Saturation Present?        Yes _____ No <input checked="" type="checkbox"/> Depth (inches): >16" (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____      No <input checked="" type="checkbox"/>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
 Plot left open approximately 1 hour. Soils dry throughout. No free water or saturation within 12-inches during a February 16, 2021 site visit either. Does not meet problematic wetland hydrology indicators.



**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 7  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361133 Long: -122.823122 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Acer macrophyllum</u>	<u>30%</u>	<u>Yes</u>	<u>FACU</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____		
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)	
30% = Total Cover					
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>					
1. <u>Rosa nutkana</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>	<b>Prevalence Index worksheet:</b>	
2. <u>Corylus cornuta</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>		Total % Cover of: _____ Multiply by: _____
3. <u>Rubus armeniacus</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	OBL species <u>0</u> x 1 = <u>0</u>	
4. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>	
5. _____	_____	_____	_____	FAC species <u>126</u> x 3 = <u>378</u>	
30% = Total Cover				FACU species <u>10</u> x 4 = <u>40</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>					
1. <u>Poa species</u>	<u>95%</u>	<u>Yes</u>	<u>FAC*</u>	UPL species <u>0</u> x 5 = <u>0</u>	
2. <u>Taraxacum officinale</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	Column Totals: <u>136</u> (A) <u>418</u> (B)	
3. <u>Rumex crispus</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>	Prevalence Index = B/A = <u>3.07</u>	
4. <u>Ranunculus repens</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b>	
5. _____	_____	_____	_____		1 - Rapid Test for Hydrophytic Vegetation
6. _____	_____	_____	_____		X 2 - Dominance Test is >50%
7. _____	_____	_____	_____		3 - Prevalence Index is ≤3.0 <sup>1</sup>
8. _____	_____	_____	_____		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants <sup>1</sup>
10. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
11. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.	
106% = Total Cover				<b>Hydrophytic Vegetation Present?</b>	
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. _____	_____	_____	_____	Yes <u>X</u> No _____	
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>					

**Remarks:**

<b>SOIL</b>	<b>Sampling Point:</b> 7
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/2	100					SiL	
10-16	10YR 3/2	97	7.5YR 4/4	3	C	M	SiL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b>	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes _____      No <u>  X  </u>
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**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

<b>Field Observations:</b>	<b>Wetland Hydrology Present?</b> Yes _____      No <u>  X  </u>
Surface Water Present?      Yes _____      No <u>  X  </u> Depth (inches): _____	
Water Table Present?        Yes _____      No <u>  X  </u> Depth (inches): <u>  &gt;16"  </u>	
Saturation Present?        Yes _____      No <u>  X  </u> Depth (inches): <u>  &gt;16"  </u> (includes capillary fringe)	

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
 Plot left open approximately 1 hour. Soils dry throughout.

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 8  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Footslope/Floodplain Local relief (concave, convex, none): Concave Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360765 Long: -122.823791 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**  
 Plot is located within Wetland B on the west side of SW Tonquin Road.

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>100</u> x 2 = <u>200</u>
1. _____	_____	_____	_____	FAC species <u>0</u> x 3 = <u>0</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>100</u> (A) <u>200</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.00</u>
0% = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Phalaris arundinacea</u>	<u>100%</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

**Remarks:**  
 Bareground covered by leaf litter.

<b>SOIL</b>	<b>Sampling Point:</b> 8
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	2.5Y 3/1	90	7.5YR 4/4	10	C	M/PL	SiCL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<p><b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b></p> <p> <input type="checkbox"/> Histosol (A1)                      <input type="checkbox"/> Sandy Redox (S5)  <input type="checkbox"/> Histic Epipedon (A2)              <input type="checkbox"/> Stripped Matrix (S6)  <input type="checkbox"/> Black Histic (A3)                    <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)  <input type="checkbox"/> Hydrogen Sulfide (A4)              <input type="checkbox"/> Loamy Gleyed Matrix (F2)  <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3)  <input type="checkbox"/> Thick Dark Surface (A12)           <input checked="" type="checkbox"/> Redox Dark Surface (F6)  <input type="checkbox"/> Sandy Mucky Mineral (S1)          <input type="checkbox"/> Depleted Dark Surface (F7)  <input type="checkbox"/> Sandy Gleyed Matrix (S4)          <input type="checkbox"/> Redox Depressions (F8)         </p>	<p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <p> <input type="checkbox"/> 2 cm Muck (A10)  <input type="checkbox"/> Red Parent Material (TF2)  <input type="checkbox"/> Very Shallow Dark Surface (TF12)  <input type="checkbox"/> Other (Explain in Remarks)         </p> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p><b>Restrictive Layer (if present):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p><b>Hydric Soil Present?</b>              Yes <input checked="" type="checkbox"/>              No _____</p>
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**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p> <input type="checkbox"/> Surface Water (A1)                      <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  <input checked="" type="checkbox"/> High Water Table (A2)                      <input type="checkbox"/> Salt Crust (B11)  <input checked="" type="checkbox"/> Saturation (A3)                              <input type="checkbox"/> Aquatic Invertebrates (B13)  <input type="checkbox"/> Water Marks (B1)                              <input type="checkbox"/> Hydrogen Sulfide Odor (C1)  <input type="checkbox"/> Sediment Deposits (B2)                      <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)  <input type="checkbox"/> Drift Deposits (B3)                              <input type="checkbox"/> Presence of Reduced Iron (C4)  <input type="checkbox"/> Algal Mat or Crust (B4)                              <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)  <input type="checkbox"/> Iron Deposits (B5)                              <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)  <input type="checkbox"/> Surface Soil Cracks (B6)                      <input type="checkbox"/> Other (Explain in Remarks)         </p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  <input type="checkbox"/> Drainage Patterns (B10)  <input type="checkbox"/> Dry-Season Water Table (C2)  <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  <input type="checkbox"/> Geomorphic Position (D2)  <input type="checkbox"/> Shallow Aquitard (D3)  <input type="checkbox"/> FAC-Neutral Test (D5)  <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)  <input type="checkbox"/> Frost-Heave Hummocks (D7)         </p>

<p><b>Field Observations:</b></p> <p>Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/>              Depth (inches): _____</p> <p>Water Table Present?      Yes <input checked="" type="checkbox"/>              No _____              Depth (inches): 8"</p> <p>Saturation Present?        Yes <input checked="" type="checkbox"/>              No _____              Depth (inches): Surface          (includes capillary fringe)</p>	<p><b>Wetland Hydrology Present?</b>              Yes <input checked="" type="checkbox"/>              No _____</p>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 10  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361319 Long: -122.822837 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. <u>Acer macrophyllum</u>	<u>30%</u>	<u>Yes</u>	<u>FACU</u>	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
30% = Total Cover				
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				<b>Prevalence Index worksheet:</b>
1. <u>Symphoricarpos albus</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Mahonia aquifolium</u>	<u>15%</u>	<u>Yes</u>	<u>FACU</u>	OBL species <u>0</u> x 1 = <u>0</u>
3. <u>Rubus armeniacus</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	FACW species <u>0</u> x 2 = <u>0</u>
4. <u>Oemleria cerasiformis</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	FAC species <u>10</u> x 3 = <u>30</u>
5. _____	_____	_____	_____	FACU species <u>40</u> x 4 = <u>160</u>
45% = Total Cover				UPL species <u>80</u> x 5 = <u>400</u>
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				Column Totals: <u>130</u> (A) <u>590</u> (B)
1. <u>Geranium molle</u>	<u>80%</u>	<u>Yes</u>	<u>NOL</u>	Prevalence Index = B/A = <u>4.54</u>
2. <u>Poa species</u>	<u>5%</u>	<u>No</u>	<u>FAC*</u>	<b>Hydrophytic Vegetation Indicators:</b>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	2 - Dominance Test is >50%
5. _____	_____	_____	_____	3 - Prevalence Index is ≤3.0 <sup>1</sup>
6. _____	_____	_____	_____	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____	5 - Wetland Non-Vascular Plants <sup>1</sup>
8. _____	_____	_____	_____	Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
9. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
85% = Total Cover				
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum	<u>15%</u>			

**Remarks:**  
 \*Assumed FAC.

<b>SOIL</b>	<b>Sampling Point:</b> 10
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-9	10YR 3/2	100					SiL	
9-16	10YR 3/3	100					SiL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)  <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	<table style="width:100%"> <tr> <td style="text-align:center"><b>Hydric Soil Present?</b></td> <td style="text-align:center">Yes _____</td> <td style="text-align:center">No <b>X</b> _____</td> </tr> </table>	<b>Hydric Soil Present?</b>	Yes _____	No <b>X</b> _____
<b>Hydric Soil Present?</b>	Yes _____	No <b>X</b> _____		

**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one required; check all that apply)</b>	<b>Secondary Indicators (2 or more required)</b>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)	

<b>Field Observations:</b>	<b>Wetland Hydrology Present?</b>
Surface Water Present? Yes _____ No <b>X</b> _____	Yes _____ No <b>X</b> _____
Water Table Present? Yes _____ No <b>X</b> _____	
Saturation Present? (includes capillary fringe) Yes _____ No <b>X</b> _____	
Depth (inches): _____	
Depth (inches): >16" _____	
Depth (inches): >16" _____	

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 11  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361121 Long: -122.823001 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Acer macrophyllum</u>	<u>40%</u>	<u>Yes</u>	<u>FACU</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
40% = Total Cover					Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Crataegus monogyna</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>	FACW species <u>8</u> x 2 = <u>16</u>	
2. <u>Rubus armeniacus</u>	<u>15%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u>48</u> x 3 = <u>144</u>	
3. <u>Oemleria cerasiformis</u>	<u>10%</u>	<u>No</u>	<u>FACU</u>	FACU species <u>30</u> x 4 = <u>120</u>	
4. <u>Physocarpus capitatus</u>	<u>3%</u>	<u>No</u>	<u>FACW</u>	UPL species <u>0</u> x 5 = <u>0</u>	
5. _____	_____	_____	_____	Column Totals: <u>86</u> (A) <u>280</u> (B)	
58% = Total Cover				Prevalence Index = B/A = <u>3.26</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Tellima grandiflora</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>		1 - Rapid Test for Hydrophytic Vegetation
2. <u>Equisetum hyemale</u>	<u>5%</u>	<u>Yes</u>	<u>FACW</u>		2 - Dominance Test is >50%
3. <u>Urtica dioica</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. _____	_____	_____	_____		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. _____	_____	_____	_____		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
18% = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>	
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. <u>Hedera helix</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>		
2. _____	_____	_____	_____		
10% = Total Cover					
% Bare Ground in Herb Stratum <u>82%</u>					

**Remarks:**

<b>SOIL</b>	<b>Sampling Point:</b> 11
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 3/2	100					SIL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<p><b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b></p> <p><input type="checkbox"/> Histosol (A1)                      <input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Histic Epipedon (A2)              <input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Black Histic (A3)                    <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)              <input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)          <input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)          <input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)          <input type="checkbox"/> Redox Depressions (F8)</p>	<p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p><b>Restrictive Layer (if present):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p><b>Hydric Soil Present?</b></p> <p>Yes _____ No <b>X</b> _____</p>
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**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)                      <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> High Water Table (A2)                      <input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Saturation (A3)                              <input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Water Marks (B1)                            <input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)                    <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Drift Deposits (B3)                        <input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)                      <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Iron Deposits (B5)                          <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)                    <input type="checkbox"/> Other (Explain in Remarks)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p><b>Field Observations:</b></p> <p>Surface Water Present?    Yes _____ No <b>X</b> _____    Depth (inches): _____</p> <p>Water Table Present?      Yes <b>X</b> _____ No _____      Depth (inches): <b>16"</b></p> <p>Saturation Present?        Yes <b>X</b> _____ No _____        Depth (inches): <b>15"</b></p> <p>(includes capillary fringe)</p>	<p><b>Wetland Hydrology Present?</b></p> <p>Yes _____ No <b>X</b> _____</p>
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**



**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 12  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.361094 Long: -122.823047 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				FACW species <u>0</u> x 2 = <u>0</u>
1. <u>Rubus armeniacus</u>	<u>15%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u>33</u> x 3 = <u>99</u>
2. <u>Rosa nutkana</u>	<u>5%</u>	<u>Yes</u>	<u>FAC</u>	FACU species <u>0</u> x 4 = <u>0</u>
3. <u>Crataegus monogyna</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	UPL species <u>5</u> x 5 = <u>25</u>
4. _____	_____	_____	_____	Column Totals: <u>38</u> (A) <u>124</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.26</u>
22% = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				
1. <u>Ranunculus repens</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Geranium molle</u>	<u>5%</u>	<u>Yes</u>	<u>NOL</u>	
3. <u>Rumex crispus</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
16% = Total Cover				
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>84%</u>				

**Remarks:**

<b>SOIL</b>	<b>Sampling Point:</b> 12
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/2	98	7.5YR 3/3	2	C	M	SiL	
8-16	10YR 3/2	90	7.5YR 3/4	10	C	M	SiL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Redox (S5)                         |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Stripped Matrix (S6)                     |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3)                     |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input checked="" type="checkbox"/> Redox Dark Surface (F6)       |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Depleted Dark Surface (F7)               |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)          | <input type="checkbox"/> Redox Depressions (F8)                   |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**      Yes       No \_\_\_\_\_

**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) |
| <input checked="" type="checkbox"/> High Water Table (A2)          | <input type="checkbox"/> Salt Crust (B11)   |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                              |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                               |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)            |
| <input type="checkbox"/> Drift Deposits (B3)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)                            |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)               |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)                  |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Other (Explain in Remarks)                               |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) |   |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   |   |

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) (LRR A)
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 10"
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 7"

**Wetland Hydrology Present?**      Yes       No \_\_\_\_\_

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 13  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360908 Long: -122.823274 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>	
1. _____	_____	_____	_____	FAC species <u>95</u> x 3 = <u>285</u>	
2. _____	_____	_____	_____	FACU species <u>2</u> x 4 = <u>8</u>	
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
4. _____	_____	_____	_____	Column Totals: <u>97</u> (A) <u>293</u> (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.02</u>	
0% = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>	
Herb Stratum (Plot Size: 5' r or _____)					1 - Rapid Test for Hydrophytic Vegetation
1. <u>Alopecurus pratensis</u>	<u>40%</u>	<u>Yes</u>	<u>FAC</u>		<u>X</u> 2 - Dominance Test is >50%
2. <u>Agrostis species</u>	<u>20%</u>	<u>Yes</u>	<u>FAC*</u>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Ranunculus repens</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Schedonorus arundinaceus</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>		5 - Wetland Non-Vascular Plants <sup>1</sup>
5. <u>Rumex crispus</u>	<u>3%</u>	<u>No</u>	<u>FAC</u>		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
6. <u>Trifolium repens</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
7. <u>Daucus carota</u>	<u>1%</u>	<u>No</u>	<u>FACU</u>		
8. <u>Taraxacum officinale</u>	<u>1%</u>	<u>No</u>	<u>FACU</u>		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
97% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>3%</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 \*Assumed FAC.

<b>SOIL</b>	<b>Sampling Point:</b> 13
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/2	95	7.5YR 3/3	5	C	M	SiL	
10-16	10YR 4/1	95	7.5YR 4/6	5	C	M	SiCl	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b>	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)  <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No _____
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**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No _____                    Depth (inches): 8" Saturation Present?        Yes <input checked="" type="checkbox"/> No _____                    Depth (inches): Surface (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
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**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region**

Project/Site: Oregon Street Business Park City/County: Sherwood / Washington Sampling Date: 3/8/2021  
 Applicant/Owner: Oregon Street Business Park, LLC State: OR Sampling Point: 14  
 Investigator(s): Stacey Reed, PWS and Sonya Templeton Section, Township, Range: Sec. 28, T.2S., R.1W., W.M.  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <3%  
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.360956 Long: -122.823328 Datum: \_\_\_\_\_  
 Soil Map Unit Name: Briedwell stony silt loam, (Unit 5B), 0% to 7% slopes; Non-hydric NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

**Precipitation:**  
 According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.

**Remarks:**

**VEGETATION**

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83%</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
0% = Total Cover					Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot Size: 10' r or _____)</b>				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Crataegus monogyna</u>	15%	Yes	FAC	FACW species <u>0</u> x 2 = <u>0</u>	
2. <u>Rosa nutkana</u>	10%	Yes	FAC	FAC species <u>103</u> x 3 = <u>309</u>	
3. _____	_____	_____	_____	FACU species <u>23</u> x 4 = <u>92</u>	
4. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
5. _____	_____	_____	_____	Column Totals: <u>126</u> (A) <u>401</u> (B)	
25% = Total Cover				Prevalence Index = B/A = <u>3.18</u>	
<b>Herb Stratum (Plot Size: 5' r or _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Schedonorus arundinaceus</u>	30%	Yes	FAC		1 - Rapid Test for Hydrophytic Vegetation
2. <u>Agrostis species</u>	20%	Yes	FAC*		X 2 - Dominance Test is >50%
3. <u>Poa species</u>	20%	Yes	FAC*		3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. <u>Hypochaeris radicata</u>	10%	Yes	FACU		4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. <u>Taraxacum officinale</u>	5%	No	FACU		5 - Wetland Non-Vascular Plants <sup>1</sup>
6. <u>Ranunculus repens</u>	5%	No	FAC		Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
7. <u>Leucanthemum vulgare</u>	5%	No	FACU		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
8. <u>Trifolium repens</u>	3%	No	FAC		
9. <u>Daucus carota</u>	3%	No	FACU		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
101% = Total Cover					
<b>Woody Vine Stratum (Plot Size: 10' r or _____)</b>					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	

**Remarks:**  
 Assumed FAC.

<b>SOIL</b>	<b>Sampling Point:</b> 14
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**Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/2	98	7.5YR 3/4	2	C	M	SiL	
12-16	10YR 4/1	99	7.5YR 4/6	1	C	M	SiL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.  
<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</b>	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if present):</b>	<b>Hydric Soil Present?</b>
Type: _____	Yes _____ No <b>X</b>
Depth (inches): _____	

**Remarks:**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
<b>Primary Indicators (minimum of one required; check all that apply)</b>	<b>Secondary Indicators (2 or more required)</b>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>
Surface Water Present?	Yes _____ No <b>X</b>	Yes _____ No <b>X</b>
Water Table Present?	Yes _____ No <b>X</b>	Yes _____ No <b>X</b>
Saturation Present? (includes capillary fringe)	Yes <b>X</b> No _____	Yes _____ No <b>X</b>
	Depth (inches): _____	
	Depth (inches): <u>&gt;16"</u>	
	Depth (inches): <u>16"</u>	

**Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:**

**Remarks:**  
 Plot left open approximately 1 hour. Saturation at bottom of pit, no free water.

**Appendix E:**  
**Photo Location Map and Site Photographs**

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**Photo A.** View north of wetland Plot 1 with Wetland A boundary and upland Plot 2.



**Photo B.** View southeast of upland Plot 2 and Wetland A boundary.



**Photo C.** View facing south of upland Plot 3 towards Wetland A.



**Photo D.** View north of Wetland A.





**Photo E.** View north of wetland A boundary and wetland Plots 4 and 12 with upland Plots 5 and 7 at a higher elevation than the wetland.



**Photo F.** View facing north from Wetland A towards wetland Plot 13 and upland Plots 6, 5, and 14. Photo shows where wetland was partially filled under WD2000-0488 and slopes gradually higher into the wetland.



**Photo G.** View south from the northwestern corner of the site towards Wetland A. Shows the site slopes gradually towards the wetland and no roadside ditches.



**Photo H.** View northeast of upland field within study area.



**Photo I.** View east of upland Plot 10.



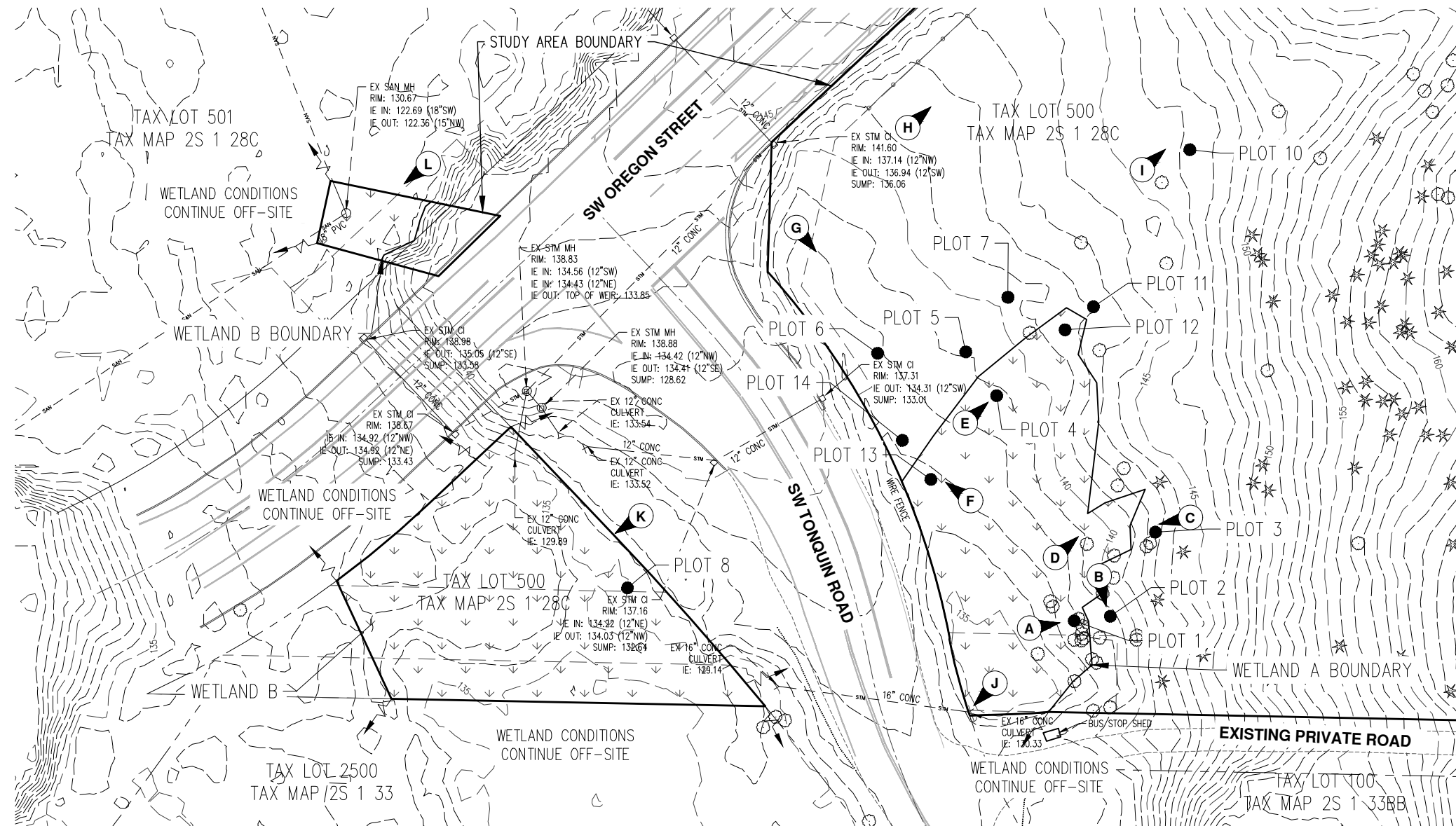
**Photo J.** View of culvert under SW Tonquin Road within Wetland A.



**Photo K.** View facing west of Wetland B on the west side of SW Tonquin Road in area of wetland enhancement and excavation of depression area per DSL RF-24010.

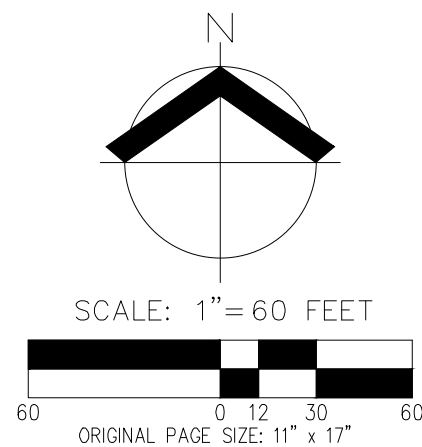


**Photo L.** View facing west of Wetland B on the north side of SW Oregon Street.



**LEGEND**

- TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)
- PSS/PEM/SLOPE WETLAND A: 11,430 SF± (0.26 ACRES±)
- PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)
- PHOTO LOCATIONS & ORIENTATION



WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.

DATE: 04/08/2021

<b>WETLAND DELINEATION</b>		FIGURE
<b>OREGON STREET BUSINESS PARK WETLAND DELINEATION REPORT</b>		<b>5A</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: SKT CHKD: SAR AKS JOB: 7971



---

## **Exhibit F: Ownership Information**

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**First American**

First American Title Insurance Company **Exhibit A**

121 SW Morrison Street, Suite 300  
Portland, OR 97204  
Phn - (503)222-3651 (800)929-3651  
Fax - (877)242-3513

PUBLIC RECORD REPORT  
FOR NEW SUBDIVISION OR LAND PARTITION

THIS REPORT IS ISSUED BY THE ABOVE-NAMED COMPANY ("THE COMPANY") FOR THE EXCLUSIVE USE OF:

AKS Engineering & Forestry LLC  
12965 SW Herman RD STE 100  
Tualatin, OR 97062  
Phone: (503)563-6151  
Fax: (503)563-6152

Date Prepared : March 02, 2020  
Effective Date : 8:00 A.M on February 21, 2020  
Order No. : 7019-3402741  
Subdivision :

The information contained in this report is furnished by First American Title Insurance Company (the "Company") as an information service based on the records and indices maintained by the Company for the county identified below. This report is not title insurance, is not a preliminary title report for title insurance, and is not a commitment for title insurance. No examination has been made of the Company's records, other than as specifically set forth in this report. Liability for any loss arising from errors and/or omissions is limited to the lesser of the fee paid or the actual loss to the Customer, and the Company will have no greater liability by reason of this report. This report is subject to the Definitions, Conditions and Stipulations contained in it.

REPORT

- A. The Land referred to in this report is located in the County of Washington, State of Oregon, and is described as follows:

As fully set forth on Exhibit "A" attached hereto and by this reference made a part hereof.

- B. As of the Effective Date, the tax account and map references pertinent to the Land are as follows:

As fully set forth on Exhibit "A" attached hereto and by this reference made a part hereof.

- C. As of the Effective Date and according to the Public Records, we find title to the land apparently vested in:

As fully set forth on Exhibit "B" attached hereto and by this reference made a part hereof

- D. As of the Effective Date and according to the Public Records, the Land is subject to the following liens and encumbrances, which are not necessarily shown in the order of priority:

As fully set forth on Exhibit "C" attached hereto and by this reference made a part hereof.

EXHIBIT "A"  
(Land Description Map Tax and Account)

THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON.

EXCEPTING THEREFROM THAT TRACT CONVEYED TO JOHN CAMPBELL BY DEED RECORDED IN BOOK 56, PAGE 232, WASHINGTON COUNTY, OREGON, WHICH TRACT IS DESCRIBED AS FOLLOWS:

PART OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON. BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 28, AND THENCE NORTH ON THE WEST SECTION LINE 16.41 CHAINS TO THE CENTER OF THE DITCH; THENCE UP SAID DITCH SOUTH 21° 1/2" EAST 7.92 CHAINS AND SOUTH 26° EAST 10.01 CHAINS TO THE SOUTH LINE OF SAID SECTION 28; THENCE WEST ON SAID LINE 7.32 CHAINS TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM PART OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 0° 08' 14" EAST ALONG THE WEST LINE OF SAID SECTION 28, 241.02 FEET TO THE MOST NORTHERLY POINT OF THAT PARCEL DEEDED BY P.P. BAILEY AND WIFE TO JOHN CAMPBELL, RECORDED BY DEED DATED MARCH 9, 1901, RECORDED MARCH 26, 1901, IN BOOK 56, PAGE 232, OF WASHINGTON COUNTY DEED RECORDS, SAID POINT ALSO BEING IN THE CENTER OF A DITCH DESCRIBED IN SAID BAILEY DEED; THENCE SOUTH 21° 43' 30" EAST FOLLOWING SAID DITCH CENTERLINE 523.00 FEET (522.72 DEED); THENCE CONTINUING ALONG SAID DITCH CENTERLINE SOUTH 26° 13' 30" EAST 530.95 FEET TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 492; THENCE NORTH 45° 19' EAST ALONG SAID COUNTY ROAD RIGHT OF WAY LINE 664.92 FEET; THENCE CONTINUING ALONG SAID COUNTY ROAD RIGHT OF WAY LINE NORTH 38° 09' 44" EAST 723.79 FEET TO THE EAST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE NORTH 0° 08' 44" WEST ALONG SAID EAST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, 218.67 FEET TO A STONE AND THE NORTHEAST CORNER THEREOF; THENCE SOUTH 89° 52' 44" WEST ALONG THE NORTH LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28, 1309.43 FEET TO THE POINT OF BEGINNING.

AND FURTHER EXCEPTING A PART OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON, DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE AT THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 0° 08' 44" EAST ALONG THE WEST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28, 218.67 FEET TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 492; THENCE NORTH 38° 09' 44" EAST ALONG SAID COUNTY ROAD RIGHT OF WAY 281.47 FEET TO THE NORTH LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 89° 08' 16" WEST ALONG THE NORTH LINE OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28, 174.49 FEET TO THE POINT OF BEGINNING.

NOTE: This Legal Description was created prior to January 01, 2008.

Map No.: 2S128C-00500  
Tax Account No.: R1492192 and R547466

EXHIBIT "B"  
(Vesting)

Bruce D. Polley and Karen M. Polley, as tenants by the entirety

EXHIBIT "C"  
 (Liens and Encumbrances)

1. The assessment roll and the tax roll disclose that the within described premises were specially zoned or classified for Farm use. If the land has become or becomes disqualified for such use under the statute, an additional tax or penalty may be imposed.
2. A Potential Additional Tax liability is due in the amount of \$2,896.94 for the tax year 2019-2020 (Affects APN #R1492192)
3. A Potential Additional Tax liability is due in the amount of \$367.19 for the tax year 2019-2020 (Affects APN #R547466)
4. Statutory powers and assessments of Clean Water Services.
5. The rights of the public in and to that portion of the premises herein described lying within the limits of streets, roads and highways.
6. Easement, including terms and provisions contained therein:  
 Recording Information: January 14, 1954 as Book 352, Page 329  
 In Favor of: Portland General Electric Company, a corporation of Oregon  
 For: Electrical lines, telephone lines and appurtenances  
 Affects: Exact location not disclosed
7. Easement, including terms and provisions contained therein:  
 Recording Information: April 07, 1959 as Book 416, Page 167  
 In Favor of: Portland General Electric Company, an Oregon corporation  
 For: Electric power transmission lines  
 Affects: Exact location not disclosed
8. Unrecorded leases or periodic tenancies, if any.

NOTE: Taxes for the year 2019-2020 PAID IN FULL

Tax Amount:	\$3,575.87
Map No.:	2S128C-00500
Property ID:	R1492192
Tax Code No.:	088.13

NOTE: Taxes for the year 2019-2020 PAID IN FULL

Tax Amount:	\$100.74
Map No.:	2S128C-00500
Property ID:	R547466
Tax Code No.:	088.09

NOTE: This Public Record Report does not include a search for Financing Statements filed in the Office of the Secretary of State, or in a county other than the county wherein the premises are situated, and no liability is assumed if a Financing Statement is filed in the Office of the County Clerk covering Crops on the premises wherein the lands are described other than by metes and bounds or under the rectangular survey system or by recorded lot and block.





## DEFINITIONS, CONDITIONS AND STIPULATIONS

1. Definitions. The following terms have the stated meaning when used in this report:
  - (a) "Customer": The person or persons named or shown as the addressee of this report.
  - (b) "Effective Date": The effective date stated in this report.
  - (c) "Land": The land specifically described in this report and improvements affixed thereto which by law constitute real property.
  - (d) "Public Records": Those records which by the laws of the state of Oregon impart constructive notice of matters relating to the Land.
  
2. Liability of the Company.
  - (a) THIS REPORT IS NOT AN INSURED PRODUCT OR SERVICE OR A REPRESENTATION OF THE CONDITION OF TITLE TO REAL PROPERTY. IT IS NOT AN ABSTRACT, LEGAL OPINION, OPINION OF TITLE, TITLE INSURANCE COMMITMENT OR PRELIMINARY REPORT, OR ANY FORM OF TITLE INSURANCE OR GUARANTY. THIS REPORT IS ISSUED EXCLUSIVELY FOR THE BENEFIT OF THE APPLICANT THEREFOR, AND MAY NOT BE USED OR RELIED UPON BY ANY OTHER PERSON. THIS REPORT MAY NOT BE REPRODUCED IN ANY MANNER WITHOUT FIRST AMERICAN'S PRIOR WRITTEN CONSENT. FIRST AMERICAN DOES NOT REPRESENT OR WARRANT THAT THE INFORMATION HEREIN IS COMPLETE OR FREE FROM ERROR, AND THE INFORMATION HEREIN IS PROVIDED WITHOUT ANY WARRANTIES OF ANY KIND, AS-IS, AND WITH ALL FAULTS. AS A MATERIAL PART OF THE CONSIDERATION GIVEN IN EXCHANGE FOR THE ISSUANCE OF THIS REPORT, RECIPIENT AGREES THAT FIRST AMERICAN'S SOLE LIABILITY FOR ANY LOSS OR DAMAGE CAUSED BY AN ERROR OR OMISSION DUE TO INACCURATE INFORMATION OR NEGLIGENCE IN PREPARING THIS REPORT SHALL BE LIMITED TO THE FEE CHARGED FOR THE REPORT. RECIPIENT ACCEPTS THIS REPORT WITH THIS LIMITATION AND AGREES THAT FIRST AMERICAN WOULD NOT HAVE ISSUED THIS REPORT BUT FOR THE LIMITATION OF LIABILITY DESCRIBED ABOVE. FIRST AMERICAN MAKES NO REPRESENTATION OR WARRANTY AS TO THE LEGALITY OR PROPRIETY OF RECIPIENT'S USE OF THE INFORMATION HEREIN.
  - (b) No costs (including, without limitation attorney fees and other expenses) of defense, or prosecution of any action, is afforded to the Customer.
  - (c) In any event, the Company assumes no liability for loss or damage by reason of the following:
    - (1) Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records.
    - (2) Any facts, rights, interests or claims which are not shown by the Public Records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
    - (3) Easements, liens or encumbrances, or claims thereof, which are not shown by the Public Records.
    - (4) Discrepancies, encroachments, shortage in area, conflicts in boundary lines or any other facts which a survey would disclose.
    - (5) (i) Unpatented mining claims; (ii) reservations or exceptions in patents or in Acts authorizing the issuance thereof, (iii) water rights or claims or title to water.
    - (6) Any right, title, interest, estate or easement in land beyond the lines of the area specifically described or referred to in this report, or in abutting streets, roads, avenues, alleys, lanes, ways or waterways.
    - (7) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use or enjoyment on the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the Public Records at the effective date hereof.
    - (8) Any governmental police power not excluded by 2(d)(7) above, except to the extent that notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the Public Records at the effective date hereof.
    - (9) Defects, liens, encumbrances, adverse claims or other matters created, suffered, assumed, agreed to or actually known by the Customer.
  
3. Charge. The charge for this report does not include supplemental reports, updates or other additional services of the Company.



**First American**

**First American Title Insurance Company**

121 SW Morrison Street, Suite 300

Portland, OR 97204

Phone: (503)222-3651 / Fax: (877)242-3513

**PR:** NWEST

**Ofc:** 7019 (1011)

**Final Invoice**

**To:** AKS Engineering & Forestry LLC  
12965 SW Herman RD STE 100  
Tualatin, OR 97062

**Invoice No.:** 1011 - 7019153171

**Date:** 03/02/2020

**Our File No.:** 7019-3402741

**Title Officer:** Dona Lane

**Escrow Officer:**

**Customer ID:** 994563

**Attention:** Michael Kalina

**Your Ref.:**

**Liability Amounts**

**RE: Property:**  
21720 SW Oregon Street, Sherwood, OR 97140

**Buyers:**

**Sellers:** Bruce Polley, Karen Polley

Description of Charge	Invoice Amount
Guarantee: Subdivision/Plat Certificate	\$275.00

**INVOICE TOTAL \$275.00**

**Comments:**

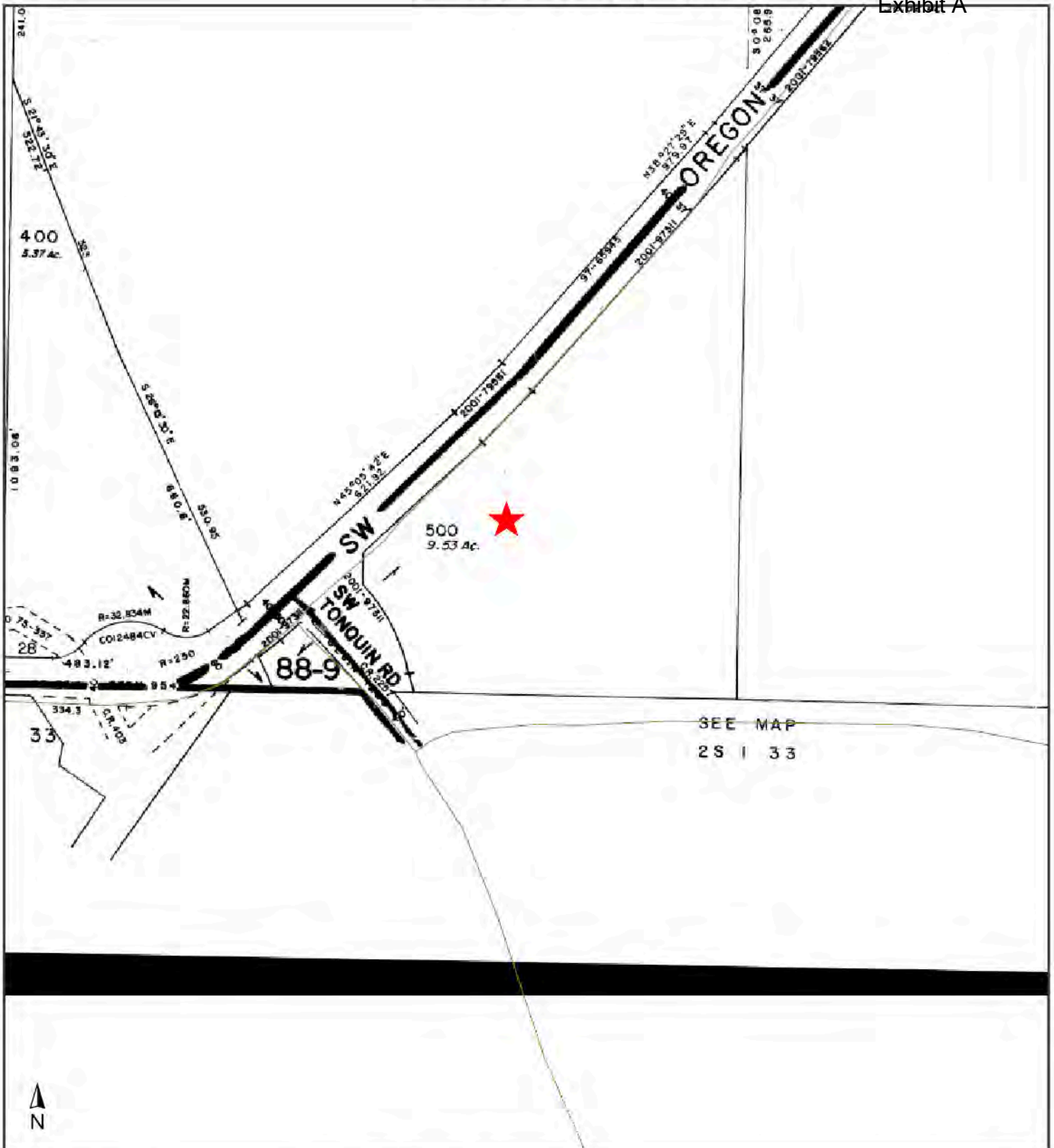
**Thank you for your business!**

*To assure proper credit, please send a copy of this Invoice and Payment to:*

*Attention: Accounts Receivable Department*

*PO Box 31001-2281*

*Pasadena, CA 91110-2281*



First American Title™

**ParcelID: R1492192**  
**21720 SW Oregon St**  
**Sherwood, OR 97140**

This map/plat is being furnished as an aid in locating the herein described land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

7298  
 KNOW ALL MEN BY THESE PRESENTS that John Cereghino & Gladys Cereghino  
 husband and wife  
 (hereinafter called "the Grantors," whether one or more than one); for and in consideration of the payment of the sum of  
ten and no/100ths dollars (\$10.00),  
 the receipt of which is hereby acknowledged, hereby grant, sell and convey to Portland General Electric Company, an Oregon  
 Corporation, (hereinafter called "the Grantee"), its successors and assigns, a perpetual easement and right of way over, under  
 and across the following described parcel of land situated in Washington  
 County, Oregon, being a strip of land 50 feet in width, extending 18 feet on each  
the south side and 32 feet on the north side  
 of a center line more particularly described as follows:

Beginning at a point in the lands of the grantors described in Book 149  
 on Page 215 and Book 158 on Page 191, Dead Records of Washington County, Oregon,  
 and said lands being situated in Section 28, T28, R18, W4, said county, said point  
 being on the west boundary of County Road No. 1260, 18 feet northerly at right  
 angles to the south line of said Section 28; THENCE, from said beginning point,  
 over, under and across the lands of the grantors S 69° 39' 36" W, parallel said  
 section line, a distance of 234.04 feet, more or less, to the easterly boundary  
 of County Road No. 492. The above described centerline is shown-colored red on  
 print of drawing numbered ES 4090 and for purposes of description is attached  
 hereto and made a part hereof.

TO HAVE AND TO HOLD the above described easement and right of way unto the Grantee, its successors and assigns,  
 together with the present and future right to top, limb or fall all growing and dead trees and snags (said trees and snags here-  
 inafter collectively called "danger trees") located on land owned by the Grantors, adjacent to the above described right of  
 way, which danger trees will be determined by the Grantee. The consideration paid for this easement includes the value of all  
 trees on the right of way and all danger trees adjacent to said right of way. The Grantee shall pay the person who is the  
 owner of future danger trees at the date of their cutting (in addition to the purchase price herein agreed to) the market value  
 of said future danger trees at the date of their cutting under authority of the Grantee, such payment to be made within a  
 reasonable period of time after they have been so cut.

Said easement and right of way shall be for the following purposes, namely: the perpetual right to enter upon and to  
 erect, maintain, repair, rebuild, operate and patrol electric power transmission lines, structures and appurtenant signal  
 lines, including the right to erect such poles, towers, transmission structures, wires, cables, guys, supports and appurte-  
 nances as are necessary thereon, together with the present and future right to clear said right of way and keep the same  
 clear of brush, timber, structures and fire hazards, provided that fire hazards shall not be interpreted to include any  
 growing crops other than trees.

It is hereby agreed by the Grantors that, (1) title to all brush, timber, or structures existing upon the right of way and to  
 all present danger trees shall vest immediately in the Grantee; (2) all future danger trees cut pursuant to the terms hereof  
 shall remain the property of the owner thereof on the date of their cutting.

The Grantors hereby acknowledge that the purchase price named herein is accepted by the Grantors as full compensa-  
 tion for all damages incidental to the exercise of any of said easements, loss of growing crops on right of way during con-  
 struction, for guys and anchors extending beyond the right of way and danger trees rights, except payment for any addi-  
 tional danger trees as defined hereinabove which may be cut under authority of the Grantee as provided hereinabove.

If the Grantee, its successors and assigns, shall fail to use said right of way for the purposes above mentioned for a  
 continuous period of five years after construction of said power lines, then and in that event this right of way and easement  
 shall terminate and all rights and privileges granted hereunder shall revert to the Grantors, their heirs and assigns.

The Grantors hereby warrant that they are possessed of a marketable title to the property covered by this easement, and  
 have the right to grant the same.

The Grantors, for themselves and their heirs and assigns, covenant to and with the Grantee, its successors and assigns,  
 that the Grantee, its successors and assigns, shall peaceably enjoy the rights and privileges herein granted.

IN WITNESS WHEREOF, the Grantors have caused this easement to be executed this 3 day of  
April, 1987

John Cereghino (SEAL)  
Gladys Cereghino (SEAL)  
 (SEAL)  
 (SEAL)

BOOK 416 PAGE 167

7798-2

STATE OF OREGON

County of Washington

On this 3rd day of July, 1962, before me, the undersigned, a Notary Public in and for said County and State, personally appeared John Corrahine and Gladys Corrahine

to me known to be the individuals described in and who executed the same freely and voluntarily for the purposes and uses aforementioned.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my notarial seal this, the day and year in this instrument first written.

My commission expires:

My Commission Expires Aug. 1, 1964

*Larry F. Wang*  
Notary Public for Oregon

BOOK 416 PAGE 168

STATE OF OREGON

County of

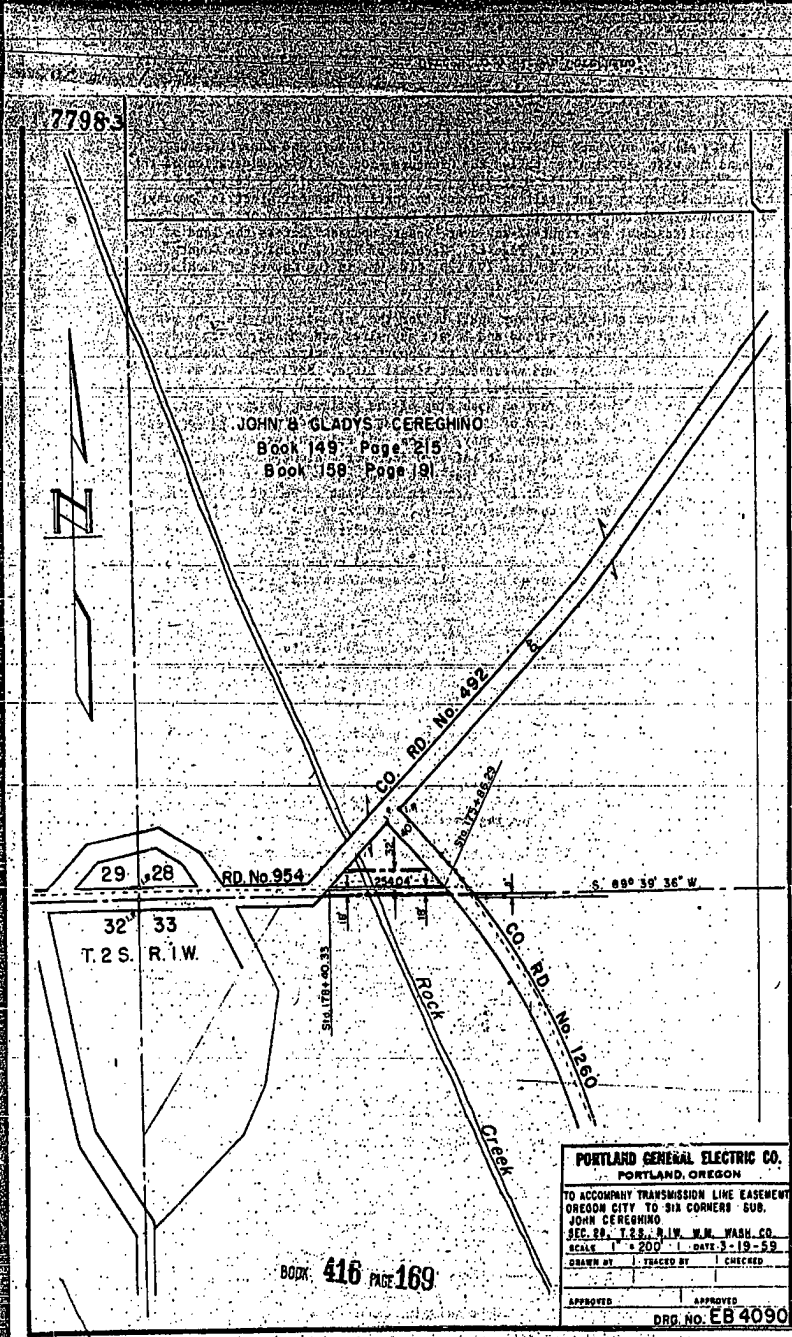
On this day of 19 before me, the undersigned, a Notary Public in and for said County and State, personally appeared

to me known to be the individuals described in and who executed the same freely and voluntarily for the purposes and uses aforementioned.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my notarial seal this, the day and year in this instrument first written.

My commission expires:

Notary Public for Oregon



KNOW ALL MEN BY THESE PRESENTS, That JOHN and GLADYS CERECHINO  
(husband and wife)

Approved:  
General The Manager or Supv. of Distribution

of Washington County, Oregon,  
in consideration of One and no/100 (\$1.00) Dollars,  
and other good and valuable considerations, the receipt of which is hereby acknowledged, hereby grant unto  
PORTLAND GENERAL ELECTRIC COMPANY, a corporation of Oregon, its successors and assigns, an easement  
and/or right-of-way, situated in Washington County, Oregon, of such width not to exceed 10 feet as  
may be reasonably necessary to accomplish the purposes of this easement at such location as may be determined by the  
Grantee, over, under and across the following described real property:

Across the lands of the grantors in Section 28, Township 2  
South, Range 1 West, W.M. as described in Volume 158, Page  
191 of the Washington County Deed Records.

It is understood and agreed that this easement may be used by the Grantee to serve the Grantor, his heirs, succe-  
sors and assigns, and any other customers of the Grantee owning, occupying or possessing property in the vicinity of  
the real property herein described.

Approved as in description:

Signature:

TO HAVE AND TO HOLD the above described easement and right-of-way unto the said Grantee, its successors  
and assigns, together with the right of ingress and egress to and from the above described right-of-way, over and across  
the adjacent land of the Grantor, for the purpose of the erection, maintenance and operation therein, thereon and  
thereover, of electrical lines, telephone lines, together with such poles, wires, guys, and facilities as may be reasonably  
connected therewith or appurtenant thereto; provided, that the Grantee shall have the right to cut and/or trim and  
keep cut and/or trimmed any tree growth upon or adjacent to said right-of-way which may interfere with or menace  
the construction or operation of said lines; provided, also, that the Grantor, his heirs and assigns, shall always  
have the right to reasonably use and enjoy said above described right-of-way for all purposes which may  
not interfere or be inconsistent with the use by the Grantee for the purposes above mentioned; and, provided also, that  
if the Grantor, its successors and assigns, shall fail to use said right-of-way for the purposes above mentioned, for a  
continuous period of one year after construction of said pole line, then and in that event this right-of-way and easement  
shall terminate and all rights and privileges granted hereunder shall revert to the Grantor, his heirs and assigns.

Approved:

The Grantor, for themselves and their heirs and assigns, covenant to and with the Grantee,  
its successors and assigns, that the Grantee, its successors and assigns, shall peacefully enjoy the rights and privileges  
herein granted.

IN WITNESS WHEREOF, the Grantor has caused this easement to be executed this 18th day of  
September, 1953.

Witnesses:

John Cereghino (SEAL)  
Gladys Cereghino (SEAL)  
(SEAL)  
(SEAL)  
(SEAL)

Signature of Portland General Electric



330

STATE OF OREGON,

County of Washington

On this 18th day of September, 1953, before me, the undersigned, a Notary Public

in and for said County and State, personally appeared JOHN and GLADYS CEREGHINO

(husband and wife)

to me known to be the individuals described in and who executed the foregoing conveyance and acknowledged to me that they executed the same freely and voluntarily for the purposes and uses aforementioned.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my notarial seal this, the day and year in this instrument first written.

James T. Palmer, Notary Public for Oregon.

My commission expires

Sept. 20, 1953

STATE OF OREGON,

County of

On this day of 19 before me, the undersigned, a Notary Public

In and for said County and State, personally appeared

Filed for record, 10:10 A.M. B. N. TORRES, CLERK

Washington County, Oregon

03/24/2008 02:58:44 PM

D-DW

Cnt=1 Stn=9 C TOMPKINS

\$15.00 \$5.00 \$11.00 - Total = \$31.00

2008-025922

EXHIBIT A



01230984200800259220030034

I, Richard Hobermicht, Director of Assessment and Taxation and Ex-Officio County Clerk for Washington County, Oregon, do hereby certify that the within instrument of writing was received and recorded in the book of records of said county.

*Richard Hobermicht*  
Richard Hobermicht, Director of Assessment and Taxation, Ex-Officio County Clerk



Exhibit A

NA

WARRANTY DEED



KNOW ALL MEN BY THESE PRESENTS, That

ALLEN J. CHRISTOPHER AND SHIRLEY M. CHRISTOPHER, husband and wife

hereinafter called the grantor, for the consideration hereinafter stated, to grantor paid by

BRUCE D. POLLEY AND KAREN M. POLLEY, husband and wife

hereinafter called the grantee, does hereby grant, bargain, sell and convey unto the grantee and grantee's heirs, successors and assigns, that certain real property, with the tenements, hereditaments and appurtenances thereunto belonging or in any way appertaining, situated in WASHINGTON County, State of Oregon, described as follows, to-wit:

SEE ATTACHED EXHIBIT "A"

(IF SPACE INSUFFICIENT, CONTINUE DESCRIPTION ON REVERSE SIDE)

To Have and to Hold the same unto the grantee and grantee's heirs, successors and assigns forever.

And grantor hereby covenants to and with grantee and grantee's heirs, successors and assigns, that grantor is lawfully seized in fee simple of the above granted premises, free from all encumbrances

and that grantor will warrant and forever defend the premises and every part and parcel thereof against the lawful claims and demands of all persons whomsoever, except those claiming under the above described encumbrances.

The true and actual consideration paid for this transfer, stated in terms of dollars, is \$ 225,000.00

However, the actual consideration consists of or includes other property or value given or promised which is the whole consideration (indicate which). (The sentence between the symbols, if not applicable, should be deleted. See ORS 93.030.)

In construing this deed, where the context so requires, the singular includes the plural and all grammatical changes shall be made so that this deed shall apply equally to corporations and to individuals.

In Witness Whereof, the grantor has executed this instrument this 2nd day of February, 1996; if a corporate grantor, it has caused its name to be signed and its seal, if any, affixed by an officer or other person duly authorized to do so by order of its board of directors.

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930.

Allen J. Christopher

Shirley M. Christopher

STATE OF OREGON, County of Grant ss.

This instrument was acknowledged before me on February 2, 1996, by Allen J. Christopher and Shirley M. Christopher

This instrument was acknowledged before me on , 19 ,

by

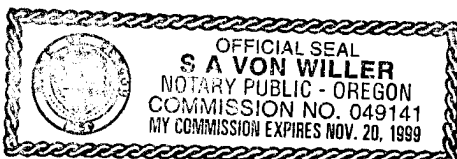
as

of

Ad Coe Miller

Notary Public for Oregon

My commission expires 11-20-99



**EXHIBIT 'A'**

**LEGAL DESCRIPTION**

The Southwest one-quarter of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon.

EXCEPTING THEREFROM that tract conveyed to John Campbell by deed recorded in Book 56, Page 232, Washington County, Oregon, which tract is described as follows:

Part of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon. Beginning at the Southwest corner of said Section 28, and thence North on the West section line 16.41 chains to the center of the ditch; thence up said ditch South 21° 1/2" East 7.92 chains and South 26° East 10.01 chains to the South line of said Section 28; thence West on said line 7.32 chains to the point of beginning.

ALSO EXCEPTING THEREFROM part of the Southwest one-quarter of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon, described as follows:

Beginning at the Northwest corner of the Southwest one-quarter of the Southwest one-quarter of said Section 28; thence South 0° 08' 14" East along the West line of said Section 28, 241.02 feet to the most Northerly point of that Parcel deeded by P.P. Bailey and wife to John Campbell, recorded by deed dated March 9, 1901, recorded March 26, 1901, in Book 56, Page 232, of Washington County Deed Records, said point also being in the center of a ditch described in said Bailey deed; thence South 21° 43' 30" East following said ditch centerline 523.00 feet (522.72 deed); thence continuing along said ditch centerline South 26° 13' 30" East 530.95 feet to the Northerly right of way line of County Road No. 492; thence North 45° 19' East along said County Road right of way line 664.92 feet; thence continuing along said County Road right of way line North 38° 09' 44" East 723.79 feet to the East line of the Southwest one-quarter of the Southwest one-quarter of said Section 28; thence North 0° 08' 44" West along said East line of the Southwest one-quarter of the Southwest one-quarter of Section 28, 218.67 feet to a stone and the Northeast corner thereof; thence South 89° 52' 44" West along the North line of the Southwest one-quarter of the Southwest one-quarter of said Section 28, 1309.43 feet to the point of beginning.

AND FURTHER EXCEPTING a part of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon, described as follows:

Beginning at a stone at the Northwest corner of the Southeast one-quarter of the Southwest one-quarter of said Section 28; thence South 0° 08' 44" East along the West line of the Southeast one-quarter of the Southwest one-quarter of said Section 28, 218.67 feet to the Northerly right of way line of County Road No. 492; thence North 38° 09' 44" East along said County Road right of way 281.47 feet to the North line of the Southeast one-quarter of the Southwest one-quarter of said Section 28; thence South 89° 08' 16" West along the North line of the Southeast one-quarter of said Section 28, 174.49 feet to the point of beginning.



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## **Exhibit G: Traffic Impact Analysis**

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# Oregon Street Business Park

## Transportation Impact Analysis

### Sherwood, Oregon



RENEWS: 6/30/2024

Date:  
May 23, 2022

Prepared for:  
Oregon Street Business Park, LLC

Copy:  
Mimi Doukas, AKS Engineering & Forestry

Prepared by:  
Nick Mesler, EIT  
Daniel Stumpf, PE

Executive Summary	4
Project Description	6
Introduction	6
Location Description	6
Vicinity Roadways	7
Study Intersections	7
Site Trips	9
Trip Generation	9
Trip Distribution	10
Traffic Volumes	12
Existing Conditions	12
Background Conditions	12
Buildout Conditions	12
Safety Analysis	16
Crash History Review	16
Washington County SPIS List	17
Warrant Analysis	18
Preliminary Traffic Signal Warrants	18
Left-Turn Lane Warrants	18
Operational Analysis	19
Performance Standards	19
Washington County	19
City of Sherwood	19
Delay & Capacity Analysis	20
Intersection Mitigation Analysis	21
Proportionate Share Mitigation Assessment	22
Conclusions	23
Appendix	24



## Table of Figures

Figure 1: Vicinity Map	8
Figure 2: Trip Distribution and Assignment	11
Figure 3: Year 2021 Existing Traffic Volumes	13
Figure 4: Year 2023 Background Conditions	14
Figure 5: Year 2023 Buildout Conditions	15

## Table of Tables

Table 1: Vicinity Roadway Descriptions	7
Table 2: Vicinity Intersection Descriptions	7
Table 3: Trip Generation Summary	9
Table 4: Crash Type Summary	16
Table 5: Crash Severity and Rate Summary	17
Table 6: Intersection Capacity Analysis Summary	20
Table 7: Intersection Mitigation Analysis	21
Table 8: Proportional Share Methodology Summary	22



## Executive Summary

1. The Oregon Street Business Park site is located at 21720 SW Oregon Street in what is recently incorporated land in Sherwood, Oregon. The development site is part of the larger Area 48-Tonquin Employment Area (TEA) which is planned to be fully annexed into the City of Sherwood with the buildout of the planning area. The site is currently zoned as Employment Industrial (EI) by the City of Sherwood.
2. The proposed development includes approximately 115,170 square feet of “flex” industrial space on a gross 9.23-acre site. Access to the site will be provided via a planned public roadway (SW Laurel Wood Way) along SW Oregon Street, near the east edge of the site.
3. The proposed development is projected to generate 81 morning peak hour trips, 73 evening peak hour trips, and 572 average weekday trips.
4. No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. No additional safety mitigation is recommended per the crash data analysis.
5. The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:

- SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

6. Left-turn lane warrants are not projected to be met at any of the applicable study intersections upon completion and occupancy of the proposed development during the AM or PM Peak Hour.
7. All study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:
  - SW Oregon Street & SW Tonquin Road – v/c ratio exceeds 0.99 during PM peak hour
  - SW Murdock Road & SW Sunset Boulevard – v/c ratio exceeds 0.85 during PM peak hour
8. It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.

9. It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane. A proportionate share fee to mitigate site trip impacts is calculated at \$45,833.33.



## Project Description

### Introduction

This report describes and evaluates the transportation impacts associated with the proposed development of the Oregon Street Business Park property located at 21720 SW Oregon Street in what is recently incorporated land in Sherwood, Oregon. The development site is part of the larger Area 48-Tonquin Employment Area (TEA) which is planned to be fully annexed into the City of Sherwood with the buildout of the planning area. The site is currently zoned as Employment Industrial (EI) by the City of Sherwood.

The proposed development includes approximately 115,170 square feet of “flex” industrial space on a gross 9.23-acre site. Access to the site will be provided via a planned public roadway (SW Laurel Wood Way) along SW Oregon Street, near the east edge of the site.

Based on correspondence with the City of Sherwood, a safety and capacity/level of service analysis was conducted at the following intersections:

1. SW Oregon Street & SW Tualatin-Sherwood Road
2. SW Oregon Street & SW Tonquin Road
3. SW Oregon Street & SW Murdock Road
4. SW Murdock Road & SW Sunset Boulevard
5. SW Oregon Street & Site Access (SW Laurel Wood Way)

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

### Location Description

The subject site is located at 21720 SW Oregon Street and is surrounded by undeveloped land and industrial land uses. The site is located south of SW Oregon Street and east of SW Tonquin Road, and also includes a small 0.2-acre piece of land west of SW Tonquin Road. There are existing industrial/storage buildings on the property which will be removed upon redevelopment.

### Vicinity Roadways

The proposed development is expected to impact six (6) vicinity roadways. Table 1 provides a description of each vicinity roadway.

Table 1: Vicinity Roadway Descriptions

Street Name	Jurisdiction	Functional Classification	Speed (MPH)	Curbs & Sidewalks	On-Street Parking	Bicycle Facilities
SW Tualatin-Sherwood Road	Washington County	Arterial	45 mph	Both Sides	Prohibited	Class II Bike Lanes
SW Oregon Street	Washington County	Arterial	25/35 mph	Partial Both Sides	Prohibited	Class II Bike Lanes
SW Tonquin Road	Washington County	Arterial	55 mph	None	Prohibited	None
SW Murdock Road	City of Sherwood	Arterial	35 mph	Partial Both Side	Partially Permitted	None
SW Sunset Boulevard	City of Sherwood	Arterial	35 mph	Both Sides	Prohibited	None

### Study Intersections

The proposed development is expected to impact five (5) vicinity intersections of significance. Table 2 below provides a summarized description of each study intersection.

Table 2: Vicinity Intersection Descriptions

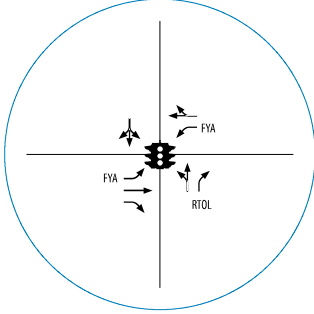
ID	Intersection	Approaches	Traffic Control	Phasing/Stopped Approaches
1	SW Oregon Street & SW Tualatin-Sherwood Road	Four	Signalized	Permissive NB/SB Left FYA EB/WB Left NB Right-Turn Overlap
2	SW Oregon Street & SW Tonquin Road	Three	Stop-Controlled	NB Approach Stop-Controlled
3	SW Oregon Street & SW Murdock Road	Three	Roundabout	Yield-Controlled Approaches
4	SW Murdock Road & SW Sunset Boulevard	Four	Stop-Controlled	All Approaches Stop-Controlled
5	SW Oregon Street & Site Access	Three	Stop-Controlled	NB Approach Stop-Controlled

FYA = Flashing Yellow Arrow

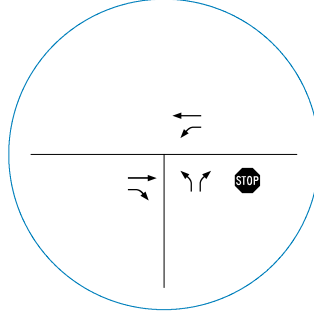
A vicinity map displaying the project site, vicinity streets, and the study intersections with their associated lane configurations and control types is shown in Figure 1.



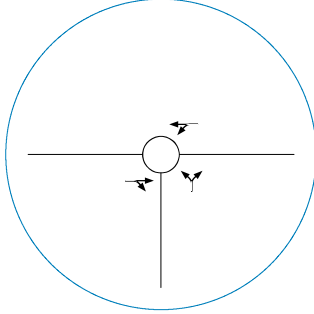
1 SW Oregon Street & SW Tualatin-Sherwood Road



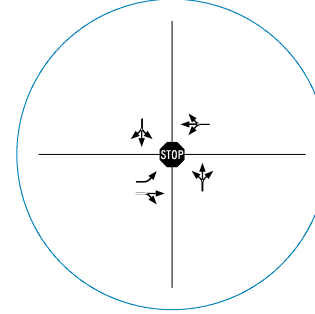
2 SW Oregon Street & SW Tonquin Road



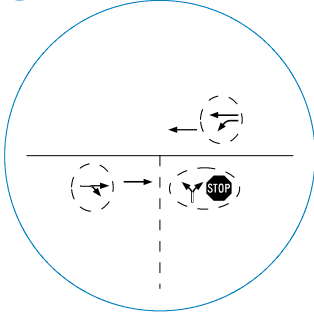
3 SW Oregon Street & SW Murdock Road



4 SW Sunset Boulevard & SW Murdock Road

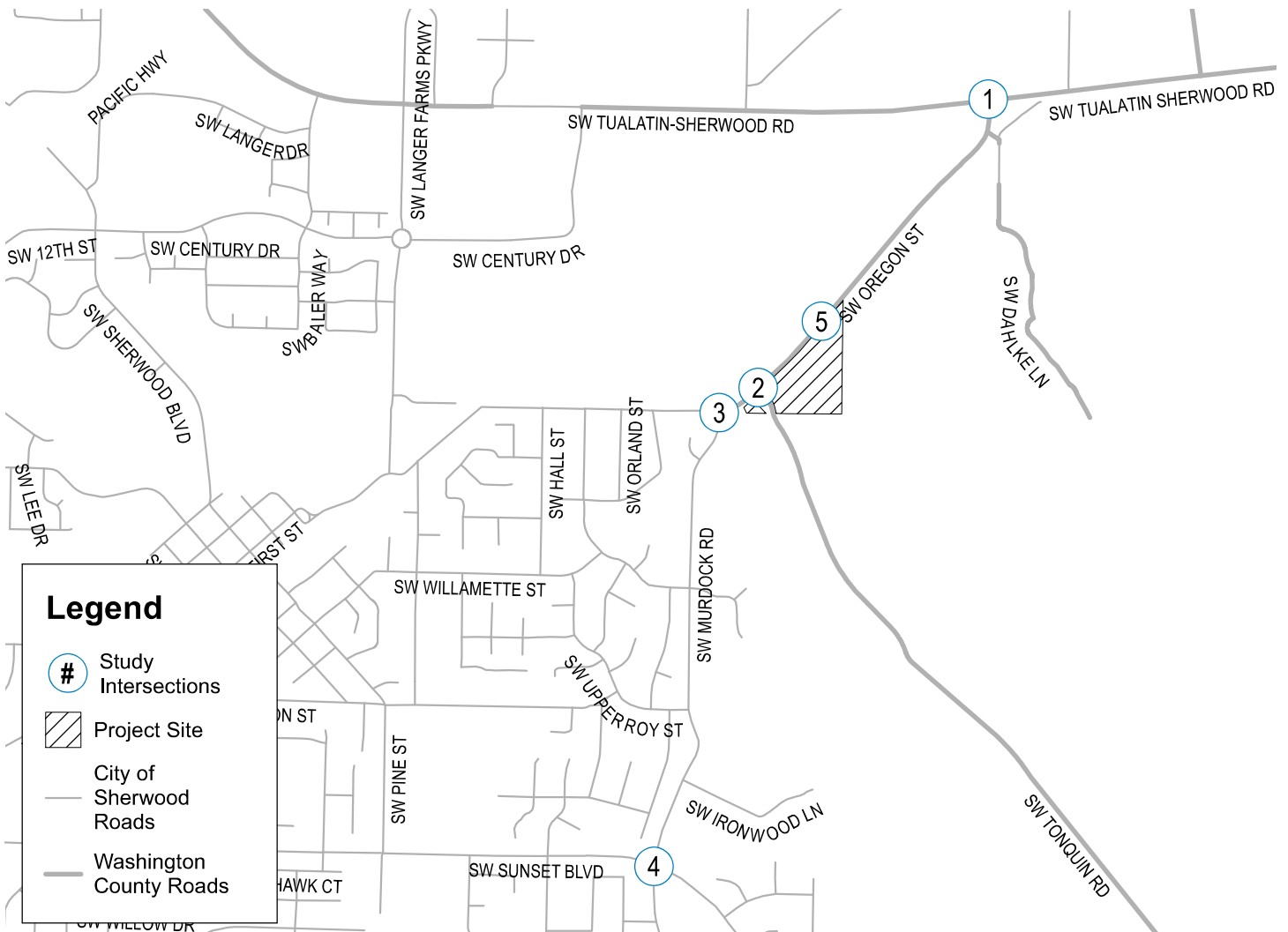


5 SW Oregon Street & Site Access



Legend

- Study Intersection
- Lane Geometry
- Future Year Geometry
- Signalized Intersection
- Stop Sign
- Roundabout
- RTOL - Right-Turn Overlap
- FYA - Flashing Yellow Arrow



**Legend**

- Study Intersections
- Project Site
- City of Sherwood Roads
- Washington County Roads

Vicinity Map



Figure 1  
Oregon Street Business Park  
5/23/2022

## Site Trips

### Trip Generation

The proposed development includes the construction of 115,170 square feet of general light industrial space. No trip credit is being given to the existing industrial building on site.

To estimate the number of trips that are projected to be generated by the proposed development, trip rates from the *Trip Generation Manual*<sup>1</sup> were used. Specifically, data from land use code 110, General Light Industrial, was used to estimate the proposed development's trip generation based on the building square footage. This land use code is consistent with the character of the proposed development and the transportation modelling conducted for the Tonquin Employment Area Concept Plan: Preferred Concept Plan Report (October 2010).

The trip generation calculations show that the proposed development is projected to generate 81 new morning peak hour trips, 73 new evening peak hour trips, and 572 new average weekday trips. The trip generation estimates are summarized in Table 1. Detailed trip generation calculations are included as an attachment to this memorandum.

Note that a larger development size with subsequently higher trip generation was previously analyzed with a prior iteration of this Transportation Impact Analysis, dated June 1, 2021. Since the prior development size of the project was larger than the current development size, utilizing the past trip generation in place of the current trip generation analysis will provide a more conservative assessment of site trip impacts to the transportation system; however, the actual proposed development trip generation was utilized to evaluate the proportionate share fees calculated in the *Proportionate Share Mitigation Assessment* section.

Table 3: Trip Generation Summary

Land Use	ITE Code	Size	Morning Peak Hour			Evening Peak Hour			Weekday
			In	Out	Total	In	Out	Total	Total
<i>Proposed Development (Actual Trip Generation)</i>									
General Light Industrial	110	115,170 SF	71	10	81	9	64	73	572
<i>Prior Analysis Trip Generation</i>									
General Light Industrial	110	120,815 SF	75	10	85	10	66	76	600

<sup>1</sup> Institute of Transportation Engineers (ITE), *Trip Generation Manual*, 10th Edition, 2017.

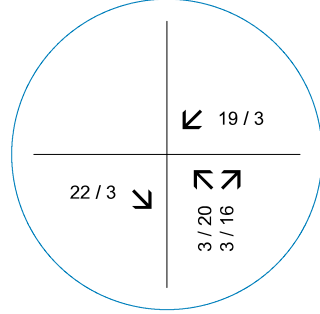
## Trip Distribution

The project trip distribution was developed based on the geographical location of the project, US residential/employment census data (<https://onthemap.ces.census.gov/>), and the existing roadway network facilities. The following trip distribution is projected:

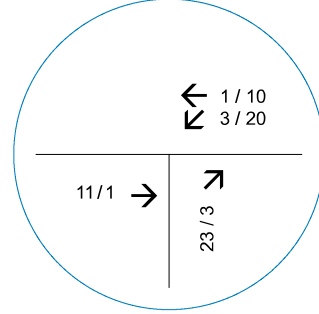
- Approximately 30 percent of trips will travel to/from the west of the project site via SW Tualatin-Sherwood Road, west of SW Oregon Street;
- Approximately 30 percent of trips will travel to/from the south of the project site via SW Tonquin Road;
- Approximately 25 percent of trips will travel to/from the east of the project site via SW Tualatin-Sherwood Road, east of SW Oregon Street; and
- Approximately 15 percent of trips will travel to/from the west of the project site via SW Murdock Road and SW Sunset Boulevard.

The regional trip distribution and traffic assignment for site trips generated by the proposed development are shown in Figure 2.

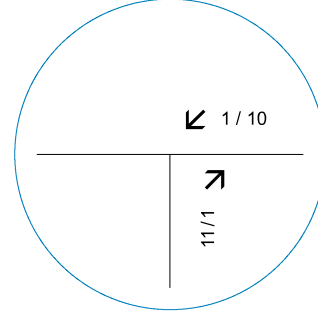
1 SW Oregon Street & Tualatin-Sherwood Road



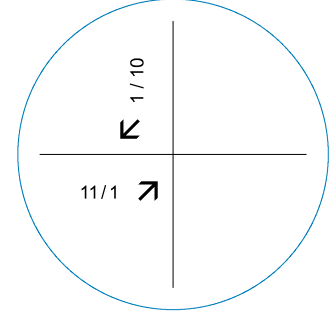
2 SW Oregon Street & SW Tonquin Road



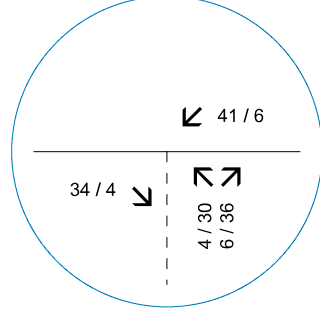
3 SW Oregon Street & SW Murdock Road



4 SW Sunset Boulevard & SW Murdock Road

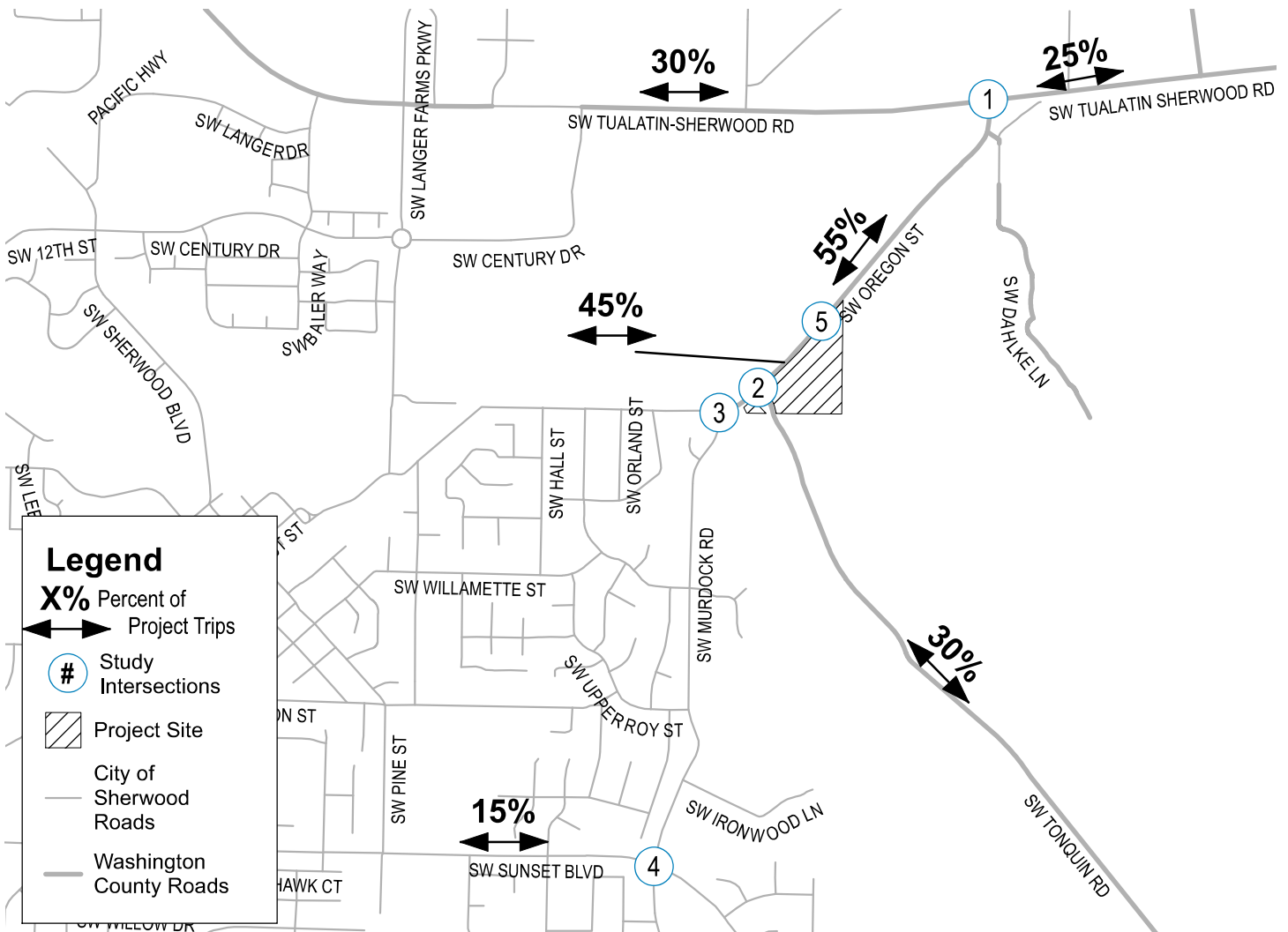


5 SW Oregon Street & Site Access



Legend

- Study Intersection
- Turn Movements
- AM / PM Peak Hour Volumes
- One-Way Roadway



**Legend**

- X%** Percent of Project Trips
- Study Intersections
- Project Site
- City of Sherwood Roads
- Washington County Roads

**Traffic Volumes**  
Trip Distribution & Assignment  
AM & PM Peak Hour



Figure 2  
Oregon Street Business Park  
5/23/2022



## Traffic Volumes

This section describes the study intersection peak hour traffic volumes under existing conditions (year 2021), the anticipated opening day year 2023 background volumes, and the opening day year 2023 buildout volumes.

### Existing Conditions

Since this study is being conducted during the COVID-19 viral pandemic, which has become a public health concern throughout the State of Oregon, collection of current traffic counts is not feasible at this time. Due to the pandemic, traffic volumes have been significantly depressed statewide since March 2020. In order to reflect normal travel conditions, historical traffic count data conducted on Wednesday, February 13, 2019; Tuesday, August 18, 2020; and Wednesday, October 25, 2017 (SW Sunset Boulevard & SW Murdock Boulevard only) were obtained. Upon reviewing the traffic counts, the 2019 data was found to be higher than the 2020 COVID-era counts by as much as 91%. Therefore, the historical 2017 and 2019 traffic counts were utilized for analysis in lieu of the 2020 counts. All traffic counts were conducted from 7:00 to 9:00 AM and from 4:00 to 6:00 PM. Data was used from each intersections' respective morning and evening peak hour.

To adjust for year 2021 baseline conditions, a conservative, compounding annual growth rate of 2.00% was applied to each intersection movement. Thus, to reach the Year 2021 baseline volumes, a 4.04% adjustment was applied to the 2019 count data and a 8.24% adjustment was applied to the 2017 data. Figure 3 displays the baseline existing conditions traffic volumes for the study intersections during the morning and evening peak hour. The 2017 and 2019 count data is provided as an appendix to this report.

### Background Conditions

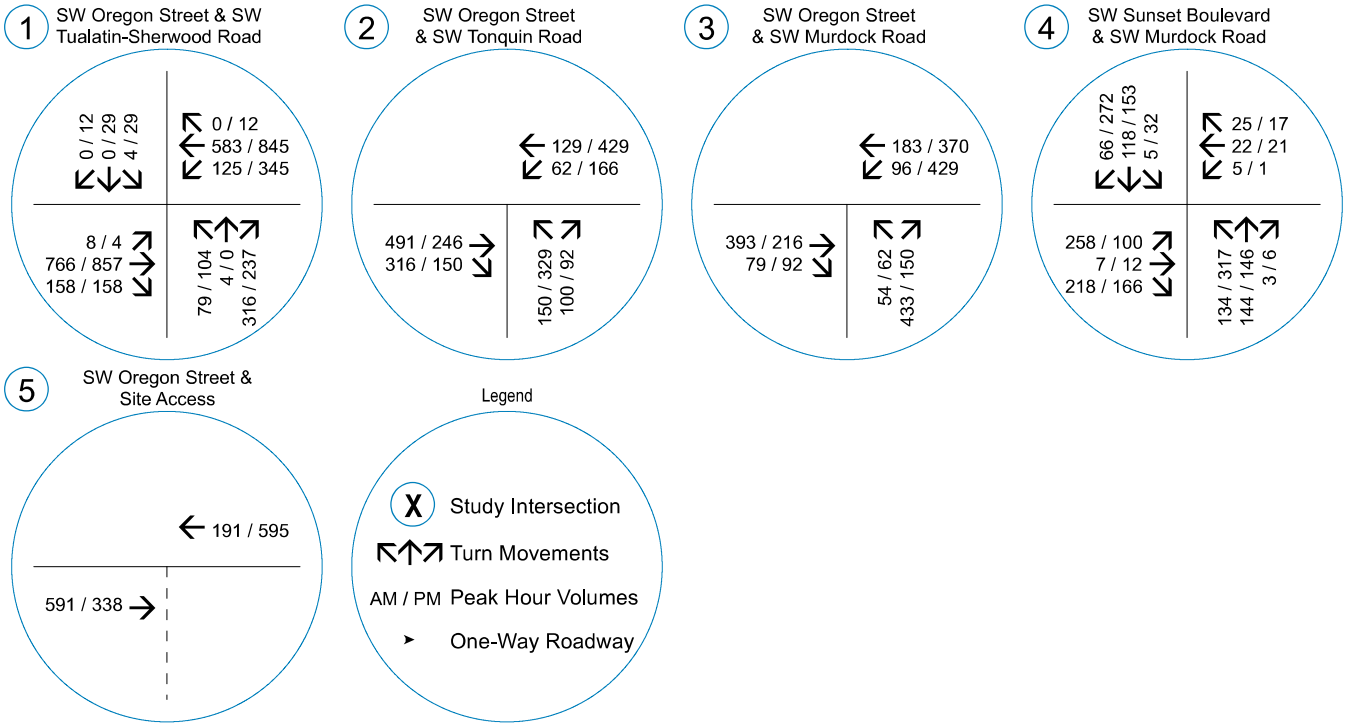
To provide analysis of the impact of the proposed development on the nearby transportation facilities, an estimate of future traffic volumes is required. Consistent with the growth factors identified in the development of the Existing Conditions baseline volume, an annual compounding 2.00% growth rate was applied to the 2021 Existing Conditions baseline volumes for an assumed anticipated year 2023 project opening day.

Figure 4 displays the projected year 2023 background volumes during the morning and evening peak hours.

### Buildout Conditions

Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2023 buildout traffic volumes to obtain the expected 2023 buildout year volumes.

Figure 5 displays the projected year 2023 peak hour background traffic volumes with the additional site trips projected to be generated by the proposed development.



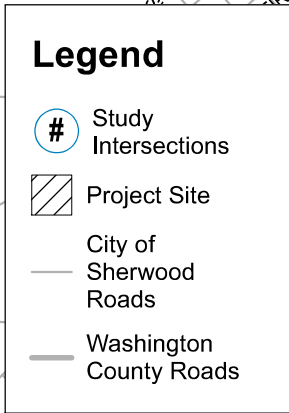
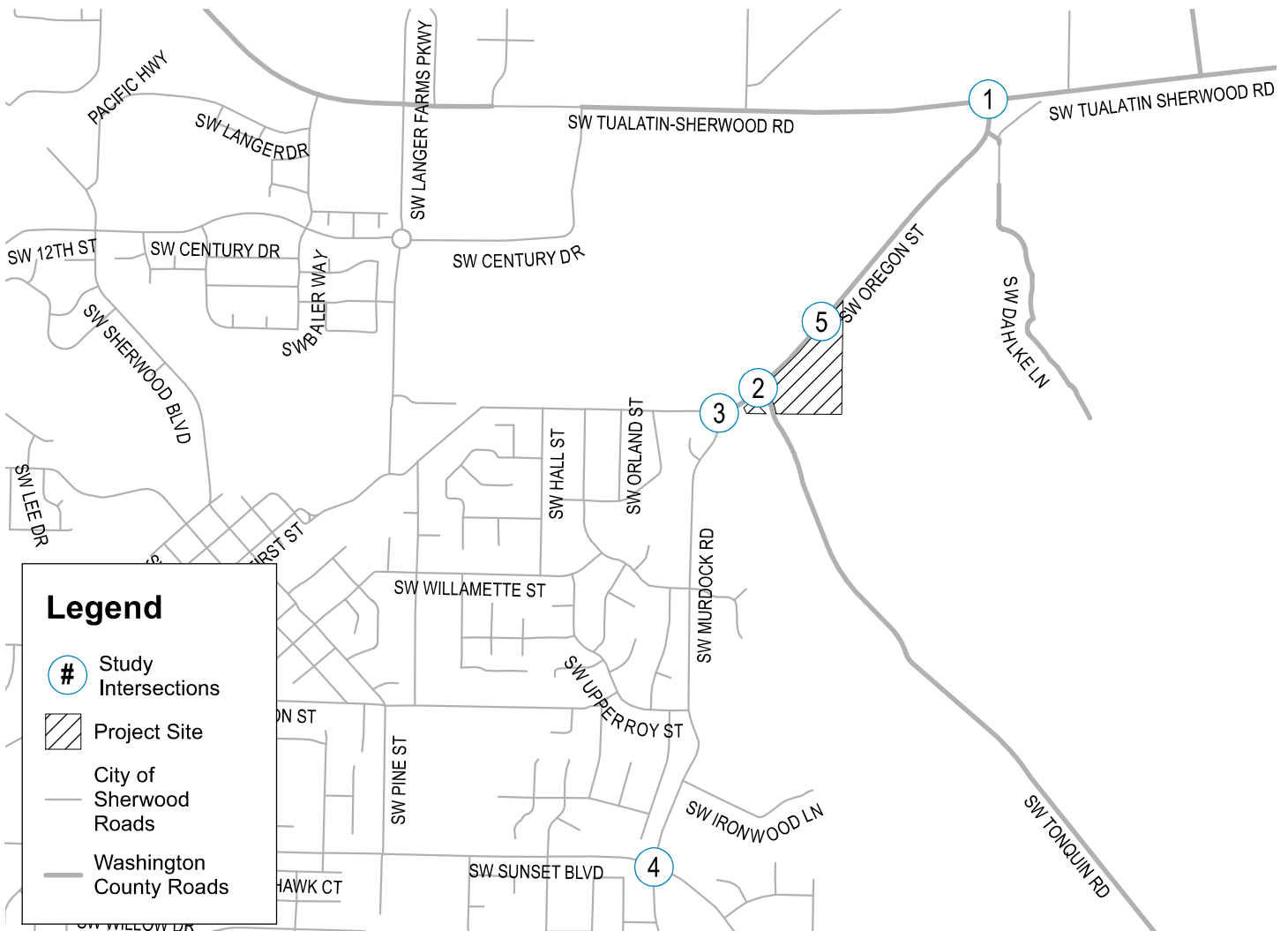
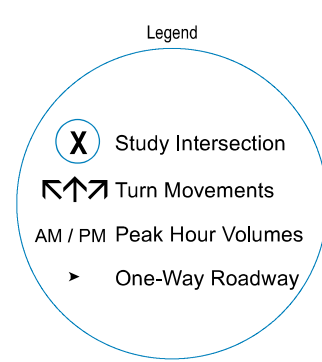
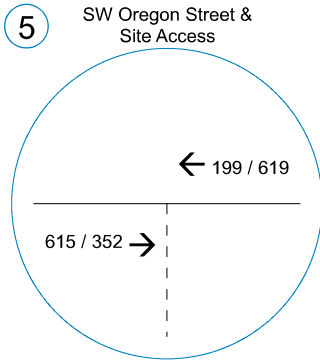
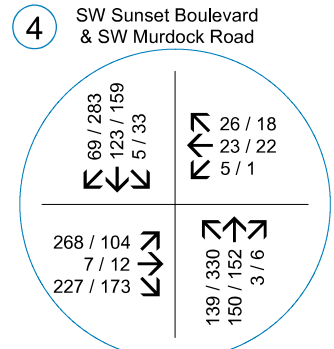
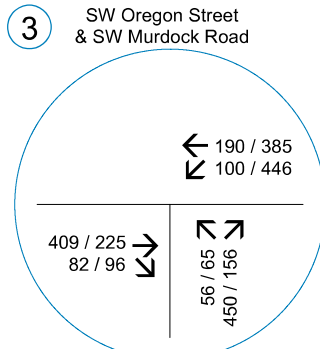
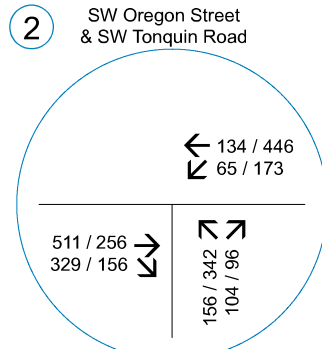
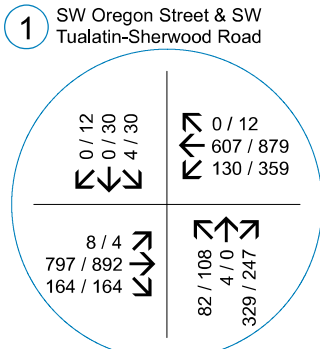
**Legend**

- # Study Intersections
- Project Site
- City of Sherwood Roads
- Washington County Roads

**Traffic Volumes**  
Existing Conditions  
AM & PM Peak Hour



Figure 3  
Oregon Street Business Park  
5/23/2022

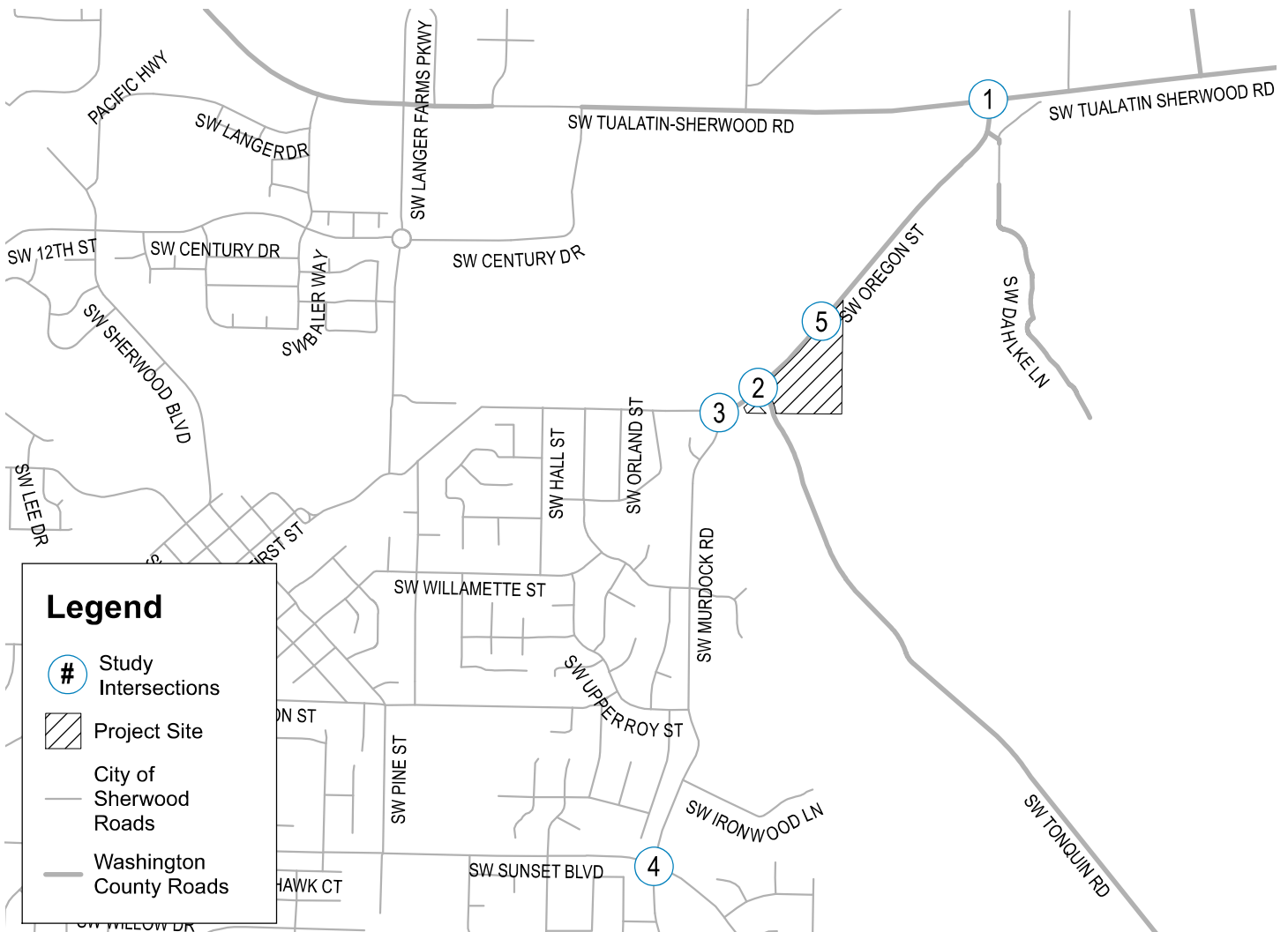
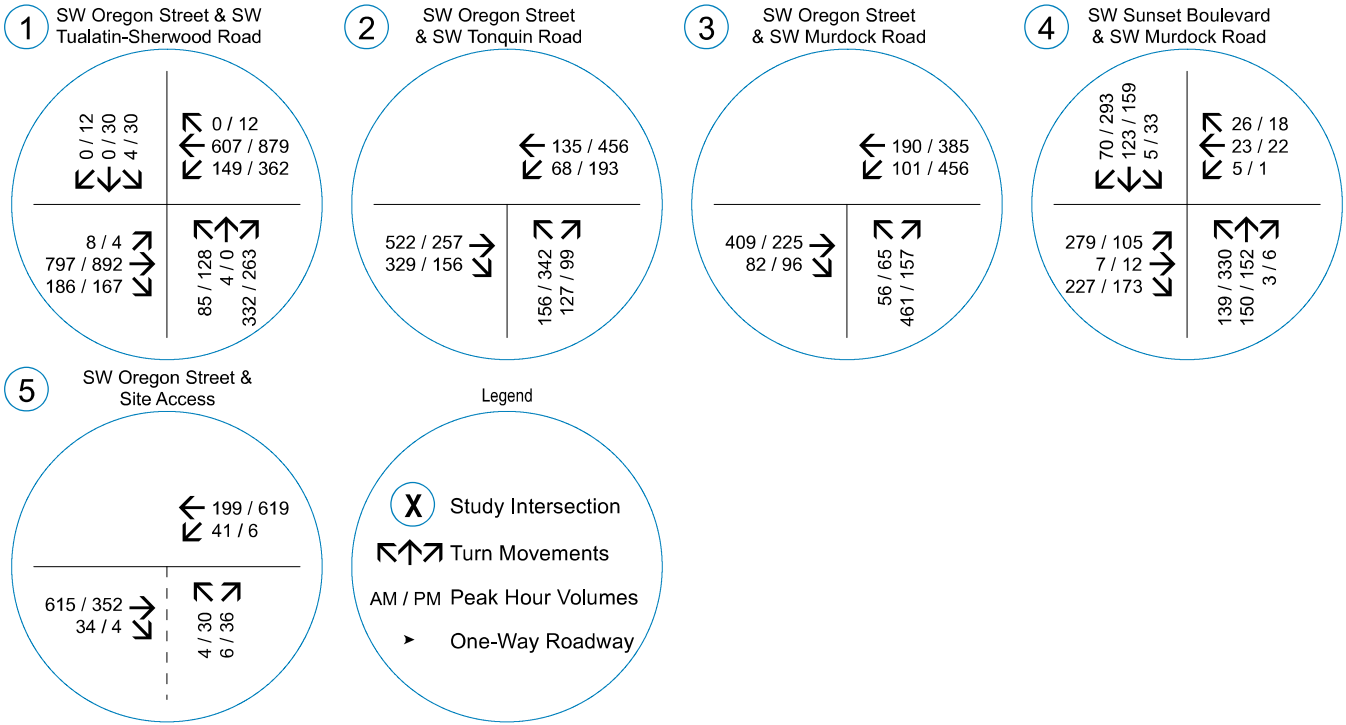


**Traffic Volumes**  
 Year 2023 Background Conditions  
 AM & PM Peak Hour



NOT TO SCALE

Figure 4  
 Oregon Street Business Park  
 5/23/2022



**Traffic Volumes**  
Year 2023 Buildout Conditions  
AM & PM Peak Hour



Figure 5  
Oregon Street Business Park  
5/23/2022

## Safety Analysis

### Crash History Review

Using data obtained from ODOT's Crash Analysis and Reporting Unit, a review was performed of the most recent five years of available crash data at the study intersections (January 2014 through December 2018). The crash data was evaluated based on the number of crashes, the type of collisions, the severity of the collisions, and the resulting crash rate for each intersection. Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated under the common assumption that traffic counted during the evening peak hour represents approximately ten percent of annual average daily traffic (AADT) at each intersection. Crash rates in excess of 1.00 crashes per million entering vehicles (CMEV) may be indicative of design deficiencies and therefore require a need for further investigation and possible mitigation.

With regard to crash severity, ODOT classifies crashes in the following categories:

1. Property Damage Only (*PDO*);
2. Possible Injury – Complaint of Pain (*Injury C*);
3. Non-Incapacitating Injury (*Injury B*);
4. Incapacitating Injury – Bleeding, Broken Bones (*Injury A*); and
5. Fatality or Fatal Injury.

Table 4 provides a summary of crash types while Table 5 summarizes crash severities and rates for each of the study intersections. Detailed crash reports are included in the technical appendix to this report.

Table 4: Crash Type Summary

Intersection	Crash Type						Total Crashes
	Rear End	Turning	Angle	Fixed Object	Head-On	Sideswipe	
1. SW Oregon Street & SW Tualatin-Sherwood Road	27	18	0	0	1	1	47
2. SW Oregon Street & SW Tonquin Road	2	5	0	0	0	0	7
3. SW Oregon Street & SW Murdock Road	1	0	1	1	0	0	3
4. SW Murdock Road & SW Sunset Boulevard	3	2	0	0	0	0	5

Table 5: Crash Severity and Rate Summary

Intersection	Crash Severity					Total Crashes	PHEV	Crash Rate
	PDO	C	B	A	Fatal			
1. SW Oregon Street & SW Tualatin-Sherwood Road	20	16	10	1	0	47	2,632	0.98
2. SW Oregon Street & SW Tonquin Road	5	2	0	0	0	7	1,412	0.27
3. SW Oregon Street & SW Murdock Road	1	2	0	0	0	3	1,319	0.12
4. SW Murdock Road & SW Sunset Boulevard	4	1	0	0	0	5	1,243	0.22

**BOLDED** text indicates crash rate exceeding a value of 1.00 CMEV.

At the intersection of SW Oregon Street & SW Tualatin-Sherwood Road, there was one reported crash that resulted in sustained injuries consistent with *Injury A* classification. The crash occurred when a westbound vehicle collided with another westbound vehicle, resulting in a rear-end collision. The striking vehicle's driver was reportedly driving carelessly, driving a vehicle with inadequate or no brakes, and rear-ended the second vehicle stopped in traffic. The driver of the struck vehicle sustained injuries consistent with *Injury A* classification. The driver of the striking vehicle sustained injuries consistent with *Injury C* classification. The collision was reported to have occurred under favorable lighting and weather conditions.

#### Washington County SPIS List

The Washington County Safety Priority Index System (SPIS) List 2016 (2013-2015 Data) was reviewed and determined that the intersection of SW Oregon Street & SW Tualatin-Sherwood Road was ranked #62 of 326 intersections throughout Washington County. This intersection also was identified to have a crash rate exceeding 1.00 CMEV.

The SW Tualatin-Sherwood Road corridor is planned to be widened to five lanes from Langer Farms Parkway and Teton Avenue with traffic signal upgrades throughout. The corridor widening construction is set to begin in the summer of 2021 and expected to be completed in two to three years. It is anticipated that this Capital Improvement Project will reduce congestion and improve safety along the corridor and at this intersection.

Based on a review of the most recent five years of available crash data, no significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. Accordingly, no additional safety mitigation is recommended per the crash data analysis.

## Warrant Analysis

### Preliminary Traffic Signal Warrants

Preliminary traffic signal warrants were examined for all unsignalized study intersections. Methodologies were based on the Manual on Uniform Traffic Control Devices (MUTCD), published by the Federal Highway Administration in 2009. Warrant 1, Eight-Hour Vehicular Volumes, was evaluated based on the common assumption that traffic counted during the evening peak hour represents 10 percent of the average daily traffic (ADT) and that the 8<sup>th</sup> highest hour is 5.65 percent of the daily volume. Detailed analysis worksheets can be found in an appendix to this report.

The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:

- SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

### Left-Turn Lane Warrants

Left-turn lane warrants were examined for the site access intersection under year 2023 buildout conditions. A left-turn refuge is primarily a safety consideration for the major-street approach, removing left-turning vehicles from the through traffic stream.

Warrants for an eastbound left-turn lane at the site access intersection were based on the methodology outlined in the National Cooperative Highway Research Program (NCHRP) Report Number 457<sup>2</sup>. This methodology evaluates the need for a left-turn lane based on the number of left-turning vehicles, the number of travel lanes, the number of advancing and opposing vehicles, and the roadway travel speed. Detailed warrant analyses for each study intersection are included in the technical appendix to this report.

Left-turn lane warrants are not projected to be met upon completion and occupancy of the proposed development during the AM or PM Peak Hour at the site access intersection with SW Oregon Street.

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<sup>2</sup> Bonneson, James A. and Michael D. Fontaine, *NCHRP Report 457: An Engineering Study Guide for Evaluating Intersection Improvements*, Transportation Research Board, 2001.

## Operational Analysis

Capacity and delay analyses were conducted for each of the study intersections per the signalized and unsignalized intersection analysis methodologies in the *Highway Capacity Manual*<sup>3</sup> (HCM). Calculations for the intersections are performed using Synchro 10.3.122.0 software. Intersections are generally evaluated based on the average control delay experienced by vehicles and are assigned a grade according to their operation. The level of service (LOS) of an intersection can range from LOS A, which indicates very little or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume-to-capacity (v/c) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

## Performance Standards

The operating standards adopted by Washington County and the City of Sherwood are summarized below.

### Washington County

SW Tualatin-Sherwood Road, SW Oregon Street, and SW Tonquin Road are under the jurisdiction of Washington County. The County has defined operating standards for signalized and stop controlled intersections as follows:

- For signalized intersections, the maximum intersection v/c ratio shall be no greater than 0.99.
- For unsignalized intersections, no movement shall experience a v/c ratio greater than 0.99.

### City of Sherwood

According to the City of Sherwood's Transportation System Plan (TSP), signalized, all-way stop-control, and roundabout intersections under City jurisdiction must operate at LOS D or better with a v/c ratio of 0.85 or less. Two-way stop-controlled intersections are required to operate at LOS E or better with a v/c ratio of 0.90 or less<sup>4</sup>.

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<sup>3</sup> Transportation Research Board, *Highway Capacity Manual*, 6th Edition, 2016.

<sup>4</sup> City of Sherwood, *Sherwood Transportation System Plan*. Adopted June 17th, 2014.



## Delay & Capacity Analysis

The v/c, delay, and LOS results of the capacity analysis are shown in

Table 6 below for the morning and evening peak hours. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

**Table 6: Intersection Capacity Analysis Summary**

Intersection	Scenario	AM Peak Hour			PM Peak Hour		
		V/C	LOS	Delay (s)	V/C	LOS	Delay (s)
1. SW Oregon Street & SW Tualatin-Sherwood Road	Existing Conditions	0.73	B	17.3	0.86	C	27.7
	2023 Background Conditions	0.76	B	19.4	0.92	D	36.2
	2023 Buildout Conditions	0.76	B	19.8	0.95	D	39.0
2. SW Oregon Street & SW Tonquin Road	Existing Conditions	0.52	D	28.1	<b>1.75</b>	F	398.5
	2023 Background Conditions	0.56	D	31.4	<b>1.96</b>	F	490.2
	2023 Buildout Conditions	0.58	D	33.4	<b>2.16</b>	F	584.9
3. SW Oregon Street & SW Murdock Road	Existing Conditions	0.61	A	9.2	0.65	A	9.6
	2023 Background Conditions	0.65	A	9.9	0.68	B	10.3
	2023 Buildout Conditions	0.66	B	10.1	0.69	B	10.5
4. SW Murdock Road & SW Sunset Boulevard	Existing Conditions	0.53	C	16.8	<b>0.89</b>	<b>E</b>	<b>40.0</b>
	2023 Background Conditions	0.56	C	17.8	<b>0.94</b>	<b>F</b>	<b>50.7</b>
	2023 Buildout Conditions	0.58	C	18.6	<b>0.94</b>	<b>F</b>	<b>51.7</b>
5. SW Oregon Street & Site Access (SW Laurel Wood Way)	Existing Conditions	Does Not Exist					
	2023 Background Conditions	Does Not Exist					
	2023 Buildout Conditions	0.05	B	14.5	0.19	C	16.8

**BOLDED** text indicates intersection operation above jurisdictional standards.

Based on the results of the operational and capacity analysis, all study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:

- 2. SW Oregon Street & SW Tonquin Road – v/c ratio exceeds 0.99 during PM Peak Hour
- 4. SW Murdock Road & SW Sunset Boulevard – v/c ratio exceeds 0.85 during PM Peak Hour

## Intersection Mitigation Analysis

As noted in the previous section, and consistent with the findings and recommendation of the City of Sherwood TSP, there are two study area intersections that have existing operational deficiencies that are anticipated to continue in the year 2023 buildout year, with and without the addition of project traffic.

- The intersection of SW Oregon Street & SW Tonquin Road is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.
- The intersection of SW Murdock Road & SW Sunset Boulevard is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane.

These improvements will reduce the intersection v/c ratio and level of service to within acceptable standards. Table 7 summarizes the v/c ratio, level of service, and delay for the background, buildout, and mitigated conditions:

Table 7: Intersection Mitigation Analysis

Intersection	Scenario	PM Peak Hour		
		V/C	LOS	Delay (s)
2. SW Oregon Street & SW Tonquin Road	2023 Background Conditions	<b>1.96</b>	F	490.2
	2023 Buildout Conditions	<b>2.20</b>	F	602.7
	2023 Mitigated Conditions	0.78	B	13.8
4. SW Murdock Road & SW Sunset Boulevard	2023 Background Conditions	<b>0.94</b>	<b>E</b>	<b>35.8</b>
	2023 Buildout Conditions	<b>0.95</b>	<b>E</b>	<b>37.6</b>
	2023 Mitigated Conditions	0.73	D	27.3

**BOLDED** text indicates intersection operation above jurisdictional standards.

The identified CIP projects will improve intersection operations to meet the City of Sherwood and Washington County jurisdictional standards.

It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.

It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane.

No additional operational mitigation is necessary or recommended at these intersections.



## Proportionate Share Mitigation Assessment

Consistent with *The Reserve TIA* (conducted by Kittleson & Associates September 19, 2019) and the *Cedar Creek Subdivision TIA* (conducted by Lancaster Mobley April 8, 2020), proportionate share fees were evaluated at intersections determined as failing, using methodologies similar to those presented in Table 6 and Table 7 of the referenced TIAs, respectively. Table 8 below provides the methodology used to calculate proportionate share fees based on the proposed development's trip generation impacts.

Table 8: Proportional Share Methodology Summary

Intersection	SW Sunset Boulevard at SW Murdock Road/SW Baker Road
Mitigation Project Summary	Construct NB Left Turn Lane & SB Right Turn Lane
City TSP Project ID	D33
Peak Hour	Weekday PM
Scenario when Mitigation is Triggered	No Build (2024)
Existing Total Entering Volume, TEV (X)	1,208
2024 No Build (Background with RIRO, Y)	1,377
Project Trips (PT)	11
Background Growth (Z=Y-X)	169
Proportional Share (% , $PT/(PT+Z)$ )	6.11%
Mitigation Cost Estimate (\$)	\$750,000
Cost Estimate Reference	TSP (Ref 5)
Proportional Share Cost	\$45,833.33

Based on the proportionate share fee calculations, a proportionate share fee to mitigate site trip impacts to the above intersection is \$45,833.33.

The intersection of SW Oregon Street & SW Tonquin Road is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. This capital improvement project will be funded by the Washington County Transportation Development Tax (TDT) and City of Sherwood System Development Charges (SDC). It is recommended that the project applicant dedicate the necessary right-of-way as appropriate mitigation.

## Conclusions

No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. No additional safety mitigation is recommended per the crash data analysis.

The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:

- SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

Left-turn lane warrants are not projected to be met upon at any of the applicable study intersections following completion and occupancy of the proposed development during the AM or PM Peak Hour.

All study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:

- SW Oregon Street & SW Tonquin Road – v/c ratio exceeds 0.99 during PM Peak Hour
- SW Murdock Road & SW Sunset Boulevard – v/c ratio exceeds 0.85 during PM Peak Hour

It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.

It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane. A proportionate share fee to mitigate site trip impacts is calculated at \$45,833.33.

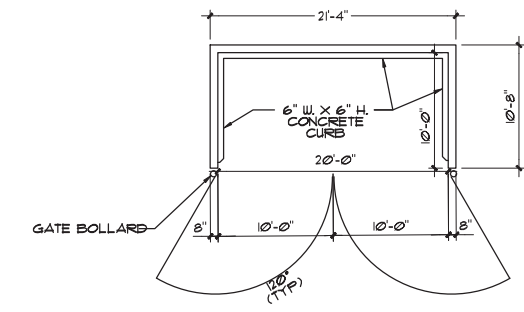
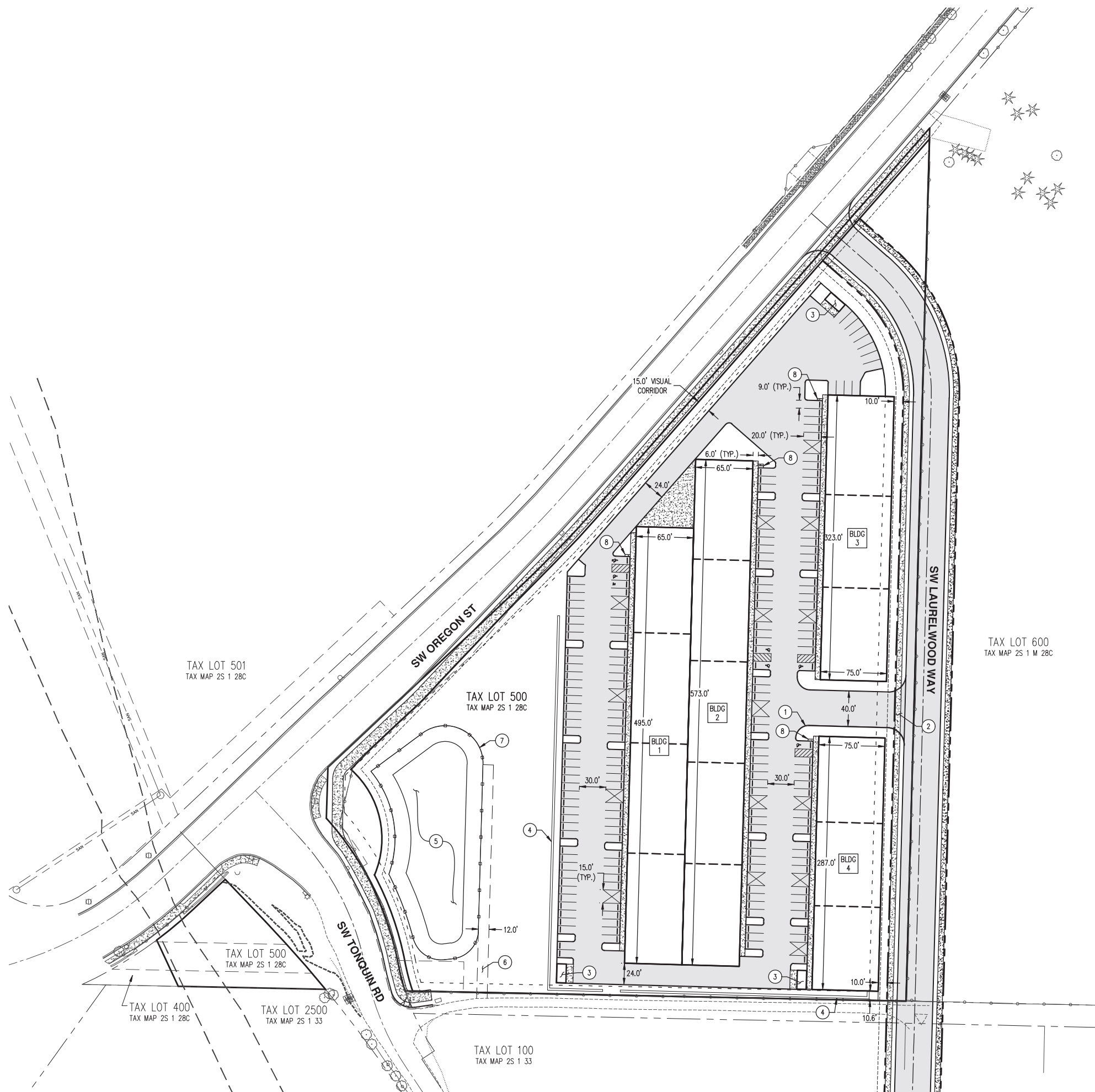
# Appendix



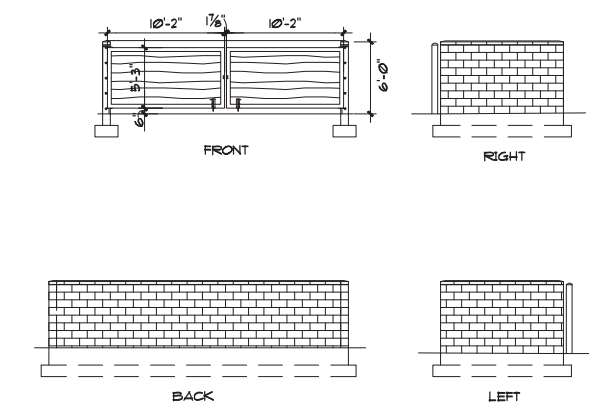
# Appendix A

## Site Plan





TYPICAL TRASH ENCLOSURE PLAN VIEW  
 NOT TO SCALE



TYPICAL TRASH ENCLOSURE ELEVATIONS  
 NOT TO SCALE

**KEYED NOTES**

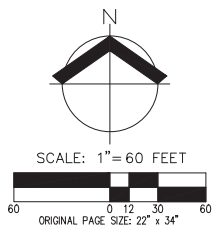
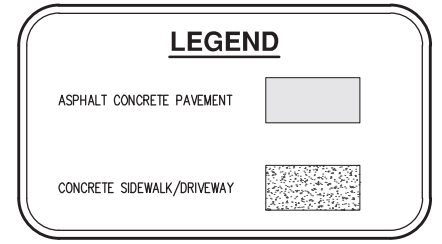
1. NEW STANDARD CURB (TYP.)
2. NEW 40' COMMERCIAL DRIVEWAY
3. NEW TRASH ENCLOSURE
4. NEW RETAINING WALL
5. NEW STORMWATER FACILITY
6. NEW ASPHALT ACCESS ROAD
7. NEW FENCE
8. BICYCLE PARKING

**BUILDING AREAS:**

- BUILDING 1: 32,175 SF
- BUILDING 2: 37,245 SF
- BUILDING 3: 24,225 SF
- BUILDING 4: 21,525 SF
- TOTAL: 115,170 SF

**PARKING SPACES:**

- STANDARD: 178
- ADA: 6 (1 VAN ACCESSIBLE)
- VANPOOL: 1
- TOTAL: 185 SPACES (185 REQUIRED)
- BIKE PARKING: 5 (5 REQUIRED)



**PRELIMINARY SITE PLAN**  
**OREGON STREET BUSINESS PARK**  
**SHERWOOD, OR**



RENEWAL DATE: 12/31/23  
 JOB NUMBER: 7971  
 DATE: 02/01/2022  
 DESIGNED BY: BDL  
 DRAWN BY: BDL  
 CHECKED BY: JPC

# Appendix B

## Traffic Counts







(303) 216-2439  
www.alltrafficdata.net

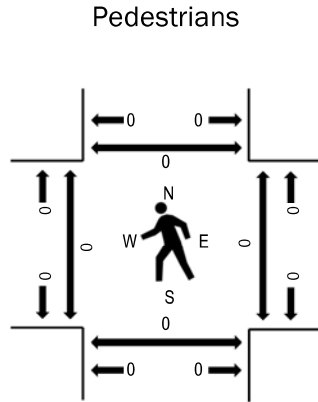
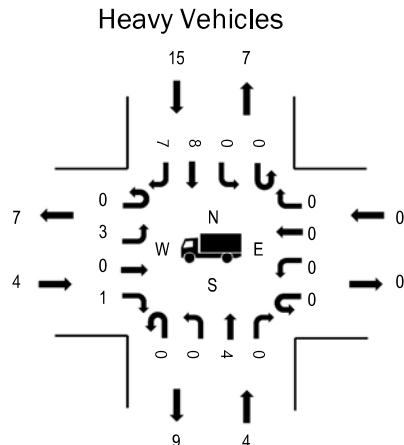
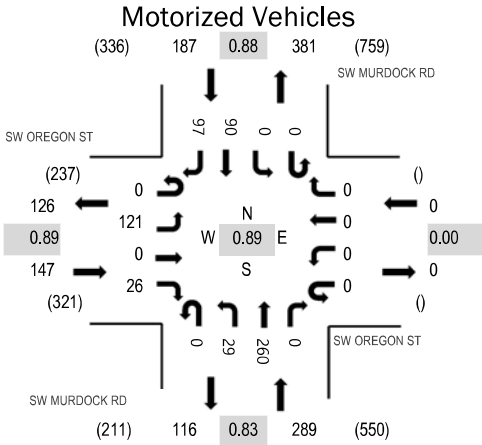
Location: 3 SW MURDOCK RD & SW OREGON ST AM

Date: Tuesday, August 18, 2020

Peak Hour: 07:35 AM - 08:35 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	2.7%	0.89
WB	0.0%	0.00
NB	1.4%	0.83
SB	8.0%	0.88
All	3.7%	0.89

Traffic Counts - Motorized Vehicles

Interval Start Time	SW OREGON ST Eastbound				SW OREGON ST Westbound				SW MURDOCK RD Northbound				SW MURDOCK RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	12	0	0	0	0	0	0	0	2	23	0	0	0	2	5	44	593
7:05 AM	0	9	0	1	0	0	0	0	0	2	14	0	0	0	1	5	32	596
7:10 AM	0	18	0	3	0	0	0	0	0	0	26	0	0	0	0	5	52	609
7:15 AM	0	13	0	3	0	0	0	0	0	4	18	0	0	0	4	7	49	602
7:20 AM	0	12	0	2	0	0	0	0	0	3	14	0	0	0	4	4	39	612
7:25 AM	0	16	0	0	0	0	0	0	0	3	17	0	0	0	6	5	47	619
7:30 AM	0	16	0	2	0	0	0	0	0	4	16	0	0	0	7	7	52	620
7:35 AM	0	17	0	1	0	0	0	0	0	3	31	0	0	0	4	9	65	623
7:40 AM	0	10	0	3	0	0	0	0	0	3	23	0	0	0	6	3	48	612
7:45 AM	0	16	0	3	0	0	0	0	0	4	23	0	0	0	9	7	62	612
7:50 AM	0	16	0	5	0	0	0	0	0	2	31	0	0	0	4	3	61	613
7:55 AM	0	10	0	1	0	0	0	0	0	3	10	0	0	0	13	5	42	605
8:00 AM	0	6	0	1	0	0	0	0	0	2	28	0	0	0	5	5	47	614
8:05 AM	0	3	0	1	0	0	0	0	0	2	16	0	0	0	8	15	45	
8:10 AM	0	7	0	1	0	0	0	0	0	1	22	0	0	0	6	8	45	
8:15 AM	0	12	0	2	0	0	0	0	0	3	22	0	0	0	7	13	59	
8:20 AM	0	7	0	3	0	0	0	0	0	5	16	0	0	0	8	7	46	
8:25 AM	0	8	0	2	0	0	0	0	0	0	18	0	0	0	12	8	48	
8:30 AM	0	9	0	3	0	0	0	0	0	1	20	0	0	0	8	14	55	
8:35 AM	0	13	0	1	0	0	0	0	0	4	21	0	0	0	10	5	54	
8:40 AM	0	8	0	3	0	0	0	0	0	2	23	0	0	0	7	5	48	
8:45 AM	0	9	0	2	0	0	0	0	0	4	22	0	0	0	12	14	63	
8:50 AM	0	13	0	2	0	0	0	0	0	3	19	0	0	0	11	5	53	
8:55 AM	0	13	0	3	0	0	0	0	0	4	13	0	0	0	9	9	51	
Count Total	0	273	0	48	0	0	0	0	0	64	486	0	0	0	163	173	1,207	
Peak Hour	0	121	0	26	0	0	0	0	0	29	260	0	0	0	90	97	623	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	0	1	1	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	1	0	0	0	1	7:10 AM	0	1	0	1	2	7:10 AM	0	0	0	0	0
7:15 AM	1	1	0	2	4	7:15 AM	0	0	0	1	1	7:15 AM	0	0	0	0	0
7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0	7:20 AM	1	0	0	0	1
7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	1	0	1	2	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	0	2	2	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	1	0	2	3	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	0	0	2	2	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	1	0	0	2	3	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	0	1	0	2	3	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	1	0	1	2	8:05 AM	1	0	0	1	2	8:05 AM	0	0	0	0	0
8:10 AM	1	0	0	1	2	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	1	1	0	1	3	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	1	0	0	2	3	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	1	0	1	2	8:30 AM	0	0	0	0	0
8:35 AM	1	1	0	0	2	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	0	2	0	2	4	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	3	0	2	5	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	0	2	2	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	7	12	0	25	44	Count Total	1	3	0	4	8	Count Total	1	0	0	0	1
Peak Hour	4	4	0	15	23	Peak Hour	1	1	0	2	4	Peak Hour	0	0	0	0	0



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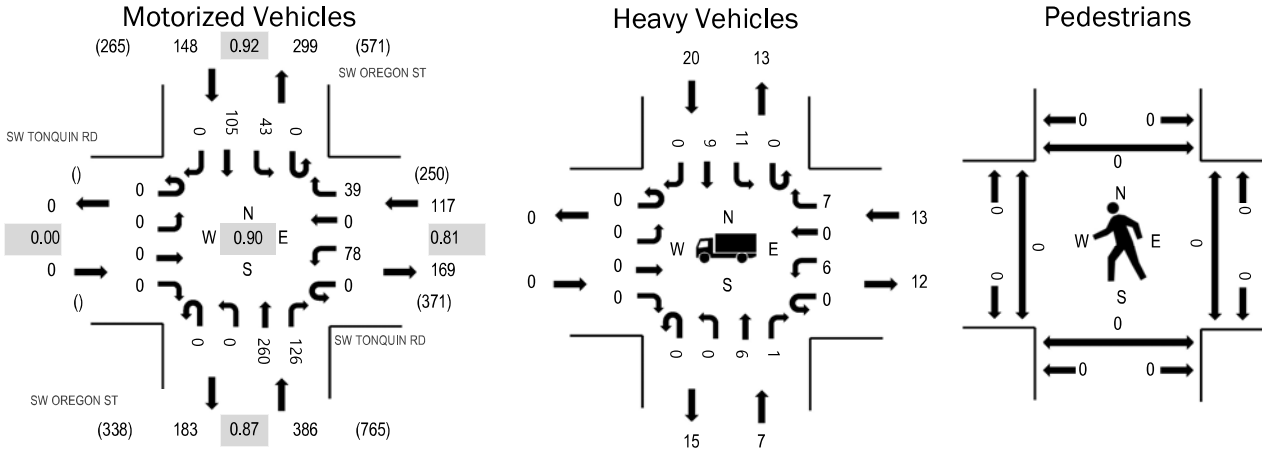
Location: 1 SW OREGON ST & SW TONQUIN RD AM

Date: Tuesday, August 18, 2020

Peak Hour: 07:35 AM - 08:35 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	11.1%	0.81
NB	1.8%	0.87
SB	13.5%	0.92
All	6.1%	0.90

Traffic Counts - Motorized Vehicles

Interval Start Time	SW TONQUIN RD Eastbound				SW TONQUIN RD Westbound				SW OREGON ST Northbound				SW OREGON ST Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	0	0	0	0	5	0	4	0	0	25	12	0	5	4	0	55	645
7:05 AM	0	0	0	0	0	3	0	9	0	0	17	7	0	4	4	0	44	639
7:10 AM	0	0	0	0	0	3	0	8	0	0	20	23	0	2	0	0	56	640
7:15 AM	0	0	0	0	0	9	0	4	0	0	25	5	0	2	5	0	50	631
7:20 AM	0	0	0	0	0	5	0	4	0	0	14	11	0	3	3	0	40	648
7:25 AM	0	0	0	0	0	5	0	6	0	0	13	22	0	2	3	0	51	650
7:30 AM	0	0	0	0	0	9	0	2	0	0	18	15	0	7	8	0	59	646
7:35 AM	0	0	0	0	0	8	0	1	0	0	30	17	0	5	4	0	65	651
7:40 AM	0	0	0	0	0	3	0	2	0	0	22	13	0	4	5	0	49	639
7:45 AM	0	0	0	0	0	8	0	5	0	0	26	12	0	8	8	0	67	640
7:50 AM	0	0	0	0	0	4	0	3	0	0	30	16	0	5	4	0	62	636
7:55 AM	0	0	0	0	0	8	0	3	0	0	12	11	0	3	10	0	47	636
8:00 AM	0	0	0	0	0	3	0	3	0	0	26	6	0	3	8	0	49	635
8:05 AM	0	0	0	0	0	6	0	4	0	0	17	3	0	2	13	0	45	
8:10 AM	0	0	0	0	0	4	0	3	0	0	23	6	0	1	10	0	47	
8:15 AM	0	0	0	0	0	11	0	7	0	0	21	15	0	3	10	0	67	
8:20 AM	0	0	0	0	0	9	0	2	0	0	12	9	0	2	8	0	42	
8:25 AM	0	0	0	0	0	6	0	0	0	0	16	9	0	4	12	0	47	
8:30 AM	0	0	0	0	0	8	0	6	0	0	25	9	0	3	13	0	64	
8:35 AM	0	0	0	0	0	8	0	1	0	0	22	11	0	4	7	0	53	
8:40 AM	0	0	0	0	0	6	0	2	0	0	15	13	0	6	8	0	50	
8:45 AM	0	0	0	0	0	12	0	6	0	0	23	9	0	3	10	0	63	
8:50 AM	0	0	0	0	0	7	0	5	0	0	18	16	0	3	13	0	62	
8:55 AM	0	0	0	0	0	9	0	1	0	0	10	15	0	2	9	0	46	
Count Total	0	0	0	0	0	159	0	91	0	0	480	285	0	86	179	0	1,280	
Peak Hour	0	0	0	0	0	78	0	39	0	0	260	126	0	43	105	0	651	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	0	0	2	3	5	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	0	1	2	3	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	0	1	2	0	3	7:10 AM	0	1	1	0	2	7:10 AM	0	0	0	0	0
7:15 AM	0	2	3	0	5	7:15 AM	0	0	0	1	1	7:15 AM	0	0	0	0	0
7:20 AM	0	0	3	0	3	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	0	0	4	0	4	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	0	0	3	3	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	2	2	4	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	1	0	3	4	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	0	3	1	4	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	0	1	1	2	4	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	0	0	1	1	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	0	1	0	4	5	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	1	2	2	5	8:05 AM	0	1	0	0	1	8:05 AM	0	0	0	0	0
8:10 AM	0	1	2	1	4	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	0	2	1	2	5	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	0	0	1	1	2	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	0	0	1	1	2	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	2	0	1	3	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	0	2	0	4	6	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	3	4	1	8	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	0	0	2	2	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	2	1	3	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	0	17	34	37	88	Count Total	0	3	1	1	5	Count Total	0	0	0	0	0
Peak Hour	0	7	13	20	40	Peak Hour	0	1	0	0	1	Peak Hour	0	0	0	0	0



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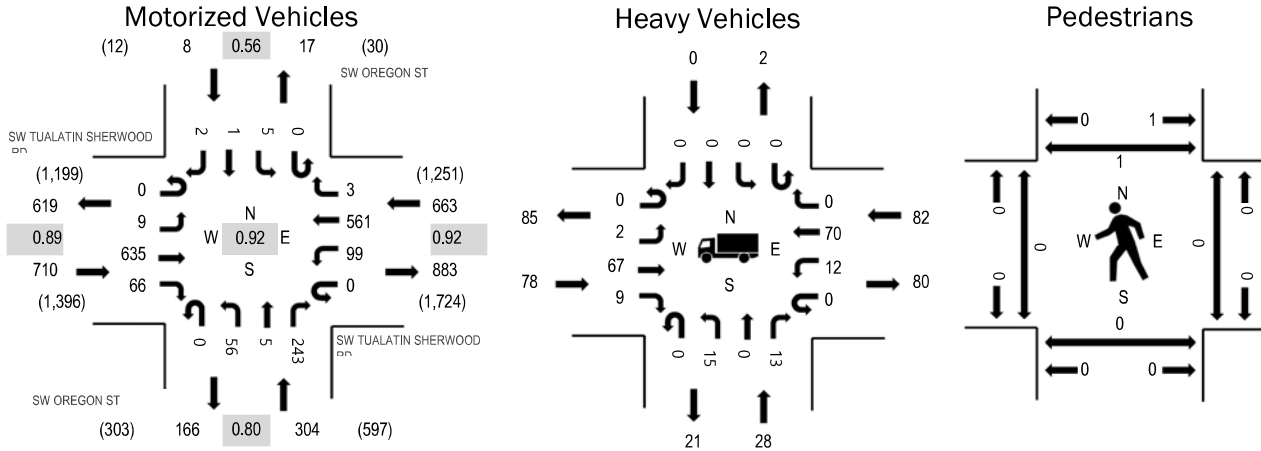
Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD AM

Date: Tuesday, August 18, 2020

Peak Hour: 07:30 AM - 08:30 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	11.0%	0.89
WB	12.4%	0.92
NB	9.2%	0.80
SB	0.0%	0.56
All	11.2%	0.92

Traffic Counts - Motorized Vehicles

Interval Start Time	SW TUALATIN SHERWOOD Eastbound				SW TUALATIN SHERWOOD Westbound				SW OREGON ST Northbound				SW OREGON ST Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	1	36	2	0	3	35	0	0	3	0	28	0	0	0	0	108	1,608
7:05 AM	0	0	63	4	0	0	39	0	0	2	0	19	0	0	0	0	127	1,644
7:10 AM	0	0	56	8	0	3	29	1	0	6	1	21	0	1	0	0	126	1,649
7:15 AM	0	0	54	6	0	4	36	0	0	8	0	22	0	0	0	0	130	1,621
7:20 AM	0	1	54	6	0	8	41	0	0	8	0	14	0	0	0	0	132	1,645
7:25 AM	0	0	40	8	0	3	36	0	0	10	0	11	0	0	0	0	108	1,659
7:30 AM	0	0	72	6	0	3	49	0	0	3	0	15	0	0	0	0	148	1,685
7:35 AM	0	0	52	7	0	7	53	2	0	4	0	34	0	2	0	0	161	1,682
7:40 AM	0	0	64	9	0	6	30	0	0	5	0	22	0	0	0	0	136	1,682
7:45 AM	0	0	55	7	0	8	53	1	0	6	1	29	0	0	0	0	160	1,682
7:50 AM	0	2	53	5	0	6	33	0	0	4	2	25	0	0	0	0	130	1,670
7:55 AM	0	2	59	5	0	7	52	0	0	3	1	13	0	0	0	0	142	1,670
8:00 AM	0	1	41	5	0	15	47	0	0	9	0	25	0	1	0	0	144	1,648
8:05 AM	0	0	51	3	0	7	50	0	0	4	0	16	0	0	1	0	132	
8:10 AM	0	3	29	0	0	7	35	0	0	2	1	19	0	0	0	2	98	
8:15 AM	0	1	64	2	0	14	48	0	0	7	0	17	0	1	0	0	154	
8:20 AM	0	0	58	8	0	6	54	0	0	5	0	14	0	1	0	0	146	
8:25 AM	0	0	37	9	0	13	57	0	0	4	0	14	0	0	0	0	134	
8:30 AM	0	0	55	5	0	5	48	1	0	9	0	22	0	0	0	0	145	
8:35 AM	0	0	70	6	0	8	54	1	0	1	0	20	0	1	0	0	161	
8:40 AM	0	1	55	4	0	8	46	1	0	5	1	15	0	0	0	0	136	
8:45 AM	0	2	49	7	0	12	49	0	0	8	0	20	0	1	0	0	148	
8:50 AM	0	0	41	4	0	13	46	1	0	8	0	17	0	0	0	0	130	
8:55 AM	0	0	45	3	0	7	49	1	0	4	0	10	0	1	0	0	120	
Count Total	0	14	1,253	129	0	173	1,069	9	0	128	7	462	0	9	1	2	3,256	
Peak Hour	0	9	635	66	0	99	561	3	0	56	5	243	0	5	1	2	1,685	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
7:00 AM	3	5	5	0	13	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	5	2	6	0	13	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	6	2	3	1	12	7:10 AM	1	0	1	0	2	7:10 AM	0	0	0	0	0
7:15 AM	2	3	8	0	13	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:20 AM	3	3	7	0	13	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	3	4	8	0	15	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	6	1	9	0	16	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	8	3	10	0	21	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	5	2	5	0	12	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	1	1
7:45 AM	4	2	7	0	13	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	9	1	6	0	16	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	7	2	10	0	19	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	7	2	4	0	13	8:00 AM	1	0	0	0	1	8:00 AM	0	0	0	0	0
8:05 AM	12	3	6	0	21	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	2	2	8	0	12	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	4	4	8	0	16	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	7	5	2	0	14	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	7	1	7	0	15	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	5	2	4	0	11	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	6	2	10	0	18	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	5	0	7	0	12	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	1	1
8:45 AM	5	6	6	0	17	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	3	1	3	0	7	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	6	1	10	0	17	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	130	59	159	1	349	Count Total	2	1	1	0	4	Count Total	0	0	0	2	2
Peak Hour	78	28	82	0	188	Peak Hour	1	0	0	0	1	Peak Hour	0	0	0	1	1



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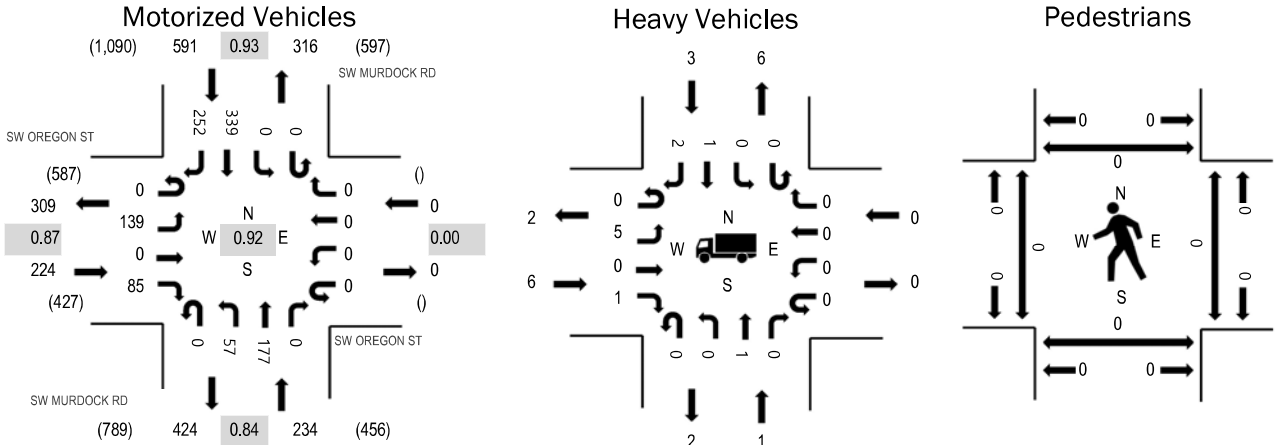
Location: 3 SW MURDOCK RD & SW OREGON ST PM

Date: Tuesday, August 18, 2020

Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 05:05 PM - 05:20 PM

**Peak Hour**



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	2.7%	0.87
WB	0.0%	0.00
NB	0.4%	0.84
SB	0.5%	0.93
All	1.0%	0.92

**Traffic Counts - Motorized Vehicles**

Interval Start Time	SW OREGON ST Eastbound				SW OREGON ST Westbound				SW MURDOCK RD Northbound				SW MURDOCK RD Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	7	0	3	0	0	0	0	0	5	26	0	0	0	20	21	82	1,001
4:05 PM	0	9	0	12	0	0	0	0	0	6	13	0	0	0	27	14	81	999
4:10 PM	0	15	0	11	0	0	0	0	0	4	13	0	0	0	27	17	87	1,002
4:15 PM	0	9	0	4	0	0	0	0	0	5	14	0	0	0	25	19	76	1,018
4:20 PM	0	12	0	7	0	0	0	0	0	5	11	0	0	0	29	19	83	1,041
4:25 PM	0	9	0	6	0	0	0	0	0	5	13	0	0	0	21	21	75	1,036
4:30 PM	0	15	0	5	0	0	0	0	0	6	12	0	0	0	24	21	83	1,045
4:35 PM	0	11	0	9	0	0	0	0	0	4	18	0	0	0	20	30	92	1,049
4:40 PM	0	13	0	4	0	0	0	0	0	4	20	0	0	0	25	24	90	1,034
4:45 PM	0	8	0	8	0	0	0	0	0	9	18	0	0	0	27	27	97	1,015
4:50 PM	0	12	0	8	0	0	0	0	0	5	16	0	0	0	24	11	76	1,000
4:55 PM	0	10	0	8	0	0	0	0	0	4	9	0	0	0	27	21	79	984
5:00 PM	0	13	0	4	0	0	0	0	0	2	11	0	0	0	30	20	80	972
5:05 PM	0	22	0	7	0	0	0	0	0	3	12	0	0	0	26	14	84	
5:10 PM	0	12	0	8	0	0	0	0	0	8	19	0	0	0	29	27	103	
5:15 PM	0	7	0	9	0	0	0	0	0	7	20	0	0	0	37	19	99	
5:20 PM	0	7	0	7	0	0	0	0	0	3	14	0	0	0	31	16	78	
5:25 PM	0	12	0	6	0	0	0	0	0	6	7	0	0	0	33	20	84	
5:30 PM	0	12	0	7	0	0	0	0	0	2	13	0	0	0	30	23	87	
5:35 PM	0	9	0	6	0	0	0	0	0	4	11	0	0	0	26	21	77	
5:40 PM	0	10	0	8	0	0	0	0	0	2	16	0	0	0	19	16	71	
5:45 PM	0	14	0	6	0	0	0	0	0	8	8	0	0	0	26	20	82	
5:50 PM	0	8	0	5	0	0	0	0	0	8	9	0	0	0	21	9	60	
5:55 PM	0	5	0	8	0	0	0	0	0	5	13	0	0	0	19	17	67	
Count Total	0	261	0	166	0	0	0	0	0	120	336	0	0	0	623	467	1,973	
Peak Hour	0	139	0	85	0	0	0	0	0	57	177	0	0	0	339	252	1,049	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	1	0	1	2	4:00 PM	0	1	0	0	1	4:00 PM	0	0	0	0	0
4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	2	0	1	3	4:10 PM	1	0	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	1	0	0	0	1	4:25 PM	0	1	0	0	1	4:25 PM	0	0	0	2	2
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	2	0	0	2
4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	1	0	0	2	3	5:00 PM	0	1	0	0	1	5:00 PM	0	0	0	0	0
5:05 PM	2	0	0	0	2	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	1	0	0	0	1	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	1	0	0	0	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	1	0	0	1	5:20 PM	1	0	0	0	1	5:20 PM	1	0	0	0	1
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	1	1	5:25 PM	0	0	0	0	0
5:30 PM	1	0	0	1	2	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	2	2	5:40 PM	0	0	0	0	0
5:45 PM	0	1	0	0	1	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	1	0	2	3	5:55 PM	0	0	0	1	1	5:55 PM	0	0	0	0	0
Count Total	7	6	0	7	20	Count Total	2	3	0	4	9	Count Total	1	2	0	2	5
Peak Hour	6	1	0	3	10	Peak Hour	1	1	0	1	3	Peak Hour	1	0	0	0	1





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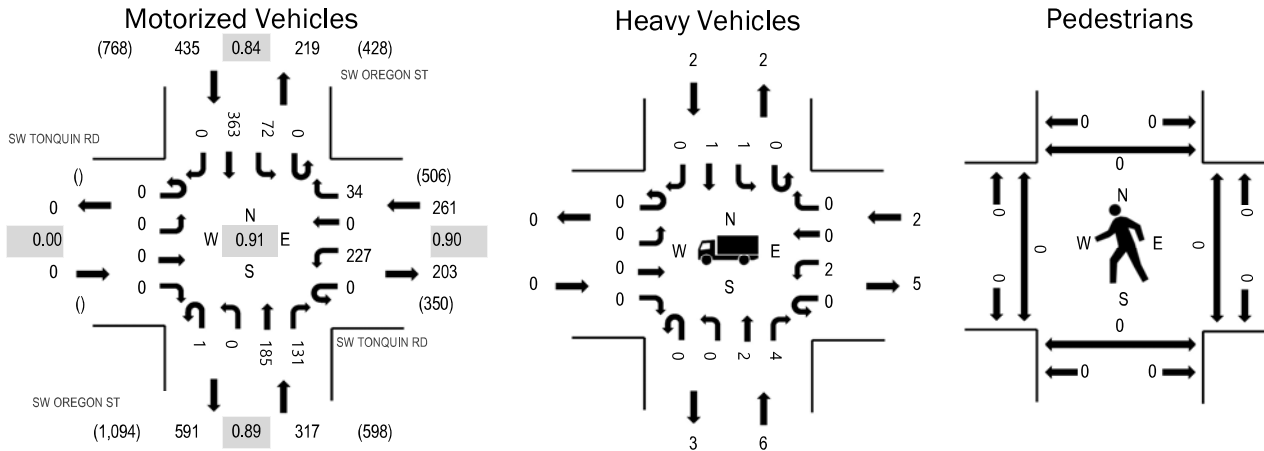
Location: 1 SW OREGON ST & SW TONQUIN RD PM

Date: Tuesday, August 18, 2020

Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 04:35 PM - 04:50 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	0.8%	0.90
NB	1.9%	0.89
SB	0.5%	0.84
All	1.0%	0.91

Traffic Counts - Motorized Vehicles

Interval Start Time	SW TONQUIN RD Eastbound				SW TONQUIN RD Westbound				SW OREGON ST Northbound				SW OREGON ST Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	0	0	0	22	0	2	0	0	27	4	0	4	25	0	84	963
4:05 PM	0	0	0	0	0	14	0	3	0	0	13	7	0	11	29	0	77	957
4:10 PM	0	0	0	0	0	20	0	5	0	0	20	10	0	6	23	0	84	964
4:15 PM	0	0	0	0	0	13	0	0	0	0	16	5	0	6	28	0	68	969
4:20 PM	0	0	0	0	0	24	0	1	0	0	17	5	0	5	26	0	78	993
4:25 PM	0	0	0	0	0	23	0	2	0	0	16	10	0	4	21	0	76	992
4:30 PM	0	0	0	0	0	17	0	4	0	0	16	12	0	4	22	0	75	997
4:35 PM	0	0	0	0	0	17	0	5	0	0	14	12	0	7	36	0	91	1,013
4:40 PM	0	0	0	0	0	22	0	3	0	0	20	17	0	12	27	0	101	995
4:45 PM	0	0	0	0	0	27	0	1	0	0	13	10	0	5	29	0	85	960
4:50 PM	0	0	0	0	0	12	0	2	0	0	18	12	0	4	21	0	69	942
4:55 PM	0	0	0	0	0	24	0	3	0	0	9	8	0	6	25	0	75	926
5:00 PM	0	0	0	0	0	19	0	2	0	0	16	9	0	5	27	0	78	909
5:05 PM	0	0	0	0	0	14	0	2	0	0	18	15	0	4	31	0	84	
5:10 PM	0	0	0	0	0	21	0	2	0	0	19	13	0	4	30	0	89	
5:15 PM	0	0	0	0	0	22	0	2	0	0	21	5	0	5	37	0	92	
5:20 PM	0	0	0	0	0	9	0	3	1	0	11	10	0	8	35	0	77	
5:25 PM	0	0	0	0	0	16	0	3	0	0	10	8	0	10	34	0	81	
5:30 PM	0	0	0	0	0	24	0	6	0	0	16	12	0	2	31	0	91	
5:35 PM	0	0	0	0	0	25	0	1	0	0	12	6	0	2	27	0	73	
5:40 PM	0	0	0	0	0	14	0	3	0	0	17	8	0	2	22	0	66	
5:45 PM	0	0	0	0	0	20	0	1	0	0	11	11	0	1	23	0	67	
5:50 PM	0	0	0	0	0	12	0	2	0	0	10	9	0	2	18	0	53	
5:55 PM	0	0	0	0	0	17	0	0	0	0	10	9	0	4	18	0	58	
Count Total	0	0	0	0	0	448	0	58	1	0	370	227	0	123	645	0	1,872	
Peak Hour	0	0	0	0	0	227	0	34	1	0	185	131	0	72	363	0	1,013	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	0	1	2	0	3	4:00 PM	0	1	0	0	1	4:00 PM	0	0	0	0	0
4:05 PM	0	0	1	2	3	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	2	3	0	5	4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	0	0	0	2	2	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	1	1	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	0	1	0	1	2	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	0	1	2	0	3	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	0	1	0	0	1	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	1	0	0	1	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	0	1	0	1	2	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	1	0	0	1	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	0	1	0	1	2	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	1	1	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	0	0	5:40 PM	0	0	2	0	2	5:40 PM	0	0	0	0	0
5:45 PM	0	1	0	0	1	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	1	1	0	2	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	0	12	9	9	30	Count Total	0	2	2	0	4	Count Total	0	0	0	0	0
Peak Hour	0	6	2	2	10	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0



(303) 216-2439  
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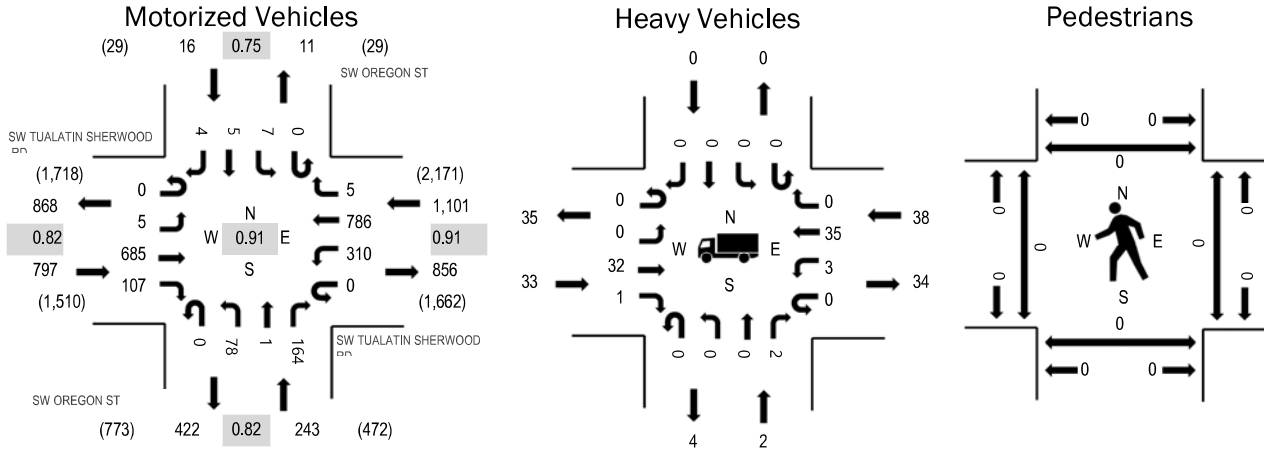
Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD PM

Date: Tuesday, August 18, 2020

Peak Hour: 04:30 PM - 05:30 PM

Peak 15-Minutes: 04:30 PM - 04:45 PM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	4.1%	0.82
WB	3.5%	0.91
NB	0.8%	0.82
SB	0.0%	0.75
All	3.4%	0.91

Traffic Counts - Motorized Vehicles

Interval Start Time	SW TUALATIN SHERWOOD Eastbound				SW TUALATIN SHERWOOD Westbound				SW OREGON ST Northbound				SW OREGON ST Southbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
4:00 PM	0	0	54	14	0	25	71	2	0	7	0	24	0	2	0	0	199	2,142
4:05 PM	0	0	53	13	0	16	70	1	0	10	0	17	0	0	0	2	182	2,129
4:10 PM	0	1	59	7	0	23	76	0	0	5	0	14	0	1	1	1	188	2,102
4:15 PM	0	0	38	7	0	29	72	0	0	7	0	14	0	0	0	2	169	2,111
4:20 PM	0	0	55	6	0	21	70	0	0	1	0	16	0	1	1	0	171	2,121
4:25 PM	0	0	48	3	0	24	52	0	0	8	0	14	0	1	0	0	150	2,138
4:30 PM	0	0	73	8	0	20	75	0	0	8	0	11	0	0	0	0	195	2,157
4:35 PM	0	1	68	19	0	22	64	2	0	6	0	16	0	2	2	0	202	2,145
4:40 PM	0	1	61	11	0	27	70	0	0	5	0	17	0	0	0	1	193	2,108
4:45 PM	0	0	53	5	0	21	58	0	0	6	0	16	0	3	0	0	162	2,069
4:50 PM	0	0	55	5	0	21	69	0	0	5	0	11	0	1	1	1	169	2,089
4:55 PM	0	0	47	10	0	30	59	0	0	7	0	8	0	0	1	0	162	2,045
5:00 PM	0	0	61	13	0	16	72	0	0	6	0	17	0	0	1	0	186	2,040
5:05 PM	0	2	48	5	0	27	54	1	0	8	0	10	0	0	0	0	155	
5:10 PM	0	0	59	6	0	26	79	1	0	6	0	20	0	0	0	0	197	
5:15 PM	0	1	36	8	0	40	66	0	0	11	0	16	0	0	0	1	179	
5:20 PM	0	0	65	12	0	28	64	0	0	6	0	13	0	0	0	0	188	
5:25 PM	0	0	59	5	0	32	56	1	0	4	1	9	0	1	0	1	169	
5:30 PM	0	0	73	5	0	21	63	0	0	6	0	14	0	0	1	0	183	
5:35 PM	0	0	56	5	0	19	66	2	0	4	0	13	0	0	0	0	165	
5:40 PM	0	1	46	1	0	25	61	2	0	4	0	14	0	0	0	0	154	
5:45 PM	0	1	60	2	0	19	84	3	0	2	0	11	0	0	0	0	182	
5:50 PM	0	1	35	4	0	20	48	1	0	4	1	11	0	0	0	0	125	
5:55 PM	0	1	55	9	0	30	54	0	0	0	1	7	0	0	0	0	157	
Count Total	0	10	1,317	183	0	582	1,573	16	0	136	3	333	0	12	8	9	4,182	
Peak Hour	0	5	685	107	0	310	786	5	0	78	1	164	0	7	5	4	2,157	

**Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk**

Interval Start Time	Heavy Vehicles					Interval Start Time	Bicycles on Roadway					Interval Start Time	Pedestrians/Bicycles on Crosswalk				
	EB	NB	WB	SB	Total		EB	NB	WB	SB	Total		EB	NB	WB	SB	Total
4:00 PM	4	2	3	0	9	4:00 PM	0	0	1	0	1	4:00 PM	0	0	0	0	0
4:05 PM	2	2	2	0	6	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	1	4	5	0	10	4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	4	0	2	0	6	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	5	0	2	0	7	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	3	0	3	0	6	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	3	0	2	0	5	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	2	0	2	0	4	4:35 PM	1	0	0	0	1	4:35 PM	0	0	0	0	0
4:40 PM	5	0	5	0	10	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	3	0	3	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	2	0	5	0	7	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	3	0	3	0	6	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	3	0	3	0	6	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	5	0	3	0	8	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	1	0	3	0	4	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	2	1	3	0	6	5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0
5:20 PM	6	1	4	0	11	5:20 PM	0	0	1	0	1	5:20 PM	0	0	0	0	0
5:25 PM	1	0	2	0	3	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	5	0	0	0	5	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	2	0	2	0	4	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	2	0	1	0	3	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	3	1	6	0	10	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	2	0	2	0	4	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	2	0	4	0	6	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	68	11	70	0	149	Count Total	1	1	3	0	5	Count Total	0	0	0	0	0
Peak Hour	33	2	38	0	73	Peak Hour	1	0	2	0	3	Peak Hour	0	0	0	0	0

# Appendix C

## Trip Generation Worksheets





## TRIP GENERATION CALCULATIONS

*Land Use:* General Light Industrial  
*Land Use Code:* 110  
*Setting/Location:* General Urban/Suburban  
*Variable:* 1,000 Square Feet of Gross Floor Area  
*Variable Quantity:* 115.170

### AM PEAK HOUR

*Trip Rate:* 0.70

	Enter	Exit	Total
Directional Distribution	88%	12%	
Trip Ends	<b>71</b>	<b>10</b>	<b>81</b>

### PM PEAK HOUR

*Trip Rate:* 0.63

	Enter	Exit	Total
Directional Distribution	13%	87%	
Trip Ends	<b>9</b>	<b>64</b>	<b>73</b>

### WEEKDAY

*Trip Rate:* 4.96

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>286</b>	<b>286</b>	<b>572</b>

### SATURDAY

*Trip Rate:* 1.99

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>115</b>	<b>115</b>	<b>230</b>



## TRIP GENERATION CALCULATIONS

*Land Use:* General Light Industrial  
*Land Use Code:* 110  
*Setting/Location:* General Urban/Suburban  
*Variable:* 1,000 Square Feet of Gross Floor Area  
*Variable Quantity:* 120.815

### AM PEAK HOUR

*Trip Rate:* 0.70

	Enter	Exit	Total
Directional Distribution	88%	12%	
Trip Ends	<b>75</b>	<b>10</b>	<b>85</b>

### PM PEAK HOUR

*Trip Rate:* 0.63

	Enter	Exit	Total
Directional Distribution	13%	87%	
Trip Ends	<b>10</b>	<b>66</b>	<b>76</b>

### WEEKDAY

*Trip Rate:* 4.96

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>300</b>	<b>300</b>	<b>600</b>

### SATURDAY

*Trip Rate:* 1.99

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	<b>120</b>	<b>120</b>	<b>240</b>

# Appendix D

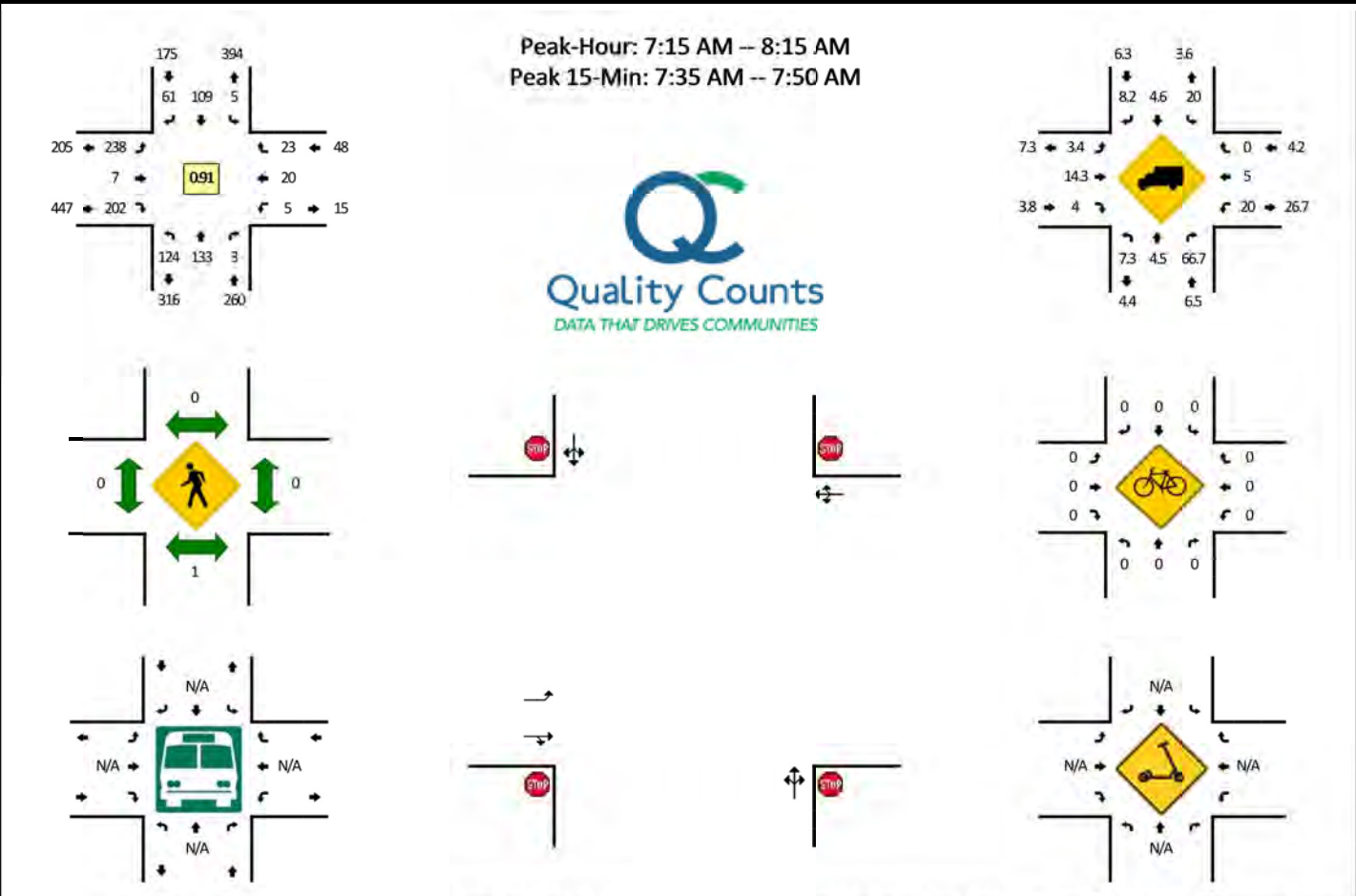
## Historical Traffic Counts





**LOCATION:** SW Murdock Rd/SW Baker Rd -- SW Sunset Blvd/McKinley Dr  
**CITY/STATE:** Sherwood, OR

**QC JOB #:** 14548501  
**DATE:** Wed, Oct 25 2017

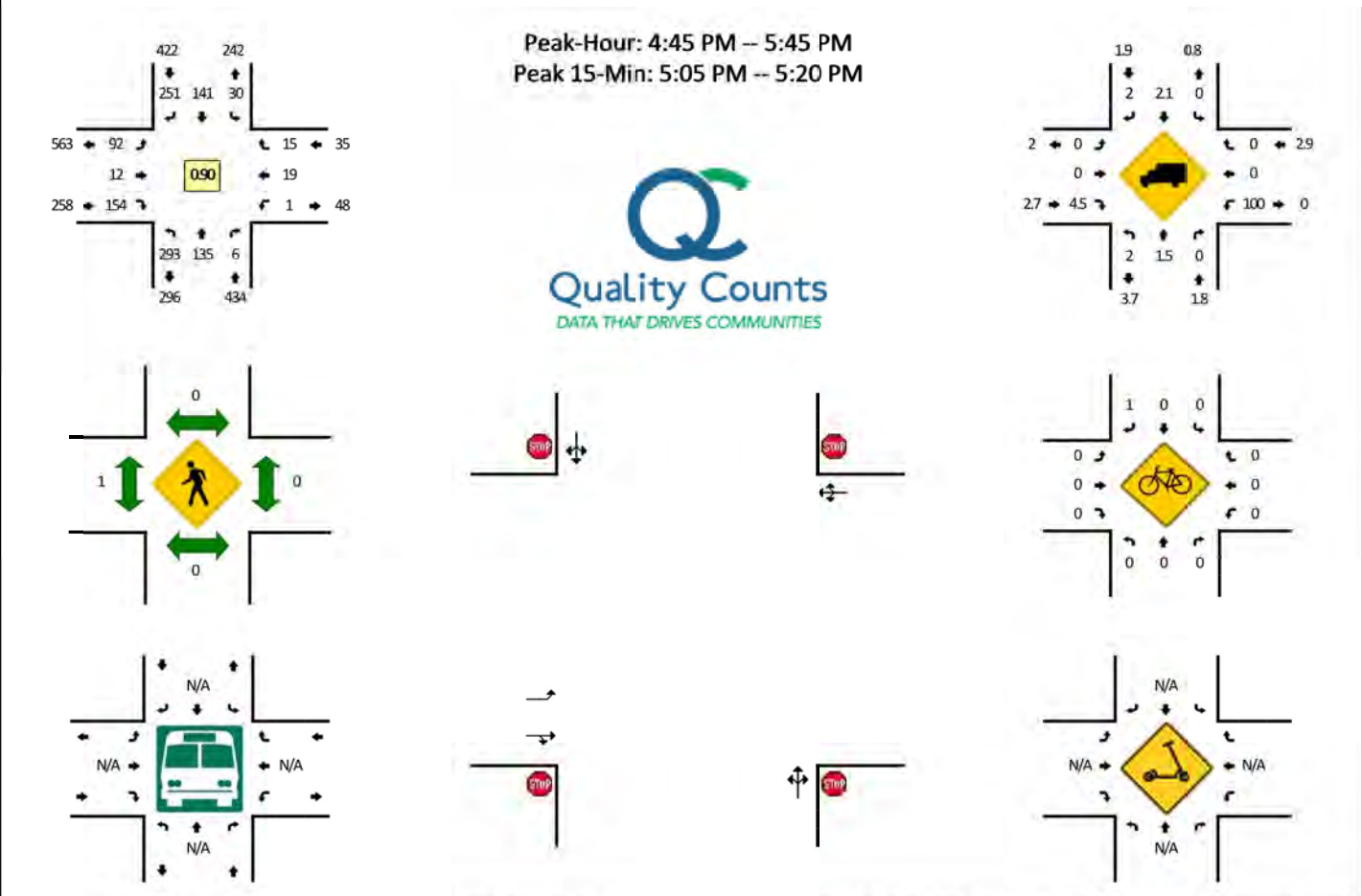


5-Min Count Period Beginning At	SW Murdock Rd/SW Baker Rd (Northbound)				SW Murdock Rd/SW Baker Rd (Southbound)				SW Sunset Blvd/McKinley Dr (Eastbound)				SW Sunset Blvd/McKinley Dr (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	14	5	0	0	0	8	6	0	22	0	8	0	0	0	1	0	64	
7:05 AM	10	9	0	0	0	5	3	0	18	0	9	0	0	0	4	0	58	
7:10 AM	11	6	0	0	1	6	3	0	17	0	11	0	0	0	2	0	57	
7:15 AM	12	8	0	0	0	6	5	0	15	1	16	0	0	1	3	0	67	
7:20 AM	20	10	1	0	0	6	6	0	22	0	20	0	0	2	1	0	88	
7:25 AM	8	12	2	0	0	5	5	0	17	0	18	0	1	4	4	0	76	
7:30 AM	12	7	0	0	1	9	2	0	23	1	16	0	2	0	1	0	74	
7:35 AM	11	14	0	0	0	11	7	0	24	1	22	0	0	6	2	0	98	
7:40 AM	13	8	0	0	0	12	1	0	20	0	17	0	1	2	1	0	75	
7:45 AM	13	14	0	0	0	13	7	0	17	0	13	0	0	3	3	0	83	
7:50 AM	10	19	0	0	0	10	8	0	19	1	10	0	1	0	5	0	83	
7:55 AM	5	12	0	0	2	7	7	0	17	0	18	0	0	0	2	0	70	893
8:00 AM	2	6	0	0	1	11	4	0	25	1	20	0	0	1	0	0	71	900
8:05 AM	11	11	0	0	0	7	7	0	24	1	20	0	0	1	0	0	82	924
8:10 AM	7	12	0	0	1	12	2	0	15	1	12	0	0	0	1	0	63	930
8:15 AM	8	11	0	0	0	8	3	0	11	2	14	0	0	1	3	0	61	924
8:20 AM	9	9	0	0	0	7	6	0	9	0	16	0	0	1	2	0	59	895
8:25 AM	5	7	0	0	0	5	9	0	13	1	7	0	0	1	1	0	49	868
8:30 AM	3	10	0	0	2	5	3	0	17	0	13	0	0	0	0	0	53	847
8:35 AM	1	5	0	0	1	4	4	0	12	0	9	0	0	0	1	0	37	786
8:40 AM	4	7	0	0	0	6	6	0	21	0	13	0	0	1	2	0	60	771
8:45 AM	8	8	0	0	1	10	3	0	13	0	8	0	0	2	2	0	55	743
8:50 AM	6	12	0	0	1	7	6	0	17	0	15	0	0	0	0	0	64	724
8:55 AM	6	6	0	0	0	5	3	0	12	1	8	0	0	1	0	0	42	696
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	148	144	0	0	0	144	60	0	244	4	208	0	4	44	24	0	1024	
Heavy Trucks	4	4	0	0	0	4	4	0	4	0	0	0	0	0	0	0	20	
Buses																		
Pedestrians		4				0				0				0			4	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Scoters																		

Comments:

LOCATION: SW Murdock Rd/SW Baker Rd -- SW Sunset Blvd/McKinley Dr  
 CITY/STATE: Sherwood, OR

QC JOB #: 14548502  
 DATE: Wed, Oct 25 2017

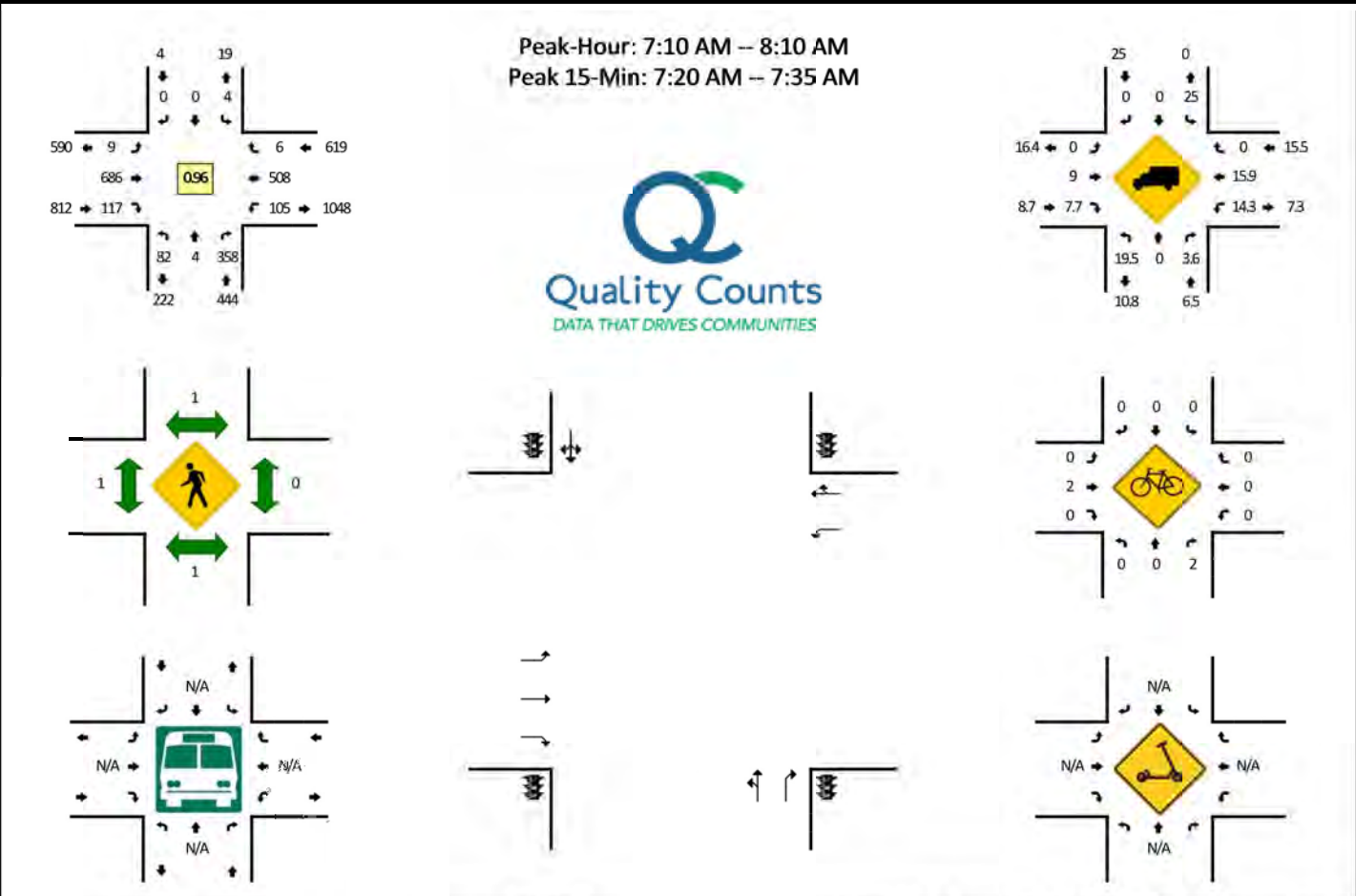


5-Min Count Period Beginning At	SW Murdock Rd/SW Baker Rd (Northbound)				SW Murdock Rd/SW Baker Rd (Southbound)				SW Sunset Blvd/McKinley Dr (Eastbound)				SW Sunset Blvd/McKinley Dr (Westbound)				Total	Hourly Totals	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
4:00 PM	16	9	0	0	1	8	14	0	10	0	10	0	0	2	1	0	0	71	
4:05 PM	13	11	0	0	2	10	17	0	8	2	12	0	0	0	0	0	0	75	
4:10 PM	16	11	0	0	4	11	18	0	4	3	9	0	0	0	0	0	0	76	
4:15 PM	21	6	0	0	3	8	16	0	9	0	7	0	0	1	0	0	0	71	
4:20 PM	14	7	1	0	1	15	23	0	8	0	9	0	0	0	1	0	0	79	
4:25 PM	24	6	1	0	1	5	12	0	7	1	2	0	0	0	0	0	0	59	
4:30 PM	19	12	0	0	1	13	10	0	6	0	16	0	0	1	0	0	0	78	
4:35 PM	14	8	0	0	1	14	18	0	7	0	13	0	0	0	0	0	0	75	
4:40 PM	24	11	1	0	1	11	16	0	2	0	10	0	0	0	0	0	0	76	
4:45 PM	25	13	0	0	0	17	28	0	12	0	9	0	0	2	1	0	0	107	
4:50 PM	26	12	0	0	2	11	27	0	6	1	17	0	0	2	3	0	0	107	
4:55 PM	25	14	1	0	3	8	26	0	11	1	10	0	0	1	2	0	0	102	976
5:00 PM	14	9	1	0	1	12	14	0	5	0	11	0	0	1	3	0	0	71	976
5:05 PM	25	13	0	0	5	11	19	0	9	1	17	0	0	2	0	0	0	102	1003
5:10 PM	34	14	1	0	5	14	15	0	6	2	16	0	1	4	0	0	0	112	1039
5:15 PM	19	14	0	0	5	14	22	0	9	0	16	0	0	2	3	0	0	104	1072
5:20 PM	29	4	1	0	0	6	20	0	4	3	10	0	0	1	1	0	0	79	1072
5:25 PM	27	6	0	0	5	14	17	0	10	2	14	0	0	0	0	0	0	95	1108
5:30 PM	20	12	1	0	2	12	21	0	9	0	16	0	0	1	2	0	0	96	1126
5:35 PM	23	10	1	0	1	9	20	0	5	1	7	0	0	1	0	0	0	78	1129
5:40 PM	26	14	0	0	1	13	22	0	6	1	11	0	0	2	0	0	0	96	1149
5:45 PM	21	11	0	0	0	15	16	0	6	0	10	0	0	0	2	0	0	81	1123
5:50 PM	20	7	0	0	3	8	16	0	9	2	10	0	0	0	0	0	0	75	1091
5:55 PM	15	9	0	0	2	9	20	0	6	1	8	0	0	0	2	0	0	72	1061
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total		
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
All Vehicles	312	164	4	0	60	156	224	0	96	12	196	0	4	32	12	0	0	1272	
Heavy Trucks	8	0	0	0	0	8	0	0	0	0	8	0	4	0	0	0	0	28	
Buses																			
Pedestrians		0				0				0				0				0	
Bicycles	0	0	0		0	0	4		0	0	0		0	0	0			4	
Scoters																			

Comments:

**LOCATION:** Oregon St -- Tualatin-Sherwood Rd  
**CITY/STATE:** Washington, OR

**QC JOB #:** 14898001  
**DATE:** Wed, Feb 13 2019

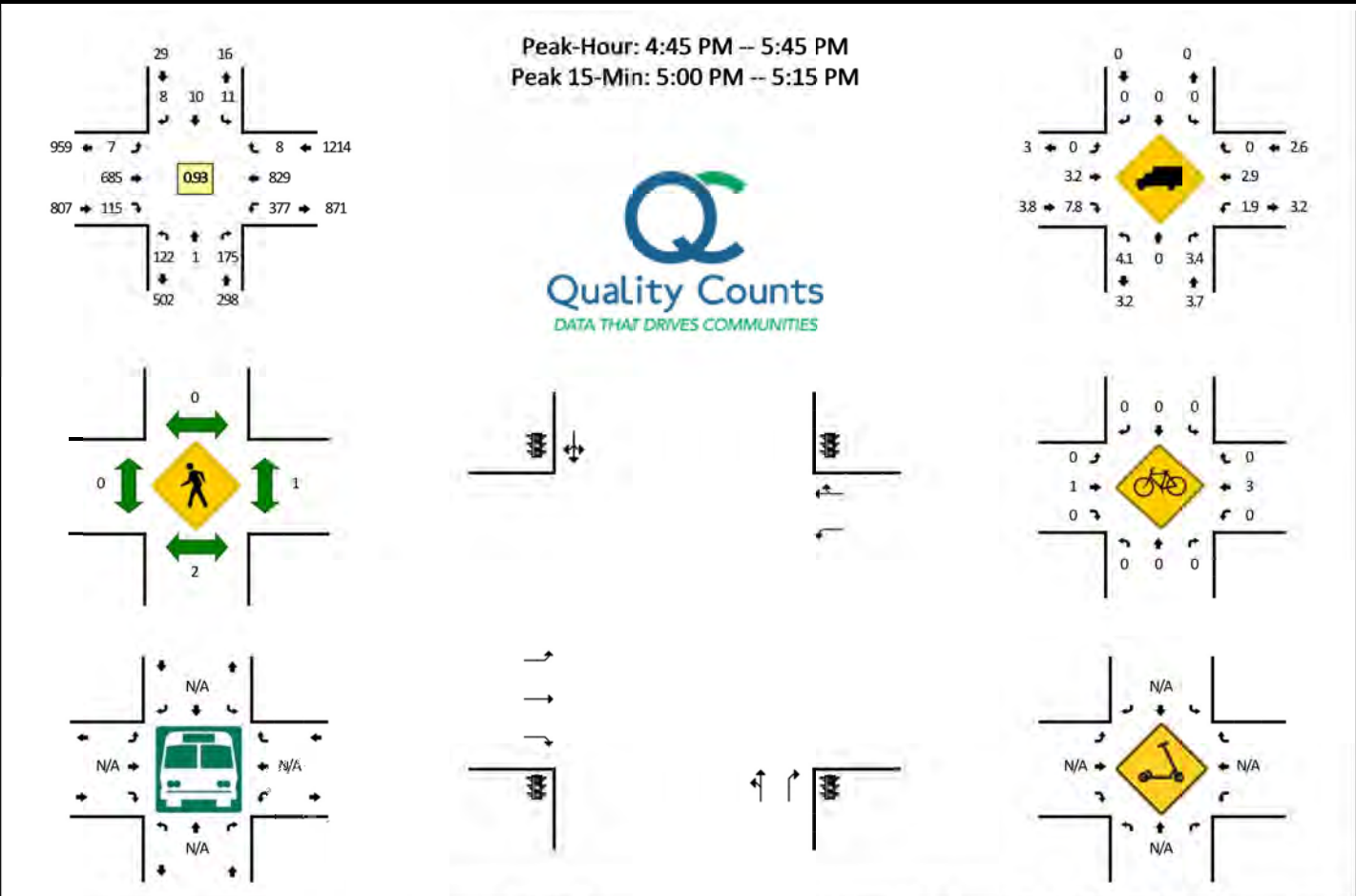


5-Min Count Period Beginning At	Oregon St (Northbound)				Oregon St (Southbound)				Tualatin-Sherwood Rd (Eastbound)				Tualatin-Sherwood Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	4	0	35	0	0	0	0	0	0	73	9	0	9	37	0	0	167	
7:05 AM	9	0	37	0	0	0	1	0	0	45	5	0	8	37	0	0	142	
7:10 AM	2	0	24	0	1	0	0	0	1	69	9	0	1	42	0	0	149	
7:15 AM	7	1	45	0	0	0	0	0	0	47	10	0	10	29	0	0	149	
7:20 AM	5	0	34	0	0	0	0	0	2	60	7	0	12	35	0	0	155	
7:25 AM	9	1	17	0	0	0	0	0	0	61	13	0	10	60	0	0	171	
7:30 AM	5	0	25	0	1	0	0	0	0	63	18	0	8	45	0	0	165	
7:35 AM	9	0	29	0	0	0	0	0	0	43	11	0	9	32	0	0	133	
7:40 AM	6	0	29	0	0	0	0	0	0	64	4	0	5	41	2	0	151	
7:45 AM	7	0	27	0	0	0	0	0	2	44	13	0	13	50	0	0	156	
7:50 AM	8	0	33	0	0	0	0	0	2	61	5	0	11	44	1	0	165	
7:55 AM	8	1	33	0	0	0	0	0	1	62	7	0	10	39	0	0	161	1864
8:00 AM	11	1	28	0	0	0	0	0	0	58	12	0	6	42	3	0	161	1858
8:05 AM	5	0	34	0	2	0	0	0	1	54	8	0	10	49	0	0	163	1879
8:10 AM	8	0	22	0	0	0	0	0	0	62	6	0	3	40	0	0	141	1871
8:15 AM	3	0	27	0	1	0	0	0	0	44	13	0	12	48	0	0	148	1870
8:20 AM	7	0	16	0	0	0	0	0	0	62	12	0	3	39	1	0	140	1855
8:25 AM	8	0	19	0	1	0	0	0	0	60	10	0	16	34	4	0	152	1836
8:30 AM	5	0	24	0	0	1	0	0	0	54	8	0	15	44	1	0	152	1823
8:35 AM	7	1	21	0	0	0	0	0	0	62	7	0	8	41	0	0	147	1837
8:40 AM	12	0	18	0	0	0	0	0	0	56	5	0	7	54	2	0	154	1840
8:45 AM	6	0	39	0	0	0	0	0	1	53	8	0	8	43	0	0	158	1842
8:50 AM	6	0	24	0	0	0	0	0	0	45	4	0	11	42	1	0	133	1810
8:55 AM	8	1	8	0	0	0	0	0	1	58	1	0	7	43	1	0	128	1777
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	76	4	304	0	4	0	0	0	8	736	152	0	120	560	0	0	1964	
Heavy Trucks	12	0	8		4	0	0		0	72	20		16	88	0		220	
Buses																		
Pedestrians		0				4				4				0			8	
Bicycles	0	0	4		0	0	0		0	4	0		0	0	0		8	
Scoters																		

Comments:

LOCATION: Oregon St -- Tualatin-Sherwood Rd  
 CITY/STATE: Washington, OR

QC JOB #: 14898002  
 DATE: Wed, Feb 13 2019

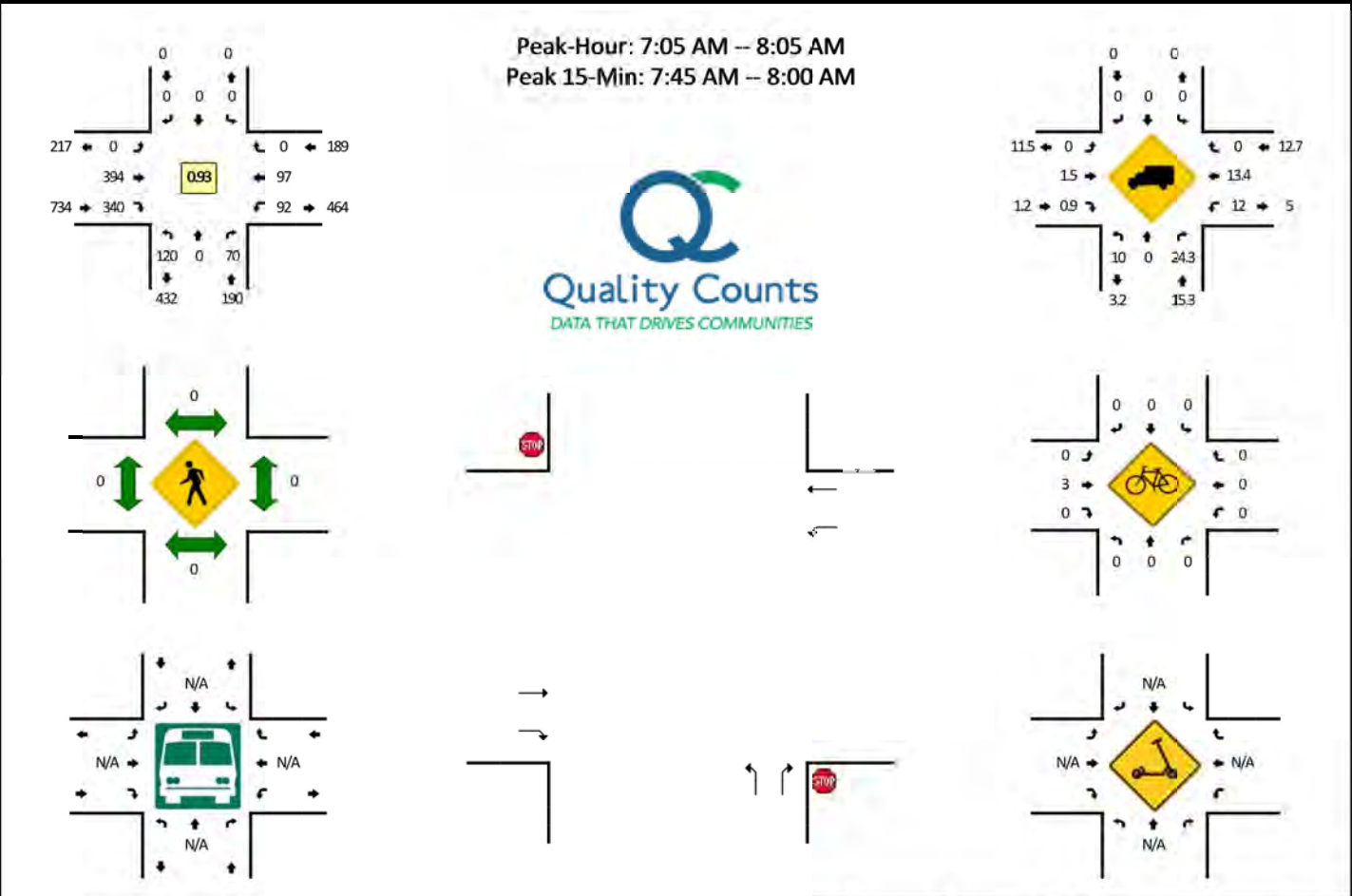


5-Min Count Period Beginning At	Oregon St (Northbound)				Oregon St (Southbound)				Tualatin-Sherwood Rd (Eastbound)				Tualatin-Sherwood Rd (Westbound)				Total	Hourly Totals	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
4:00 PM	5	0	11	0	0	0	1	0	0	0	62	11	0	25	70	0	0	185	
4:05 PM	12	0	15	0	0	1	0	0	0	0	58	11	0	20	55	0	0	172	
4:10 PM	12	0	22	0	3	1	0	0	0	0	49	8	0	29	65	0	0	189	
4:15 PM	6	0	7	0	2	0	0	0	0	1	64	7	0	24	63	0	0	174	
4:20 PM	9	0	14	0	1	0	0	0	0	0	42	13	0	29	68	0	0	176	
4:25 PM	6	1	9	0	0	1	2	0	0	0	43	11	0	26	62	2	0	163	
4:30 PM	6	0	7	0	1	0	0	0	0	0	57	9	0	33	78	0	0	191	
4:35 PM	11	0	12	0	0	0	0	0	0	0	62	13	0	22	55	0	0	175	
4:40 PM	6	1	13	0	1	0	1	0	0	1	46	9	0	36	77	0	0	191	
4:45 PM	12	0	20	0	1	0	0	0	0	0	46	11	0	25	64	1	0	180	
4:50 PM	13	0	8	0	1	0	0	0	0	0	54	12	0	31	70	0	0	189	
4:55 PM	13	0	14	0	1	1	0	0	0	0	58	7	0	29	61	0	0	184	2169
5:00 PM	5	0	12	0	4	2	0	0	0	0	64	12	0	28	67	0	0	194	2178
5:05 PM	10	0	23	0	0	1	1	0	0	0	74	17	0	27	62	2	0	217	2223
5:10 PM	10	0	22	0	3	4	2	0	0	1	68	9	0	28	74	1	0	222	2256
5:15 PM	10	0	19	0	0	0	1	0	0	1	58	7	0	32	59	0	0	187	2269
5:20 PM	8	0	11	0	0	0	1	0	0	0	52	9	0	37	79	1	0	198	2291
5:25 PM	9	0	8	0	0	0	0	0	0	1	50	9	0	31	76	0	0	184	2312
5:30 PM	10	1	15	0	1	2	1	0	0	1	50	12	0	35	66	3	0	197	2318
5:35 PM	16	0	11	0	0	0	1	0	0	1	54	7	0	34	69	0	0	193	2336
5:40 PM	6	0	12	0	0	0	1	0	0	2	57	3	0	40	82	0	0	203	2348
5:45 PM	5	0	13	0	0	0	0	0	0	0	46	6	0	32	66	1	0	169	2337
5:50 PM	11	0	13	0	1	0	0	0	0	0	45	4	0	27	64	1	0	166	2314
5:55 PM	7	0	14	0	1	0	0	0	0	1	52	6	0	17	74	1	0	173	2303
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total		
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U			
All Vehicles	100	0	228	0	28	28	12	0	4	824	152	0	332	812	12	0	2532		
Heavy Trucks	4	0	8		0	0	0		0	40	20		4	8	0		84		
Buses																	0		
Pedestrians		0				0				0				0			0		
Bicycles	0	0	0		0	0	0		0	4	0		0	0	0		4		
Scoters																			

Comments:

**LOCATION:** Tonquin Rd -- Oregon St  
**CITY/STATE:** Washington, OR

**QC JOB #:** 14898023  
**DATE:** Wed, Feb 13 2019

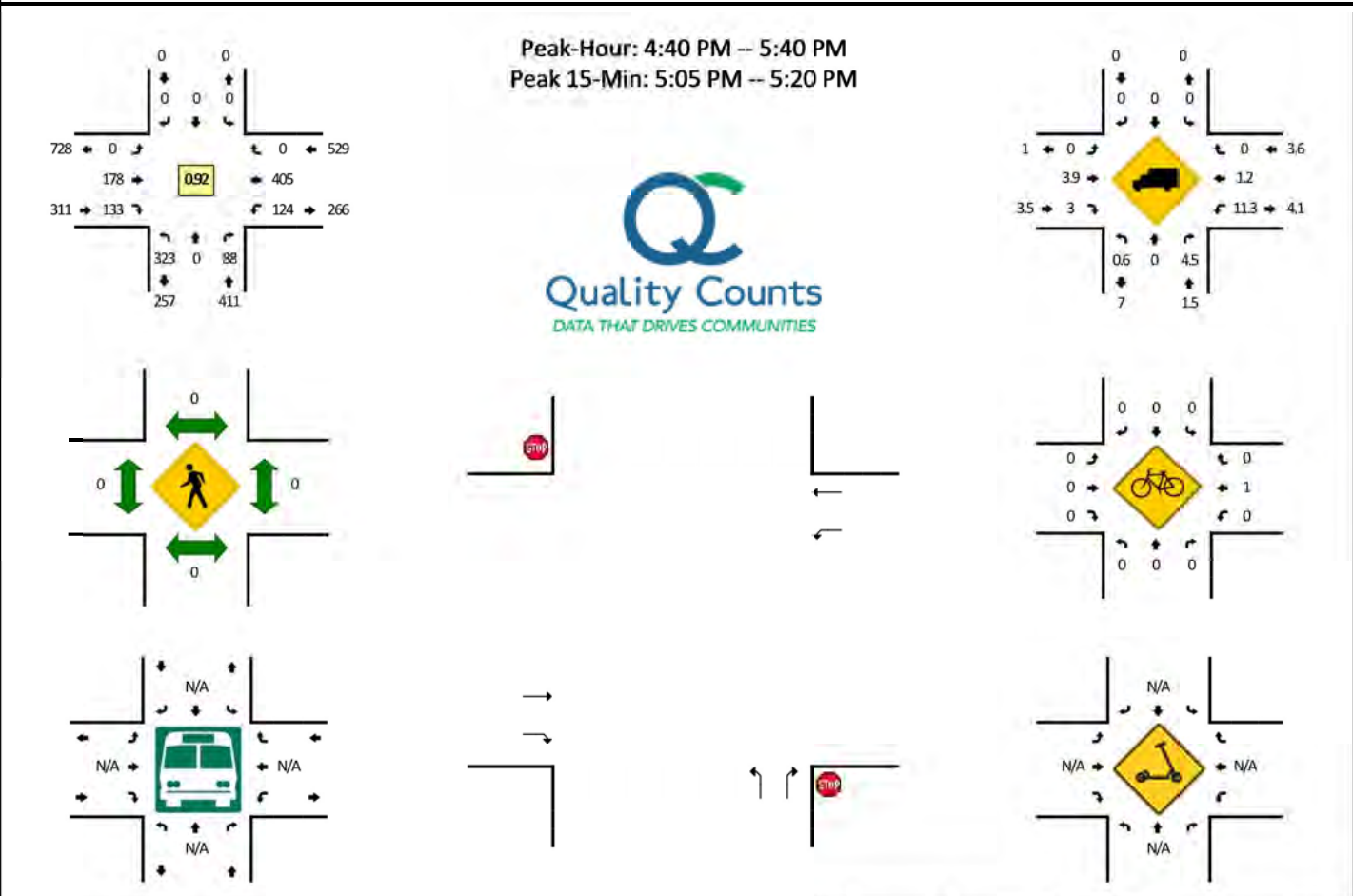


5-Min Count Period Beginning At	Tonquin Rd (Northbound)				Tonquin Rd (Southbound)				Oregon St (Eastbound)				Oregon St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	0	6	0	0	0	0	0	0	36	25	0	6	4	0	0	80	
7:05 AM	9	0	7	0	0	0	0	0	0	30	23	0	9	5	0	0	83	
7:10 AM	8	0	3	0	0	0	0	0	0	37	27	0	5	4	0	0	84	
7:15 AM	9	0	7	0	0	0	0	0	0	40	24	0	10	6	0	0	96	
7:20 AM	11	0	5	0	0	0	0	0	0	26	33	0	9	6	0	0	90	
7:25 AM	13	0	3	0	0	0	0	0	0	29	35	0	10	14	0	0	104	
7:30 AM	12	0	7	0	0	0	0	0	0	31	24	0	14	8	0	0	96	
7:35 AM	5	0	2	0	0	0	0	0	0	25	36	0	8	7	0	0	83	
7:40 AM	7	0	7	0	0	0	0	0	0	28	25	0	6	7	0	0	80	
7:45 AM	18	0	8	0	0	0	0	0	0	36	25	0	10	12	0	0	109	
7:50 AM	5	0	7	0	0	0	0	0	0	39	24	0	4	10	0	0	89	
7:55 AM	13	0	9	0	0	0	0	0	0	43	27	0	1	9	0	0	102	1096
8:00 AM	10	0	5	0	0	0	0	0	0	30	37	0	6	9	0	0	97	1113
8:05 AM	10	0	5	0	0	0	0	0	0	25	17	0	11	6	0	0	74	1104
8:10 AM	5	0	9	0	0	0	0	0	0	26	13	0	7	4	0	0	64	1084
8:15 AM	7	0	7	0	0	0	0	0	0	22	11	0	11	7	0	0	65	1053
8:20 AM	11	0	4	0	0	0	0	0	0	19	21	0	7	12	0	0	74	1037
8:25 AM	5	0	5	0	0	0	0	0	0	28	11	0	6	14	0	0	69	1002
8:30 AM	7	0	5	0	0	0	0	0	0	19	16	0	11	14	0	0	72	978
8:35 AM	8	0	6	0	0	0	0	0	0	21	8	0	3	11	0	0	57	952
8:40 AM	4	0	10	0	0	0	0	0	0	30	10	0	7	7	0	0	68	940
8:45 AM	13	0	6	0	0	0	0	0	0	31	11	0	5	9	0	0	75	906
8:50 AM	8	0	7	0	0	0	0	0	0	22	9	0	4	9	0	0	59	876
8:55 AM	9	0	7	0	0	0	0	0	0	10	2	0	0	10	0	1	39	813
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
All Vehicles	144	0	96	0	0	0	0	0	0	472	304	0	60	124	0	0	1200	
Heavy Trucks	16	0	32	0	0	0	0	0	0	4	4	0	4	16	0	0	76	
Buses																	0	
Pedestrians		0				0				0				0			0	
Bicycles	0	0	0		0	0	0		0	4	0		0	0	0		4	
Scoters																		

Comments:

**LOCATION:** Tonquin Rd -- Oregon St  
**CITY/STATE:** Washington, OR

**QC JOB #:** 14898024  
**DATE:** Wed, Feb 13 2019

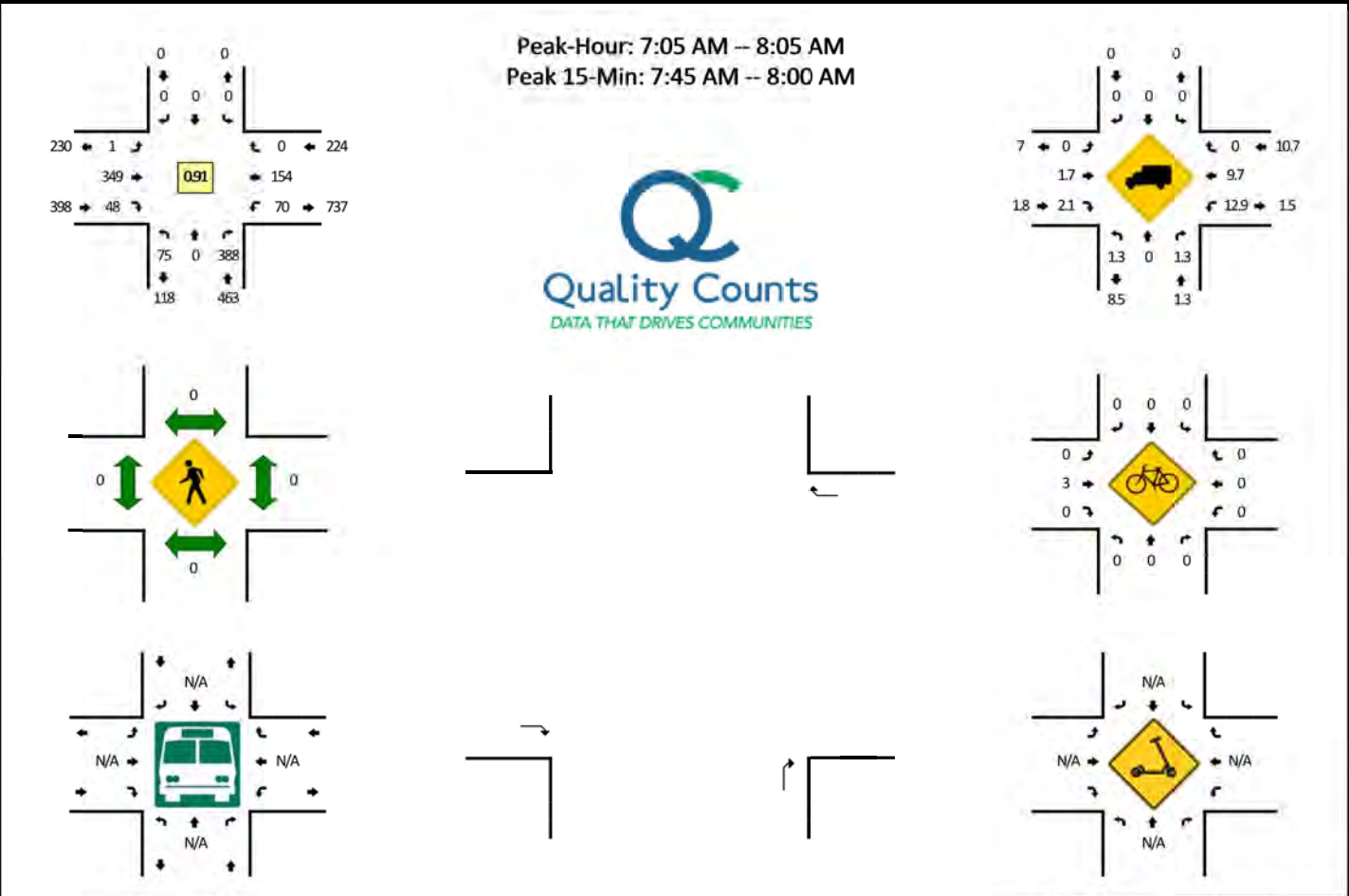


5-Min Count Period Beginning At	Tonquin Rd (Northbound)				Tonquin Rd (Southbound)				Oregon St (Eastbound)				Oregon St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	21	0	9	0	0	0	0	0	0	10	13	0	13	24	0	0	90	
4:05 PM	20	0	7	0	0	0	0	0	0	13	10	0	10	28	0	0	88	
4:10 PM	25	0	7	0	0	0	0	0	0	19	10	0	10	28	0	0	99	
4:15 PM	21	0	7	0	0	0	0	0	0	12	11	0	11	23	0	0	85	
4:20 PM	31	0	6	0	0	0	0	0	0	8	8	0	10	34	0	0	97	
4:25 PM	31	0	4	0	0	0	0	0	0	12	16	0	9	20	0	0	92	
4:30 PM	25	0	10	0	0	0	0	0	0	7	14	0	12	30	0	0	98	
4:35 PM	23	0	5	0	0	0	0	0	0	16	18	0	6	26	0	0	94	
4:40 PM	16	0	8	0	0	0	0	0	0	14	12	0	7	44	0	0	101	
4:45 PM	26	0	4	0	0	0	0	0	0	10	8	0	11	31	0	0	90	
4:50 PM	42	0	9	0	0	0	0	0	0	13	10	0	10	23	0	0	107	
4:55 PM	23	0	13	0	0	0	0	0	0	10	9	0	10	34	0	0	99	1140
5:00 PM	27	0	2	0	0	0	0	0	0	17	5	0	13	29	0	0	93	1143
5:05 PM	19	0	7	0	0	0	0	0	0	23	16	0	17	28	0	0	110	1165
5:10 PM	25	0	8	0	0	0	0	0	0	24	8	0	15	44	0	0	124	1190
5:15 PM	35	0	7	0	0	0	0	0	0	12	12	0	8	31	0	0	105	1210
5:20 PM	27	0	9	0	0	0	0	0	0	14	15	0	7	32	0	0	104	1217
5:25 PM	26	0	4	0	0	0	0	0	0	10	8	0	10	37	0	0	95	1220
5:30 PM	24	0	8	0	0	0	0	0	0	17	18	0	10	34	0	0	111	1233
5:35 PM	33	0	9	0	0	0	0	0	0	14	12	0	6	38	0	0	112	1251
5:40 PM	26	0	3	0	0	0	0	0	0	15	11	0	2	38	0	0	95	1245
5:45 PM	14	0	5	0	0	0	0	0	0	13	7	0	6	38	0	0	83	1238
5:50 PM	24	0	9	0	0	0	0	0	0	16	7	0	2	27	0	0	85	1216
5:55 PM	25	0	5	0	0	0	0	0	0	15	11	0	9	22	0	0	87	1204
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	316	0	88	0	0	0	0	0	0	236	144	0	160	412	0	0	1356	
Heavy Trucks	0	0	4		0	0	0		0	0	4		12	4	0		24	
Buses																		
Pedestrians		0				0				0				0			0	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Scoters																		

Comments:

**LOCATION:** Murdock Rd -- Oregon St  
**CITY/STATE:** Washington, OR

**QC JOB #:** 14898025  
**DATE:** Wed, Feb 13 2019

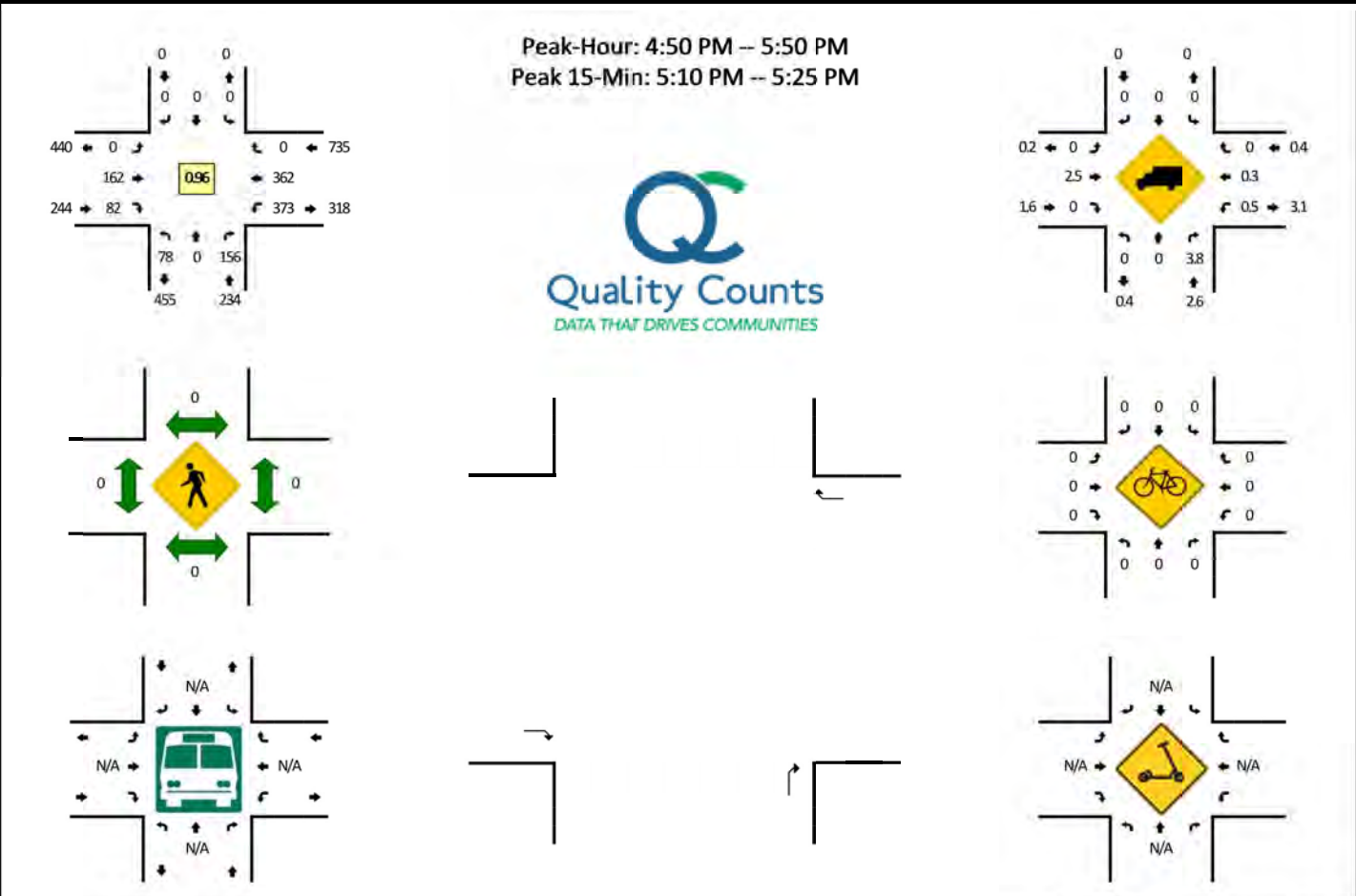


5-Min Count Period Beginning At	Murdock Rd (Northbound)				Murdock Rd (Southbound)				Oregon St (Eastbound)				Oregon St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	0	35	0	0	0	0	0	0	29	2	0	4	4	0	0	77	
7:05 AM	4	0	29	0	0	0	0	0	0	21	2	0	3	10	0	0	69	
7:10 AM	3	0	38	0	0	0	0	0	0	27	5	0	4	9	0	0	86	
7:15 AM	3	0	38	0	0	0	0	0	0	26	3	0	3	11	0	0	84	
7:20 AM	6	0	27	0	0	0	0	0	0	32	2	0	3	15	0	0	85	
7:25 AM	6	0	31	0	0	0	0	0	0	36	2	0	13	15	0	0	103	
7:30 AM	12	0	32	0	0	0	0	0	0	24	4	0	6	19	0	0	97	
7:35 AM	14	0	26	0	0	0	0	0	0	33	5	0	6	7	0	0	91	
7:40 AM	7	0	30	0	0	0	0	0	0	25	5	0	1	12	0	0	80	
7:45 AM	6	0	29	0	0	0	0	0	0	32	5	0	8	19	0	0	99	
7:50 AM	3	0	35	0	0	0	0	0	0	27	7	1	6	14	0	0	93	
7:55 AM	4	0	40	0	0	0	0	0	0	34	7	0	9	11	0	0	105	1069
8:00 AM	7	0	33	0	0	0	0	0	0	32	1	0	8	12	0	0	93	1085
8:05 AM	1	0	22	0	0	0	0	0	0	19	5	0	8	9	0	0	64	1080
8:10 AM	1	0	26	0	0	0	0	0	0	11	7	0	4	5	0	0	54	1048
8:15 AM	1	0	17	0	0	0	0	0	0	16	1	0	7	6	0	0	48	1012
8:20 AM	2	0	19	0	0	0	0	0	0	22	3	0	10	12	0	0	68	995
8:25 AM	7	0	25	0	0	0	0	0	0	13	1	0	11	9	0	0	66	958
8:30 AM	1	0	21	0	0	0	0	0	0	13	4	0	12	7	0	1	59	920
8:35 AM	5	0	18	0	0	0	0	0	0	10	2	0	13	6	0	0	54	883
8:40 AM	4	0	25	1	0	0	0	0	0	15	5	0	5	9	0	0	64	867
8:45 AM	2	0	30	0	0	0	0	0	0	11	2	0	12	10	0	0	67	835
8:50 AM	2	0	21	0	0	0	0	0	0	10	1	0	8	9	0	0	51	793
8:55 AM	8	0	8	0	0	0	0	0	0	2	2	0	8	10	0	0	38	726
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	52	0	416	0	0	0	0	0	0	372	76	4	92	176	0	0	1188	
Heavy Trucks	4	0	4		0	0	0		0	4	4		16	16	0		48	
Buses																		
Pedestrians		0				0				0				0			0	
Bicycles	0	0	0		0	0	0		0	4	0		0	0	0		4	
Scoters																		

Comments:

**LOCATION:** Murdock Rd -- Oregon St  
**CITY/STATE:** Washington, OR

**QC JOB #:** 14898026  
**DATE:** Wed, Feb 13 2019



5-Min Count Period Beginning At	Murdock Rd (Northbound)				Murdock Rd (Southbound)				Oregon St (Eastbound)				Oregon St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	6	0	12	0	0	0	0	0	0	10	4	0	27	21	0	0	80	
4:05 PM	4	0	12	0	0	0	0	0	0	10	5	0	13	34	0	0	78	
4:10 PM	1	0	17	0	0	0	0	0	0	12	2	0	32	22	0	0	86	
4:15 PM	3	0	14	0	0	0	0	0	0	9	13	0	28	17	0	0	84	
4:20 PM	5	0	8	0	0	0	0	0	0	8	17	0	30	34	0	0	102	
4:25 PM	3	0	11	0	0	0	0	0	0	17	9	0	23	31	0	0	94	
4:30 PM	1	0	12	0	0	0	0	0	0	10	8	0	31	24	0	0	86	
4:35 PM	2	0	13	0	0	0	0	0	0	19	4	0	21	30	0	0	89	
4:40 PM	5	0	10	0	0	0	0	0	0	16	11	0	32	25	0	0	99	
4:45 PM	7	0	10	0	0	0	0	0	0	8	6	0	27	32	0	0	90	
4:50 PM	5	0	14	0	0	0	0	0	0	11	5	0	30	40	0	0	105	
4:55 PM	10	0	10	0	0	0	0	0	0	7	8	0	28	28	0	0	91	1084
5:00 PM	18	0	14	0	0	0	0	0	0	8	9	0	25	34	0	0	108	1112
5:05 PM	4	0	17	0	0	0	0	0	0	21	4	0	23	21	0	0	90	1124
5:10 PM	9	0	14	0	0	0	0	0	0	18	5	0	38	32	0	0	116	1154
5:15 PM	2	0	7	0	0	0	0	0	0	21	10	0	36	31	0	0	107	1177
5:20 PM	4	0	15	0	0	0	0	0	0	13	7	0	29	26	0	0	94	1169
5:25 PM	5	0	7	0	0	0	0	0	0	13	3	0	31	34	0	0	93	1168
5:30 PM	10	0	16	0	0	0	0	0	0	16	8	0	32	28	0	0	110	1192
5:35 PM	7	0	14	0	0	0	0	0	0	11	5	0	37	34	0	0	108	1211
5:40 PM	0	0	10	0	0	0	0	0	0	15	6	0	34	28	0	0	93	1205
5:45 PM	4	0	18	0	0	0	0	0	0	8	12	0	30	26	0	0	98	1213
5:50 PM	1	0	17	0	0	0	0	0	0	7	3	0	22	26	0	0	76	1184
5:55 PM	3	0	10	0	0	0	0	0	0	17	11	0	21	30	0	0	92	1185
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total	
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	60	0	144	0	0	0	0	0	0	208	88	0	412	356	0	0	1268	
Heavy Trucks	0	0	4		0	0	0		0	12	0		4	0	0		20	
Buses																		
Pedestrians		0				0				0				0			0	
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0	
Scoters																		

Comments:



# Appendix E

## ODOT Crash Data Reports



1. Oregon & T-S Road

CRASH_I D	INT_ID	SER_NO	C	INVSTG_AGY CRASH_SPEE				V_LV_FLG	V_LV_FLG	V_FLG	NE_IND	NE_IND	WRK_ZO	SCHL_ZO	LANE_RDWY	UNLOCT	CRASH_DT	CRASH_W	CRASH_HR	CRASH_SHORT_DES	CNTY_NM	CITY_SECT	URB_AREA_SHOR	T_NM	HWY_NO	HWY_MED_NM	RDWY_N	FC_CD	HWY_COMPN				MP_NO	ST_NO	
				SHORT_DES	D_INVLV_FL	ALCHL_IN	DRUG_IN																						MJ_INVL	DRPT	CRASH	FLG			K_DAY
1691851	1	2711	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/25/2016	2	10A	Washington	Sherwood	PORTLAND UA							14							1803
1691851	1	2711	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/25/2016	2	10A	Washington	Sherwood	PORTLAND UA							14							1803
1754728	1	2711	CITY		0	0		0	0	0	0	0	N	N	FALSE	5/9/2017	3	1P	Washington	Sherwood	PORTLAND UA							14							1803
1754728	1	2711	CITY		0	0		0	0	0	0	0	N	N	FALSE	5/9/2017	3	1P	Washington	Sherwood	PORTLAND UA							14							1803
1581026	1	3076	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/2/2014	2	7A	Washington	Sherwood	PORTLAND UA							16							1803
1581026	1	3076	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/2/2014	2	7A	Washington	Sherwood	PORTLAND UA							16							1803
1581026	1	3076	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/2/2014	2	7A	Washington	Sherwood	PORTLAND UA							16							1803
1607638	1	2209	NO RPT		0	0		0	0	0	0	0	N	N	FALSE	4/25/2015	7	3P	Washington	Sherwood	PORTLAND UA							14							1803
1607638	1	2209	NO RPT		0	0		0	0	0	0	0	N	N	FALSE	4/25/2015	7	3P	Washington	Sherwood	PORTLAND UA							14							1803
1607638	1	2209	NO RPT		0	0		0	0	0	0	0	N	N	FALSE	4/25/2015	7	3P	Washington	Sherwood	PORTLAND UA							14							1803
1672996	1	5457	CITY		0	1		0	0	0	0	0	N	N	FALSE	8/16/2016	3	8P	Washington	Sherwood	PORTLAND UA							14							1803
1672996	1	5457	CITY		0	1		0	0	0	0	0	N	N	FALSE	8/16/2016	3	8P	Washington	Sherwood	PORTLAND UA							14							1803
1672996	1	5457	CITY		0	1		0	0	0	0	0	N	N	FALSE	8/16/2016	3	8P	Washington	Sherwood	PORTLAND UA							14							1803
1703674	1	8530	NO RPT		0	0		0	0	0	0	0	N	N	FALSE	12/12/2016	2	1P	Washington	Sherwood	PORTLAND UA							14							1803
1703674	1	8530	NO RPT		0	0		0	0	0	0	0	N	N	FALSE	12/12/2016	2	1P	Washington	Sherwood	PORTLAND UA							14							1803
1728663	1	1714	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/26/2017	1	4P	Washington	Sherwood	PORTLAND UA							14							1803
1728663	1	1714	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/26/2017	1	4P	Washington	Sherwood	PORTLAND UA							14							1803
1728663	1	1714	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/26/2017	1	4P	Washington	Sherwood	PORTLAND UA							14							1803
1775496	1	16	CITY		0	0		0	0	0	0	0	N	N	FALSE	1/2/2018	3	4P	Washington	Sherwood	PORTLAND UA							14							1803
1775496	1	16	CITY		0	0		0	0	0	0	0	N	N	FALSE	1/2/2018	3	4P	Washington	Sherwood	PORTLAND UA							14							1803
1823757	1	7005	NONE		0	0		0	0	0	0	0	N	N	FALSE	12/20/2018	5	3P	Washington	Sherwood	PORTLAND UA							14							1803
1823757	1	7005	NONE		0	0		0	0	0	0	0	N	N	FALSE	12/20/2018	5	3P	Washington	Sherwood	PORTLAND UA							14							1803
1631883	1	979	CITY		0	1		0	0	0	0	0	N	N	FALSE	2/22/2015	1	9A	Washington	Sherwood	PORTLAND UA							16							1803
1631883	1	979	CITY		0	1		0	0	0	0	0	N	N	FALSE	2/22/2015	1	9A	Washington	Sherwood	PORTLAND UA							16							1803
1638135	1	4231	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/27/2015	2	7A	Washington	Sherwood	PORTLAND UA							16							1803
1638135	1	4231	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/27/2015	2	7A	Washington	Sherwood	PORTLAND UA							16							1803
1564629	1	1514	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/16/2014	1	1P	Washington	Sherwood	PORTLAND UA							16							1803
1564629	1	1514	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/16/2014	1	1P	Washington	Sherwood	PORTLAND UA							16							1803
1663251	1	2295	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/7/2016	5	8A	Washington	Sherwood	PORTLAND UA							14							1803
1663251	1	2295	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/7/2016	5	8A	Washington	Sherwood	PORTLAND UA							14							1803
1683918	1	8136	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/28/2016	2	8A	Washington	Sherwood	PORTLAND UA							14							1803
1683918	1	8136	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/28/2016	2	8A	Washington	Sherwood	PORTLAND UA							14							1803
1683918	1	8136	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/28/2016	2	8A	Washington	Sherwood	PORTLAND UA							14							1803
1718173	1	1296	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/7/2017	3	2P	Washington	Sherwood	PORTLAND UA							14							1803
1718173	1	1296	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/7/2017	3	2P	Washington	Sherwood	PORTLAND UA							14							1803
1718173	1	1296	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/7/2017	3	2P	Washington	Sherwood	PORTLAND UA							14							1803
1718173	1	1296	CITY		0	0		0	0	0	0	0	N	N	FALSE	3/7/2017	3	2P	Washington	Sherwood	PORTLAND UA							14							1803
1731308	1	3293	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/4/2017	1	6P	Washington	Sherwood	PORTLAND UA							14							1803
1731308	1	3293	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/4/2017	1	6P	Washington	Sherwood	PORTLAND UA							14							1803
1731308	1	3293	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/4/2017	1	6P	Washington	Sherwood	PORTLAND UA							14							1803
1751521	1	992	NONE		0	0		0	0	0	0	0	N	N	FALSE	2/21/2017	3	UNK	Washington	Sherwood	PORTLAND UA							14							1803
1751521	1	992	NONE		0	0		0	0	0	0	0	N	N	FALSE	2/21/2017	3	UNK	Washington	Sherwood	PORTLAND UA							14							1803
1753303	1	2036	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/10/2017	2	1P	Washington	Sherwood	PORTLAND UA							14							1803
1753303	1	2036	CITY		0	0		0	0	0	0	0	N	N	FALSE	4/10/2017	2	1P	Washington	Sherwood	PORTLAND UA							14							1803
1594407	1	7059	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/22/2014	7	5P	Washington	Sherwood	PORTLAND UA							16							1803
1594407	1	7059	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/22/2014	7	5P	Washington	Sherwood	PORTLAND UA							16							1803
1594407	1	7059	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/22/2014	7	5P	Washington	Sherwood	PORTLAND UA							16							1803
1594407	1	7059	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/22/2014	7	5P	Washington	Sherwood	PORTLAND UA							16							1803
1594407	1	7059	CITY		0	0		0	0	0	0	0	N	N	FALSE	11/22/2014	7	5P	Washington	Sherwood	PORTLAND UA							16							1803
1610852	1	3704	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/3/2015	6	9P	Washington	Sherwood	PORTLAND UA							14							1803
1610852	1	3704	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/3/2015	6	9P	Washington	Sherwood	PORTLAND UA							14							1803
1610852	1	3704	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/3/2015	6	9P	Washington	Sherwood	PORTLAND UA							14							1803
1610852	1	3704	CITY		0	0		0	0	0	0	0	N	N	FALSE	7/3/2015	6	9P	Washington	Sherwood	PORTLAND UA							14							1803
1626358	1	3372	CITY		0	0		0	0	0	0	0	N	N	FALSE	6/18/2015	5	7A	Washington	Sherwood	PORTLAND UA							14							1803
1626358	1	3372	CITY		0	0		0	0	0	0	0	N</																						





1. Oregon & T-S Road

1692309	1	3478	CITY	0	0	0	0	0	N	FALSE	5/27/2016	6	11A	Washington	Sherwood	PORTLAND UA											14										1803
1751172	1	714	NO RPT	0	0	0	0	0	N	FALSE	2/7/2017	3	3P	Washington	Sherwood	PORTLAND UA												14									1803
1751730	1	1044	NONE	0	0	0	0	0	N	FALSE	2/7/2017	3	3P	Washington	Sherwood	PORTLAND UA											14									1803	
1751730	1	1044	NONE	0	0	0	0	0	N	FALSE	2/23/2017	5	10A	Washington	Sherwood	PORTLAND UA											14									1803	
1751730	1	1044	NONE	0	0	0	0	0	N	FALSE	2/23/2017	5	10A	Washington	Sherwood	PORTLAND UA											14									1803	
1761083	1	6584	NONE	0	0	0	0	0	N	FALSE	10/20/2017	6	2P	Washington	Sherwood	PORTLAND UA											14									1803	
1761083	1	6584	NONE	0	0	0	0	0	N	FALSE	10/20/2017	6	2P	Washington	Sherwood	PORTLAND UA											14									1803	
1761092	1	6915	NONE	0	0	0	0	0	N	FALSE	11/1/2017	4	5P	Washington	Sherwood	PORTLAND UA											14									1803	
1761092	1	6915	NONE	0	0	0	0	0	N	FALSE	11/1/2017	4	5P	Washington	Sherwood	PORTLAND UA											14									1803	









1. Oregon & T-S Road

SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLD	WET	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	RAIN	WET	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	RAIN	WET	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DAY	S-OTHER	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DAY	S-OTHER	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DUSK	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1	INTER	9	CN	4	3-LEG	0	0	TRF SIGNAL	0	0	0	CLR	DRY	DUSK	ANGL-OTH	TURN	PDO		

1. Oregon & T-S Road

CRASH_E	LAT			LAT	LONGTD			LONG			VHCL_COD		VHCL_USE	VHCL_OWNS	VHCL_MVMN	VHCL_CMPSS_DI	VHCL_CMPSS_D	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA					
VNT_3_C	CRASH_CA	CRASH_CA	CRASH_CA	DEG	MINUTE	LAT	DEG	NO	MINUTE	NO	SEC	NO	NO	ED_SEQ_N	VHCL_TYP_SH	SHORT_DES	TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA	
D	USE_1_CD	USE_2_CD	USE_3_CD	NO	NO	LAT	DEG	NO	MINUTE	NO	SEC	NO	NO	HCL_FLG	O	DESC	Y	ESC	SC	DESC	DESC	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD	
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3194120	1	1	SEMI TOW	NONE	0	9/N/A	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3194121	1	2	PSNGR CAR	NONE	0	9/N/A	TURN-R	S	E	0							0
	4			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3309539	1	1	PSNGR CAR	NONE	0	9/N/A	STRGHT	W	E	0							0
	4			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3309540	0	2	PSNGR CAR	NONE	0	9/N/A	TURN-R	S	E	0							0
	32			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	2985995	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	0							0
	32			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	2985996	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	13						0
	32			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	2985997	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	12							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3035988	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3035989	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	13						0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3035990	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	22							0
	4			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3158458	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	4			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3158459	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	13						0
	4			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3158460	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	22							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3215244	1	1	PSNGR CAR	NONE	0	9/N/A	STRGHT	E	W	0							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3215245	0	2	PSNGR CAR	NONE	0	9/N/A	STOP	E	W	11							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3261121	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3261122	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	13						0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3261123	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	E	W	22							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3346324	1	1	PSNGR CAR	NONE	0	UNKN	STRGHT	E	W	0							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3346325	0	2	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	0							0
	29			45	22	5.93	45.36831389	-122	48	58.75	-122.8163194	3434840	1	1	PSNGR CAR	NONE	0	9/N/A	STRGHT	E	W	0							0
	29			45	22	5.93	45.36831389	-122	48	58.75	-122.8163194	3434841	0	2	PSNGR CAR	NONE	0	9/N/A	STOP	E	W	12							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3082003	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N	0							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3082004	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	S	N	11							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3093584	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3093585	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	S	N	11							0
	32	7		45	22	5.829132	45.36828587	-122	48	58.7545559	-122.8163207	2954863	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	32	7		45	22	5.829132	45.36828587	-122	48	58.7545559	-122.8163207	2954864	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3140062	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3140063	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3179626	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3179627	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11	13						0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3179628	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	22							0
	27	29	32	45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3241121	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	27	29	32	45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3241122	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11	13						0
	27	29	32	45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3241123	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11	13						0
	27	29	32	45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3241123	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	22	13						0
	27	29	32	45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3241124	0	4	PSNGR CAR	NONE	0	PRVTE	STOP	W	E	22							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3266038	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3266039	0	2	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	6							0
	7			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3266039	0	2	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	6							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3303907	1	1	PSNGR CAR	NONE	0	9/N/A	STRGHT	W	E	0							0
	29			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3303908	0	2	PSNGR CAR	NONE	0	9/N/A	STOP	W	E	11							0
	27			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3306998	1	1	PSNGR CAR	NONE	0	9/N/A	STRGHT	W	E	0							0
	27	7		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3306999	0	2	PSNGR CAR	NONE	0	9/N/A	STOP	W	E	11							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011430	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	E	S	0		13					0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3011431	0	3	PSNGR CAR	NONE	0	PRVTE	STOP	S	N	11							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3042186	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3042186	0	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3042187	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	E	S	0							0
	2			45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3042187																	





1. Oregon & T-S Road

	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3194951	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	W	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3303294	1	1	SEMI TOW	NONE	9	N/A	STRGHT	W	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3303295	0	2	PSNGR CAR	NONE	9	N/A	TURN-R	S	E	0					0
	8		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3304246	1	1	SEMI TOW	NONE	9	N/A	TURN-R	S	E	0					0
	8		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3304247	0	2	PSNGR CAR	NONE	9	N/A	TURN-R	S	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3320947	1	1	PSNGR CAR	NONE	9	N/A	TURN-R	S	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3320948	0	2	SEMI TOW	NONE	9	N/A	STRGHT	W	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3320965	1	1	PSNGR CAR	NONE	9	N/A	TURN-R	S	E	0					0
	2		45	22	5.83	45.36828611	-122	48	58.75	-122.8163194	3320966	0	2	SEMI TOW	NONE	9	N/A	STRGHT	W	E	0					0

1. Oregon & T-S Road

PARTIC_I	STRIKG_P	PARTIC_VH	PARTIC_T	PARTIC_TYP	PARTIC_MVM	PARTIC_CMPSS_D	PARTIC_CMPSS	INJ_SVRTY	DRVR_LIC_ST	DRVR_RES	NON_MOTRST	PARTIC_C			TOTAL_C	TOTAL_R									
D	ARTIC_FLG	CL_SEQ_NO	YP_CD	SC	ESC	DESC	C	L	SEX_CD	ESC	C	CTN_CD	DESC	RR_1_CD	RR_2_CD	RR_3_CD	VNT_1_CD	VNT_2_CD	VNT_3_CD	D	D	D	RASHES	OWS	
3647325	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3647326	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3775180	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3775181	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3407052	0	1	1	DRVR	NONE	42	2	OR-Y	OR<25	0	52	14	26	0	0	0	0	0	0	0	32	320	788		
3407053	0	1	1	DRVR	NONE	56	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3407054	0	1	1	DRVR	NONE	53	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3464551	0	1	1	DRVR	NONE	21	2	OR-Y	OR<25	0	42	0	0	0	0	0	0	0	0	0	0	320	788		
3464552	0	1	1	DRVR	NONE	23	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3464553	0	1	1	DRVR	INJB	58	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3605376	0	1	1	DRVR	INJC	75	1	OR-Y	OR<25	0	20	4	0	0	0	0	0	0	0	0	0	320	788		
3605377	0	1	1	DRVR	INJC	48	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3605378	0	1	1	DRVR	NONE	22	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3667908	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3667909	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3717392	0	1	1	DRVR	NONE	21	2	OR-Y	OR<25	0	43	7	0	0	0	0	0	0	0	0	0	320	788		
3717393	0	1	1	DRVR	INJC	21	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3717394	0	1	1	DRVR	NONE	32	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3811189	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	26	29	0	0	0	0	0	0	0	0	0	320	788		
3811190	0	1	1	DRVR	INJC	70	2	OR-Y	OR>25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3912517	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3912518	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3521189	0	1	1	DRVR	NONE	33	1	SUSP	OR<25	0	26	29	0	0	0	0	0	0	0	0	0	320	788		
3521190	0	1	1	DRVR	NONE	57	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3532612	0	1	1	DRVR	NONE	22	1	OR-Y	OR<25	0	43	7	0	0	0	0	0	0	0	0	0	320	788		
3532613	0	1	1	DRVR	NONE	23	2	OTH-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3371995	0	1	1	DRVR	NONE	36	1	SUSP	OR<25	0	52	43	26	0	0	0	0	0	0	0	32	7	320	788	
3371996	0	1	1	DRVR	NONE	22	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3582186	0	1	1	DRVR	NONE	41	2	OR-Y	OR<25	0	43	7	0	0	0	0	0	0	0	0	0	320	788		
3582187	0	1	1	DRVR	INJC	59	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3631658	0	1	1	DRVR	NONE	40	1	OR-Y	OR<25	0	43	7	0	0	0	0	0	0	0	0	0	320	788		
3631659	0	1	1	DRVR	INJC	47	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3631660	0	1	1	DRVR	NONE	50	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3693647	0	1	1	DRVR	NONE	24	1	OR-Y	OR<25	0	16	26	52	93	0	0	0	0	0	0	27	29	32	320	788
3693648	0	1	1	DRVR	INJC	21	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3693649	0	2	2	PSNG	NO<5	1	1			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3693650	0	1	1	DRVR	INJC	30	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3693651	0	1	1	DRVR	NONE	47	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3723562	0	1	1	DRVR	NONE	23	1	OR-Y	OR<25	0	43	7	0	0	0	0	0	0	0	0	0	320	788		
3723563	0	1	1	DRVR	NONE	31	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3723564	0	2	2	PSNG	INJB	35	2			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3769650	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3769651	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3772709	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3772710	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3435670	0	1	1	DRVR	NONE	46	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3435671	0	2	2	PSNG	INJC	42	2			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3435672	0	3	2	PSNG	INJC	13	2			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3435673	0	4	2	PSNG	INJC	9	1			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3435674	0	1	1	DRVR	INJB	70	1	OR-Y	OR<25	0	4	28	0	0	0	0	0	0	0	0	2	0	320	788	
3435675	0	1	1	DRVR	NONE	52	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3472237	0	1	1	DRVR	INJB	70	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3472238	0	2	2	PSNG	INJB	63	1			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3472239	0	1	1	DRVR	INJC	31	1	OR-Y	OR<25	0	4	28	0	0	0	0	0	0	0	0	2	0	320	788	
3472240	0	2	2	PSNG	INJC	30	2			0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3509259	0	1	1	DRVR	INJC	26	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3509260	0	1	1	DRVR	NONE	45	1	OR-Y	OR<25	0	4	28	0	0	0	0	0	0	0	0	2	0	320	788	
3595510	0	1	1	DRVR	INJB	48	1	OR-Y	OR<25	0	4	20	0	0	0	0	0	0	0	0	4	0	320	788	
3595511	0	1	1	DRVR	INJC	39	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3595512	0	1	1	DRVR	NONE	42	1	OTH-Y	N-RES	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3621932	0	1	1	DRVR	NONE	60	2	OR-Y	OR<25	0	4	28	0	0	0	0	0	0	0	0	2	0	320	788	
3621933	0	1	1	DRVR	INJB	47	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3626906	0	1	1	DRVR	INJC	57	1	OR-Y	OR<25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3626907	0	1	1	DRVR	NONE	38	1	OR-Y	OR<25	0	4	28	0	0	0	0	0	0	0	0	2	0	320	788	
3659390	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3659391	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	0	0	0	0	0	320	788		
3728748	0	1	1	DRVR	NONE	41	1	OR-Y	OR>25	0	0	0	0	0	0	0	0	0	0	0	0	320	788		



1. Oregon & T-S Road

3464552	0	1	1	DRVR	NONE	23	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3464553	0	1	1	DRVR	INJB	58	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3605376	0	1	1	DRVR	INJC	75	1	OR-Y	OR<25	0	20	4	0	0	0	0	51	120	
3605377	0	1	1	DRVR	INJC	48	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3605378	0	1	1	DRVR	NONE	22	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3667908	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3667909	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3717392	0	1	1	DRVR	NONE	21	2	OR-Y	OR<25	0	43	7	0	0	0	0	51	120	
3717393	0	1	1	DRVR	INJC	21	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3717394	0	1	1	DRVR	NONE	32	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3811189	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	26	29	0	0	0	0	51	120	
3811190	0	1	1	DRVR	INJC	70	2	OR-Y	OR>25	0	0	0	0	0	0	0	51	120	
3912517	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3912518	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3521189	0	1	1	DRVR	NONE	33	1	SUSP	OR<25	0	26	29	0	0	0	0	51	120	
3521190	0	1	1	DRVR	NONE	57	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3532612	0	1	1	DRVR	NONE	22	1	OR-Y	OR<25	0	43	7	0	0	0	0	51	120	
3532613	0	1	1	DRVR	NONE	23	2	OTH-Y	OR<25	0	0	0	0	0	0	0	51	120	
3371995	0	1	1	DRVR	NONE	36	1	SUSP	OR<25	0	52	43	26	32	7	0	51	120	
3371996	0	1	1	DRVR	NONE	22	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3582186	0	1	1	DRVR	NONE	41	2	OR-Y	OR<25	0	43	7	0	0	0	0	51	120	
3582187	0	1	1	DRVR	INJC	59	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3631658	0	1	1	DRVR	NONE	40	1	OR-Y	OR<25	0	43	7	0	0	0	0	51	120	
3631659	0	1	1	DRVR	INJC	47	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3631660	0	1	1	DRVR	NONE	50	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3693647	0	1	1	DRVR	NONE	24	1	OR-Y	OR<25	0	16	26	52	93	27	29	32	51	120
3693648	0	1	1	DRVR	INJC	21	2	OR-Y	OR<25	0	0	0	0	0	0	0	0	51	120
3693649	0	2	2	PSNG	NO<5	1	1			0	0	0	0	0	0	0	51	120	
3693650	0	1	1	DRVR	INJC	30	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3693651	0	1	1	DRVR	NONE	47	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3723562	0	1	1	DRVR	NONE	23	1	OR-Y	OR<25	0	43	7	0	0	0	0	51	120	
3723563	0	1	1	DRVR	NONE	31	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3723564	0	2	2	PSNG	INJB	35	2			0	0	0	0	0	0	0	51	120	
3769650	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3769651	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3772709	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3772710	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3435670	0	1	1	DRVR	NONE	46	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3435671	0	2	2	PSNG	INJC	42	2			0	0	0	0	0	0	0	51	120	
3435672	0	3	2	PSNG	INJC	13	2			0	0	0	0	0	0	0	51	120	
3435673	0	4	2	PSNG	INJC	9	1			0	0	0	0	0	0	0	51	120	
3435674	0	1	1	DRVR	INJB	70	1	OR-Y	OR<25	0	4	28	2	0	0	0	51	120	
3435675	0	1	1	DRVR	NONE	52	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3472237	0	1	1	DRVR	INJB	70	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3472238	0	2	2	PSNG	INJB	63	1			0	0	0	0	0	0	0	51	120	
3472239	0	1	1	DRVR	INJC	31	1	OR-Y	OR<25	0	4	28	2	0	0	0	51	120	
3472240	0	2	2	PSNG	INJC	30	2			0	0	0	0	0	0	0	51	120	
3509259	0	1	1	DRVR	INJC	26	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3509260	0	1	1	DRVR	NONE	45	1	OR-Y	OR<25	0	4	28	2	0	0	0	51	120	
3595510	0	1	1	DRVR	INJB	48	1	OR-Y	OR<25	0	4	20	4	0	0	0	51	120	
3595511	0	1	1	DRVR	INJC	39	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3595512	0	1	1	DRVR	NONE	42	1	OTH-Y	N-RES	0	0	0	0	0	0	0	51	120	
3621932	0	1	1	DRVR	NONE	60	2	OR-Y	OR<25	0	4	28	2	0	0	0	51	120	
3621933	0	1	1	DRVR	INJB	47	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3626906	0	1	1	DRVR	INJC	57	1	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3626907	0	1	1	DRVR	NONE	38	1	OR-Y	OR<25	0	4	28	2	0	0	0	51	120	
3659390	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3659391	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3728748	0	1	1	DRVR	NONE	41	1	OR-Y	OR>25	0	0	0	0	0	0	0	51	120	
3728749	0	2	2	PSNG	INJC	38	1			0	0	0	0	0	0	0	51	120	
3728750	0	1	1	DRVR	INJB	55	1	OR-Y	OR<25	0	28	2	0	0	0	0	51	120	
3729143	0	1	1	DRVR	INJC	40	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3729144	0	1	1	DRVR	NONE	47	1	OR-Y	OR<25	0	20	4	0	0	0	0	51	120	
3732848	0	1	1	DRVR	INJB	24	1	OTH-Y	OR<25	0	20	4	0	0	0	0	51	120	
3732849	0	1	1	DRVR	INJB	33	2	OR-Y	OR<25	0	0	0	0	0	0	0	51	120	
3732850	0	2	2	PSNG	INJB	12	2			0	0	0	0	0	0	0	51	120	
3732851	0	3	2	PSNG	INJB	11	2			0	0	0	0	0	0	0	51	120	
3789349	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3789350	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	
3648129	0	1	1	DRVR	NONE	0	9	UNK	UNK	0	0	0	0	0	0	0	51	120	



1. Oregon & T-S Road

3648130	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3769039	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3769040	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3769980	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3769981	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3786303	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3786304	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3786320	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120
3786321	0	1	1	DRVR				NONE	0	9	UNK	UNK	0	0					0	51	120

2. Oregon & Tonquin

CRASH_ID	INVSTG_AGY CRASH_SPEE										CRASH_HR				HWY_COMPN												
	INT_ID	SER_NO	C	G	VLV_FLG	VLV_FLG	V_FLG	NE_IND	NE_IND	FLG	UNLOCT	CRASH_DT	K_DAY_CD	C	CNTY_NM	CITY_SECT	URB_AREA_SHOR	RDWY_N	FC_CD	MPNT_CD	SC	P_CD	NO	LRS_VAL	MP_NO	ST_NO	
1652449	2	7158	COUNTY		0	0	0		0	N	FALSE	11/25/2015	4	3P	Washington	Sherwood	PORTLAND UA										1803
1652449	2	7158	COUNTY		0	0	0		0	N	FALSE	11/25/2015	4	3P	Washington	Sherwood	PORTLAND UA										1803
1764832	2	7780	CITY		0	0	0		0	N	FALSE	12/6/2017	4	1P	Washington	Sherwood	PORTLAND UA										1803
1764832	2	7780	CITY		0	0	0		0	N	FALSE	12/6/2017	4	1P	Washington	Sherwood	PORTLAND UA										1803
1823390	2	5509	NONE		0	0	0		0	N	FALSE	10/16/2018	3	4P	Washington	Sherwood	PORTLAND UA										1803
1823390	2	5509	NONE		0	0	0		0	N	FALSE	10/16/2018	3	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1823519	2	6949	CITY		0	0	0		0	N	FALSE	12/18/2018	3	5P	Washington	Sherwood	PORTLAND UA										1803
1823519	2	6949	CITY		0	0	0		0	N	FALSE	12/18/2018	3	5P	Washington	Sherwood	PORTLAND UA										1803
1652449	2	7158	COUNTY		0	0	0		0	N	FALSE	11/25/2015	4	3P	Washington	Sherwood	PORTLAND UA										1803
1652449	2	7158	COUNTY		0	0	0		0	N	FALSE	11/25/2015	4	3P	Washington	Sherwood	PORTLAND UA										1803
1764832	2	7780	CITY		0	0	0		0	N	FALSE	12/6/2017	4	1P	Washington	Sherwood	PORTLAND UA										1803
1764832	2	7780	CITY		0	0	0		0	N	FALSE	12/6/2017	4	1P	Washington	Sherwood	PORTLAND UA										1803
1823390	2	5509	NONE		0	0	0		0	N	FALSE	10/16/2018	3	4P	Washington	Sherwood	PORTLAND UA										1803
1823390	2	5509	NONE		0	0	0		0	N	FALSE	10/16/2018	3	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1718125	2	1128	CITY		0	0	0		0	N	FALSE	2/27/2017	2	4P	Washington	Sherwood	PORTLAND UA										1803
1823519	2	6949	CITY		0	0	0		0	N	FALSE	12/18/2018	3	5P	Washington	Sherwood	PORTLAND UA										1803
1823519	2	6949	CITY		0	0	0		0	N	FALSE	12/18/2018	3	5P	Washington	Sherwood	PORTLAND UA										1803
1820129	2	6043	NONE		0	0	0		0	N	FALSE	11/7/2018	4	3P	Washington		PORTLAND UA										1848
1820129	2	6043	NONE		0	0	0		0	N	FALSE	11/7/2018	4	3P	Washington		PORTLAND UA										1848
1820129	2	6043	NONE		0	0	0		0	N	FALSE	11/7/2018	4	3P	Washington		PORTLAND UA										1848
1820129	2	6043	NONE		0	0	0		0	N	FALSE	11/7/2018	4	3P	Washington		PORTLAND UA										1848
1616443	2	6290	NONE		0	0	0		0	N	FALSE	10/26/2015	2	3P	Washington		PORTLAND UA										2324
1616443	2	6290	NONE		0	0	0		0	N	FALSE	10/26/2015	2	3P	Washington		PORTLAND UA										2324

2. Oregon & Tonquin

ST_NM	ISECT_ST_NO	ISECT_ST_NM	RD_CHAR		CMPSS_DIR	CMPSS_DIR	CMPSS_DIR	IMPCT_L	ISECT_TYP	MEDN_TYP	TRAF_CNTRL_DE	WTHR_COND			RD_SURF_S	LGT_COND	COLLIS_TYP	CRASH_SVRT	CRASH_E	CRASH_E						
			RD_CHA	SHORT_DES								WY_FLG	REL_FLG	DRY							DAY	SHORT_DES				
			R_CD	C	DIR_CD	FROM_CD	SC	OC_CD	C	SC	EG_QTY	LN_QTY	L_FLG	ESC	WY_FLG	REL_FLG	C	C	C	SHORT_DESC	SC	SC	SHORT_DE	Y_SHORT_DE	VNT_1_C	VNT_2_C
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1	1	0	STOP SIGN	0	0	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1	1	0	STOP SIGN	0	0	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1	1	0	STOP SIGN	0	0	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO			
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1	1	0	STOP SIGN	0	0	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO			
SW OREGON ST	2324	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2324	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2324	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2324	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW OREGON ST	2324	SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO			
SW TONQUIN RD	1848	SW OREGON ST	3	STRGHT	4		SE	3		NONE		2	0	UNKNOWN	0	0	0	RAIN	WET	DAY	S-1STOP	REAR	INJ			
SW TONQUIN RD	1848	SW OREGON ST	3	STRGHT	4		SE	3		NONE		2	0	UNKNOWN	0	0	0	RAIN	WET	DAY	S-1STOP	REAR	INJ			

2. Oregon & Tonquin

CRASH_E VNT_3_C D	CRASH_CA USE_1_CD	CRASH_CA USE_2_CD	CRASH_CA USE_3_CD	LAT DEG NO	LAT MINUTE NO	LAT SEC NO	LAT LAT	LONGTD DEG NO	LONGTD MINUTE NO	LONGTD SEC NO	LONG LONG	VHCL_ID VHCL_ID	HCL_FLG HCL_FLG	O O	VHCL_COD VHCL_TYP_SH	VHCL_USE_ SHORT_DES	VHCL_OWNS TRLR_QT	VHCL_MVMN HP_SHORT_D	VHCL_CMPSS_D T_SHORT_DE	VHCL_CMPSS_D R_FROM_SHORT	VHCL_CMPSS_D IR_TO_SHORT_	VHCL_AC TN_CD	VHCL_EV NT_1_CD	VHCL_EV NT_2_CD	VHCL_EV NT_3_CD	VHCL_CA USE_1_CD	VHCL_CA USE_2_CD	VHCL_CA USE_3_CD	
7				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3119981	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	NE	SW	0						0	
7				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3119982	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	NE	SW	12						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3327638	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3327639	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434193	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434194	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241030	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	SW	NE	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434418	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434419	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	0						0	
7				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3119981	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	NE	SW	0						0	
7				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3119982	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	NE	SW	12						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3327638	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3327639	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434193	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434194	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241030	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	SW	NE	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	0						0	
3				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434418	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3434419	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3428375	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3428376	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3428375	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0						0	
2				45	21	40.38	45.36121667	-122	49	25.92	-122.8238667	3428376	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	0						0	
29				45	21	39.01	45.36083611	-122	49	24.42	-122.82345	3053045	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	NW	SE	0						0	
29				45	21	39.01	45.36083611	-122	49	24.42	-122.82345	3053046	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	NW	SE	11						0	

2. Oregon & Tonquin

PARTIC_I D	STRIK_P ARTIC_FLG	PARTIC_VH CL_SEQ	PARTIC_T NO_YP_CD	PARTIC_TYP SC	PARTIC_MVM SHORT_DE	PARTIC_CMPSS_D NT_SHORT_D	PARTIC_CMPSS IR_FROM_SHORT	INJ_SVRTY_ DIR_TO_SHORT_ DESC	SHORT_DES C	AGE_VA L	SEX_CD	DRVR_LIC_ST AT_SHORT_D	DRVR_RES_ SHORT_DES	NON_MOTRST PARTIC_A LOC_SHORT_ DESC	PARTIC_E RR_1_CD	PARTIC_E RR_2_CD	PARTIC_E RR_3_CD	PARTIC_E VNT_1_CD	PARTIC_E VNT_2_CD	PARTIC_E VNT_3_CD	PARTIC_C D	PARTIC_C D	PARTIC_C D	TOTAL_C RASHES	TOTAL_R OWS
3558801	0	1	1	DRVR				NONE	17	1	OR-Y	OR<25	0		43	26							7	51	120
3558802	0	1	1	DRVR				NONE	48	1	OR-Y	OR<25	0		0								0	51	120
3792851	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3792852	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3911912	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3911913	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3693539	0	1	1	DRVR				INJC	34	1	OR-Y	OR<25	0		0								0	51	120
3693540	0	1	1	DRVR				NONE	78	1	OR-Y	OR<25	0		20							3	51	120	
3693541	0	2	2	PSNG				INJC	50	2			0		0								0	51	120
3912123	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3912124	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	51	120
3558801	0	1	1	DRVR				NONE	17	1	OR-Y	OR<25	0		43	26							7	6	12
3558802	0	1	1	DRVR				NONE	48	1	OR-Y	OR<25	0		0								0	6	12
3792851	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3792852	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3911912	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3911913	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3693539	0	1	1	DRVR				INJC	34	1	OR-Y	OR<25	0		0								0	6	12
3693540	0	1	1	DRVR				NONE	78	1	OR-Y	OR<25	0		20							3	6	12	
3693541	0	2	2	PSNG				INJC	50	2			0		0								0	6	12
3912123	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3912124	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	6	12
3906398	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	1	2
3906399	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	1	2
3906398	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	57	98
3906399	0	1	1	DRVR				NONE	0	9	UNK	UNK	0		0								0	57	98
3485770	0	1	1	DRVR				NONE	48	1	OR-Y	OR<25	0		26							29	57	98	
3485771	0	1	1	DRVR				INJC	70	2	OR-Y	OR<25	0		0							0	57	98	

3. Oregon & Murdock

CRASH_I D	INVSTG_AGY CRASH_SPEE										CRASH_HR				HWY_COMPN																				
	INT_ID	SER_NO	C	D	INVLV_FL	ALCHL_IN	DRUG_IN	MJ_INVL	SCHL_ZO	WRK_ZO	DPRT	CRASH	UNLOCT	CRASH_DT	K_DAY_CD	C	CNTY_NM	CITY_SECT	URB_AREA_SHOR	T_NM	HWY_NO	HWY_MED_NM	RDWY_N	O	FC_CD	MPNT_CD	SC	T_SHORT_DE	MLGE_TY	RD_CON	P_CD	NO	LRS VAL	MP_NO	ST_NO
1584675	3	3681	NONE		0	0	0			0	N	FALSE	7/1/2014	3	6A	Washington	Sherwood	PORTLAND UA						16											1503
1584675	3	3681	NONE		0	0	0			0	N	FALSE	7/1/2014	3	6A	Washington	Sherwood	PORTLAND UA						16											1503
1775624	3	228	CITY		0	0	0			0	N	FALSE	1/15/2018	2	2A	Washington	Sherwood	PORTLAND UA						16											1503
1785942	3	1756	CITY		0	0	0			0	N	FALSE	4/10/2018	3	5P	Washington	Sherwood	PORTLAND UA						16											1503
1785942	3	1756	CITY		0	0	0			0	N	FALSE	4/10/2018	3	5P	Washington	Sherwood	PORTLAND UA						16											1503
1584675	3	3681	NONE		0	0	0			0	N	FALSE	7/1/2014	3	6A	Washington	Sherwood	PORTLAND UA						16											1503
1584675	3	3681	NONE		0	0	0			0	N	FALSE	7/1/2014	3	6A	Washington	Sherwood	PORTLAND UA						16											1503
1775624	3	228	CITY		0	0	0			0	N	FALSE	1/15/2018	2	2A	Washington	Sherwood	PORTLAND UA						16											1503
1785942	3	1756	CITY		0	0	0			0	N	FALSE	4/10/2018	3	5P	Washington	Sherwood	PORTLAND UA						16											1503
1785942	3	1756	CITY		0	0	0			0	N	FALSE	4/10/2018	3	5P	Washington	Sherwood	PORTLAND UA						16											1503

3. Oregon & Murdock

ST_NM	ISECT_ST_		RD_CHAR			CMPSS_DIR			ISECT_TYP		MEDN_TYP		TRAF_CNTRL_DE			WTHR_COND			RD_SURF_S		LGT_COND		COLLIS_TYP		CRASH_SVRT		CRASH_E	
	NO	ISECT_ST_NM	RCD	SHORT_DES	CMPSS_DIR_CD	CMPSS_DIR_FROM_CD	CMPSS_DIR_SC	IMPCT_OC_CD	SHORT_DES_C	SHORT_DES_SC	TURNG_L	LN_QTY	ISECT_RE_L_FLG	ESC	WY_FLG	RNDABT_FLG	DRVWVY_REL_FLG	SHORT_DES_C	HORT_DES_C	SHORT_DES_C	CRASH_TYP_SHORT_DES	SHORT_DES_SC	SHORT_DES_SC	SHORT_DES_SC	Y_SHORT_DE	VNT_1_C	VNT_2_C	
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	5	S	S	6	3-LEG		0	0	YIELD		0	1	0	CLR	DRY	DAY	S-1STOP	REAR	PDO					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	5	S	S	6	3-LEG		0	0	YIELD		0	1	0	CLR	DRY	DAY	S-1STOP	REAR	PDO					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	UNKNOWN		1	1	0	CLR	DRY	DLIT	FIX OBJ	FIX	INJ	50				
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	YIELD		0	1	0	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	YIELD		0	1	0	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	5	S	S	6	3-LEG		0	0	YIELD		0	1	0	CLR	DRY	DAY	S-1STOP	REAR	PDO					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	5	S	S	6	3-LEG		0	0	YIELD		0	1	0	CLR	DRY	DAY	S-1STOP	REAR	PDO					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	UNKNOWN		1	1	0	CLR	DRY	DLIT	FIX OBJ	FIX	INJ	50				
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	YIELD		0	1	0	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ					
SW MURDOCK RD	1803	SW OREGON ST	1	INTER	9	CN	CN	2	3-LEG		0	0	YIELD		0	1	0	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ					

3. Oregon & Murdock

CRASH_E	VNT_3_C	CRASH_CA	CRASH_CA	CRASH_CA	DEG	LAT	LAT	MINUTE	LONGTD	LONGTD	LONGTD	LONG	VHCL_ID	HCL_FLG	O	VHCL_COD	VHCL_USE	VHCL_OWNS	VHCL_MVMN	VHCL_CMPSS_DI	VHCL_CMPSS_D	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA			
D	USE_1_CD	USE_2_CD	USE_3_CD	NO	NO	LAT	SEC_NO	LAT	DEG_NO	MINUTE	NO	SEC_NO	LONG	VHCL_ID	HCL_FLG	O	ED_SEQ_N	VHCL_TYP_SH	SHORT_DES	TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD
	7				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	2992811	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N			0						0
	7				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	2992812	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	S	N		11							0
	16	32			45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3346553	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W		0	50						0
	2				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3365953	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N		0							0
	2				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3365954	0	2	PSNGR CAR	NONE	0	RENTE	STRGHT	E	W		0							0
	7				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	2992811	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N		0							0
	7				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	2992812	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	S	N		11							0
	16	32			45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3346553	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W		0	50						0
	2				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3365953	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N		0							0
	2				45	21	37.46	45.36040556	-122	49	30.64	-122.8251778	3365954	0	2	PSNGR CAR	NONE	0	RENTE	STRGHT	E	W		0							0



3. Oregon & Murdock

PARTIC_I D	STRIK_P ARTIC_FLG	PARTIC_VH CL_SEQ_NO	PARTIC_T YP_CD	PARTIC_TYP SC	PARTIC_MVM NT_SHORT_D	PARTIC_CMPSS_D IR_FROM_SHORT_DESC	PARTIC_CMPSS DIR_TO_SHORT_DESC	INJ_SVRTY_ C	AGE_VA L	SEX_CD	DRVR_LIC_ST AT_SHORT_D	DRVR_RES_ SHORT_DES	NON_MOTRST PARTIC_A	LOC_SHORT_ CTN_CD	PARTIC_E RR_1_CD	PARTIC_E RR_2_CD	PARTIC_E RR_3_CD	PARTIC_E VNT_1_CD	PARTIC_E VNT_2_CD	PARTIC_E VNT_3_CD	PARTIC_C D	PARTIC_C AUSE_1_C	PARTIC_C AUSE_2_C	PARTIC_C AUSE_3_C	TOTAL_C RASHES	TOTAL_R OWS
3414839	0	1	1	DRVR				NONE	50	2	OR-Y	OR<25	0		26						7				51	120
3414840	0	1	1	DRVR				NONE	39	2	OR-Y	OR<25	0		0						0				51	120
3811482	0	1	1	DRVR				INJC	19	2	OR-Y	OR<25	25		81	52					16	32			51	120
3835956	0	1	1	DRVR				INJC	22	2	OR-Y	OR<25	0		0						0				51	120
3835957	0	1	1	DRVR				NONE	21	1	OR-Y	OR>25	0		28						2				51	120
3414839	0	1	1	DRVR				NONE	50	2	OR-Y	OR<25	0		26						7				9	19
3414840	0	1	1	DRVR				NONE	39	2	OR-Y	OR<25	0		0						0				9	19
3811482	0	1	1	DRVR				INJC	19	2	OR-Y	OR<25	25		81	52					16	32			9	19
3835956	0	1	1	DRVR				INJC	22	2	OR-Y	OR<25	0		0						0				9	19
3835957	0	1	1	DRVR				NONE	21	1	OR-Y	OR>25	0		28						2				9	19

4. Sunset & Murdock

CRASH_ID	INVSTG_AGY CRASH_SPEE										CRASH_HR				HWY_COMPN																	
	INT_ID	SER_NO	C	SHORT_DES	D	INVLV_FL	ALCHL_IN	DRUG_IN	MJ_INVL	SCHL_ZO	WRK_ZO	DPRT	CRASH	UNLOCT	CRASH_DT	K_DAY	CD	CNTY_NM	CITY_SECT	URB_AREA_SHOR	RDWY_N	FC_CD	MPNT_CD	SC	T_SHORT_DE	MLGE_TY	RD_CON	P_CD	NO	LRS_VAL	MP_NO	ST_NO
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1750127	4	6072	CITY		0	0	0			0	N	FALSE	9/30/2017	7	1P	Washington	Sherwood	PORTLAND UA				16										1503
1750127	4	6072	CITY		0	0	0			0	N	FALSE	9/30/2017	7	1P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1732159	4	3869	CITY		0	0	0			0	N	FALSE	6/27/2017	3	4P	Washington	Sherwood	PORTLAND UA				16										1503
1750127	4	6072	CITY		0	0	0			0	N	FALSE	9/30/2017	7	1P	Washington	Sherwood	PORTLAND UA				16										1503
1750127	4	6072	CITY		0	0	0			0	N	FALSE	9/30/2017	7	1P	Washington	Sherwood	PORTLAND UA				16										1503

4. Sunset & Murdock

ST_NM	ISECT_ST		RD_CHAR				CMPSS_DIR			IMPTC_L	ISECT_TYP		TRAF_CNTRL_DE			WTHR_COND			RD_SURF_S		LGT_COND		COLLIS_TYP	CRASH_SVRT	CRASH_E	CRASH_E
	NO	ISECT_ST_NM	RD_CHA	SHORT_DES	CMPSS	CMPSS_DIR	SHORT_DE	ISECT_TYP	MEDN_TYP		TRAF_CNTRL_DE	TRAF_CNTRL_DE	TRAF_CNTRL_DE	WTHR_COND	WTHR_COND	WTHR_COND	HORT_DES	SHORT_DES	CRASH_TYP	SHORT_DE	Y_SHORT_DE	VNT_1_C				
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLD	WET	DAY	S-1STOP	REAR	PDO			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLD	WET	DAY	S-1STOP	REAR	PDO			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLR	DRY	DAY	S-1STOP	REAR	INJ			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLD	WET	DAY	S-1STOP	REAR	PDO			
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0	0	0	STOP SIGN	0	0	0	CLD	WET	DAY	S-1STOP	REAR	PDO			

4. Sunset & Murdock

CRASH_E	LAT			LAT	LONGTD			VHCL_COD		VHCL_USE		VHCL_OWNS		VHCL_MVMN		VHCL_CMPSS_D		VHCL_CMPSS_D		VHCL_EV			VHCL_CA		
VNT_3_C	CRASH_CA	CRASH_CA	CRASH_CA	DEG	MINUTE	LONGTD	LONGTD	LONGTD	STRIK_V	ED_SEQ_N	VHCL_TYP_SH	SHORT_DES	TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA	
D	USE_1_CD	USE_2_CD	USE_3_CD	NO	NO	DEG NO	MINUTE NO	SEC NO	FLG	O	ORT_DESC	C	Y	ESC	SC	DESC	DESC	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD	
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267662	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	29			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3301472	1	1	PSNGR CAR	NONE	9	N/A	STRGHT	N	S				0
	29			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3301473	0	2	TRUCK	NONE	9	N/A	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267662	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	7			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3267663	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	N	S				0
	29			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3301472	1	1	PSNGR CAR	NONE	9	N/A	STRGHT	N	S				0
	29			45	20	58.65	45.349625	-122	49	36.96	-122.8269333	3301473	0	2	TRUCK	NONE	9	N/A	STOP	N	S				0

4. Sunset & Murdock

PARTIC_I D	STRIK_P ARTIC_FLG	PARTIC_VH CL_SEQ_NO	PARTIC_T YP_CD	PARTIC_TYP SC	PARTIC_MVM SHORT_DE	PARTIC_CMPSS_D NT_SHORT_D	PARTIC_CMPSS IR_FROM_SHORT DESC	INJ_SVRTY_ SHORT_DES	AGE_VA L	SEX_CD	DRVR_LIC_ST AT_SHORT_D	DRVR_RES_ SHORT_DES	NON_MOTRST PARTIC_A LOC_SHORT_	PARTIC_E RR_1_CD	PARTIC_E RR_2_CD	PARTIC_E RR_3_CD	PARTIC_E VNT_1_CD	PARTIC_E VNT_2_CD	PARTIC_E VNT_3_CD	PARTIC_C AUSE_1_C D	PARTIC_C AUSE_2_C D	PARTIC_C AUSE_3_C D	TOTAL_C RASHES	TOTAL_R OWS	
																									ESC
3725574	0	1	1	DRVR				NONE	19	2	OR-Y	OR<25	0								7			9	19
3725575	0	1	1	DRVR				INJC	29	2	OR-Y	OR<25	0								0			9	19
3725576	0	2	2	PSNG				INJC	1	1			0								0			9	19
3725577	0	3	2	PSNG				INJC	5	2			0								0			9	19
3725578	0	4	2	PSNG				INJC	3	1			0								0			9	19
3767260	0	1	1	DRVR				NONE	0	9	UNK	UNK	0								0			9	19
3767261	0	1	1	DRVR				NONE	0	9	UNK	UNK	0								0			9	19
3725574	0	1	1	DRVR				NONE	19	2	OR-Y	OR<25	0								7			55	127
3725575	0	1	1	DRVR				INJC	29	2	OR-Y	OR<25	0								0			55	127
3725576	0	2	2	PSNG				INJC	1	1			0								0			55	127
3725577	0	3	2	PSNG				INJC	5	2			0								0			55	127
3725578	0	4	2	PSNG				INJC	3	1			0								0			55	127
3767260	0	1	1	DRVR				NONE	0	9	UNK	UNK	0								0			55	127
3767261	0	1	1	DRVR				NONE	0	9	UNK	UNK	0								0			55	127

# Appendix F

## Signal Warrant Worksheets





## Traffic Signal Warrant Analysis

Project: 20092 - Polley Industrial TIS  
 Date: 5/23/2022  
 Scenario: Year 2023 Buildout Conditions

Major Street:	SW Oregon Street	Minor Street:	SW Tonquin Road
Number of Lanes:	1	Number of Lanes:	1
PM Peak Hour Volumes:	1062	PM Peak Hour Volumes:	416

**Warrant Used:**

         x 100 percent of standard warrants used  
         70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
Major St.	Minor St.	100% Warrants	70% Warrants	100% Warrants	70% Warrants
<b>WARRANT 1, CONDITION A</b>					
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
<b>WARRANT 1, CONDITION B</b>					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
<i>Warrant 1</i>			
<i>Condition A: Minimum Vehicular Volume</i>			
Major Street	10,620	8,850	
Minor Street*	4,160	2,650	<b>Yes</b>
<i>Condition B: Interruption of Continuous Traffic</i>			
Major Street	10,620	13,300	
Minor Street*	4,160	1,350	<b>No</b>
<i>Combination Warrant</i>			
Major Street	10,620	10,640	
Minor Street*	4,160	2,120	<b>No</b>

\* Minor street right-turning traffic volumes reduced by 25%



## Traffic Signal Warrant Analysis

Project: 20092 - Polley Industrial TIS  
 Date: 5/23/2022  
 Scenario: Year 2023 Buildout Conditions

Major Street:	SW Murdock Road	Minor Street:	SW Sunset Boulevard
Number of Lanes:	1	Number of Lanes:	1
PM Peak Hour Volumes:	973	PM Peak Hour Volumes:	247

### Warrant Used:

    X     100 percent of standard warrants used  
           70 percent of standard warrants used due to 85th percentile speed in excess of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)		ADT on Minor St. (higher-volume approach)	
Major St.	Minor St.	100% Warrants	70% Warrants	100% Warrants	70% Warrants
<b>WARRANT 1, CONDITION A</b>					
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
<b>WARRANT 1, CONDITION B</b>					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
<i>Warrant 1</i>			
<i>Condition A: Minimum Vehicular Volume</i>			
Major Street	9,730	8,850	
Minor Street*	2,470	2,650	<b>No</b>
<i>Condition B: Interruption of Continuous Traffic</i>			
Major Street	9,730	13,300	
Minor Street*	2,470	1,350	<b>No</b>
<i>Combination Warrant</i>			
Major Street	9,730	10,640	
Minor Street*	2,470	2,120	<b>No</b>

\* Minor street right-turning traffic volumes reduced by 25%





## Traffic Signal Warrant Analysis

Project: 20092 - Polley Industrial TIS  
 Date: 5/23/2022  
 Scenario: Year 2023 Buildout Conditions

Major Street:	SW Oregon Street	Minor Street:	Site Access
Number of Lanes:	1	Number of Lanes:	1
PM Peak Hour Volumes:	981	PM Peak Hour Volumes:	57

### Warrant Used:

    X     100 percent of standard warrants used  
           70 percent of standard warrants used due to 85th percentile speed in excess  
           of 40 mph or isolated community with population less than 10,000.

Number of Lanes for Moving Traffic on Each Approach:		ADT on Major St. (total of both approaches)	ADT on Minor St. (higher-volume approach)		
<u>Major St.</u>	<u>Minor St.</u>	<u>100% Warrants</u>	<u>70% Warrants</u>	<u>100% Warrants</u>	<u>70% Warrants</u>
<b>WARRANT 1, CONDITION A</b>					
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
<b>WARRANT 1, CONDITION B</b>					
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250

Note: ADT volumes assume 8th highest hour is 5.6% of the daily volume

	Approach Volumes	Minimum Volumes	Is Signal Warrant Met?
<i>Warrant 1</i>			
<i>Condition A: Minimum Vehicular Volume</i>			
Major Street	9,810	8,850	
Minor Street*	570	2,650	<b>No</b>
<i>Condition B: Interruption of Continuous Traffic</i>			
Major Street	9,810	13,300	
Minor Street*	570	1,350	<b>No</b>
<i>Combination Warrant</i>			
Major Street	9,810	10,640	
Minor Street*	570	2,120	<b>No</b>

\* Minor street right-turning traffic volumes reduced by 25%

# Appendix G

## Left Turn Lane Warrant Worksheets



## Left-Turn Lane Warrant Analysis



Project: 20092 - Polley Industrial TIS  
 Intersection: 5. SW Oregon Street & Site Access  
 Date: 5/23/2022  
 Scenario: Year 2023 Buildout Conditions - AM Peak Hour (WB)

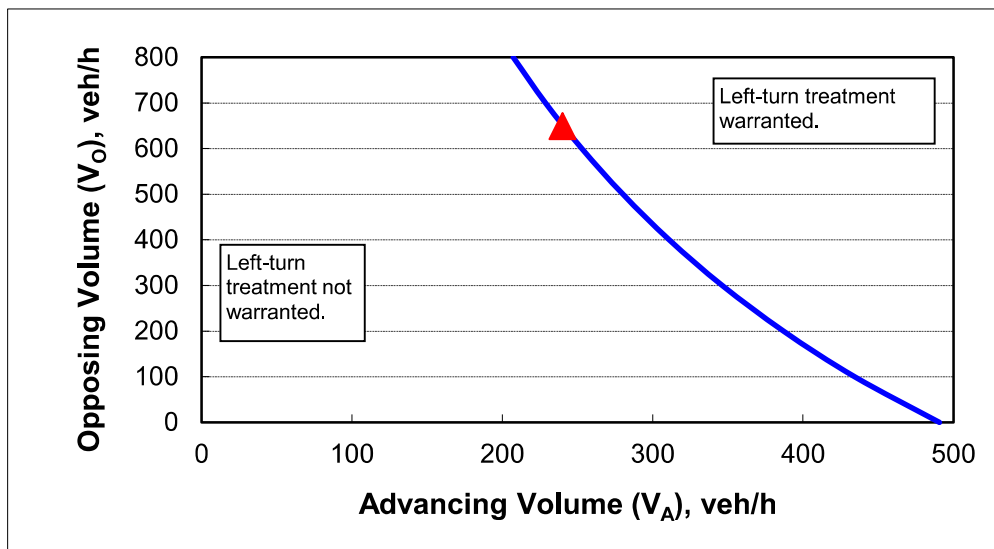
### 2-lane roadway (English)

#### INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	35
Percent of left-turns in advancing volume ( $V_A$ ), %:	17%
Advancing volume ( $V_A$ ), veh/h:	240
Opposing volume ( $V_O$ ), veh/h:	649

#### OUTPUT

Variable	Value
Limiting advancing volume ( $V_A$ ), veh/h:	241
<b>Guidance for determining the need for a major-road left-turn bay:</b>	
<b>Left-turn treatment NOT warranted.</b>	



#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

## Left-Turn Lane Warrant Analysis



Project: 20092 - Polley Industrial TIS  
 Intersection: 5. SW Oregon Street & Site Access  
 Date: 5/23/2022  
 Scenario: Year 2023 Buildout Conditions - PM Peak Hour (WB)

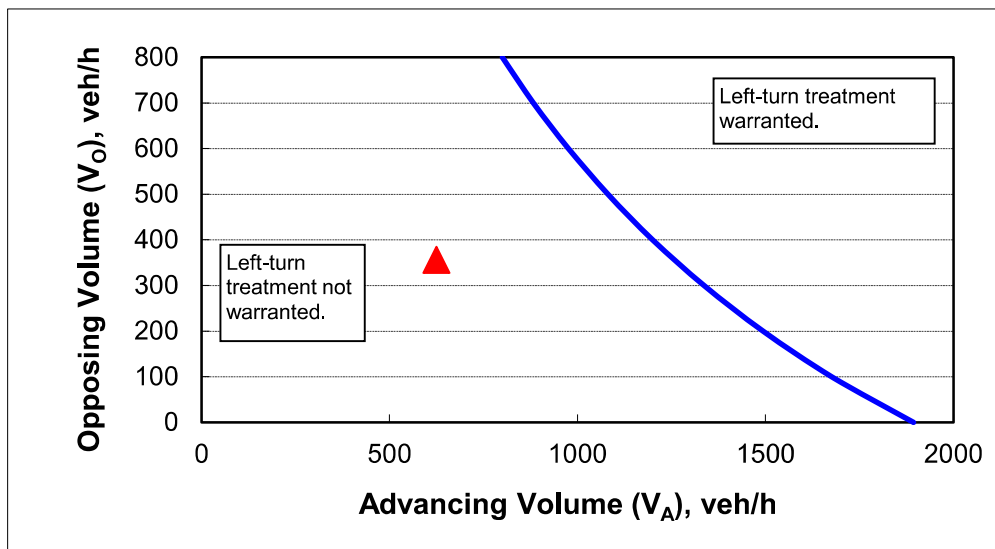
### 2-lane roadway (English)

#### INPUT

Variable	Value
85 <sup>th</sup> percentile speed, mph:	35
Percent of left-turns in advancing volume ( $V_A$ ), %:	1%
Advancing volume ( $V_A$ ), veh/h:	625
Opposing volume ( $V_O$ ), veh/h:	356

#### OUTPUT

Variable	Value
Limiting advancing volume ( $V_A$ ), veh/h:	1258
<b>Guidance for determining the need for a major-road left-turn bay:</b>	
<b>Left-turn treatment NOT warranted.</b>	



#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

# Appendix H

## LOS Definition





## LEVEL OF SERVICE

Level of service is used to describe the quality of traffic flow. Levels of service A to C are considered good, and rural roads are usually designed for level of service C. Urban streets and signalized intersections are typically designed for level of service D. Level of service E is considered to be the limit of acceptable delay. For unsignalized intersections, level of service E is generally considered acceptable. Here is a more complete description of levels of service:

*Level of service A:* Very low delay at intersections, with all traffic signal cycles clearing and no vehicles waiting through more than one signal cycle. On highways, low volume and high speeds, with speeds not restricted by other vehicles.

*Level of service B:* Operating speeds beginning to be affected by other traffic; short traffic delays at intersections. Higher average intersection delay than for level of service A resulting from more vehicles stopping.

*Level of service C:* Operating speeds and maneuverability closely controlled by other traffic; higher delays at intersections than for level of service B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. This is the recommended design standard for rural highways.

*Level of service D:* Tolerable operating speeds; long traffic delays occur at intersections. The influence of congestion is noticeable. At traffic signals many vehicles stop, and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle, are noticeable. This is typically the design level for urban signalized intersections.

*Level of service E:* Restricted speeds, very long traffic delays at traffic signals, and traffic volumes near capacity. Flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate to level of service F. Traffic signal cycle failures are frequent occurrences. For unsignalized intersections, level of service E or better is generally considered acceptable.

*Level of service F:* Extreme delays, resulting in long queues which may interfere with other traffic movements. There may be stoppages of long duration, and speeds may drop to zero. There may be frequent signal cycle failures. Level of service F will typically result when vehicle arrival rates are greater than capacity. It is considered unacceptable by most drivers.



*LEVEL OF SERVICE CRITERIA  
FOR SIGNALIZED INTERSECTIONS*

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (Seconds)
A	<10
B	10-20
C	20-35
D	35-55
E	55-80
F	>80

*LEVEL OF SERVICE CRITERIA  
FOR UNSIGNALIZED INTERSECTIONS*

LEVEL OF SERVICE	CONTROL DELAY PER VEHICLE (Seconds)
A	<10
B	10-15
C	15-25
D	25-35
E	35-50
F	>50

# Appendix I





















## Capacity Worksheets





HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	766	158	125	583	0	79	4	316	4	0	0
Future Volume (veh/h)	8	766	158	125	583	0	79	4	316	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	798	165	130	607	0	82	4	329	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	372	934	792	265	964	0	401	17	438	253	0	0
Arrive On Green	0.01	0.53	0.53	0.06	0.58	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1367	77	1522	702	0	0
Grp Volume(v), veh/h	8	798	165	130	607	0	86	0	329	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1444	0	1522	702	0	0
Q Serve(g_s), s	0.2	29.6	4.4	2.6	18.4	0.0	0.0	0.0	15.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	29.6	4.4	2.6	18.4	0.0	3.1	0.0	15.0	3.4	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.95		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	372	934	792	265	964	0	419	0	438	253	0	0
V/C Ratio(X)	0.02	0.85	0.21	0.49	0.63	0.00	0.21	0.00	0.75	0.02	0.00	0.00
Avail Cap(c_a), veh/h	487	1612	1366	812	1735	0	478	0	503	290	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.5	15.4	9.5	14.8	10.6	0.0	24.0	0.0	24.7	25.4	0.0	0.0
Incr Delay (d2), s/veh	0.0	2.8	0.2	0.5	0.8	0.0	0.1	0.0	4.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	10.1	1.2	0.9	5.3	0.0	1.2	0.0	5.5	0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.5	18.3	9.7	15.4	11.4	0.0	24.1	0.0	29.0	25.4	0.0	0.0
LnGrp LOS	A	B	A	B	B	A	C	A	C	C	A	A
Approach Vol, veh/h		971			737			415				4
Approach Delay, s/veh		16.7			12.1			28.0				25.4
Approach LOS		B			B			C				C
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.7	45.8		21.7	4.8	49.7		21.7				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	4.6	31.6		5.4	2.2	20.4		17.0				
Green Ext Time (p_c), s	0.1	8.7		0.0	0.0	5.3		0.3				
<b>Intersection Summary</b>												
HCM 6th Ctrl Delay				17.3								
HCM 6th LOS				B								
<b>Notes</b>												
User approved pedestrian interval to be less than phase max green.												

HCM 6th TWSC  
 2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	4.9					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	491	316	62	129	150	100
Future Vol, veh/h	491	316	62	129	150	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	13	13	15	15
Mvmt Flow	528	340	67	139	161	108

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	528	0	801
Stage 1	-	-	-	-	528
Stage 2	-	-	-	-	273
Critical Hdwy	-	-	4.23	-	6.55
Critical Hdwy Stg 1	-	-	-	-	5.55
Critical Hdwy Stg 2	-	-	-	-	5.55
Follow-up Hdwy	-	-	2.317	-	3.635
Pot Cap-1 Maneuver	-	-	985	-	336
Stage 1	-	-	-	-	566
Stage 2	-	-	-	-	744
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	985	-	313
Mov Cap-2 Maneuver	-	-	-	-	313
Stage 1	-	-	-	-	566
Stage 2	-	-	-	-	693

Approach	EB	WB	NB
HCM Control Delay, s	0	2.9	22.3
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	313	526	-	-	985	-
HCM Lane V/C Ratio	0.515	0.204	-	-	0.068	-
HCM Control Delay (s)	28.1	13.6	-	-	8.9	-
HCM Lane LOS	D	B	-	-	A	-
HCM 95th %tile Q(veh)	2.8	0.8	-	-	0.2	-

HCM 6th Roundabout  
3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	9.2		
Intersection LOS	A		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	519	306	535
Demand Flow Rate, veh/h	530	309	541
Vehicles Circulating, veh/h	106	60	441
Vehicles Exiting, veh/h	263	922	195
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	7.3	4.9	13.6
Approach LOS	A	A	B
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	530	309	541
Cap Entry Lane, veh/h	1238	1298	880
Entry HV Adj Factor	0.980	0.990	0.989
Flow Entry, veh/h	519	306	535
Cap Entry, veh/h	1214	1285	870
V/C Ratio	0.428	0.238	0.615
Control Delay, s/veh	7.3	4.9	13.6
LOS	A	A	B
95th %tile Queue, veh	2	1	4

## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh 14

Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	258	7	218	5	22	25	134	144	3	5	118	66
Future Vol, veh/h	258	7	218	5	22	25	134	144	3	5	118	66
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6
Mvmt Flow	284	8	240	5	24	27	147	158	3	5	130	73
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	14.4	10	15.3	12
HCM LOS	B	A	C	B

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	48%	100%	0%	10%	3%
Vol Thru, %	51%	0%	3%	42%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	281	258	225	52	189
LT Vol	134	258	0	5	5
Through Vol	144	0	7	22	118
RT Vol	3	0	218	25	66
Lane Flow Rate	309	284	247	57	208
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.515	0.528	0.379	0.099	0.34
Departure Headway (Hd)	6.004	6.71	5.513	6.254	5.902
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	599	536	650	569	606
Service Time	4.057	4.459	3.262	4.332	3.963
HCM Lane V/C Ratio	0.516	0.53	0.38	0.1	0.343
HCM Control Delay	15.3	16.8	11.6	10	12
HCM Lane LOS	C	C	B	A	B
HCM 95th-tile Q	2.9	3.1	1.8	0.3	1.5






















HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↘	↑	↘	
Traffic Vol, veh/h	591	0	0	191	0	0
Future Vol, veh/h	591	0	0	191	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	1	13	13	2	2
Mvmt Flow	642	0	0	208	0	0
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	642	0	850	321
Stage 1	-	-	-	-	642	-
Stage 2	-	-	-	-	208	-
Critical Hdwy	-	-	4.295	-	6.63	6.93
Critical Hdwy Stg 1	-	-	-	-	5.83	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-2.3235	-	-3.519	3.319	-
Pot Cap-1 Maneuver	-	-	880	-	315	675
Stage 1	-	-	-	-	487	-
Stage 2	-	-	-	-	826	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	880	-	315	675
Mov Cap-2 Maneuver	-	-	-	-	315	-
Stage 1	-	-	-	-	487	-
Stage 2	-	-	-	-	826	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	0	0			
HCM LOS				A		
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	-	-	-	880	-	-
HCM Lane V/C Ratio	-	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-	-
HCM Lane LOS	A	-	-	A	-	-
HCM 95th %tile Q(veh)	-	-	-	0	-	-

HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	857	158	345	845	12	104	0	237	29	29	12
Future Volume (veh/h)	4	857	158	345	845	12	104	0	237	29	29	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	922	170	371	909	13	112	0	255	31	31	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	317	1001	849	399	1283	18	212	0	516	68	61	17
Arrive On Green	0.01	0.54	0.54	0.16	0.70	0.70	0.17	0.00	0.17	0.17	0.17	0.17
Sat Flow, veh/h	1753	1841	1560	1767	1825	26	888	0	1560	133	364	104
Grp Volume(v), veh/h	4	922	170	371	0	922	112	0	255	75	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	888	0	1560	601	0	0
Q Serve(g_s), s	0.1	51.2	6.2	16.1	0.0	32.9	0.0	0.0	14.6	2.1	0.0	0.0
Cycle Q Clear(g_c), s	0.1	51.2	6.2	16.1	0.0	32.9	14.5	0.0	14.6	16.6	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.41		0.17
Lane Grp Cap(c), veh/h	317	1001	849	399	0	1301	212	0	516	145	0	0
V/C Ratio(X)	0.01	0.92	0.20	0.93	0.00	0.71	0.53	0.00	0.49	0.52	0.00	0.00
Avail Cap(c_a), veh/h	402	1144	970	599	0	1316	235	0	542	170	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	12.4	23.3	13.0	33.9	0.0	9.8	44.9	0.0	29.9	44.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	11.3	0.1	12.7	0.0	1.8	0.8	0.0	0.3	1.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	22.7	2.1	11.0	0.0	11.1	3.0	0.0	5.4	2.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.4	34.6	13.2	46.6	0.0	11.7	45.6	0.0	30.2	45.2	0.0	0.0
LnGrp LOS	B	C	B	D	A	B	D	A	C	D	A	A
Approach Vol, veh/h		1096			1293			367				75
Approach Delay, s/veh		31.2			21.7			34.9				45.2
Approach LOS		C			C			C				D
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.4	66.3		23.1	4.6	84.1		23.1				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	18.1	53.2		18.6	2.1	34.9		16.6				
Green Ext Time (p_c), s	0.3	7.7		0.0	0.0	10.3		0.3				

Intersection Summary

HCM 6th Ctrl Delay	27.7
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

HCM 6th TWSC  
2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	94.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	246	150	166	429	329	92
Future Vol, veh/h	246	150	166	429	329	92
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	267	163	180	466	358	100

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	267	0	1093
Stage 1	-	-	-	-	267
Stage 2	-	-	-	-	826
Critical Hdwy	-	-	4.14	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.236	-	3.518
Pot Cap-1 Maneuver	-	-	1285	-	~ 237
Stage 1	-	-	-	-	778
Stage 2	-	-	-	-	430
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1285	-	~ 204
Mov Cap-2 Maneuver	-	-	-	-	~ 204
Stage 1	-	-	-	-	778
Stage 2	-	-	-	-	370

Approach	EB	WB	NB
HCM Control Delay, s	0	2.3	\$ 313.7
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	204	772	-	-	1285	-
HCM Lane V/C Ratio	1.753	0.13	-	-	0.14	-
HCM Control Delay (s)	\$ 398.5	10.4	-	-	8.3	-
HCM Lane LOS	F	B	-	-	A	-
HCM 95th %tile Q(veh)	24.6	0.4	-	-	0.5	-

Notes  
 ~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

HCM 6th Roundabout  
 3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	9.6		
Intersection LOS	A		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	321	832	221
Demand Flow Rate, veh/h	328	840	228
Vehicles Circulating, veh/h	451	67	229
Vehicles Exiting, veh/h	456	390	549
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	8.6	11.2	5.3
Approach LOS	A	B	A
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	328	840	228
Cap Entry Lane, veh/h	871	1289	1092
Entry HV Adj Factor	0.980	0.991	0.969
Flow Entry, veh/h	321	832	221
Cap Entry, veh/h	854	1277	1059
V/C Ratio	0.377	0.652	0.209
Control Delay, s/veh	8.6	11.2	5.3
LOS	A	B	A
95th %tile Queue, veh	2	5	1



## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh29.2

Intersection LOS D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	100	12	166	1	21	17	317	146	6	32	153	272
Future Vol, veh/h	100	12	166	1	21	17	317	146	6	32	153	272
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2
Mvmt Flow	111	13	184	1	23	19	352	162	7	36	170	302
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left SB		NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right NB		SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	13.6	11.7	40	29
HCM LOS	B	B	E	D

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	68%	100%	0%	3%	7%
Vol Thru, %	31%	0%	7%	54%	33%
Vol Right, %	1%	0%	93%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	469	100	178	39	457
LT Vol	317	100	0	1	32
Through Vol	146	0	12	21	153
RT Vol	6	0	166	17	272
Lane Flow Rate	521	111	198	43	508
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.89	0.248	0.377	0.094	0.812
Departure Headway (Hd)	6.149	8.049	6.862	7.775	5.758
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	589	447	524	459	630
Service Time	4.19	5.8	4.613	5.855	3.8
HCM Lane V/C Ratio	0.885	0.248	0.378	0.094	0.806
HCM Control Delay	40	13.5	13.7	11.7	29
HCM Lane LOS	E	B	B	B	D
HCM 95th-tile Q	10.5	1	1.7	0.3	8.3

HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↵	↑	↵	
Traffic Vol, veh/h	338	0	0	595	0	0
Future Vol, veh/h	338	0	0	595	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	367	0	0	647	0	0






















Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	367	0	1014	184
Stage 1	-	-	-	-	367	-
Stage 2	-	-	-	-	647	-
Critical Hdwy	-	-	4.16	-	6.63	6.93
Critical Hdwy Stg 1	-	-	-	-	5.83	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-	2.238	-	3.519	3.319
Pot Cap-1 Maneuver	-	-	1177	-	249	828
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	520	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1177	-	249	828
Mov Cap-2 Maneuver	-	-	-	-	249	-
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	520	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1177	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	797	164	130	607	0	82	4	329	4	0	0
Future Volume (veh/h)	8	797	164	130	607	0	82	4	329	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	830	171	135	632	0	85	4	343	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	356	955	809	246	978	0	403	17	442	248	0	0
Arrive On Green	0.01	0.54	0.54	0.06	0.59	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1370	73	1522	693	0	0
Grp Volume(v), veh/h	8	830	171	135	632	0	89	0	343	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1443	0	1522	693	0	0
Q Serve(g_s), s	0.2	33.7	4.9	2.9	20.9	0.0	0.0	0.0	17.1	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	33.7	4.9	2.9	20.9	0.0	3.5	0.0	17.1	3.8	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.96		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	356	955	809	246	978	0	420	0	442	248	0	0
V/C Ratio(X)	0.02	0.87	0.21	0.55	0.65	0.00	0.21	0.00	0.78	0.02	0.00	0.00
Avail Cap(c_a), veh/h	461	1484	1258	747	1598	0	442	0	465	261	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.1	16.5	9.9	16.9	11.3	0.0	25.7	0.0	26.9	27.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	4.1	0.2	0.7	0.9	0.0	0.1	0.0	6.9	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	12.0	1.4	1.2	6.2	0.0	1.4	0.0	6.7	0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.1	20.5	10.0	17.6	12.2	0.0	25.8	0.0	33.8	27.3	0.0	0.0
LnGrp LOS	B	C	B	B	B	A	C	A	C	C	A	A
Approach Vol, veh/h		1009			767			432				4
Approach Delay, s/veh		18.7			13.1			32.1				27.3
Approach LOS		B			B			C				C
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.8	50.2		23.7	4.8	54.2		23.7				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	4.9	35.7		5.8	2.2	22.9		19.1				
Green Ext Time (p_c), s	0.1	9.1		0.0	0.0	5.6		0.1				

Intersection Summary

HCM 6th Ctrl Delay	19.4
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.

HCM 6th TWSC  
2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	5.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	511	329	65	134	156	104
Future Vol, veh/h	511	329	65	134	156	104
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	13	13	15	15
Mvmt Flow	549	354	70	144	168	112
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	549	0	833	549
Stage 1	-	-	-	-	549	-
Stage 2	-	-	-	-	284	-
Critical Hdwy	-	-	4.23	-	6.55	6.35
Critical Hdwy Stg 1	-	-	-	-	5.55	-
Critical Hdwy Stg 2	-	-	-	-	5.55	-
Follow-up Hdwy	-	-	2.317	-	3.635	3.435
Pot Cap-1 Maneuver	-	-	968	-	322	511
Stage 1	-	-	-	-	553	-
Stage 2	-	-	-	-	735	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	968	-	299	511
Mov Cap-2 Maneuver	-	-	-	-	299	-
Stage 1	-	-	-	-	553	-
Stage 2	-	-	-	-	682	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.9		24.4	
HCM LOS					C	
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	299	511	-	-	968	-
HCM Lane V/C Ratio	0.561	0.219	-	-	0.072	-
HCM Control Delay (s)	31.4	14	-	-	9	-
HCM Lane LOS	D	B	-	-	A	-
HCM 95th %tile Q(veh)	3.2	0.8	-	-	0.2	-

HCM 6th Roundabout  
3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	9.9		
Intersection LOS	A		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	539	319	557
Demand Flow Rate, veh/h	550	322	563
Vehicles Circulating, veh/h	111	63	458
Vehicles Exiting, veh/h	274	958	203
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	7.6	5.0	15.0
Approach LOS	A	A	B
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	550	322	563
Cap Entry Lane, veh/h	1232	1294	865
Entry HV Adj Factor	0.980	0.990	0.989
Flow Entry, veh/h	539	319	557
Cap Entry, veh/h	1208	1282	856
V/C Ratio	0.446	0.249	0.651
Control Delay, s/veh	7.6	5.0	15.0
LOS	A	A	B
95th %tile Queue, veh	2	1	5

## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh 14.7

Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	268	7	227	5	23	26	139	150	3	5	123	69
Future Vol, veh/h	268	7	227	5	23	26	139	150	3	5	123	69
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6
Mvmt Flow	295	8	249	5	25	29	153	165	3	5	135	76
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left SB		NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right NB		SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	15.1	10.2	16.2	12.5
HCM LOS	C	B	C	B

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	48%	100%	0%	9%	3%
Vol Thru, %	51%	0%	3%	43%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	268	234	54	197
LT Vol	139	268	0	5	5
Through Vol	150	0	7	23	123
RT Vol	3	0	227	26	69
Lane Flow Rate	321	295	257	59	216
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.543	0.556	0.4	0.105	0.361
Departure Headway (Hd)	6.089	6.794	5.596	6.387	5.999
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	590	530	640	557	597
Service Time	4.15	4.553	3.354	4.48	4.068
HCM Lane V/C Ratio	0.544	0.557	0.402	0.106	0.362
HCM Control Delay	16.2	17.8	12.1	10.2	12.5
HCM Lane LOS	C	C	B	B	B
HCM 95th-tile Q	3.2	3.4	1.9	0.3	1.6

HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↘	↑	↘	
Traffic Vol, veh/h	615	0	0	199	0	0
Future Vol, veh/h	615	0	0	199	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	1	13	13	2	2
Mvmt Flow	668	0	0	216	0	0






















Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	668	0	884 334
Stage 1	-	-	-	-	668 -
Stage 2	-	-	-	-	216 -
Critical Hdwy	-	-	4.295	-	6.63 6.93
Critical Hdwy Stg 1	-	-	-	-	5.83 -
Critical Hdwy Stg 2	-	-	-	-	5.43 -
Follow-up Hdwy	-	-	2.3235	-	3.519 3.319
Pot Cap-1 Maneuver	-	-	860	-	300 663
Stage 1	-	-	-	-	472 -
Stage 2	-	-	-	-	819 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	860	-	300 663
Mov Cap-2 Maneuver	-	-	-	-	300 -
Stage 1	-	-	-	-	472 -
Stage 2	-	-	-	-	819 -

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	860	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	892	164	359	879	12	108	0	247	30	30	12
Future Volume (veh/h)	4	892	164	359	879	12	108	0	247	30	30	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	959	176	386	945	13	116	0	266	32	32	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	311	991	840	410	1320	18	186	0	548	52	46	12
Arrive On Green	0.01	0.54	0.54	0.19	0.72	0.72	0.16	0.00	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1753	1841	1560	1767	1826	25	803	0	1560	74	283	73
Grp Volume(v), veh/h	4	959	176	386	0	958	116	0	266	77	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	803	0	1560	430	0	0
Q Serve(g_s), s	0.1	63.8	7.5	21.9	0.0	37.7	0.0	0.0	16.9	2.5	0.0	0.0
Cycle Q Clear(g_c), s	0.1	63.8	7.5	21.9	0.0	37.7	18.0	0.0	16.9	20.5	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.42		0.17
Lane Grp Cap(c), veh/h	311	991	840	410	0	1338	186	0	548	110	0	0
V/C Ratio(X)	0.01	0.97	0.21	0.94	0.00	0.72	0.62	0.00	0.49	0.70	0.00	0.00
Avail Cap(c_a), veh/h	385	1008	854	506	0	1338	186	0	548	110	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	14.1	28.3	15.3	42.0	0.0	10.1	52.2	0.0	32.2	52.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	20.8	0.1	21.7	0.0	1.9	4.7	0.0	0.2	15.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	31.2	2.6	14.1	0.0	13.0	3.8	0.0	6.4	3.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.1	49.1	15.4	63.7	0.0	12.0	56.9	0.0	32.4	68.7	0.0	0.0
LnGrp LOS	B	D	B	E	A	B	E	A	C	E	A	A
Approach Vol, veh/h		1139			1344			382			77	
Approach Delay, s/veh		43.8			26.9			39.9			68.7	
Approach LOS		D			C			D			E	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	28.1	73.8		25.0	4.7	97.3		25.0				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	23.9	65.8		22.5	2.1	39.7		20.0				
Green Ext Time (p_c), s	0.2	2.6		0.0	0.0	10.8		0.0				
<b>Intersection Summary</b>												
HCM 6th Ctrl Delay				36.2								
HCM 6th LOS				D								
<b>Notes</b>												
User approved pedestrian interval to be less than phase max green.												



HCM 6th TWSC  
2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	115.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	256	156	173	446	342	96
Future Vol, veh/h	256	156	173	446	342	96
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	278	170	188	485	372	104
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	278	0	1139	278
Stage 1	-	-	-	-	278	-
Stage 2	-	-	-	-	861	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1273	-	~ 223	761
Stage 1	-	-	-	-	769	-
Stage 2	-	-	-	-	414	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1273	-	~ 190	761
Mov Cap-2 Maneuver	-	-	-	-	~ 190	-
Stage 1	-	-	-	-	769	-
Stage 2	-	-	-	-	~ 353	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	2.3	\$ 385.1			
HCM LOS	F					
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	190	761	-	-	1273	-
HCM Lane V/C Ratio	1.957	0.137	-	-	0.148	-
HCM Control Delay (s)	\$ 490.2	10.5	-	-	8.3	-
HCM Lane LOS	F	B	-	-	A	-
HCM 95th %tile Q(veh)	27.7	0.5	-	-	0.5	-
Notes						
~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    *: All major volume in platoon						

HCM 6th Roundabout  
 3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	10.3		
Intersection LOS	B		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	334	866	231
Demand Flow Rate, veh/h	341	875	238
Vehicles Circulating, veh/h	470	70	239
Vehicles Exiting, veh/h	475	407	572
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	9.1	12.0	5.5
Approach LOS	A	B	A
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	341	875	238
Cap Entry Lane, veh/h	854	1285	1081
Entry HV Adj Factor	0.980	0.990	0.971
Flow Entry, veh/h	334	866	231
Cap Entry, veh/h	838	1272	1050
V/C Ratio	0.399	0.681	0.220
Control Delay, s/veh	9.1	12.0	5.5
LOS	A	B	A
95th %tile Queue, veh	2	6	1

## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh35.8

Intersection LOS E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	104	12	173	1	22	18	330	152	6	33	159	283
Future Vol, veh/h	104	12	173	1	22	18	330	152	6	33	159	283
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2
Mvmt Flow	116	13	192	1	24	20	367	169	7	37	177	314
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left SB		NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right NB		SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	14.3	12.1	50.7	35.5
HCM LOS	B	B	F	E

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	68%	100%	0%	2%	7%
Vol Thru, %	31%	0%	6%	54%	33%
Vol Right, %	1%	0%	94%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	488	104	185	41	475
LT Vol	330	104	0	1	33
Through Vol	152	0	12	22	159
RT Vol	6	0	173	18	283
Lane Flow Rate	542	116	206	46	528
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.947	0.264	0.401	0.103	0.865
Departure Headway (Hd)	6.286	8.215	7.025	8.145	5.901
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	575	437	512	443	612
Service Time	4.339	5.978	4.787	6.145	3.954
HCM Lane V/C Ratio	0.943	0.265	0.402	0.104	0.863
HCM Control Delay	50.7	13.9	14.5	12.1	35.5
HCM Lane LOS	F	B	B	B	E
HCM 95th-tile Q	12.4	1	1.9	0.3	9.8

HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↘	↑	↘	
Traffic Vol, veh/h	352	0	0	619	0	0
Future Vol, veh/h	352	0	0	619	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	383	0	0	673	0	0






















Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	383	0	1056 192
Stage 1	-	-	-	-	383 -
Stage 2	-	-	-	-	673 -
Critical Hdwy	-	-	4.16	-	6.63 6.93
Critical Hdwy Stg 1	-	-	-	-	5.83 -
Critical Hdwy Stg 2	-	-	-	-	5.43 -
Follow-up Hdwy	-	-	2.238	-	3.519 3.319
Pot Cap-1 Maneuver	-	-	1161	-	235 818
Stage 1	-	-	-	-	660 -
Stage 2	-	-	-	-	506 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1161	-	235 818
Mov Cap-2 Maneuver	-	-	-	-	235 -
Stage 1	-	-	-	-	660 -
Stage 2	-	-	-	-	506 -

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1161	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	797	186	149	607	0	85	4	332	4	0	0
Future Volume (veh/h)	8	797	186	149	607	0	85	4	332	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	830	194	155	632	0	89	4	346	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	360	953	808	250	986	0	402	16	450	243	0	0
Arrive On Green	0.01	0.54	0.54	0.06	0.59	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1376	70	1522	683	0	0
Grp Volume(v), veh/h	8	830	194	155	632	0	93	0	346	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1446	0	1522	683	0	0
Q Serve(g_s), s	0.2	34.6	5.8	3.4	21.2	0.0	0.0	0.0	17.6	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	34.6	5.8	3.4	21.2	0.0	3.7	0.0	17.6	4.1	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.96		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	360	953	808	250	986	0	418	0	450	243	0	0
V/C Ratio(X)	0.02	0.87	0.24	0.62	0.64	0.00	0.22	0.00	0.77	0.02	0.00	0.00
Avail Cap(c_a), veh/h	462	1447	1227	728	1558	0	432	0	465	252	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.3	17.0	10.3	17.7	11.3	0.0	26.5	0.0	27.2	28.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	4.4	0.2	0.9	0.8	0.0	0.1	0.0	6.6	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	12.6	1.7	1.6	6.4	0.0	1.5	0.0	6.9	0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.3	21.4	10.5	18.6	12.2	0.0	26.6	0.0	33.9	28.1	0.0	0.0
LnGrp LOS	B	C	B	B	B	A	C	A	C	C	A	A
Approach Vol, veh/h		1032			787			439				4
Approach Delay, s/veh		19.2			13.4			32.3				28.1
Approach LOS		B			B			C				C
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.4	51.3		24.2	4.9	55.8		24.2				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	5.4	36.6		6.1	2.2	23.2		19.6				
Green Ext Time (p_c), s	0.1	9.1		0.0	0.0	5.6		0.1				

Intersection Summary

HCM 6th Ctrl Delay	19.8
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.

HCM 6th TWSC  
 2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	5.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	522	329	68	135	156	127
Future Vol, veh/h	522	329	68	135	156	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	1	1	13	13	15	15
Mvmt Flow	561	354	73	145	168	137
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	561	0	852	561
Stage 1	-	-	-	-	561	-
Stage 2	-	-	-	-	291	-
Critical Hdwy	-	-	4.23	-	6.55	6.35
Critical Hdwy Stg 1	-	-	-	-	5.55	-
Critical Hdwy Stg 2	-	-	-	-	5.55	-
Follow-up Hdwy	-	-	2.317	-	3.635	3.435
Pot Cap-1 Maneuver	-	-	958	-	313	503
Stage 1	-	-	-	-	546	-
Stage 2	-	-	-	-	730	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	958	-	289	503
Mov Cap-2 Maneuver	-	-	-	-	289	-
Stage 1	-	-	-	-	546	-
Stage 2	-	-	-	-	675	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	3	25.1			
HCM LOS	D					
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	289	503	-	-	958	-
HCM Lane V/C Ratio	0.58	0.271	-	-	0.076	-
HCM Control Delay (s)	33.4	14.8	-	-	9.1	-
HCM Lane LOS	D	B	-	-	A	-
HCM 95th %tile Q(veh)	3.4	1.1	-	-	0.2	-

HCM 6th Roundabout  
 3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	10.1		
Intersection LOS	B		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	539	320	569
Demand Flow Rate, veh/h	550	323	575
Vehicles Circulating, veh/h	112	63	458
Vehicles Exiting, veh/h	274	970	204
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	7.6	5.0	15.5
Approach LOS	A	A	C
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	550	323	575
Cap Entry Lane, veh/h	1231	1294	865
Entry HV Adj Factor	0.980	0.990	0.990
Flow Entry, veh/h	539	320	569
Cap Entry, veh/h	1206	1282	856
V/C Ratio	0.447	0.250	0.665
Control Delay, s/veh	7.6	5.0	15.5
LOS	A	A	C
95th %tile Queue, veh	2	1	5

## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh 15

Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	279	7	227	5	23	26	139	150	3	5	123	70
Future Vol, veh/h	279	7	227	5	23	26	139	150	3	5	123	70
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6
Mvmt Flow	307	8	249	5	25	29	153	165	3	5	135	77
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	15.6	10.3	16.4	12.6
HCM LOS	C	B	C	B

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	48%	100%	0%	9%	3%
Vol Thru, %	51%	0%	3%	43%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	279	234	54	198
LT Vol	139	279	0	5	5
Through Vol	150	0	7	23	123
RT Vol	3	0	227	26	70
Lane Flow Rate	321	307	257	59	218
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.546	0.58	0.401	0.106	0.365
Departure Headway (Hd)	6.126	6.807	5.609	6.424	6.034
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	587	530	640	553	594
Service Time	4.188	4.566	3.367	4.517	4.104
HCM Lane V/C Ratio	0.547	0.579	0.402	0.107	0.367
HCM Control Delay	16.4	18.6	12.1	10.3	12.6
HCM Lane LOS	C	C	B	B	B
HCM 95th-tile Q	3.3	3.7	1.9	0.4	1.7



HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↘	↑	↘	
Traffic Vol, veh/h	615	34	41	199	4	6
Future Vol, veh/h	615	34	41	199	4	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	1	13	13	2	2
Mvmt Flow	668	37	45	216	4	7

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	705	0	993 353
Stage 1	-	-	-	-	687 -
Stage 2	-	-	-	-	306 -
Critical Hdwy	-	-	4.295	-	6.63 6.93
Critical Hdwy Stg 1	-	-	-	-	5.83 -
Critical Hdwy Stg 2	-	-	-	-	5.43 -
Follow-up Hdwy	-	-	2.3235	-	3.519 3.319
Pot Cap-1 Maneuver	-	-	832	-	257 644
Stage 1	-	-	-	-	462 -
Stage 2	-	-	-	-	746 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	832	-	243 644
Mov Cap-2 Maneuver	-	-	-	-	243 -
Stage 1	-	-	-	-	462 -
Stage 2	-	-	-	-	706 -

Approach	EB	WB	NB
HCM Control Delay, s	0	1.6	14.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	388	-	-	832	-
HCM Lane V/C Ratio	0.028	-	-	0.054	-
HCM Control Delay (s)	14.5	-	-	9.6	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

HCM 6th Signalized Intersection Summary  
 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	892	167	362	879	12	128	0	263	30	30	12
Future Volume (veh/h)	4	892	167	362	879	12	128	0	263	30	30	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	959	180	389	945	13	138	0	283	32	32	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	9	989	838	413	1323	18	185	0	551	40	34	7
Arrive On Green	0.01	0.54	0.54	0.19	0.72	0.72	0.16	0.00	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1753	1841	1560	1767	1826	25	803	0	1560	0	209	43
Grp Volume(v), veh/h	4	959	180	389	0	958	138	0	283	77	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	803	0	1560	252	0	0
Q Serve(g_s), s	0.3	64.2	7.7	22.3	0.0	37.7	0.0	0.0	18.3	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.3	64.2	7.7	22.3	0.0	37.7	20.5	0.0	18.3	20.5	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.42		0.17
Lane Grp Cap(c), veh/h	9	989	838	413	0	1341	185	0	551	80	0	0
V/C Ratio(X)	0.44	0.97	0.21	0.94	0.00	0.71	0.74	0.00	0.51	0.96	0.00	0.00
Avail Cap(c_a), veh/h	82	1003	850	502	0	1341	185	0	551	80	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	63.3	28.5	15.4	42.3	0.0	10.0	54.2	0.0	32.6	53.7	0.0	0.0
Incr Delay (d2), s/veh	11.9	21.3	0.2	22.3	0.0	1.9	13.4	0.0	0.4	85.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	31.6	2.6	14.3	0.0	13.0	5.1	0.0	6.9	4.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.2	49.9	15.6	64.6	0.0	12.0	67.6	0.0	33.0	138.8	0.0	0.0
LnGrp LOS	E	D	B	E	A	B	E	A	C	F	A	A
Approach Vol, veh/h		1143			1347			421			77	
Approach Delay, s/veh		44.6			27.2			44.3			138.8	
Approach LOS		D			C			D			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	28.5	74.0		25.0	4.7	97.9		25.0				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	24.3	66.2		22.5	2.3	39.7		22.5				
Green Ext Time (p_c), s	0.2	2.3		0.0	0.0	10.8		0.0				

Intersection Summary

HCM 6th Ctrl Delay	39.1
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

HCM 6th Roundabout  
 2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh	13.8		
Intersection LOS	B		
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	449	706	480
Demand Flow Rate, veh/h	467	734	489
Vehicles Circulating, veh/h	218	379	290
Vehicles Exiting, veh/h	895	400	395
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	8.0	20.6	9.2
Approach LOS	A	C	A
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	467	734	489
Cap Entry Lane, veh/h	1105	937	1027
Entry HV Adj Factor	0.961	0.962	0.982
Flow Entry, veh/h	449	706	480
Cap Entry, veh/h	1062	902	1008
V/C Ratio	0.423	0.783	0.476
Control Delay, s/veh	8.0	20.6	9.2
LOS	A	C	A
95th %tile Queue, veh	2	8	3

HCM 6th Roundabout  
3: SW Murdock Road & SW Oregon Road

05/28/2021

Intersection			
Intersection Delay, s/veh10.5			
Intersection LOS B			
Approach	EB	WB	NB
Entry Lanes	1	1	1
Conflicting Circle Lanes	1	1	1
Adj Approach Flow, veh/h	334	876	232
Demand Flow Rate, veh/h	341	885	239
Vehicles Circulating, veh/h	480	70	239
Vehicles Exiting, veh/h	475	408	582
Ped Vol Crossing Leg, #/h	0	0	0
Ped Cap Adj	1.000	1.000	1.000
Approach Delay, s/veh	9.3	12.3	5.5
Approach LOS	A	B	A
Lane	Left	Left	Left
Designated Moves	TR	LT	LR
Assumed Moves	TR	LT	LR
RT Channelized			
Lane Util	1.000	1.000	1.000
Follow-Up Headway, s	2.609	2.609	2.609
Critical Headway, s	4.976	4.976	4.976
Entry Flow, veh/h	341	885	239
Cap Entry Lane, veh/h	846	1285	1081
Entry HV Adj Factor	0.980	0.990	0.971
Flow Entry, veh/h	334	876	232
Cap Entry, veh/h	829	1272	1050
V/C Ratio	0.403	0.689	0.221
Control Delay, s/veh	9.3	12.3	5.5
LOS	A	B	A
95th %tile Queue, veh	2	6	1

HCM 6th AWSC

4: SW Murdock Road & SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh 17.5  
 Intersection LOS C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293
Future Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2
Mvmt Flow	117	13	192	1	24	20	367	169	7	37	177	326
Number of Lanes	1	1	0	0	1	0	1	1	0	0	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	2	2
Conflicting Approach Left SB		NB	EB	WB
Conflicting Lanes Left	2	2	2	1
Conflicting Approach Right NB		SB	WB	EB
Conflicting Lanes Right	2	2	1	2
HCM Control Delay	13.7	12	22.5	15.2
HCM LOS	B	B	C	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	2%	17%	0%
Vol Thru, %	0%	96%	0%	6%	54%	83%	0%
Vol Right, %	0%	4%	0%	94%	44%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	330	158	105	185	41	192	293
LT Vol	330	0	105	0	1	33	0
Through Vol	0	152	0	12	22	159	0
RT Vol	0	6	0	173	18	0	293
Lane Flow Rate	367	176	117	206	46	213	326
Geometry Grp	7	7	7	7	6	7	7
Degree of Util (X)	0.734	0.325	0.26	0.385	0.101	0.407	0.549
Departure Headway (Hd)	7.202	6.664	8.018	6.869	8.019	6.874	6.071
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	506	542	449	526	447	525	596
Service Time	4.914	4.377	5.751	4.569	6.058	4.588	3.785
HCM Lane V/C Ratio	0.725	0.325	0.261	0.392	0.103	0.406	0.547
HCM Control Delay	27.3	12.6	13.6	13.8	12	14.2	15.9
HCM Lane LOS	D	B	B	B	B	B	C
HCM 95th-tile Q	6.1	1.4	1	1.8	0.3	2	3.3

HCM 6th TWSC  
 5: Site Access & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	1.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑		↘	↑	↘	
Traffic Vol, veh/h	352	4	6	619	30	36
Future Vol, veh/h	352	4	6	619	30	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	383	4	7	673	33	39

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	387	0	1072 194
Stage 1	-	-	-	-	385 -
Stage 2	-	-	-	-	687 -
Critical Hdwy	-	-	4.16	-	6.63 6.93
Critical Hdwy Stg 1	-	-	-	-	5.83 -
Critical Hdwy Stg 2	-	-	-	-	5.43 -
Follow-up Hdwy	-	-	2.238	-	3.519 3.319
Pot Cap-1 Maneuver	-	-	1157	-	229 815
Stage 1	-	-	-	-	658 -
Stage 2	-	-	-	-	498 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1157	-	228 815
Mov Cap-2 Maneuver	-	-	-	-	228 -
Stage 1	-	-	-	-	658 -
Stage 2	-	-	-	-	495 -

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	16.8
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	376	-	-	1157	-
HCM Lane V/C Ratio	0.191	-	-	0.006	-
HCM Control Delay (s)	16.8	-	-	8.1	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0.7	-	-	0	-

HCM 6th TWSC  
2: SW Tonquin Road & SW Oregon Road

05/28/2021

Intersection						
Int Delay, s/veh	134.9					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↗	↘	↑	↘	↗
Traffic Vol, veh/h	257	156	193	456	342	99
Future Vol, veh/h	257	156	193	456	342	99
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Yield	-	None	-	None
Storage Length	-	215	190	-	0	210
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	279	170	210	496	372	108
Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	279	0	1195	279
Stage 1	-	-	-	-	279	-
Stage 2	-	-	-	-	916	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1272	-	~ 206	760
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	390	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1272	-	~ 172	760
Mov Cap-2 Maneuver	-	-	-	-	~ 172	-
Stage 1	-	-	-	-	768	-
Stage 2	-	-	-	-	~ 326	-
Approach	EB	WB	NB			
HCM Control Delay, s	0	2.5	\$ 456			
HCM LOS	F					
Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	172	760	-	-	1272	-
HCM Lane V/C Ratio	2.161	0.142	-	-	0.165	-
HCM Control Delay (s)	\$ 584.9	10.5	-	-	8.4	-
HCM Lane LOS	F	B	-	-	A	-
HCM 95th %tile Q(veh)	29.7	0.5	-	-	0.6	-
Notes						
~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    *: All major volume in platoon						

## HCM 6th AWSC

## 4: SW Murdock Road &amp; SW Sunset Boulevard/McKinley Drive

05/28/2021

**Intersection**

Intersection Delay, s/veh 37.2

Intersection LOS E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293
Future Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2
Mvmt Flow	117	13	192	1	24	20	367	169	7	37	177	326
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	2	1	1
Conflicting Approach Left SB		NB	EB	WB
Conflicting Lanes Left	1	1	2	1
Conflicting Approach Right NB		SB	WB	EB
Conflicting Lanes Right	1	1	1	2
HCM Control Delay	14.3	12.1	51.7	38.3
HCM LOS	B	B	F	E

Lane	NBLn1	EBLn1	EBLn2	WBLn1	SBLn1
Vol Left, %	68%	100%	0%	2%	7%
Vol Thru, %	31%	0%	6%	54%	33%
Vol Right, %	1%	0%	94%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	488	105	185	41	485
LT Vol	330	105	0	1	33
Through Vol	152	0	12	22	159
RT Vol	6	0	173	18	293
Lane Flow Rate	542	117	206	46	539
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.951	0.267	0.403	0.103	0.885
Departure Headway (Hd)	6.317	8.25	7.059	8.103	5.91
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	575	435	508	440	614
Service Time	4.371	6.012	4.821	6.202	3.961
HCM Lane V/C Ratio	0.943	0.269	0.406	0.105	0.878
HCM Control Delay	51.7	14	14.5	12.1	38.3
HCM Lane LOS	F	B	B	B	E
HCM 95th-tile Q	12.6	1.1	1.9	0.3	10.5





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## **Exhibit H: Neighborhood Meeting Documentation**

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## PLANNING DEPARTMENT NEIGHBORHOOD MEETING PACKET

(Required for all Type III, IV or V projects)

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Submit the following with land use application materials to the City of Sherwood Planning Department, 22560 SW Pine St., Sherwood, OR 97140: (503) 625-5522.

The purpose of the neighborhood meeting is to solicit input and exchange information about the proposed development per Sherwood Zoning and Community Development Code 16.70.020.

The meeting must be held in a public location **prior** to submitting a land use application.

Affidavits of mailing to adjacent property owners that are within 1,000 feet of the subject application.

Sign-in sheet(s)

Summary of the meeting notes

*(Projects requiring a neighborhood meeting in which the City or Urban Renewal District is the property owner or applicant shall also provide published and posted notice of the neighborhood meeting consistent with the notice requirements in 16.72.020.)*

**Affidavit of Mailing**

DATE: June 8, 2021

STATE OF OREGON       )  
  )  
Washington County     )

Oregon Street Business Park

I, Mitchell Godwin, representative for the 21720 SW Oregon St proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on 06/08/2021.

Mitchell Godwin  
Representatives Name: Mitchell Godwin  
Name of the Organization: AKS Engineering + Forestry

June 8, 2021

**RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE**  
**Land Use Application for a Business Park at 21720 SW Oregon Street**

Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of five flex buildings (totaling ±90,800 square feet) and associated parking and landscaping and other site improvements. The site is zoned Employment Industrial and the planned buildings will primarily be for industrial tenants within a variety of spaces, but future commercial uses as allowed by the City of Sherwood's Zoning and Community Development Code (SZCDC) may also be possible.

**You are invited to attend the virtual meeting on:**

**June 22, 2021 at 6:00 PM**

**See enclosed instructions to join the meeting.**

A Virtual Neighborhood Meeting will be held on June 22, 2021 to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

Please note this meeting will be an informational meeting on preliminary development plans and may be recorded. These plans may be altered prior to submittal of the application to the City of Sherwood.

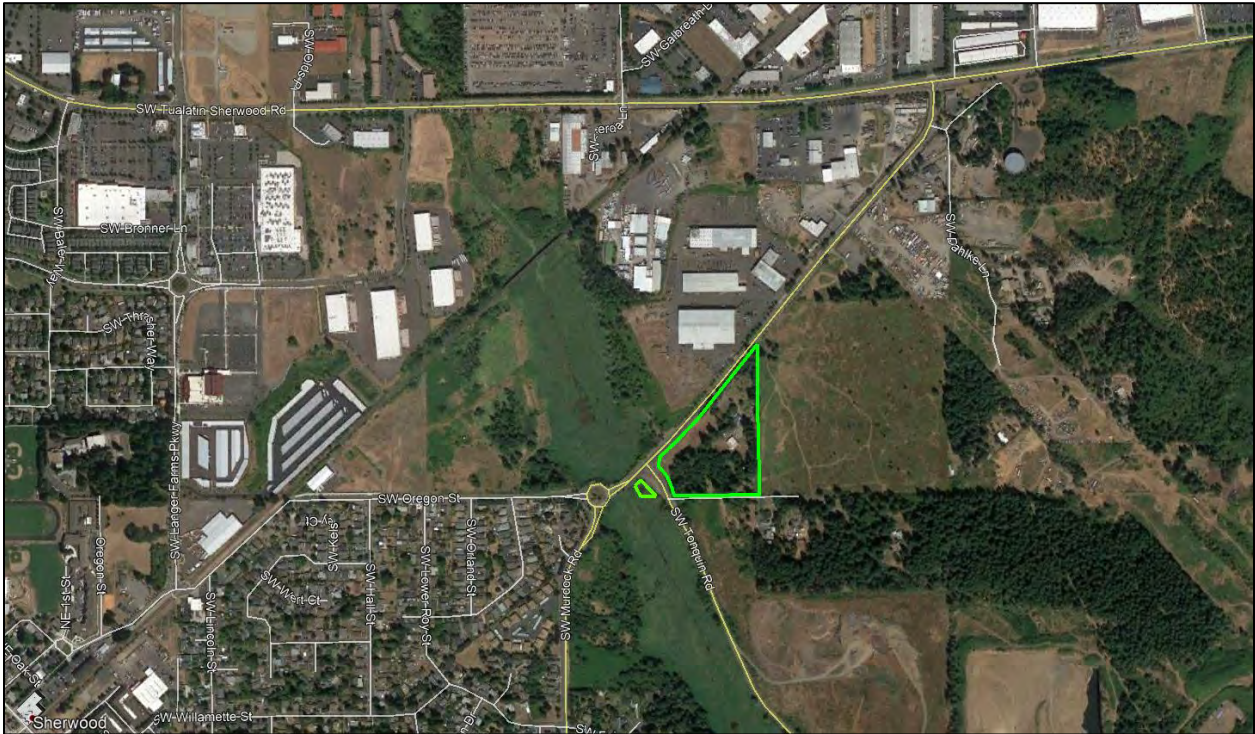
I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

Sincerely,

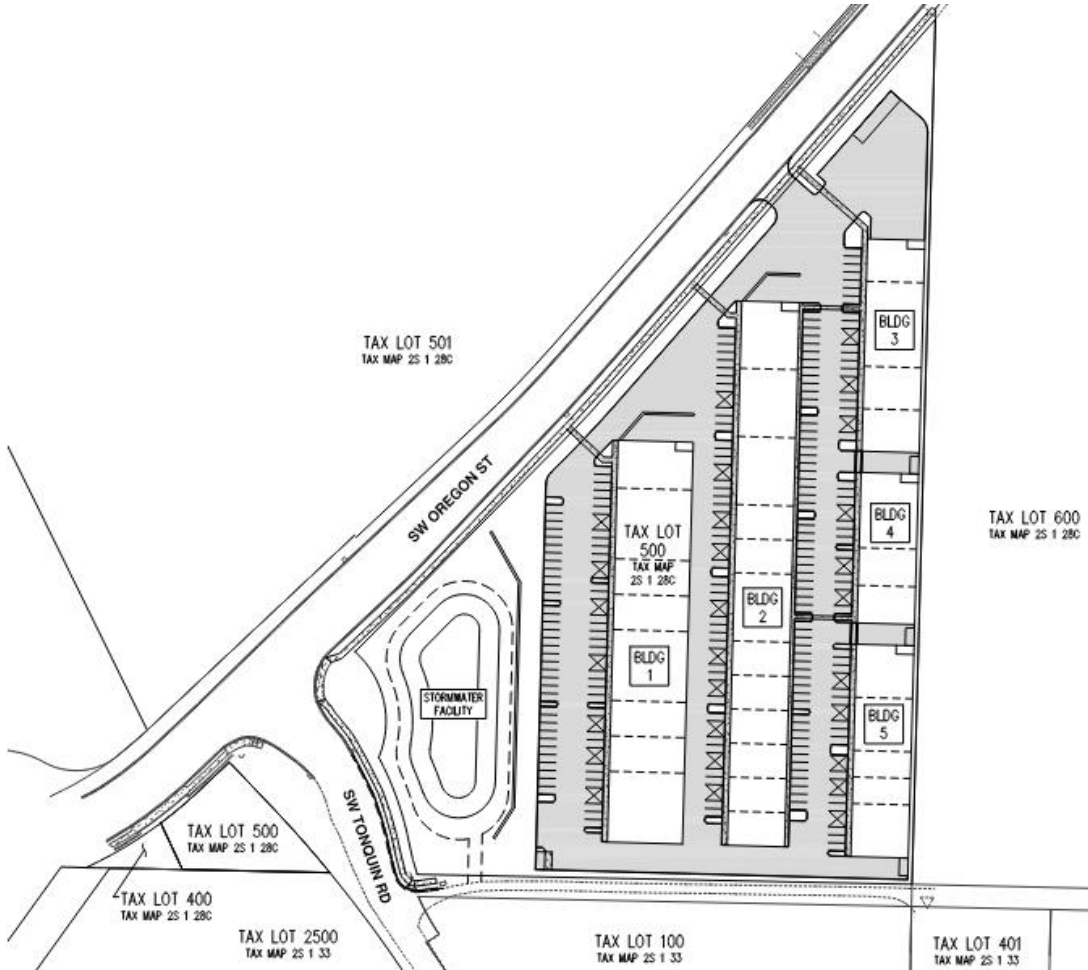
**AKS ENGINEERING & FORESTRY, LLC**

Glen Southerland, AICP  
12965 SW Herman Road, Suite 100  
Tualatin, OR 97062  
503-563-6151 | [southerlandg@aks-eng.com](mailto:southerlandg@aks-eng.com)

Vicinity Map



Site Plan



# Instructions for Joining & Participating in the Public Neighborhood Meeting for Oregon Street Business Park

Virtual Meeting provided via Zoom Webinar

**June 22, 2021 at 6:00 PM**

## **Please Register in Advance**

**(a list of attendees will be submitted to the City of Sherwood):**

- Go online to <https://www.aks-eng.com/or-st-business-park/> This must be typed in exactly as shown.
- Click on the link provided to complete the online registration form.
- You will receive a confirmation email containing a link to join the Zoom webinar at the scheduled time as well as additional instructions.
- Meeting materials will be available upon request at least 10 days after the meeting concludes.

## **How to Join the Meeting:**

### **Join by computer, tablet or smartphone**

- **This is the preferred method as it allows you to see the Presenter's materials on screen.**
- Click on the "Click this URL join" link provided in your registration confirmation email.
- If you registered but did not receive a confirmation email, please check your junk/spam folder before contacting the Meeting Administrator.
- You may be prompted to "download and run Zoom" or to install the App (ZOOM cloud meetings). Follow the prompts or bypass this process by clicking "join from your browser".
- You should automatically be connected to the virtual neighborhood meeting.

### **Join by telephone**

- Dial any of the toll-free Zoom numbers below to connect to the neighborhood meeting:

+ 1-346-248-7799	+ 1-669-900-6833
+ 1-253-215-8782	+ 1-312-626-6799
+ 1-929-205-6099	+ 1-301-715-8592

- If you experience trouble connecting, please pick another number and try again.
- After dialing in, enter this Zoom ID when prompted: **851 1081 4465**
- The passcode, if needed is: **6151**

#### **MEETING ADMINISTRATOR:**

For technical assistance or to ask  
a question if you will not be able to attend:

**Email: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)**

## During the Meeting

### Audio Help

- Meeting attendees will be muted throughout the presentation. This will allow everyone to hear the presentation clearly without added distractions.
- Make sure that the speakers on your device are turned on and not muted.
- If you do not have speakers on your computer, you can join by phone (using the “Join by telephone” instructions) to hear the presentation while watching the presentation on your computer monitor.

### Questions & Answers

Your questions are important to us. There will be time reserved during the meeting to take questions, using one of the submission options below. Our presentation team will make their best effort to answer all question(s) during the meeting.

#### Prior to the Meeting:

- If you will not be able to attend, you can email your question(s) in advance to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

#### During the Meeting:

- **Preferred Method:** Use the “Chat” button on the bottom of the presentation screen to submit a question in real time.

#### After the Meeting:

- We will continue to take questions after the meeting has ended. Please submit your question(s) to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)
- All questions received after the meeting will be answered in an email to all registered meeting participants by end of business the following day.

## Helpful Hints/Troubleshooting

**We want to start on time! Please join the meeting 5-10 minutes prior to the 6:00 PM start time to ensure successful connection.**

- You do not need a Zoom account to join the meeting.
- You will need a valid email address at the time of registration to receive the confirmation email and link to join the webinar or receive answers to any questions submitted after the meeting.
- For first-time Zoom users, we recommend downloading and installing the Zoom App well in advance, by clicking on the “Click Here to Join” link in your confirmation email.
- For technical assistance, please contact the Meeting Administrator (contact above).
- If you have difficulties connecting by computer, tablet, or smartphone, we suggest disconnecting and instead use the “Join by telephone” instructions to listen in.

## NEIGHBORHOOD MEETING SIGN IN SHEET

**Proposed Project:** Oregon Street Business Park

**Proposed Project Location:** 21720 SW Oregon Street - 2S128C000500

**Project Contact:** AKS Engineering & Forestry, LLC - Glen Southerland, AICP

**Meeting Location:** Virtual - Zoom Webinar

**Meeting Date:** 6/23/21 - 6:00 p.m.

Name	Address	E-Mail	Please identify yourself (check all that apply)			
			Resident	Property owner	Business owner	Other
No members of the public attended						





June 24, 2021

**Re: Neighborhood Meeting Minutes  
Oregon Street Business Park  
City of Sherwood Project No. PAC 2020-010**

**Meeting Date:** June 22, 2021

**Time:** 6:00 p.m.

**Location:** Virtual Meeting was held via Zoom Webinar

The applicant conducted a neighborhood meeting in accordance with applicable City regulations to discuss a site and design review application for an industrial business park. Prior to the meeting, materials were uploaded to a project website at <https://www.aks-eng.com/or-st-business-park/>.

This meeting was held via a Zoom Webinar in accordance with the City's Neighborhood Meeting Guidelines. Mimi Doukas, John Christiansen, and Glen Southerland from AKS Engineering & Forestry, LLC and Bruce Polley from Oregon Street Business Park, LLC were present. No members of the public attended the meeting.

Having no members of the public in attendance, the meeting concluded at 6:15 p.m.

Sincerely,

**AKS ENGINEERING & FORESTRY, LLC**

A handwritten signature in black ink, appearing to read 'G. Southerland', written over a light blue horizontal line.

**Glen Southerland, AICP**

12965 SW Herman Road, Suite 100

Tualatin, OR 97062

503-563-6151 | [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

### Affidavit of Mailing

DATE: 5/17/22

STATE OF OREGON        )  
                                  )  
Washington County     )

I, GLEN SOUTHERLAND, representative for the OREGON STREET BUSINESS PARK proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on 5/16/22.



Representatives Name: GLEN SOUTHERLAND  
Name of the Organization: AKS ENGINEERING & FORESTRY, LLC

May 16, 2022

**RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE**  
**Land Use Application for a Business Park at 21720 SW Oregon Street**

Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of four flex buildings (totaling ±115,170 square feet), associated parking and landscaping and other site improvements. The application also includes a variance for reduced building setback along SW Laurelwood Way, a new public street right-of-way along the site's eastern boundary. The site is zoned Employment Industrial and the planned buildings will primarily be for industrial tenants within a variety of spaces, but future commercial uses as allowed by the City of Sherwood's Zoning and Community Development Code (SZCDC) may also be possible.

**You are invited to attend the virtual meeting on:**

**May 30, 2022, at 6:00 PM**

**See enclosed instructions to join the meeting.**

A Virtual Neighborhood Meeting will be held on May 30, 2022, to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

Please note this meeting will be an informational meeting on preliminary development plans and may be recorded. These plans may be altered prior to submittal of the application to the City of Sherwood.

I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

Sincerely,

**AKS ENGINEERING & FORESTRY, LLC**



Glen Southerland, AICP  
12965 SW Herman Road, Suite 100  
Tualatin, OR 97062  
503-563-6151 | [southerlandg@aks-eng.com](mailto:southerlandg@aks-eng.com)



# Instructions for Joining & Participating in the Public Neighborhood Meeting for Oregon Street Business Park

Virtual Meeting provided via Zoom Webinar

**May 30, 2022, at 6:00 PM**

## **Please Register in Advance**

**(a list of attendees will be submitted to the City of Sherwood):**

- Go online to <https://www.aks-eng.com/or-st-business-park/> This must be typed in exactly as shown.
- Click on the link provided to complete the online registration form.
- You will receive a confirmation email containing a link to join the Zoom webinar at the scheduled time as well as additional instructions.
- Meeting materials will be available upon request at least 10 days after the meeting concludes.

## **How to Join the Meeting:**

### **Join by computer, tablet or smartphone**

- **This is the preferred method as it allows you to see the Presenter's materials on screen.**
- Click on the "Click this URL join" link provided in your registration confirmation email.
- If you registered but did not receive a confirmation email, please check your junk/spam folder before contacting the Meeting Administrator.
- You may be prompted to "download and run Zoom" or to install the App (ZOOM cloud meetings). Follow the prompts or bypass this process by clicking "join from your browser".
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### **Join by telephone**

- Dial any of the toll-free Zoom numbers below to connect to the neighborhood meeting:

+ 1-346-248-7799	+ 1-669-900-6833
+ 1-253-215-8782	+ 1-312-626-6799
+ 1-929-205-6099	+ 1-301-715-8592

- If you experience trouble connecting, please pick another number and try again.
- After dialing in, enter this Zoom ID when prompted: **831 7246 5718**
- The passcode, if needed is: **6151**

#### **MEETING ADMINISTRATOR:**

For technical assistance or to ask  
a question if you will not be able to attend:

Email: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

## During the Meeting

### Audio Help

- Meeting attendees will be muted throughout the presentation. This will allow everyone to hear the presentation clearly without added distractions.
- Make sure that the speakers on your device are turned on and not muted.
- If you do not have speakers on your computer, you can join by phone (using the “Join by telephone” instructions) to hear the presentation while watching the presentation on your computer monitor.

### Questions & Answers

Your questions are important to us. There will be time reserved during the meeting to take questions, using one of the submission options below. Our presentation team will make their best effort to answer all question(s) during the meeting.

#### Prior to the Meeting:

- If you will not be able to attend, you can email your question(s) in advance to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

#### During the Meeting:

- **Preferred Method:** Use the “Chat” button on the bottom of the presentation screen to submit a question in real time.

#### After the Meeting:

- We will continue to take questions after the meeting has ended. Please submit your question(s) to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)
- All questions received after the meeting will be answered in an email to all registered meeting participants by end of business the following day.

## Helpful Hints/Troubleshooting

**We want to start on time! Please join the meeting 5-10 minutes prior to the 6:00 PM start time to ensure successful connection.**

- You do not need a Zoom account to join the meeting.
- You will need a valid email address at the time of registration to receive the confirmation email and link to join the webinar or receive answers to any questions submitted after the meeting.
- For first-time Zoom users, we recommend downloading and installing the Zoom App well in advance, by clicking on the “Click Here to Join” link in your confirmation email.
- For technical assistance, please contact the Meeting Administrator (contact above).
- If you have difficulties connecting by computer, tablet, or smartphone, we suggest disconnecting and instead use the “Join by telephone” instructions to listen in.

**Affidavit of Mailing**

DATE: 5/24/22

STATE OF OREGON        )  
  )  
Washington County     )

I, GLEN SOUTHERLAND, representative for the LU 2021-015 OREGON STREET BUSINESS PARK proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on 5/23/22.



Representatives Name: GLEN SOUTHERLAND  
Name of the Organization: AKS ENGINEERING & FORESTRY, LLC

May 23, 2022

**RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE – CORRECTED DATE  
Land Use Application for a Business Park at 21720 SW Oregon Street**

Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of four flex buildings (totaling ±115,170 square feet), associated parking and landscaping and other site improvements. The application also includes a variance for reduced building setback along SW Laurelwood Way, a new public street right-of-way along the site's eastern boundary. The site is zoned Employment Industrial.

**You are invited to attend the virtual meeting on:**

**MAY 31, 2022, at 6:00 PM**

**See enclosed instructions to join the meeting.**

A Virtual Neighborhood Meeting will be held on May 31, 2022, to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

Please note this meeting will be an informational meeting on preliminary development plans and may be recorded. These plans may be altered prior to submittal of the application to the City of Sherwood.

I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

Sincerely,

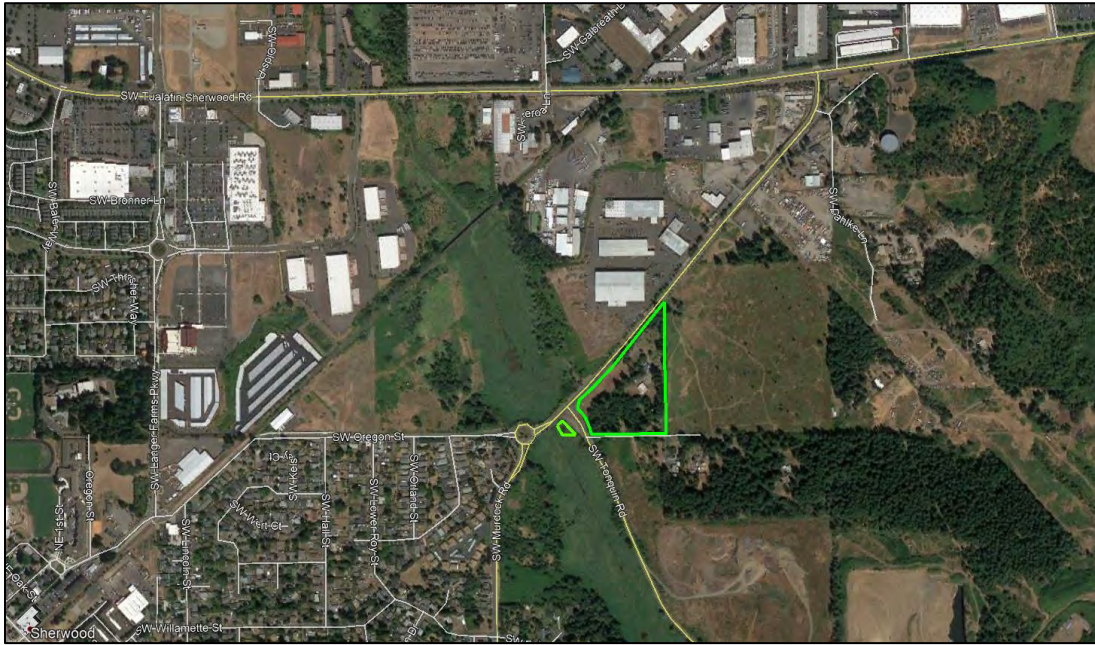
**AKS ENGINEERING & FORESTRY, LLC**



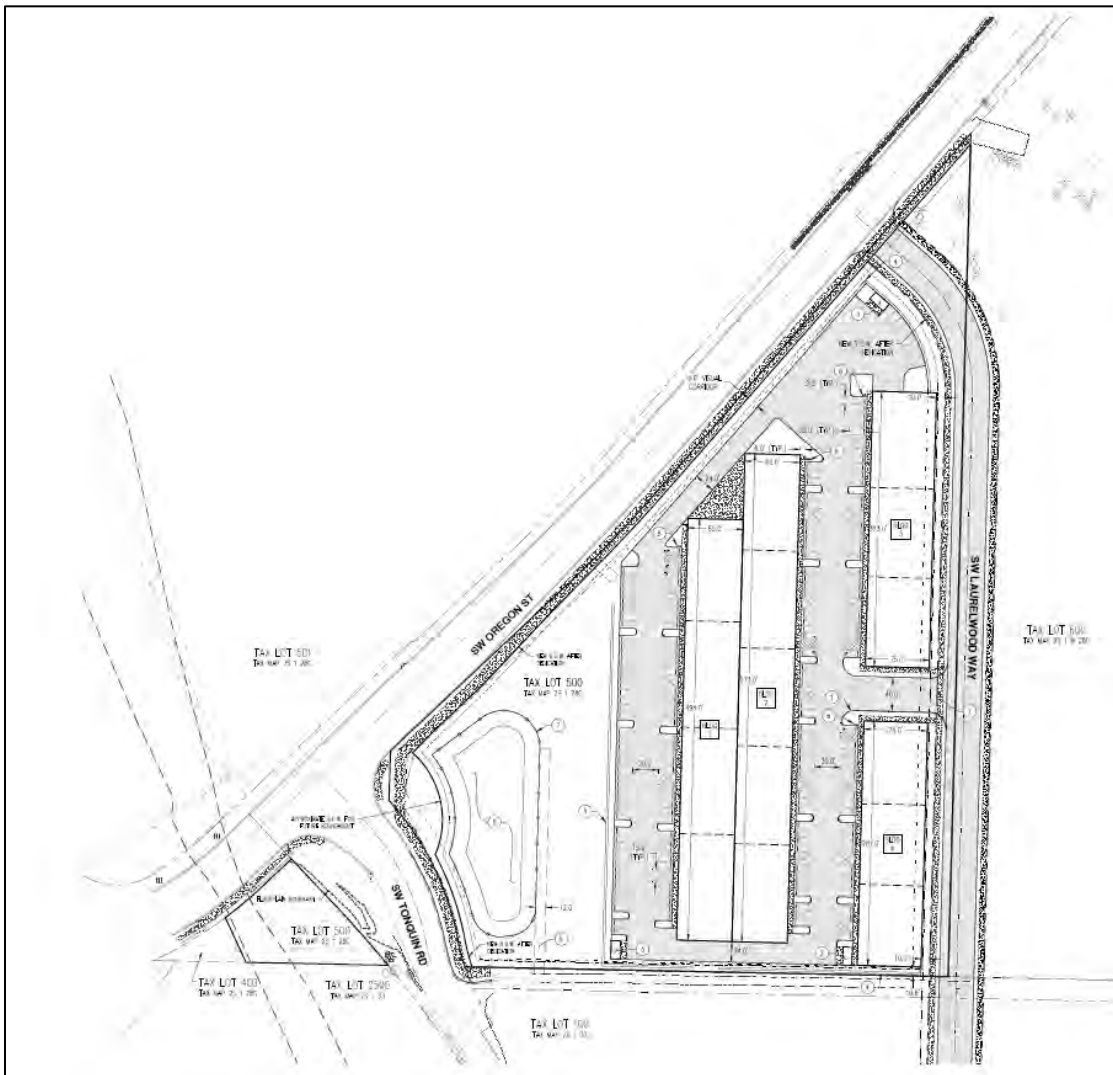
Glen Southerland, AICP  
12965 SW Herman Road, Suite 100  
Tualatin, OR 97062  
503-563-6151 | [southerlandg@aks-eng.com](mailto:southerlandg@aks-eng.com)



Vicinity Map



Site Plan



# Instructions for Joining & Participating in the Public Neighborhood Meeting for Oregon Street Business Park

Virtual Meeting provided via Zoom Webinar

**May 31, 2022, at 6:00 PM**

## Please Register in Advance

**(a list of attendees will be submitted to the City of Sherwood):**

- Go online to <https://www.aks-eng.com/or-st-business-park/> This must be typed in exactly as shown.
- Click on the link provided to complete the online registration form.
- You will receive a confirmation email containing a link to join the Zoom webinar at the scheduled time as well as additional instructions.
- Meeting materials will be available upon request at least 10 days after the meeting concludes.

## How to Join the Meeting:

### Join by computer, tablet or smartphone

- **This is the preferred method as it allows you to see the Presenter's materials on screen.**
- Click on the "Click this URL join" link provided in your registration confirmation email.
- If you registered but did not receive a confirmation email, please check your junk/spam folder before contacting the Meeting Administrator.
- You may be prompted to "download and run Zoom" or to install the App (ZOOM cloud meetings). Follow the prompts or bypass this process by clicking "join from your browser".
- You should automatically be connected to the virtual neighborhood meeting.

### Join by telephone

- Dial any of the toll-free Zoom numbers below to connect to the neighborhood meeting:

+ 1-346-248-7799	+ 1-669-900-6833
+ 1-253-215-8782	+ 1-312-626-6799
+ 1-929-205-6099	+ 1-301-715-8592

- If you experience trouble connecting, please pick another number and try again.
- After dialing in, enter this Zoom ID when prompted: **831 7246 5718**
- The passcode, if needed is: **6151**

#### **MEETING ADMINISTRATOR:**

For technical assistance or to ask  
a question if you will not be able to attend:

Email: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

## During the Meeting

### Audio Help

- Meeting attendees will be muted throughout the presentation. This will allow everyone to hear the presentation clearly without added distractions.
- Make sure that the speakers on your device are turned on and not muted.
- If you do not have speakers on your computer, you can join by phone (using the “Join by telephone” instructions) to hear the presentation while watching the presentation on your computer monitor.

### Questions & Answers

Your questions are important to us. There will be time reserved during the meeting to take questions, using one of the submission options below. Our presentation team will make their best effort to answer all question(s) during the meeting.

#### Prior to the Meeting:

- If you will not be able to attend, you can email your question(s) in advance to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)

#### During the Meeting:

- **Preferred Method:** Use the “Chat” button on the bottom of the presentation screen to submit a question in real time.

#### After the Meeting:

- We will continue to take questions after the meeting has ended. Please submit your question(s) to the Meeting Administrator: [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)
- All questions received after the meeting will be answered in an email to all registered meeting participants by end of business the following day.

## Helpful Hints/Troubleshooting

**We want to start on time! Please join the meeting 5-10 minutes prior to the 6:00 PM start time to ensure successful connection.**

- You do not need a Zoom account to join the meeting.
- You will need a valid email address at the time of registration to receive the confirmation email and link to join the webinar or receive answers to any questions submitted after the meeting.
- For first-time Zoom users, we recommend downloading and installing the Zoom App well in advance, by clicking on the “Click Here to Join” link in your confirmation email.
- For technical assistance, please contact the Meeting Administrator (contact above).
- If you have difficulties connecting by computer, tablet, or smartphone, we suggest disconnecting and instead use the “Join by telephone” instructions to listen in.

## NEIGHBORHOOD MEETING SIGN IN SHEET

**Proposed Project:** Oregon Street Business Park

**Proposed Project Location:** 21720 SW Oregon Street - 2S128C000500

**Project Contact:** AKS Engineering & Forestry, LLC - Glen Southerland, AICP

**Meeting Location:** Virtual - Zoom Webinar

**Meeting Date:** 5/31/22 - 6:00 p.m.

Name	Address	E-Mail	Please identify yourself (check all that apply)			
			Resident	Property owner	Business owner	Other
No members of the public attended						



May 31, 2022

**Re: Neighborhood Meeting Minutes  
Oregon Street Business Park  
City of Sherwood Project No. LU 2021-015**

**Meeting Date:** May 31, 2022

**Time:** 6:00 p.m.

**Location:** Virtual Meeting was held via Zoom Webinar

The applicant conducted a neighborhood meeting in accordance with applicable City regulations to discuss a site, design review, and variance application for an industrial business park. Prior to the meeting, materials were uploaded to a project website at <https://www.aks-eng.com/or-st-business-park/>.

This meeting was held via a Zoom Webinar in accordance with the City's Neighborhood Meeting Guidelines. Glen Southerland, AICP from AKS Engineering & Forestry, LLC and Bruce Polley from Oregon Street Business Park, LLC were present. No members of the public attended the meeting.

Having no members of the public in attendance, the meeting concluded at 6:15 p.m.

Sincerely,

**AKS ENGINEERING & FORESTRY, LLC**

A handwritten signature in blue ink, appearing to read 'G. Southerland', written over a light blue horizontal line.

**Glen Southerland, AICP**

12965 SW Herman Road, Suite 100

Tualatin, OR 97062

503-563-6151 | [SoutherlandG@aks-eng.com](mailto:SoutherlandG@aks-eng.com)



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## **Exhibit I: Public Notice Information**

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Date of Production: 05/09/2022

## TERMS AND CONDITIONS OF INFORMATION REPORTS

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Exhibit A

2S132AA-12000  
David & Stephanie Zaganiacz  
3952 Carman Dr  
Lake Oswego, OR 97035

2S13300-00400  
Woodburn Industrial Capital Gr  
395 Shenandoah Ln NE  
Woodburn, OR 97071

2S133BB-00100  
Woodburn Industrial Capital Gr  
Po Box 1060  
Woodburn, OR 97071

2S128C0-00400  
Washington County Facilities M  
169 N 1st Ave # 42  
Hillsboro, OR 97124

2S129D0-00600  
Washington County Facilities M  
169 N 1st Ave # 42  
Hillsboro, OR 97124

2S128C0-00700  
Kenneth & Carol Vandomelen Trs &  
4825 SW Evans St  
Portland, OR 97219

2S13300-02500  
United States Of America Dept  
911 NE 11th Ave  
Portland, OR 97232

2S133BB-00200  
United States Of America Dept  
911 NE 11th Ave  
Portland, OR 97232

2S133BB-00400  
United States Of America Dept  
911 NE 11th Ave  
Portland, OR 97232

2S132AA-09900  
Dennis & Kristen Titko  
14603 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11500  
Amanda & Robert Taylor  
14596 SW Oregon St  
Sherwood, OR 97140

2S132AA-06600  
Gabriel Tanoue  
14616 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-09400  
Hyunsuk Seo & Bridget Loftis  
14645 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-07700  
Paul & Stephanie Spath  
14738 SW Brickyard Dr  
Sherwood, OR 97140

2S128C0-00204  
Sherwood City Of  
22560 SW Pine St  
Sherwood, OR 97140

2S128C0-00600  
Harsch Investment Properties L  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S132AA-00190  
Sherwood City Of  
22560 SW Pine St  
Sherwood, OR 97140

2S132AA-06200  
Sherwood City Of  
22560 SW Pine St  
Sherwood, OR 97140

2S13300-00200  
Harsch Investment Properties L  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S13300-00201  
Harsch Investment Properties L  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S13300-00300  
Sherwood Commerce Center Llc  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S13300-00401  
Harsch Investment Properties L  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S13300-00403  
W John  
1121 SW Salmon St STE 500  
Portland, OR 97205

2S133BB-00300  
Sherwood City Of  
22560 SW Pine St  
Sherwood, OR 97140

2S132AA-07300  
Abdallah Salame  
14694 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-09700  
Carol Riggs  
14619 SW Brickyard Dr  
Sherwood, OR 97140

2S128C0-00100  
Pride Properties Investments L  
Po Box 820  
Sherwood, OR 97140

2S128C0-00500  
Bruce & Karen Polley  
Po Box 1489  
Sherwood, OR 97140

2S132AA-11200  
Jason Berg & Rebecca Osmond  
22095 SW Chesapeake Pl  
Sherwood, OR 97140

2S128C0-00102  
Orwa Sherwood Llc  
8320 NE Highway 99  
Vancouver, WA 98665



## Exhibit A

2S132AA-10000  
N N & Astrida Clarice  
10410 Rainier Ave S  
Seattle, WA 98178

2S132AA-07000  
Audrey & Dawn Oleary  
14658 SW Brickyard Dr  
Sherwood, OR 97140

2S128C0-00200  
Northstar Chemical Inc  
14200 SW Tualatin Sherwood Rd STE B  
Sherwood, OR 97140

2S132AA-07500  
Alejandra Nicolas  
14718 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-06800  
Cindy Nevill  
14642 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-06900  
John & Orfilio Naranjo  
14650 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-06700  
Bonnie Miller  
14630 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11000  
Richard & Sandra Miles  
22115 SW Chesapeake Pl  
Sherwood, OR 97140

2S132AA-01101  
Michael D & Lawrence D Kay Llc  
22210 SW Murdock Rd  
Sherwood, OR 97140

2S132AA-07400  
Zeb Menle  
14706 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11400  
Ryan & Cara Mcclung  
11106 SW Oneida St  
Tualatin, OR 97062

2S132AA-09500  
Katherine & James Mcburnett  
14637 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-07600  
Ola Hopkins  
14730 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11900  
Calla Lilly  
22070 SW Chesapeake Pl  
Sherwood, OR 97140

2S132AA-07200  
David Krempley  
14680 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-07100  
Meghan & Meghan Jackson  
14672 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-09300  
Holly Jackson & William Lewis  
32055 NE Corral Creek Rd  
Newberg, OR 97132

2S128C0-00202  
J & L Rink Llc  
21433 SW Oregon St  
Sherwood, OR 97140

2S132AA-12200  
David Hiser  
22100 SW Chesapeake Pl  
Sherwood, OR 97140

2S132AA-09200  
Kenneth & Patricia Higgason  
14673 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-12100  
Preston & Rochelle Griffin  
22090 SW Chesapeake Pl  
Sherwood, OR 97140

2S132AA-09100  
Daniel Goodyear  
14685 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-09600  
David Garcia & Marisol Vega  
14625 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11100  
Katharine Lingemann  
22107 SW Chesapeake Pl  
Sherwood, OR 97140

2S132AA-11600  
Empyrean Real Estate Llc  
13751 SW Rock Creek Rd  
Sheridan, OR 97378

2S132AA-09800  
Blake & Joan Elison  
14615 SW Brickyard Dr  
Sherwood, OR 97140

2S128C0-00701  
Dahlke Lane Properties Llc  
4677 SE Concord Rd  
Portland, OR 97267

2S132AA-09000  
Debra Clemmens  
14723 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-11700  
Colleen & James Buckner  
59 Margate St  
Daly City, CA 94015

2S132AA-11300  
Sara & Anthony Betz  
10014 SW Conestoga Dr APT 158  
Beaverton, OR 97008

## Exhibit A

2S132AA-06500  
Keith Beaumont  
14602 SW Brickyard Dr  
Sherwood, OR 97140

2S132AA-10200  
Atley Estates Hoa  
14673 SW Brickyard Dr  
Sherwood, OR 97140

2S128C0-00201  
Allied Systems Company  
21433 SW Oregon St  
Sherwood, OR 97140

2S128C0-00501  
Allied Systems Company  
21433 SW Oregon St  
Sherwood, OR 97140

2S132AA-11800  
22060 Sw Chesapeake Place Llc  
Po Box 1626  
Sherwood, OR 97140

2S128C0-00400  
Washington County Facilities M  
169 N 1st Ave # 42  
Hillsboro, OR 97124

2S13300-02500  
United States Of America Dept  
911 NE 11th Ave  
Portland, OR 97232

2S128C0-00500  
Bruce D & Karen M Polley  
Po Box 1489  
Sherwood, OR 97140

2S128C0-00200  
Washington County  
14200 SW Tualatin Sherwood Rd  
Sherwood, OR 97140

2S128C0-00201  
Banc Of America  
Po Box 100918  
Atlanta, GA 30384

2S128C0-00201  
Allied Systems Company  
21433 SW Oregon St  
Sherwood, OR 97140

2S128C0-00201  
J & L Rink Llc  
21433 SW Oregon St  
Sherwood, OR 97140

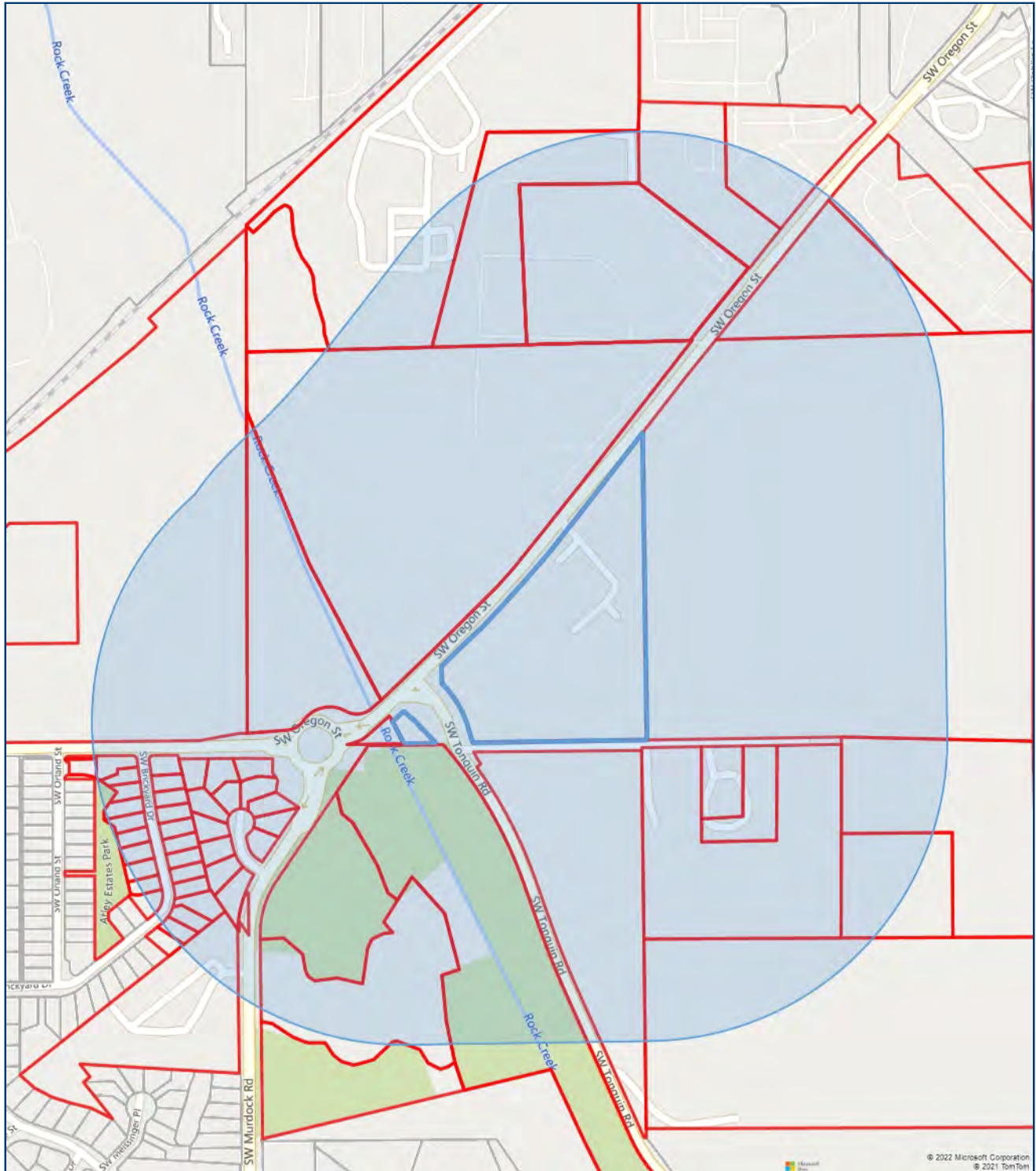
2S128C0-00501  
Allied Systems Company  
21433 SW Oregon St  
Sherwood, OR 97140



# 1000 ft Buffer

21720 SW Oregon St, Sherwood, OR 97140

Report Generated: 5/9/2022



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## Exhibit A

Customer Service Department

Phone: 503.219.8746(TRIO)

Email: cs.oregon@firstam.com

Report Generated: 5/9/2022

### Ownership

Legal Owner(s): Bruce & Karen Polley

Site Address: 21720 SW Oregon St Sherwood, OR 97140

Mailing Address: Po Box 1489 Sherwood, OR 97140

Parcel #: 2S128C0-00500

APN: R1492192

County: Washington

### Property Characteristics

Bedrooms: 2	Year Built: 1984	Lot SqFt: 402059
Total Bathrooms: 3	Building SqFt: 1568	Lot Acres: 9.23
Full Bathrooms: 2	First Floor SqFt: 1568	Roof Type:
Half Bathrooms: 0	Basement Sqft: 0	Roof Shape: GABLE
Units: 0	Basment Type:	Porch Type:
Stories:		Building Style:
Fire Place: Y		Garage: Carport
Air Conditioning:		Garage SqFt: 0
Heating Type: Forced air unit		Parking Spots: 1
Electric Type:		Pool:

### Property Information

Land Use:	Zoning: EI
Improvement Type:	School District: Sherwood School
Legal Description: ACRES 9.23, UNZONED FARMLAND LIEN \$2,896.94, CODE SPLIT, LAND HOOK, POTENTIAL ADDL TAX LIABILITY	Neighborhood: Sherwood - Tualatin
	Subdivision:

### Assessor & Tax

Market Land: \$6,000	Taxes: \$4,531.64
Market Total: \$6,000	% Improved: 2
Market Structure: \$0	Levy Code: 088.20
Assessed Total: \$252,430	Millage Rate: 18.4904

### Sale History

Last Sale Date: 3/24/2008	Doc #: 2008-025922	Last Sale Price: \$225,000
Prior Sale Date:	Prior Doc #:	Prior Sale Price: \$0

### Mortgage

1st Mortgage Date:	Doc #:	
1st Mortgage Type:	1st Mortgage Lender:	1st Mortgage: \$0
2nd Mortgage Type:		2nd Mortgage: \$0

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## Exhibit A

Customer Service Department  
Phone: 503.219.8746(TRIO)  
Email: cs.oregon@firstam.com  
Report Generated: 5/9/2022

### Ownership

Legal Owner(s): Bruce D & Karen M Polley	Parcel #: 2S128C0-00500
Site Address: 21720 SW Oregon St Sherwood, OR 97140	APN: R547466
Mailing Address: Po Box 1489 Sherwood, OR 97140	County: Washington

### Property Characteristics

Bedrooms: 0	Year Built: 0	Lot SqFt: 13068
Total Bathrooms: 0	Building SqFt: 0	Lot Acres: 0.30
Full Bathrooms: 0	First Floor SqFt: 1568	Roof Type:
Half Bathrooms: 0	Basement Sqft: 0	Roof Shape:
Units: 0	Basment Type:	Porch Type:
Stories:		Building Style:
Fire Place: N		Garage:
Air Conditioning:		Garage SqFt: 0
Heating Type:		Parking Spots: 0
Electric Type:		Pool:

### Property Information

Land Use:	Zoning: EI
Improvement Type:	School District: Sherwood School
Legal Description: ACRES 0.3, UNZONED FARMLAND LIEN \$367.19, CODE SPLIT, LAND HOOK, POTENTIAL ADDL TAX LIABILITY	Neighborhood: Sherwood - Tualatin
	Subdivision:

### Assessor & Tax

Market Land: \$6,000	Taxes: \$112.42
Market Total: \$6,000	% Improved: 0
Market Structure: \$0	Levy Code: 088.47
Assessed Total: \$6,000	Millage Rate: 18.7360

### Sale History

Last Sale Date: 3/24/2008	Doc #: 2008-025922	Last Sale Price: \$225,000
Prior Sale Date:	Prior Doc #:	Prior Sale Price: \$0

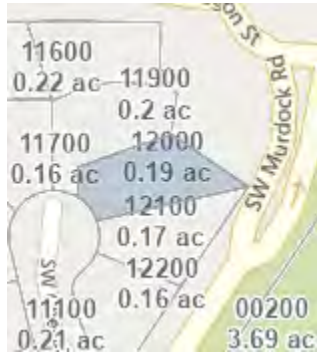
### Mortgage

1st Mortgage Date:	Doc #:	
1st Mortgage Type:	1st Mortgage Lender:	1st Mortgage: \$0
2nd Mortgage Type:		2nd Mortgage: \$0



## Exhibit A

Customer Service Department  
 Phone: 503.219.8746 (TRIO)  
 Email: cs.oregon@firstam.com  
 Report Generated: 5/9/2022



Legal Owner: David & Stephanie Zaganiacz  
 Site Address: 22080 SW Chesapeake Pl Sherwood, OR  
 Mailing Address: 3952 Carman Dr Lake Oswego, OR 97035  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 2,253      Lot Acres: 0.19  
 Year Built: 1994  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: CHESAPEAKE PARK, LOT 11, ACRES 0.19

APN: R2036401  
 Ref Parcel #: 2S132AA-12000  
 Taxes: \$4,993.18  
 Market Value: \$466,990  
 Assessed Value: \$278,140  
 Sales Price: \$502,000  
 Transfer Date: 7/14/2021



Legal Owner: Woodburn Industrial Capital Gr  
 Site Address: NS Unincorporated, OR  
 Mailing Address: 395 Shenandoah Ln NE Woodburn, OR  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 20.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 20.00

APN: R558006  
 Ref Parcel #: 2S13300-00400  
 Taxes: \$5,340.95  
 Market Value: \$320,960  
 Assessed Value: \$297,510  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Woodburn Industrial Capital Gr  
 Site Address: NS Unincorporated, OR  
 Mailing Address: Po Box 1060 Woodburn, OR 97071  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 8.17  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 8.17

APN: R558042  
 Ref Parcel #: 2S133BB-00100  
 Taxes: \$2,843.29  
 Market Value: \$861,830  
 Assessed Value: \$158,380  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Washington County Facilities M  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 5.30  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 5.30, CODE SPLIT

APN: R1047290  
 Ref Parcel #: 2S128C0-00400  
 Taxes: \$0.00  
 Market Value: \$84,800  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



## Exhibit A

Customer Service Department  
 Phone: 503.219.8746(TRIO)  
 Email: cs.oregon@firstam.com  
 Report Generated: 5/9/2022



Legal Owner: Washington County Facilities M  
 Site Address: 14647 SW Oregon St Sherwood, OR 97140  
 Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 16.24  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 21.06

APN: R548189  
 Ref Parcel #: 2S129D0-00600  
 Taxes: \$0.00  
 Market Value: \$3,687,050  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Kenneth & Carol Vandomelen Trs & Vandomelen Joint Trust  
 Site Address: 4825 SW Evans St Sherwood, OR 97140  
 Mailing Address: 4825 SW Evans St Portland, OR 97219  
 Bedrooms: 2  
 Bathrooms: 1  
 Building SqFt: 800                      Lot Acres: 4.62  
 Year Built: 1901  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 4.62

APN: R547484  
 Ref Parcel #: 2S128C0-00700  
 Taxes: \$3,032.95  
 Market Value: \$966,360  
 Assessed Value: \$205,610  
 Sales Price: \$750,000  
 Transfer Date: 9/24/2019



Legal Owner: United States Of America Dept  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 911 NE 11th Ave Portland, OR 97232  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 12.69  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: 1992-008 PARTITION PLAT, LOT 2, ACRES 12.69, CODE SPLIT

APN: R2019381  
 Ref Parcel #: 2S13300-02500  
 Taxes: \$0.00  
 Market Value: \$317,250  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: United States Of America Dept  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 911 NE 11th Ave Portland, OR 97232  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 3.69  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: 1993-010 PARTITION PLAT, LOT 1, ACRES 3.69

APN: R2031459  
 Ref Parcel #: 2S133BB-00200  
 Taxes: \$0.00  
 Market Value: \$1,179,320  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



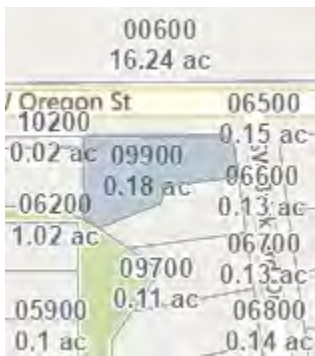
## Exhibit A

Customer Service Department  
 Phone: 503.219.8746 (TRIO)  
 Email: cs.oregon@firstam.com  
 Report Generated: 5/9/2022



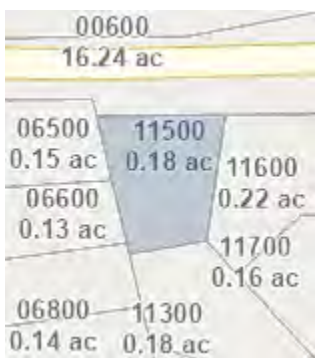
Legal Owner: United States Of America Dept  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 911 NE 11th Ave Portland, OR 97232  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 3.29  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: 1993-010 PARTITION PLAT, LOT 3, ACRES 3.29

APN: R2031460  
 Ref Parcel #: 2S133BB-00400  
 Taxes: \$0.00  
 Market Value: \$1,051,480  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



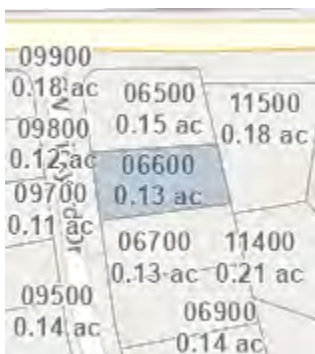
Legal Owner: Dennis & Kristen Titko  
 Site Address: 14603 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14603 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 1,296 Lot Acres: 0.18  
 Year Built: 1993  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 35 & PT TR B, ACRES 0.18

APN: R2017806  
 Ref Parcel #: 2S132AA-09900  
 Taxes: \$2,919.65  
 Market Value: \$266,830  
 Assessed Value: \$162,630  
 Sales Price: \$0  
 Transfer Date: 6/29/1998



Legal Owner: Amanda & Robert Taylor  
 Site Address: 14596 SW Oregon St Sherwood, OR 97140  
 Mailing Address: 14596 SW Oregon St Sherwood, OR 97140  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 2,008 Lot Acres: 0.18  
 Year Built: 1997  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: CHESAPEAKE PARK, LOT 6, ACRES 0.18

APN: R2036396  
 Ref Parcel #: 2S132AA-11500  
 Taxes: \$4,194.90  
 Market Value: \$494,110  
 Assessed Value: \$233,670  
 Sales Price: \$162,000  
 Transfer Date: 4/27/2011



Legal Owner: Gabriel Tanoue  
 Site Address: 14616 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14616 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 2  
 Bathrooms: 3  
 Building SqFt: 1,470 Lot Acres: 0.13  
 Year Built: 1991  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 2, ACRES 0.13

APN: R2017769  
 Ref Parcel #: 2S132AA-06600  
 Taxes: \$1,806.34  
 Market Value: \$265,570  
 Assessed Value: \$100,620  
 Sales Price: \$0  
 Transfer Date:





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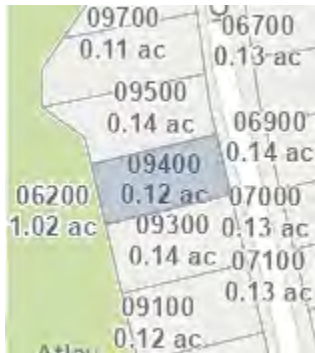
## Exhibit A

Customer Service Department

Phone: 503.219.8746(TRIO)

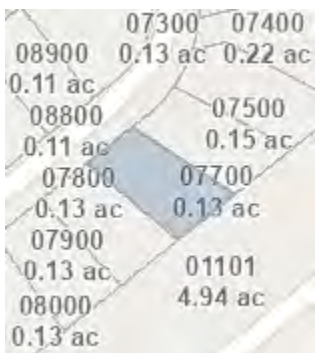
Email: cs.oregon@firstam.com

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Legal Owner: Hyunsuk Seo & Bridget Loftis  
Site Address: 14645 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14645 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,776 Lot Acres: 0.12  
Year Built: 1991  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 30, ACRES 0.12

APN: R2017801  
Ref Parcel #: 2S132AA-09400  
Taxes: \$2,567.57  
Market Value: \$270,800  
Assessed Value: \$143,020  
Sales Price: \$359,900  
Transfer Date: 12/17/2021



Legal Owner: Paul & Stephanie Spath  
Site Address: 14738 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14738 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,512 Lot Acres: 0.13  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 13, ACRES 0.13

APN: R2017780  
Ref Parcel #: 2S132AA-07700  
Taxes: \$2,751.55  
Market Value: \$267,330  
Assessed Value: \$153,270  
Sales Price: \$0  
Transfer Date:



Legal Owner: Sherwood City Of  
Site Address: Ns # Ns # NS Sherwood, OR  
Mailing Address: 22560 SW Pine St Sherwood, OR 97140  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 0 Lot Acres: 2.04  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 2.04

APN: R2027564  
Ref Parcel #: 2S128C0-00204  
Taxes: \$0.00  
Market Value: \$32,640  
Assessed Value: \$0  
Sales Price: \$0  
Transfer Date:



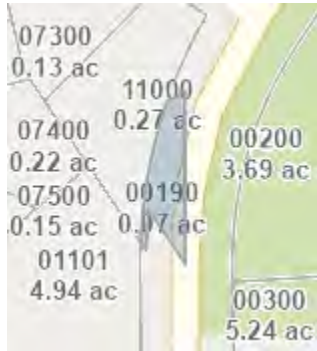
Legal Owner: Harsch Investment Properties L  
Site Address: 21600 SW Oregon St Sherwood, OR 97140  
Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 0 Lot Acres: 38.82  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 38.82

APN: R547475  
Ref Parcel #: 2S128C0-00600  
Taxes: \$5,540.47  
Market Value: \$8,111,560  
Assessed Value: \$308,620  
Sales Price: \$6,000,000  
Transfer Date: 11/14/2018



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Legal Owner: Sherwood City Of  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 22560 SW Pine St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 0.07  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 0.07

APN: R1161655  
 Ref Parcel #: 2S132AA-00190  
 Taxes: \$0.00  
 Market Value: \$6,100  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Sherwood City Of  
 Site Address: 22208 SW Orland St Sherwood, OR 97140  
 Mailing Address: 22560 SW Pine St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 1.02  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ORLAND VILLA, LOT A, ACRES 1.02

APN: R1308472  
 Ref Parcel #: 2S132AA-06200  
 Taxes: \$0.00  
 Market Value: \$86,700  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Harsch Investment Properties L  
 Site Address: NS Unincorporated, OR  
 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                      Lot Acres: 7.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 7.00, POTENTIAL ADDL TAX LIABILITY

APN: R557971  
 Ref Parcel #: 2S13300-00200  
 Taxes: \$54.07  
 Market Value: \$1,462,670  
 Assessed Value: \$3,560  
 Sales Price: \$0  
 Transfer Date:



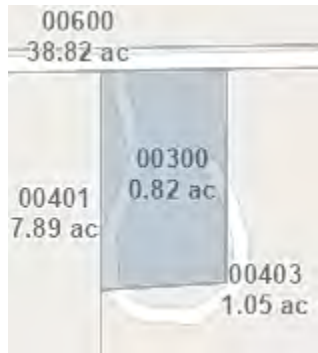
Legal Owner: Harsch Investment Properties L  
 Site Address: 14260 SW Tonquin Rd Sherwood, OR 97140  
 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
 Bedrooms: 2  
 Bathrooms: 1  
 Building SqFt: 1,656                      Lot Acres: 3.00  
 Year Built: 1974  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 3.00, POTENTIAL ADDL TAX LIABILITY

APN: R557980  
 Ref Parcel #: 2S13300-00201  
 Taxes: \$2,636.26  
 Market Value: \$762,230  
 Assessed Value: \$178,690  
 Sales Price: \$0  
 Transfer Date:



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Customer Service Department  
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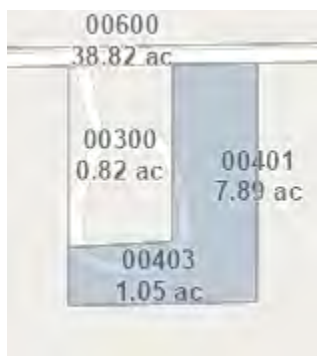
Legal Owner: Sherwood Commerce Center Llc  
 Site Address: 14250 SW Tonquin Rd Sherwood, OR 97140  
 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 1,722 Lot Acres: 0.82  
 Year Built: 1971  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 0.82

APN: R557999  
 Ref Parcel #: 2S13300-00300  
 Taxes: \$2,427.83  
 Market Value: \$191,380  
 Assessed Value: \$164,590  
 Sales Price: \$900,000  
 Transfer Date: 5/20/2021



Legal Owner: Harsch Investment Properties L  
 Site Address: 14240 SW Tonquin Rd Sherwood, OR 97140  
 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
 Bedrooms: 4  
 Bathrooms: 2  
 Building SqFt: 2,024 Lot Acres: 7.89  
 Year Built: 1960  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 7.89, POTENTIAL ADDL TAX LIABILITY

APN: R558015  
 Ref Parcel #: 2S13300-00401  
 Taxes: \$3,651.00  
 Market Value: \$1,864,160  
 Assessed Value: \$247,410  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: W John  
 Site Address: NS Unincorporated, OR  
 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 1.05  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 1.05

APN: R558033  
 Ref Parcel #: 2S13300-00403  
 Taxes: \$271.35  
 Market Value: \$219,400  
 Assessed Value: \$18,390  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Sherwood City Of  
 Site Address: Ns # Ns # NS Sherwood, OR  
 Mailing Address: 22560 SW Pine St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 5.24  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: 1993-010 PARTITION PLAT, LOT 2, ACRES 5.24

APN: R2031461  
 Ref Parcel #: 2S133BB-00300  
 Taxes: \$0.00  
 Market Value: \$1,674,700  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



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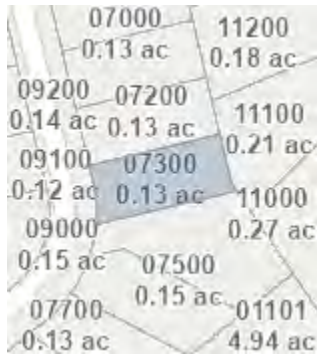
## Exhibit A

Customer Service Department

Phone: 503.219.8746(TRIO)

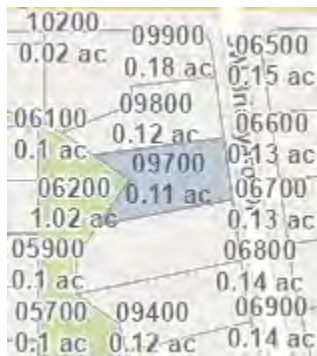
Email: cs.oregon@firstam.com

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Legal Owner: Abdallah Salame  
Site Address: 14694 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14694 SW Brickyard Dr Sherwood, OR  
Bedrooms: 4  
Bathrooms: 2  
Building SqFt: 1,792      Lot Acres: 0.13  
Year Built: 1992  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 9, ACRES 0.13

APN: R2017776  
Ref Parcel #: 2S132AA-07300  
Taxes: \$2,613.26  
Market Value: \$293,020  
Assessed Value: \$145,560  
Sales Price: \$200,000  
Transfer Date: 12/18/2015



Legal Owner: Carol Riggs  
Site Address: 14619 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14619 SW Brickyard Dr Sherwood, OR  
Bedrooms: 0  
Bathrooms: 1  
Building SqFt: 1,100      Lot Acres: 0.11  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 33, ACRES 0.11

APN: R2017804  
Ref Parcel #: 2S132AA-09700  
Taxes: \$2,441.10  
Market Value: \$262,980  
Assessed Value: \$135,980  
Sales Price: \$105,000  
Transfer Date: 10/28/1996



Legal Owner: Pride Properties Investments L  
Site Address: 21287 SW Oregon St Sherwood, OR 97140  
Mailing Address: Po Box 820 Sherwood, OR 97140  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 11,300      Lot Acres: 3.29  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 3.29

APN: R547386  
Ref Parcel #: 2S128C0-00100  
Taxes: \$12,228.62  
Market Value: \$1,916,220  
Assessed Value: \$681,190  
Sales Price: \$1,200,000  
Transfer Date: 2/28/2014



Legal Owner: Bruce & Karen Polley  
Site Address: 21720 SW Oregon St Sherwood, OR 97140  
Mailing Address: Po Box 1489 Sherwood, OR 97140  
Bedrooms: 2  
Bathrooms: 3  
Building SqFt: 1,568      Lot Acres: 9.23  
Year Built: 1984  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 9.23, UNZONED FARMLAND LIEN \$2,896.94, CODE SPLIT, LAND HOOK,

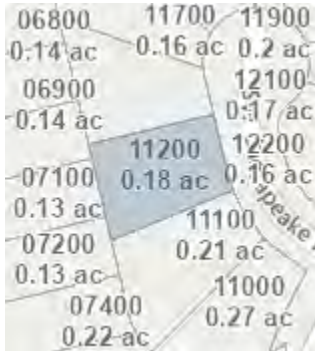
APN: R1492192  
Ref Parcel #: 2S128C0-00500  
Taxes: \$4,531.64  
Market Value: \$6,000  
Assessed Value: \$252,430  
Sales Price: \$225,000  
Transfer Date: 3/24/2008



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Customer Service Department  
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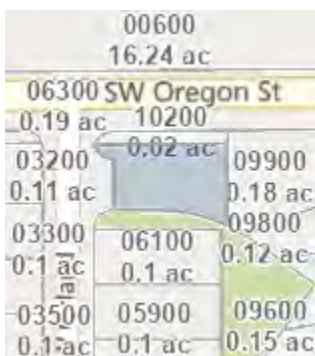
Legal Owner: Jason Berg & Rebecca Osmond  
Site Address: 22095 SW Chesapeake PI Sherwood, OR  
Mailing Address: 22095 SW Chesapeake PI Sherwood, OR  
Bedrooms: 4  
Bathrooms: 4  
Building SqFt: 3,026 Lot Acres: 0.18  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 3, ACRES 0.18

APN: R2036393  
Ref Parcel #: 2S132AA-11200  
Taxes: \$5,788.60  
Market Value: \$662,370  
Assessed Value: \$322,450  
Sales Price: \$297,500  
Transfer Date: 5/19/2005



Legal Owner: Orwa Sherwood Llc  
Site Address: 21389 SW Oregon St Sherwood, OR 97140  
Mailing Address: 8320 NE Highway 99 Vancouver, WA 98665  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 1,344 Lot Acres: 3.18  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 3.18

APN: R547402  
Ref Parcel #: 2S128C0-00102  
Taxes: \$3,379.50  
Market Value: \$649,030  
Assessed Value: \$188,250  
Sales Price: \$200,000  
Transfer Date: 1/17/2003



Legal Owner: N N & Astrida Clarice  
Site Address: 22106 SW Orland St Sherwood, OR 97140  
Mailing Address: 10410 Rainier Ave S Seattle, WA 98178  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 0 Lot Acres: 0.12  
Year Built: 1992  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 36, ACRES 0.12

APN: R2017807  
Ref Parcel #: 2S132AA-10000  
Taxes: \$1,264.76  
Market Value: \$173,530  
Assessed Value: \$70,450  
Sales Price: \$0  
Transfer Date:



Legal Owner: Audrey & Dawn Oleary  
Site Address: 14658 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14658 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,611 Lot Acres: 0.13  
Year Built: 1994  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 6, ACRES 0.13

APN: R2017773  
Ref Parcel #: 2S132AA-07000  
Taxes: \$3,677.55  
Market Value: \$298,030  
Assessed Value: \$204,850  
Sales Price: \$115,000  
Transfer Date: 4/7/2014



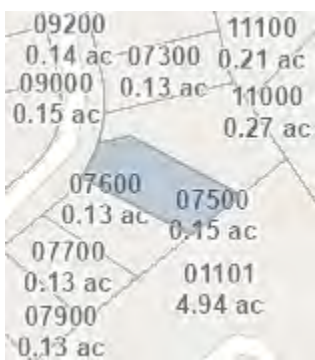
## Exhibit A

Customer Service Department  
 Phone: 503.219.8746(TRIO)  
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 Report Generated: 5/9/2022



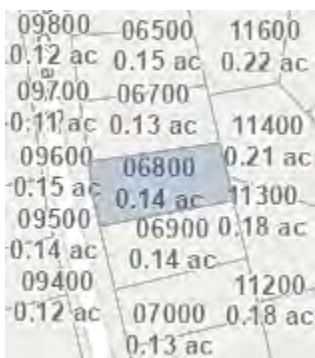
Legal Owner: Northstar Chemical Inc  
 Site Address: No Site Address , OR  
 Mailing Address: 14200 SW Tualatin Sherwood Rd STE B  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 0.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: NO LEGAL

APN: R2077141  
 Ref Parcel #: 2S128C0-00200  
 Taxes: \$9,194.35  
 Market Value: \$492,460  
 Assessed Value: \$492,460  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Alejandra Nicolas  
 Site Address: 14718 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14718 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 0  
 Bathrooms: 2  
 Building SqFt: 1,732 Lot Acres: 0.15  
 Year Built: 1993  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 11, ACRES 0.15

APN: R2017778  
 Ref Parcel #: 2S132AA-07500  
 Taxes: \$2,645.97  
 Market Value: \$288,020  
 Assessed Value: \$147,390  
 Sales Price: \$340,000  
 Transfer Date: 6/4/2021



Legal Owner: Cindy Nevill  
 Site Address: 14642 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14642 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 0  
 Bathrooms: 2  
 Building SqFt: 1,620 Lot Acres: 0.14  
 Year Built: 1990  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 4, ACRES 0.14

APN: R2017771  
 Ref Parcel #: 2S132AA-06800  
 Taxes: \$1,994.36  
 Market Value: \$231,930  
 Assessed Value: \$111,090  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: John & Orfilio Naranjo  
 Site Address: 14650 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14650 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 1,188 Lot Acres: 0.14  
 Year Built: 1992  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 5, ACRES 0.14

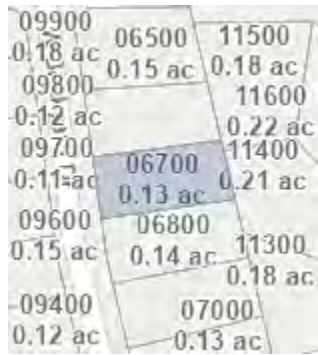
APN: R2017772  
 Ref Parcel #: 2S132AA-06900  
 Taxes: \$2,036.17  
 Market Value: \$252,240  
 Assessed Value: \$113,420  
 Sales Price: \$225,000  
 Transfer Date: 5/17/2017



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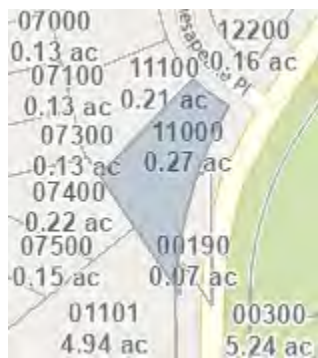
### Exhibit A

Customer Service Department  
Phone: 503.219.8746(TRIO)  
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Legal Owner: Bonnie Miller  
Site Address: 14630 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14630 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,296      Lot Acres: 0.13  
Year Built: 1993  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 3, ACRES 0.13

APN: R2017770  
Ref Parcel #: 2S132AA-06700  
Taxes: \$3,021.50  
Market Value: \$292,600  
Assessed Value: \$168,310  
Sales Price: \$90,000  
Transfer Date: 3/23/2016



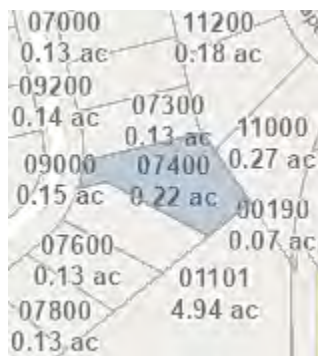
Legal Owner: Richard & Sandra Miles  
Site Address: 22115 SW Chesapeake PI Sherwood, OR 97140  
Mailing Address: 22115 SW Chesapeake PI Sherwood, OR  
Bedrooms: 3  
Bathrooms: 1  
Building SqFt: 1,880      Lot Acres: 0.27  
Year Built: 1996  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 1, ACRES 0.27

APN: R2036391  
Ref Parcel #: 2S132AA-11000  
Taxes: \$4,116.86  
Market Value: \$421,210  
Assessed Value: \$229,320  
Sales Price: \$160,500  
Transfer Date: 8/31/2000



Legal Owner: Michael D & Lawrence D Kay Llc  
Site Address: 22210 SW Murdock Rd Sherwood, OR 97140  
Mailing Address: 22210 SW Murdock Rd Sherwood, OR  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 0      Lot Acres: 4.94  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 4.94

APN: R552039  
Ref Parcel #: 2S132AA-01101  
Taxes: \$74,126.74  
Market Value: \$9,115,640  
Assessed Value: \$4,129,190  
Sales Price: \$106,000  
Transfer Date: 6/26/1995



Legal Owner: Zeb Menle  
Site Address: 14706 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14706 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,782      Lot Acres: 0.22  
Year Built: 1990  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 10, ACRES 0.22

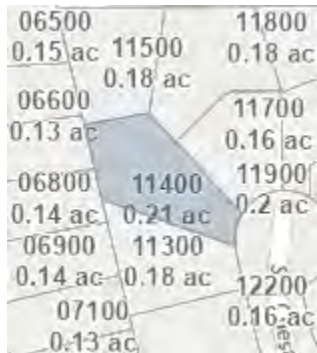
APN: R2017777  
Ref Parcel #: 2S132AA-07400  
Taxes: \$2,672.42  
Market Value: \$316,000  
Assessed Value: \$148,860  
Sales Price: \$0  
Transfer Date: 8/16/2021



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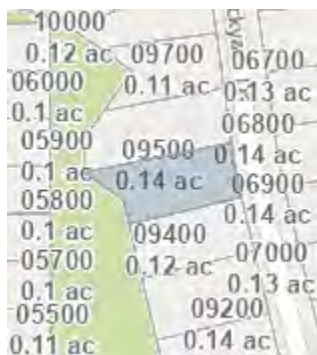
### Exhibit A

Customer Service Department  
Phone: 503.219.8746(TRIO)  
Email: cs.oregon@firstam.com  
Report Generated: 5/9/2022



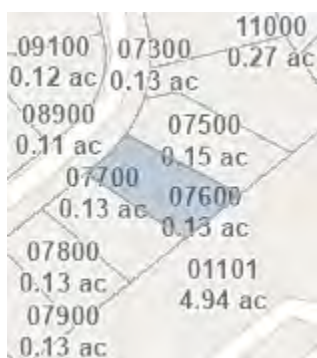
Legal Owner: Ryan & Cara McClung  
Site Address: 22075 SW Chesapeake PI Sherwood, OR  
Mailing Address: 11106 SW Oneida St Tualatin, OR 97062  
Bedrooms: 6  
Bathrooms: 6  
Building SqFt: 3,306      Lot Acres: 0.21  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 5, ACRES 0.21

APN: R2036395  
Ref Parcel #: 2S132AA-11400  
Taxes: \$6,608.29  
Market Value: \$724,900  
Assessed Value: \$402,130  
Sales Price: \$696,000  
Transfer Date: 8/23/2021



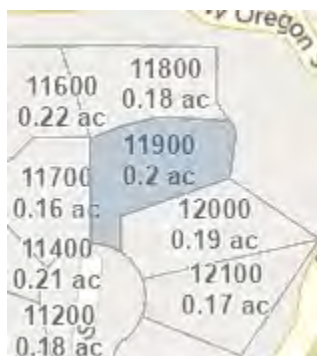
Legal Owner: Katherine & James Mcburnett  
Site Address: 14637 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14637 SW Brickyard Dr Sherwood, OR  
Bedrooms: 2  
Bathrooms: 3  
Building SqFt: 1,773      Lot Acres: 0.14  
Year Built: 1992  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 31, ACRES 0.14

APN: R2017802  
Ref Parcel #: 2S132AA-09500  
Taxes: \$3,011.88  
Market Value: \$302,780  
Assessed Value: \$167,770  
Sales Price: \$81,000  
Transfer Date: 3/7/2022



Legal Owner: Ola Hopkins  
Site Address: 14730 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14730 SW Brickyard Dr Sherwood, OR  
Bedrooms: 0  
Bathrooms: 2  
Building SqFt: 1,752      Lot Acres: 0.13  
Year Built: 1993  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 12, ACRES 0.13

APN: R2017779  
Ref Parcel #: 2S132AA-07600  
Taxes: \$2,571.09  
Market Value: \$261,130  
Assessed Value: \$143,220  
Sales Price: \$104,000  
Transfer Date: 7/5/1996



Legal Owner: Calla Lilly  
Site Address: 22070 SW Chesapeake PI Sherwood, OR  
Mailing Address: 22070 SW Chesapeake PI Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,926      Lot Acres: 0.20  
Year Built: 1994  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT PTS 9-10, ACRES 0.20

APN: R2036400  
Ref Parcel #: 2S132AA-11900  
Taxes: \$4,568.61  
Market Value: \$433,050  
Assessed Value: \$254,490  
Sales Price: \$134,900  
Transfer Date: 3/15/1995





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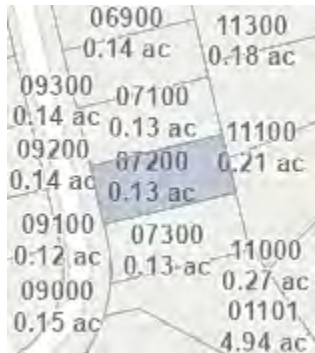
## Exhibit A

Customer Service Department

Phone: 503.219.8746 (TRIO)

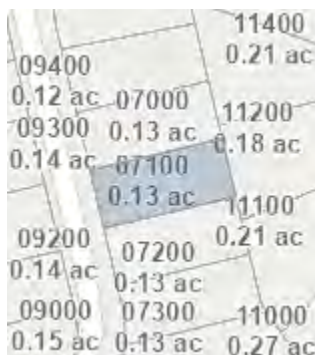
Email: cs.oregon@firstam.com

Report Generated: 5/9/2022



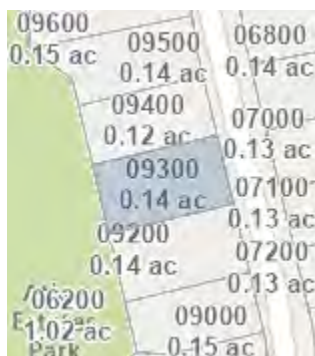
Legal Owner: David Krempley  
Site Address: 14680 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14680 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,766 Lot Acres: 0.13  
Year Built: 1994  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 8, ACRES 0.13

APN: R2017775  
Ref Parcel #: 2S132AA-07200  
Taxes: \$2,597.90  
Market Value: \$267,630  
Assessed Value: \$144,710  
Sales Price: \$0  
Transfer Date:



Legal Owner: Meghan & Meghan Jackson  
Site Address: 14672 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14672 SW Brickyard Dr Sherwood, OR  
Bedrooms: 0  
Bathrooms: 2  
Building SqFt: 1,474 Lot Acres: 0.13  
Year Built: 1991  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 7, ACRES 0.13

APN: R2017774  
Ref Parcel #: 2S132AA-07100  
Taxes: \$2,946.08  
Market Value: \$256,750  
Assessed Value: \$164,100  
Sales Price: \$156,350  
Transfer Date: 8/23/2005



Legal Owner: Holly Jackson & William Lewis  
Site Address: 14665 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 32055 NE Corral Creek Rd Newberg, OR  
Bedrooms: 0  
Bathrooms: 2  
Building SqFt: 1,568 Lot Acres: 0.14  
Year Built: 1993  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 29, TRACT PT D, ACRES 0.14

APN: R2017800  
Ref Parcel #: 2S132AA-09300  
Taxes: \$3,083.30  
Market Value: \$296,090  
Assessed Value: \$171,750  
Sales Price: \$308,000  
Transfer Date: 8/30/2019



Legal Owner: J & L Rink Llc  
Site Address: 21433 SW Oregon St Sherwood, OR 97140  
Mailing Address: 21433 SW Oregon St Sherwood, OR 97140  
Bedrooms: 0  
Bathrooms: 0  
Building SqFt: 154,399 Lot Acres: 4.62  
Year Built: 0  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ACRES 4.62

APN: R1032055  
Ref Parcel #: 2S128C0-00202  
Taxes: \$9,436.01  
Market Value: \$1,112,640  
Assessed Value: \$525,620  
Sales Price: \$0  
Transfer Date:



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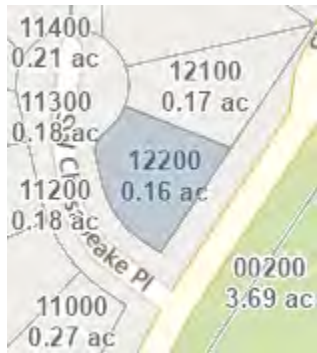
## Exhibit A

Customer Service Department

Phone: 503.219.8746(TRIO)

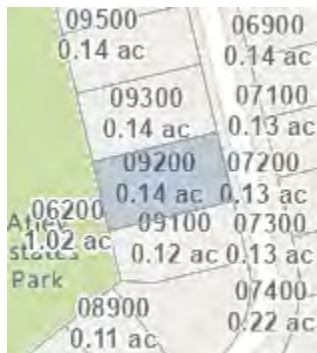
Email: cs.oregon@firstam.com

Report Generated: 5/9/2022



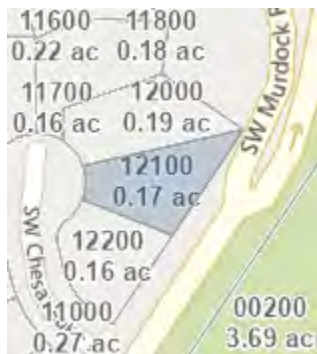
Legal Owner: David Hiser  
Site Address: 22100 SW Chesapeake PI Sherwood, OR  
Mailing Address: 22100 SW Chesapeake PI Sherwood, OR  
Bedrooms: 3  
Bathrooms: 3  
Building SqFt: 2,035 Lot Acres: 0.16  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 13, ACRES 0.16

APN: R2036403  
Ref Parcel #: 2S132AA-12200  
Taxes: \$4,783.28  
Market Value: \$441,420  
Assessed Value: \$266,450  
Sales Price: \$235,100  
Transfer Date: 12/21/2009



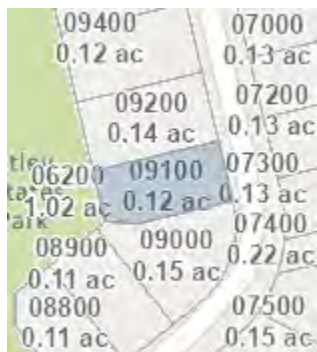
Legal Owner: Kenneth & Patricia Higgason  
Site Address: 14673 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14673 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 2,034 Lot Acres: 0.14  
Year Built: 1994  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 28 & TRACT PT D, ACRES 0.14

APN: R2017796  
Ref Parcel #: 2S132AA-09200  
Taxes: \$2,932.40  
Market Value: \$289,960  
Assessed Value: \$163,340  
Sales Price: \$151,900  
Transfer Date: 8/23/2001



Legal Owner: Preston & Rochelle Griffin  
Site Address: 22090 SW Chesapeake PI Sherwood, OR  
Mailing Address: 22090 SW Chesapeake PI Sherwood, OR  
Bedrooms: 3  
Bathrooms: 3  
Building SqFt: 2,160 Lot Acres: 0.17  
Year Built: 1995  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 12, ACRES 0.17

APN: R2036402  
Ref Parcel #: 2S132AA-12100  
Taxes: \$4,797.52  
Market Value: \$454,520  
Assessed Value: \$267,240  
Sales Price: \$304,500  
Transfer Date: 10/28/2015



Legal Owner: Daniel Goodyear  
Site Address: 14685 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14685 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,344 Lot Acres: 0.12  
Year Built: 1993  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 27, ACRES 0.12

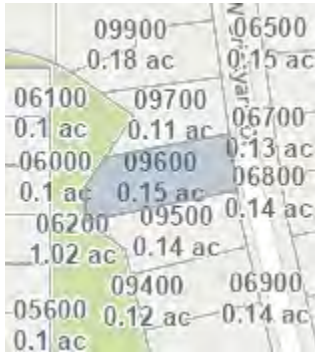
APN: R2017795  
Ref Parcel #: 2S132AA-09100  
Taxes: \$1,957.95  
Market Value: \$265,160  
Assessed Value: \$109,060  
Sales Price: \$113,000  
Transfer Date: 7/31/1997



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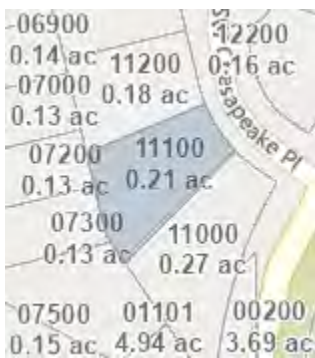
### Exhibit A

Customer Service Department  
Phone: 503.219.8746(TRIO)  
Email: cs.oregon@firstam.com  
Report Generated: 5/9/2022



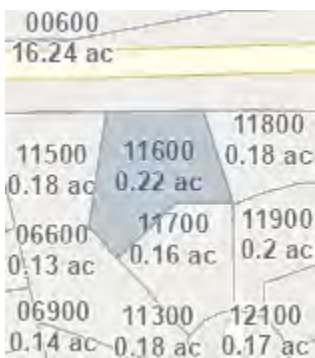
Legal Owner: David Garcia & Marisol Vega  
Site Address: 14625 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14625 SW Brickyard Dr Sherwood, OR  
Bedrooms: 0  
Bathrooms: 2  
Building SqFt: 1,782      Lot Acres: 0.15  
Year Built: 1992  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 32, ACRES 0.15

APN: R2017803  
Ref Parcel #: 2S132AA-09600  
Taxes: \$2,898.17  
Market Value: \$265,150  
Assessed Value: \$212,020  
Sales Price: \$410,000  
Transfer Date: 11/16/2021



Legal Owner: Katharine Lingemann  
Site Address: 22105 SW Chesapeake PI Sherwood, OR  
Mailing Address: 22107 SW Chesapeake PI Sherwood, OR  
Bedrooms: 6  
Bathrooms: 4  
Building SqFt: 2,965      Lot Acres: 0.21  
Year Built: 1997  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT 2, ACRES 0.21

APN: R2036392  
Ref Parcel #: 2S132AA-11100  
Taxes: \$6,296.35  
Market Value: \$559,380  
Assessed Value: \$350,730  
Sales Price: \$589,000  
Transfer Date: 12/20/2021



Legal Owner: Emyrean Real Estate Llc  
Site Address: 22045 SW Chesapeake PI Sherwood, OR  
Mailing Address: 13751 SW Rock Creek Rd Sheridan, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 2,559      Lot Acres: 0.22  
Year Built: 1901  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: CHESAPEAKE PARK, LOT PT 7, ACRES 0.22

APN: R2036397  
Ref Parcel #: 2S132AA-11600  
Taxes: \$3,352.10  
Market Value: \$411,580  
Assessed Value: \$186,720  
Sales Price: \$331,000  
Transfer Date: 9/26/2016



Legal Owner: Blake & Joan Elison  
Site Address: 14615 SW Brickyard Dr Sherwood, OR 97140  
Mailing Address: 14615 SW Brickyard Dr Sherwood, OR  
Bedrooms: 3  
Bathrooms: 2  
Building SqFt: 1,337      Lot Acres: 0.12  
Year Built: 1993  
School District: Sherwood School District 88j  
Neighborhood: Sherwood - Tualatin  
Legal: ATLEY ESTATES, LOT 34, ACRES 0.12

APN: R2017805  
Ref Parcel #: 2S132AA-09800  
Taxes: \$2,974.54  
Market Value: \$250,870  
Assessed Value: \$165,690  
Sales Price: \$172,825  
Transfer Date: 6/23/2016



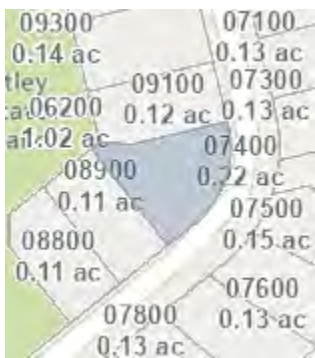
## Exhibit A

Customer Service Department  
 Phone: 503.219.8746(TRIO)  
 Email: cs.oregon@firstam.com  
 Report Generated: 5/9/2022



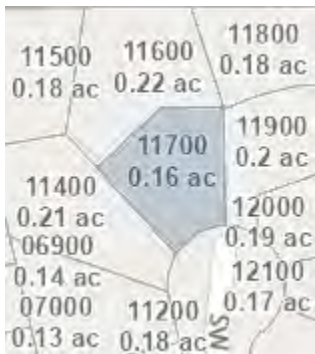
Legal Owner: Dahlke Lane Properties Llc  
 Site Address: 21425 SW Dahlke Ln Sherwood, OR 97140  
 Mailing Address: 4677 SE Concord Rd Portland, OR 97267  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 4.97  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 4.97

APN: R547493  
 Ref Parcel #: 2S128C0-00701  
 Taxes: \$550.00  
 Market Value: \$523,430  
 Assessed Value: \$37,280  
 Sales Price: \$0  
 Transfer Date:



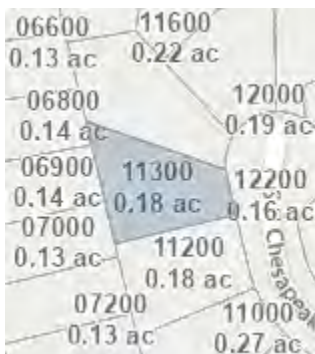
Legal Owner: Debra Clemmens  
 Site Address: 14723 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14723 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 2  
 Bathrooms: 3  
 Building SqFt: 1,340 Lot Acres: 0.15  
 Year Built: 1992  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 26, ACRES 0.15

APN: R2017794  
 Ref Parcel #: 2S132AA-09000  
 Taxes: \$927.10  
 Market Value: \$177,140  
 Assessed Value: \$51,640  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Colleen & James Buckner  
 Site Address: 22065 SW Chesapeake PI Sherwood, OR  
 Mailing Address: 59 Margate St Daly City, CA 94015  
 Bedrooms: 3  
 Bathrooms: 3  
 Building SqFt: 1,780 Lot Acres: 0.16  
 Year Built: 1994  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: CHESAPEAKE PARK, LOT 8, ACRES 0.16

APN: R2036398  
 Ref Parcel #: 2S132AA-11700  
 Taxes: \$4,359.68  
 Market Value: \$419,040  
 Assessed Value: \$242,850  
 Sales Price: \$362,000  
 Transfer Date: 3/18/2019



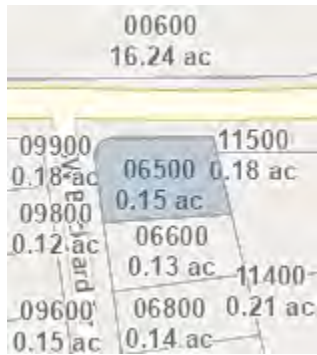
Legal Owner: Sara & Anthony Betz  
 Site Address: 22085 SW Chesapeake PI Sherwood, OR  
 Mailing Address: 10014 SW Conestoga Dr APT 158  
 Bedrooms: 3  
 Bathrooms: 3  
 Building SqFt: 1,778 Lot Acres: 0.18  
 Year Built: 1995  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: CHESAPEAKE PARK, LOT 4, ACRES 0.18

APN: R2036394  
 Ref Parcel #: 2S132AA-11300  
 Taxes: \$4,277.95  
 Market Value: \$418,020  
 Assessed Value: \$238,300  
 Sales Price: \$436,000  
 Transfer Date: 1/13/2021



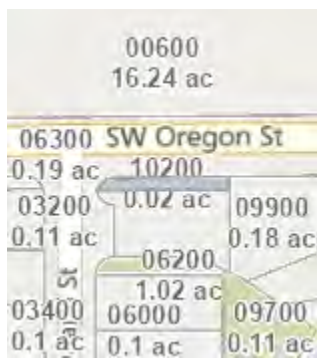
## Exhibit A

Customer Service Department  
 Phone: 503.219.8746(TRIO)  
 Email: cs.oregon@firstam.com  
 Report Generated: 5/9/2022



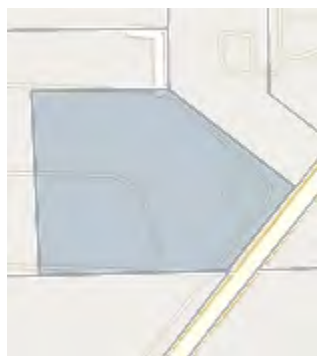
Legal Owner: Keith Beaumont  
 Site Address: 14602 SW Brickyard Dr Sherwood, OR 97140  
 Mailing Address: 14602 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 0  
 Bathrooms: 2  
 Building SqFt: 1,080      Lot Acres: 0.15  
 Year Built: 1992  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT 1, ACRES 0.15

APN: R2017768  
 Ref Parcel #: 2S132AA-06500  
 Taxes: \$2,350.49  
 Market Value: \$240,710  
 Assessed Value: \$130,930  
 Sales Price: \$137,500  
 Transfer Date: 7/6/2015



Legal Owner: Atley Estates Hoa  
 Site Address: 14673 SW Oregon St Sherwood, OR 97140  
 Mailing Address: 14673 SW Brickyard Dr Sherwood, OR  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 0.02  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ATLEY ESTATES, LOT PT B, ACRES 0.02

APN: R2017809  
 Ref Parcel #: 2S132AA-10200  
 Taxes: \$0.00  
 Market Value: \$0  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Allied Systems Company  
 Site Address: No Site Address , OR  
 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 0.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: NO LEGAL

APN: R2024911  
 Ref Parcel #: 2S128C0-00201  
 Taxes: \$70,884.44  
 Market Value: \$3,833,580  
 Assessed Value: \$3,833,580  
 Sales Price: \$0  
 Transfer Date:



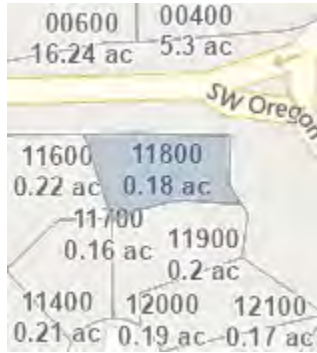
Legal Owner: Allied Systems Company  
 Site Address: No Site Address , OR  
 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0      Lot Acres: 0.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: NO LEGAL

APN: R2180039  
 Ref Parcel #: 2S128C0-00501  
 Taxes: \$5,946.15  
 Market Value: \$321,580  
 Assessed Value: \$321,580  
 Sales Price: \$0  
 Transfer Date:



## Exhibit A

Customer Service Department  
 Phone: 503.219.8746 (TRIO)  
 Email: cs.oregon@firstam.com  
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Legal Owner: 22060 Sw Chesapeake Place Llc  
 Site Address: 22060 SW Chesapeake PI Sherwood, OR  
 Mailing Address: Po Box 1626 Sherwood, OR 97140  
 Bedrooms: 3  
 Bathrooms: 2  
 Building SqFt: 1,716 Lot Acres: 0.18  
 Year Built: 1997  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: CHESAPEAKE PARK, LOT PT 7 & PTS 9-10, ACRES 0.18

APN: R2036399  
 Ref Parcel #: 2S132AA-11800  
 Taxes: \$3,783.11  
 Market Value: \$384,920  
 Assessed Value: \$210,730  
 Sales Price: \$207,000  
 Transfer Date: 9/12/2005



Legal Owner: Washington County Facilities M  
 Site Address: NS Unincorporated, OR  
 Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 0.07  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 0.07, CODE SPLIT

APN: R2144297  
 Ref Parcel #: 2S128C0-00400  
 Taxes: \$0.00  
 Market Value: \$1,120  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: United States Of America Dept  
 Site Address: NS Unincorporated, OR  
 Mailing Address: 911 NE 11th Ave Portland, OR 97232  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 19.62  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: 1992-008 PARTITION PLAT, LOT 2, ACRES 19.62, CODE SPLIT

APN: R2019382  
 Ref Parcel #: 2S13300-02500  
 Taxes: \$0.00  
 Market Value: \$98,100  
 Assessed Value: \$0  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Bruce D & Karen M Polley  
 Site Address: 21720 SW Oregon St Sherwood, OR 97140  
 Mailing Address: Po Box 1489 Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0 Lot Acres: 0.30  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 0.3, UNZONED FARMLAND LIEN \$367.19, CODE SPLIT, LAND HOOK,

APN: R547466  
 Ref Parcel #: 2S128C0-00500  
 Taxes: \$112.42  
 Market Value: \$6,000  
 Assessed Value: \$6,000  
 Sales Price: \$225,000  
 Transfer Date: 3/24/2008



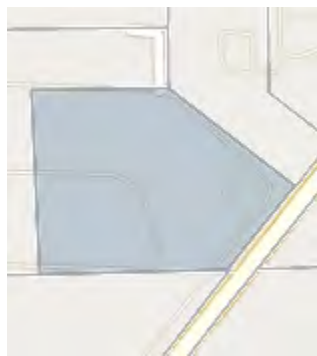
## Exhibit A

Customer Service Department  
 Phone: 503.219.8746(TRIO)  
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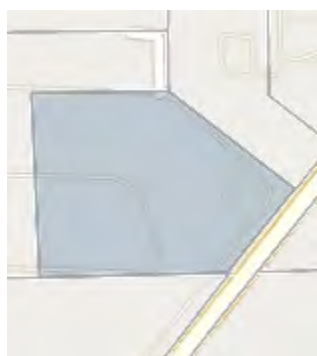
Legal Owner: Washington County  
 Site Address: 14200 SW Tualatin Sherwood Rd Sherwood,  
 Mailing Address: 14200 SW Tualatin Sherwood Rd Sherwood,  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 36,133                      Lot Acres: 12.14  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 17.59

APN: R547411  
 Ref Parcel #: 2S128C0-00200  
 Taxes: \$63,846.81  
 Market Value: \$9,209,340  
 Assessed Value: \$3,556,550  
 Sales Price: \$111,000  
 Transfer Date: 3/1/2022



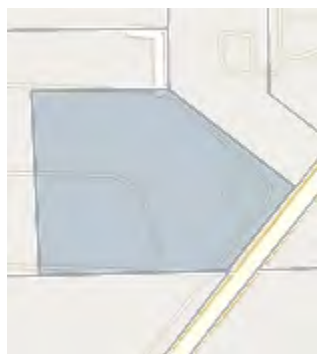
Legal Owner: Banc Of America  
 Site Address: No Site Address , OR  
 Mailing Address: Po Box 100918 Atlanta, GA 30384  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                              Lot Acres: 0.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: NO LEGAL

APN: R2161833  
 Ref Parcel #: 2S128C0-00201  
 Taxes: \$6,294.86  
 Market Value: \$340,440  
 Assessed Value: \$340,440  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: Allied Systems Company  
 Site Address: No Site Address , OR  
 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 0                              Lot Acres: 0.00  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: NO LEGAL

APN: R2185802  
 Ref Parcel #: 2S128C0-00201  
 Taxes: \$1,231.63  
 Market Value: \$69,220  
 Assessed Value: \$68,600  
 Sales Price: \$0  
 Transfer Date:



Legal Owner: J & L Rink Llc  
 Site Address: 21433 SW Oregon St Sherwood, OR 97140  
 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140  
 Bedrooms: 0  
 Bathrooms: 0  
 Building SqFt: 154,399                      Lot Acres: 7.68  
 Year Built: 0  
 School District: Sherwood School District 88j  
 Neighborhood: Sherwood - Tualatin  
 Legal: ACRES 7.68

APN: R955862  
 Ref Parcel #: 2S128C0-00201  
 Taxes: \$135,209.19  
 Market Value: \$7,819,250  
 Assessed Value: \$7,531,770  
 Sales Price: \$0  
 Transfer Date:



## Exhibit A

Customer Service Department  
Phone: 503.219.8746(TRIO)  
Email: cs.oregon@firstam.com  
Report Generated: 5/9/2022



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Legal Owner: Allied Systems Company	APN: R989657
Site Address: 21555 SW Oregon St Sherwood, OR 97140	Ref Parcel #: 2S128C0-00501
Mailing Address: 21433 SW Oregon St Sherwood, OR 97140	Taxes: \$156,579.86
Bedrooms: 0	Market Value: \$9,026,150
Bathrooms: 0	Assessed Value: \$8,722,210
Building SqFt: 0	Sales Price: \$0
Lot Acres: 12.32	Transfer Date:
Year Built: 0	
School District: Sherwood School District 88j	
Neighborhood: Sherwood - Tualatin	
Legal: ACRES 21.74	

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## **Exhibit J: CWS Service Provider Letter**

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CWS File Number  
**21-001024**

### Service Provider Letter

**This form and the attached conditions will serve as your Service Provider Letter in accordance with Clean Water Services Design and Construction Standards (R&O 19-5, as amended by R&O 19-22).**

<b>Jurisdiction:</b>	<u>City of Sherwood</u>	<b>Review Type:</b>	<u>Tier 2 Analysis</u>
<b>Site Address / Location:</b>	<u>21720 SW Oregon ST</u> <u>Sherwood, OR 97140</u>	<b>SPL Issue Date:</b>	<u>May 12, 2021</u>
		<b>SPL Expiration Date:</b>	<u>May 12, 2023</u>

<b>Applicant Information:</b>		<b>Owner Information:</b>	
Name	<u>STACEY REED</u>	Name	<u>BRUCE POLLEY</u>
Company	<u>AKS ENGINEERING &amp; FORESTRY LLC</u> <u>12965 SW HERMAN RD SUITE 100</u>	Company	<u>OREGON STREET BUSINESS PARK LLC</u> <u>PO BOX 1489</u>
Address	<u>TUALATIN, OR 97062</u>	Address	<u>SHERWOOD, OR 97140</u>
Phone/Fax	<u>(503) 563-6151</u>	Phone/Fax	<u>(503) 625-7058</u>
E-mail:	<u>staceyr@aks-eng.com</u>	E-mail:	<u>bruce@airteknw.com</u>

<b>Tax lot ID</b>	<b>Development Activity</b>
<u>2S128C000500</u>	<u>Oregon Street Business Park</u>
<u>2S128C000501</u>	<u>Off-site Sanitary Sewer Connection</u>

<b>Pre-Development Site Conditions:</b>	<b>Post Development Site Conditions:</b>
Sensitive Area Present: <input checked="" type="checkbox"/> On-Site <input checked="" type="checkbox"/> Off-Site	Sensitive Area Present: <input checked="" type="checkbox"/> On-Site <input checked="" type="checkbox"/> Off-Site
Vegetated Corridor Width: <u>50</u>	Vegetated Corridor Width: <u>Variable</u>
Vegetated Corridor Condition: <u>Marginal/Degraded</u>	

**Enhancement of Remaining Vegetated Corridor Required:**  **Square Footage to be enhanced:** \_\_\_\_\_

**Encroachments into Pre-Development Vegetated Corridor:**

Type and location of Encroachment:	Square Footage:
<u>Stormwater Facility (Permanent Encroachment; Mitigation Required)</u>	<u>19,304</u>
<u>Stormwater Outfall (Permanent Encroachment; No Mitigation Required)</u>	<u>100</u>
<u>Off-site Sanitary Sewer Connection (Temporary Encroachment; Restoration Planting In-place Required)</u>	<u>994</u>

**Mitigation Requirements:**

Type/Location	Sq. Ft./Ratio/Cost
<u>Per R&amp;O 13-12 VC Mitigation Requirement for VC Encroachment Associated with Wetland Impacts is Met Through Wetland Mitigation Bank Purchase</u>	
<u>Public Benefit Mitigation</u>	<u>1,128</u>

Conditions Attached  Development Figures Attached (3)  Planting Plan Attached  Geotech Report Required

**This Service Provider Letter does NOT eliminate the need to evaluate and protect water quality sensitive areas if they are subsequently discovered on your property.**

**In order to comply with Clean Water Services water quality protection requirements the project must comply with the following conditions:**

1. No structures, development, construction activities, gardens, lawns, application of chemicals, uncontained areas of hazardous materials as defined by Oregon Department of Environmental Quality, pet wastes, dumping of materials of any kind, or other activities shall be permitted within the sensitive area or Vegetated Corridor which may negatively impact water quality, except those allowed in R&O 19-5, Chapter 3, as amended by R&O 19-22.
2. Prior to any site clearing, grading or construction the Vegetated Corridor and water quality sensitive areas shall be surveyed, staked, and temporarily fenced per approved plan. During construction the Vegetated Corridor shall remain fenced and undisturbed except as allowed by R&O 19-5, Section 3.06.1, as amended by R&O 19-22 and per approved plans.
3. **Prior to activity within the sensitive area, the applicant shall gain authorization for the project from the Oregon Department of State Lands (DSL) and US Army Corps of Engineers (USACE). The applicant shall provide Clean Water Services or its designee (appropriate city) with copies of all DSL and USACE project authorization permits.**
4. An approved Oregon Department of Forestry Notification is required for one or more trees harvested for sale, trade, or barter, on any non-federal lands within the State of Oregon.
5. Prior to any ground disturbing activities, an erosion control permit is required. Appropriate Best Management Practices (BMP's) for Erosion Control, in accordance with Clean Water Services' Erosion Prevention and Sediment Control Planning and Design Manual, shall be used prior to, during, and following earth disturbing activities.
6. Prior to construction, a Stormwater Connection Permit from Clean Water Services or its designee is required pursuant to Ordinance 27, Section 4.B.
7. Activities located within the 100-year floodplain shall comply with R&O 19-5, Section 5.10, as amended by R&O 19-22.
8. Removal of native, woody vegetation shall be limited to the greatest extent practicable.
9. The water quality swale and detention pond shall be planted with Clean Water Services approved native species, and designed to blend into the natural surroundings.
10. **Should final development plans differ significantly from those submitted for review by Clean Water Services, the applicant shall provide updated drawings, and if necessary, obtain a revised Service Provider Letter.**
11. **For remaining on-site Vegetated Corridors up to 50 feet wide, the applicant shall enhance the entire Vegetated Corridor to meet or exceed good corridor condition as defined in R&O 19-5, Section 3.14.2, Table 3-3, as amended by R&O 19-22.**
12. Prior to any site clearing, grading or construction, the applicant shall provide Clean Water Services with a Vegetated Corridor enhancement/restoration plan. Enhancement/restoration of the Vegetated Corridor shall be provided in accordance with R&O 19-5, Appendix A, as amended by R&O 19-22, and shall include planting specifications for all Vegetated Corridor, including any cleared areas larger than 25 square feet in Vegetated Corridor rated ""good.""
13. Prior to installation of plant materials, all invasive vegetation within the Vegetated Corridor shall be removed per methods described in Clean Water Services' Integrated Pest Management Plan, 2019. During removal of invasive vegetation care shall be taken to minimize impacts to existing native tree and shrub species.
14. Clean Water Services and/or City shall be notified 72 hours prior to the start and completion of enhancement/restoration activities. Enhancement/restoration activities shall comply with the guidelines provided in Planting Requirements (R&O 19-5, Appendix A, as amended by R&O 19-22).
15. **Maintenance and monitoring requirements shall comply with R&O 19-5, Section 2.12.2, as amended by R&O 19-22. If at any time during the warranty period the landscaping falls below the 80% survival level, the owner shall reinstall all deficient planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.**

16. **Performance assurances for the Vegetated Corridor shall comply with R&O 19-5, Section 2.07.2, Table 2-1 and Section 2.11, Table 2-2, as amended by R&O 19-22.**
17. **Clean Water Services shall require an easement over the Sensitive Area and Vegetated Corridor conveying storm and surface water management to Clean Water Services or the City that would prevent the owner of the Vegetated Corridor from activities and uses inconsistent with the purpose of the corridor and any easements therein.**
18. **Final construction plans shall include landscape plans.** In the details section of the plans, a description of the methods for removal and control of exotic species, location, distribution, condition and size of plantings, existing plants and trees to be preserved, and installation methods for plant materials is required. Plantings shall be tagged for dormant season identification and shall remain on plant material after planting for monitoring purposes.
19. **A Maintenance Plan shall be included on final plans** including methods, responsible party contact information, and dates (minimum two times per year, by June 1 and September 30).
20. **Final construction plans shall clearly depict the location and dimensions of the sensitive area and the Vegetated Corridor** (indicating good, marginal, or degraded condition). Sensitive area boundaries shall be marked in the field.
21. Protection of the Vegetated Corridors and associated sensitive areas shall be provided by the installation of permanent fencing and signage between the development and the outer limits of the Vegetated Corridors. **Fencing and signage details to be included on final construction plans.**

**This Service Provider Letter is not valid unless CWS-approved site plan is attached.**

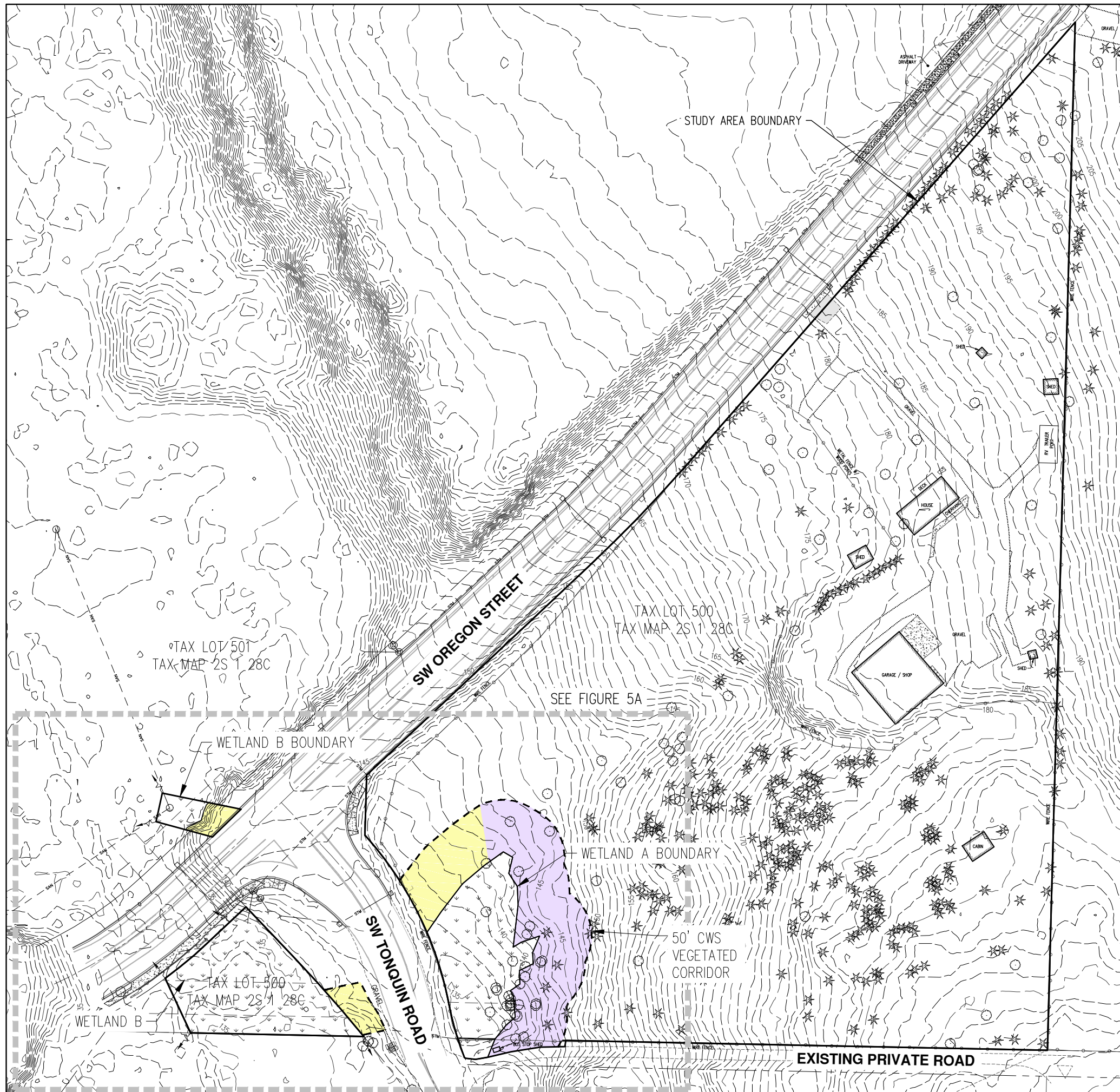
**Please call (503) 681-3667 with any questions.**

*Stacy Benjamin*

**Stacy Benjamin  
Environmental Plan Review**

**Attachments (3)**

CWS FILE NO. 21-001024  
 Approved  
 Clean Water Services  
 FOR ENVIRONMENTAL REVIEW  
 By SNB Date 5/12/2021  
 SPL ATTACHMENT 1 OF 3

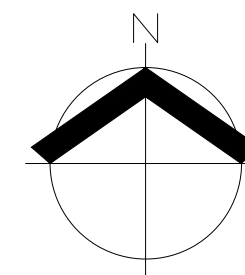


**LEGEND (COLOR COPY):**

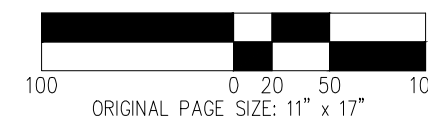
- TOTAL ON-SITE WETLAND: 26,307 SF± (0.60 ACRES±)
- PSS/PEM/SLOPE WETLAND A: 11,978 SF± (0.27 ACRES±)  
PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)
- MARGINAL CONDITION VC ON-SITE: 14,375 SF± (0.33 ACRES±)
- DEGRADED CONDITION VC ON-SITE: 7,237 SF± (0.17 ACRES±)
- PHOTO LOCATIONS & ORIENTATION

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.



SCALE: 1" = 100 FEET










DATE: 04/12/2021

<b>NATURAL RESOURCES EXISTING CONDITIONS OVERVIEW</b>	FIGURE
<b>POLLEY INDUSTRIAL NATURAL RESOURCE ASSESSMENT</b>	<b>5</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	DRWN: SKT CHKD: SAR AKS JOB: 7971

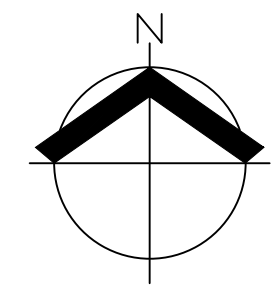


CWS FILE NO. 21-001024  
 Approved  
 Clean Water Services  
 FOR ENVIRONMENTAL REVIEW  
 By *SNB* Date 5/12/2021  
 SPL ATTACHMENT 2 OF 3

**LEGEND (COLOR COPY):**

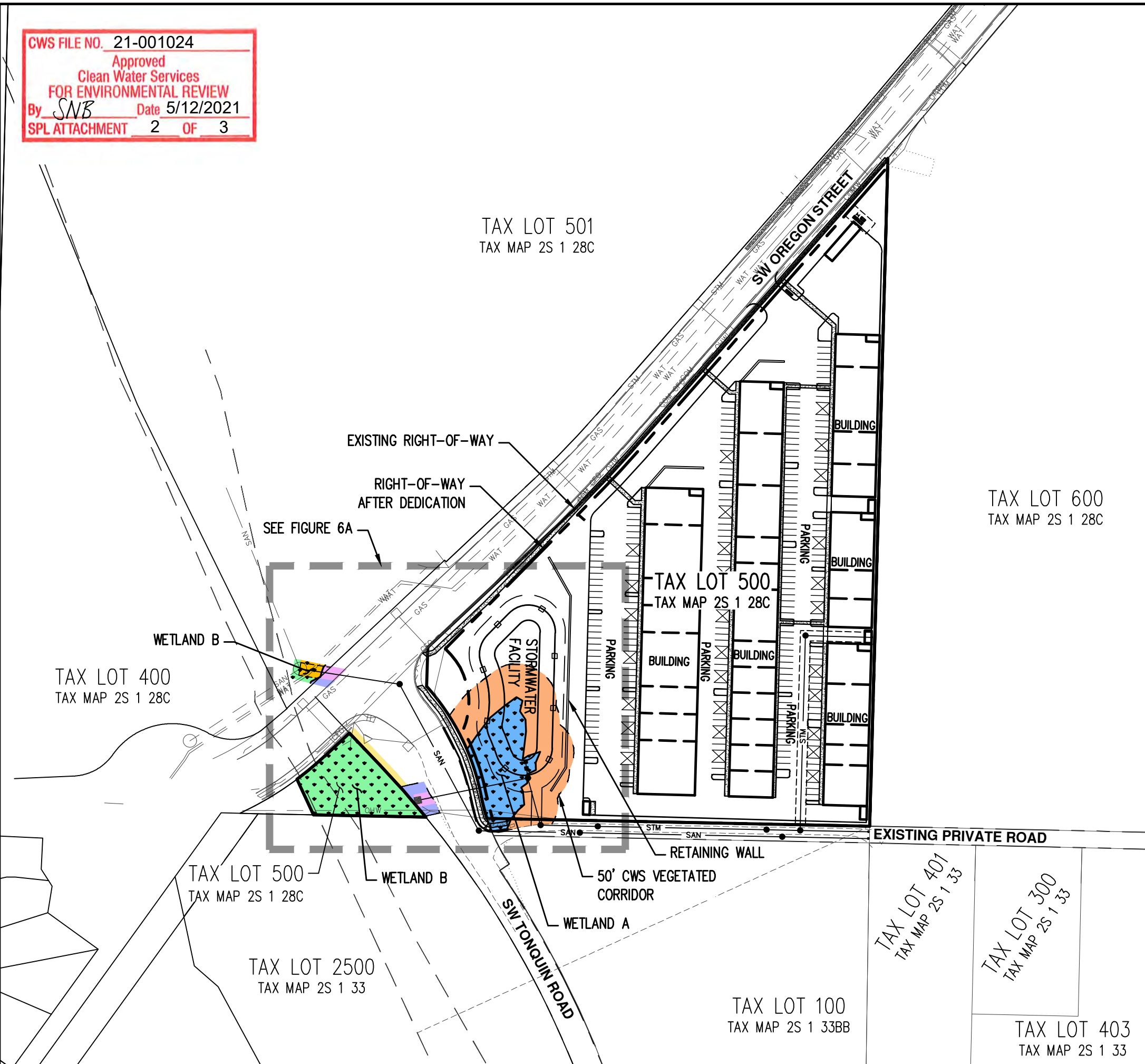
-  WETLAND – EXISTING AREA TO REMAIN:  
13,609 SF± (0.31 ACRES±)
-  WETLAND PERMANENT IMPACTS:  
11,978 SF± (0.27 ACRES±)
-  WETLAND TEMPORARY IMPACT AREA:  
720 SF± (0.02 ACRES±)
-  VEGETATED CORRIDOR – EXISTING AREA TO REMAIN:  
1,214 SF± (0.03 ACRES±)
-  VEGETATED CORRIDOR PERMANENT IMPACT AREA:  
19,304 SF± (0.44 ACRES±)
-  VEGETATED CORRIDOR TEMPORARY IMPACT AREA:  
(TO BE PLANTED TO GOOD CONDITION)  
994 SF± (0.02 ACRES±)
-  VEGETATED CORRIDOR PUBLIC BENEFIT MITIGATION AREA  
(TO BE PLANTED TO GOOD CONDITION):  
1,128 SF± (0.03 ACRES±)

WETLAND AND WATER BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.



SCALE: 1" = 150 FEET  
 ORIGINAL PAGE SIZE: 11" x 17"

DATE: 04/20/2021

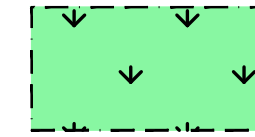


<b>SITE PLAN</b>	<b>FIGURE 6</b>
<b>OREGON STREET BUSINESS PARK NATURAL RESOURCE ASSESSMENT</b>	
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	
	DRWN: BDL/JDS CHKD: SAR AKS JOB: 7971

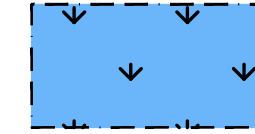
CWS FILE NO. 21-001024  
 Approved  
 Clean Water Services  
 FOR ENVIRONMENTAL REVIEW  
 By *SNB* Date 5/12/2021  
 SPL ATTACHMENT 3 OF 3

TAX LOT 501  
 TAX MAP 2S 1 28C

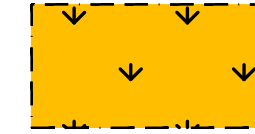
**LEGEND (COLOR COPY):**



WETLAND - EXISTING AREA TO REMAIN:  
 13,609 SF± (0.31 ACRES±)



WETLAND PERMANENT IMPACTS:  
 11,978 SF± (0.27 ACRES±)



WETLAND TEMPORARY IMPACT AREA:  
 720 SF± (0.02 ACRES±)



VEGETATED CORRIDOR - EXISTING AREA TO REMAIN:  
 1,214 SF± (0.03 ACRES±)



VEGETATED CORRIDOR PERMANENT IMPACT AREA:  
 19,304 SF± (0.44 ACRES±)

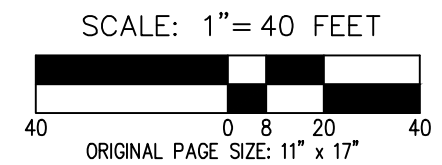
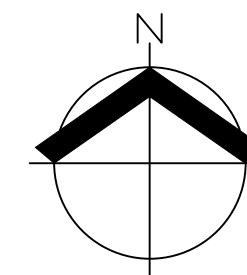


VEGETATED CORRIDOR TEMPORARY IMPACT AREA:  
 (TO BE PLANTED TO GOOD CONDITION)  
 994 SF± (0.02 ACRES±)

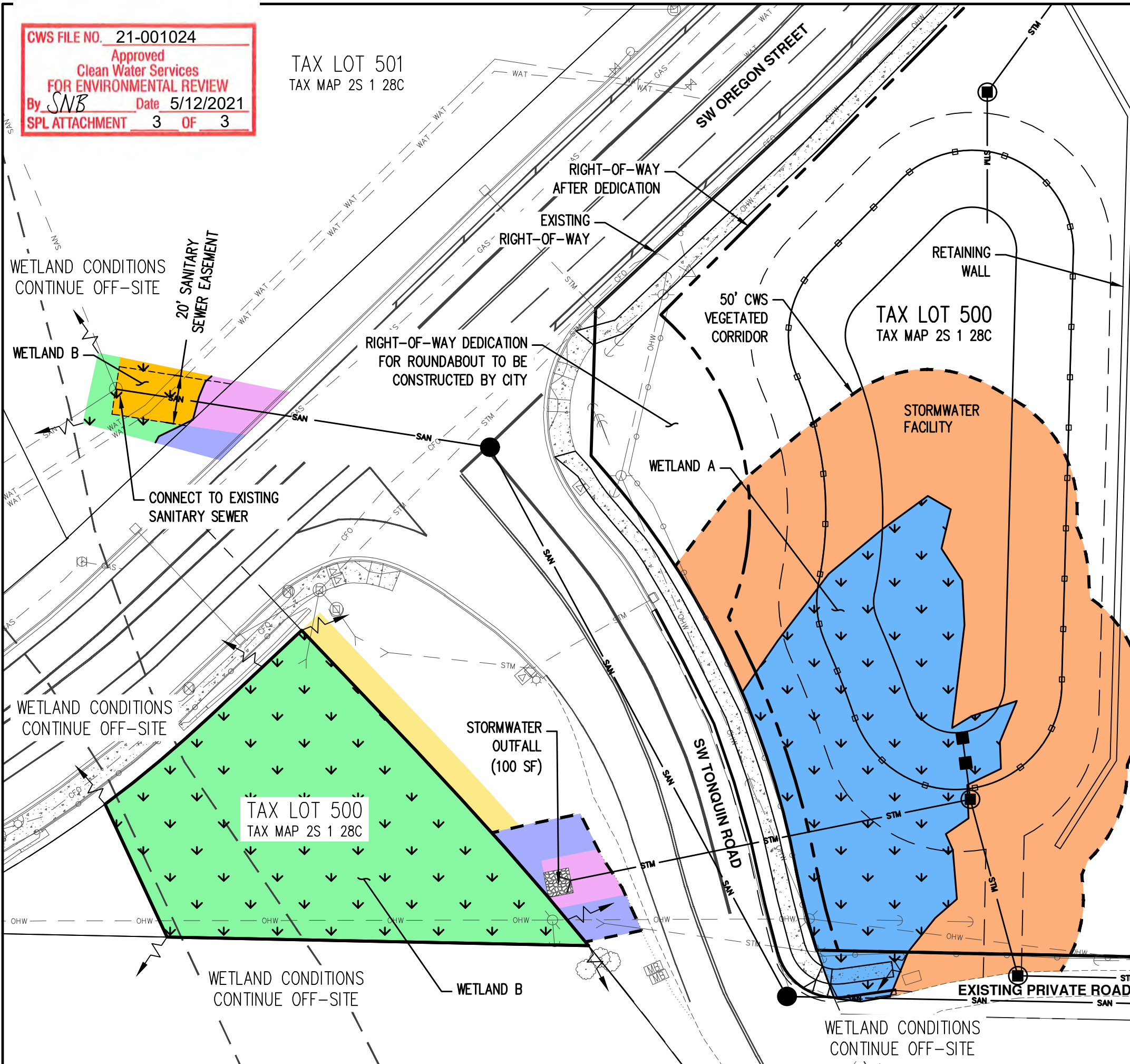


VEGETATED CORRIDOR PUBLIC BENEFIT MITIGATION AREA  
 (TO BE PLANTED TO GOOD CONDITION):  
 1,128 SF± (0.03 ACRES±)

WETLAND AND WATER BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.



DATE: 04/20/2021



SITE PLAN	FIGURE
OREGON STREET BUSINESS PARK NATURAL RESOURCE ASSESSMENT	<b>6A</b>
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM	DRWN: BDL/JDS CHKD: SAR AKS JOB: 7971