

**PC 24 27 PUD 01**

**SUPPLEMENTAL PUD EXHIBITS**

12-9-24

~~12-6-24~~

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# **Florence Streets Wetland Delineation**

**Florence, OR**  
Wetland Delineation

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Prepared for:  
City of Florence  
November 2024



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## **Introduction**

Rabe Consulting was contracted by the City of Florence to perform a wetland investigation and determination of the property located in Florence (Lane County), Oregon. Preliminary pre-field review of the study area indicated the presence of potential wetlands based on aerial photographs and National and Local Wetland Inventory maps.

This report presents the results of the Florence Streets Wetland Determination, which was conducted by Andréa Rabe of Rabe Consulting on October 9, 2024. Andréa Rabe, a Professional Wetland Scientist, has 24 years of experience conducting wetland delineations. She has been trained in the use of the Army Corps of Engineers Western Mountains, Valleys and Coast Region Supplement for conducting wetland delineations.

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Delineation and used at your own risk until it has been reviewed and approved in writing by the Oregon Department of State Lands and U.S. Army Corps of Engineers. The overall project objective is to develop the parcel for commercial uses.

### **A. Landscape Setting and Land Use**

The study area is 3.03 acres in Florence, Oregon in Lane County (Appendix A: Figure 1). The legal description of the study area encompasses street right of ways in T18S R6W Section 27 (Appendix A: Figure 2).

The study area is currently vacant open space with dense shrubs and woodland. The area to the north is developed as residential. The area to the south has commercial developments. The study area is extensions of 10<sup>th</sup> Street, 11<sup>th</sup> Street, and Greenwood Street. The study area includes the proposed future streets right of ways.

During the field visit on October 9, 2024 site visit, the conditions were rainy at the end of the growing season.

## **B. Site Alterations**

There does not appear to be site alterations within the study area. The study area does not appear to have topographic changes (i.e. leveling, grading).

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

The closest weather station to the project that contains the most complete record for the creation of the WETS table is at HONEYMAN STATE PARK, OR located approximately 3.5 miles south of the study area. The area received 0.23 inches of precipitation from September 25 to October 8, 2024, the 14 days prior to the field visit. There was 0.02 inches of precipitation on October 9, 2024, the day of the field visit. The area experienced relatively normal precipitation levels in summer and autumn.

The following is based on the WETS Table for the HONEYMAN STATE PARK, OR station.

Table 1 - Summary of precipitation between July and October 9, 2024, at the HONEYMAN STATE PARK, OR weather station (data accessed from AgACIS database). Data was accessed from the weather station closest to the site with the most complete WETS table record.

| <b>Summary of Precipitation between July - October 9, 2024, and comparison to 1992-2021 WETS Table</b> |                                  |                                |                             |                              |                               |
|--|----------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------|
| <b>Month</b>   | <b>Total Precipitation (in.)</b> | <b>Normal Range WETS (in.)</b> | <b>Within Normal Range?</b> | <b>Monthly Average (in.)</b> | <b>Departure From Average</b> |
| July   | M0.42                            | 0.17 – 0.57                    | Yes                         | 0.56                         | - 0.14                        |
| August   | 0.71                             | 0.27 – 0.77                    | Yes                         | 0.66                         | + 0.05                        |
| September  | 2.77                             | 0.97 – 2.99                    | Yes                         | 2.47                         | + 0.3                         |
| October 1-9 (prorated)   | 1.63                             | 0.97 – 1.96                    | Yes                         | 1.62                         | + 0.01                        |

Table 2 - Summarization of WETS table for 1992-2021 HONEYMAN STATE PARK., OR (the most complete WETS table record for the region).

WETS Table

| <b>WETS Station:<br/>HONEYMAN STATE<br/>PARK, OR</b> |                     |                     |                      |                   |                                    |                                    |  |                     |
|--|---------------------|---------------------|----------------------|-------------------|------------------------------------|------------------------------------|--|---------------------|
| <b>Requested years: 1992 - 2021</b>                  |                     |                     |                      |                   |                                    |                                    |  |                     |
| <b>Month</b>   | <b>Avg Max Temp</b> | <b>Avg Min Temp</b> | <b>Avg Mean Temp</b> | <b>Avg Precip</b> | <b>30% chance precip less than</b> | <b>30% chance precip more than</b> | <b>Avg number days precip 0.10 or more</b> | <b>Avg Snowfall</b> |
| Jan  | 50.3                | 38.3                | 44.3                 | 10.43             | 7.96                               | 12.13                              | 15   | 0.1                 |
| Feb  | 52.0                | 38.3                | 45.2                 | 8.36              | 5.84                               | 9.93                               | -  | 0.1                 |
| Mar  | 54.6                | 38.9                | 46.7                 | 8.05              | 5.87                               | 9.48                               | 14   | 0.0                 |
| Apr  | 58.2                | 41.3                | 49.7                 | 5.89              | 4.32                               | 6.92                               | 11   | 0.0                 |
| May  | 62.2                | 45.7                | 53.9                 | 2.95              | 1.63                               | 3.59                               | 7  | 0.0                 |
| Jun  | 65.0                | 49.0                | 57.0                 | 2.41              | 1.21                               | 2.95                               | 4  | 0.0                 |
| Jul  | 68.0                | 50.5                | 59.2                 | 0.56              | 0.17                               | 0.57                               | 1  | 0.0                 |
| Aug  | 68.3                | 51.4                | 59.8                 | 0.66              | 0.27                               | 0.77                               | 1  | 0.0                 |
| Sep  | 67.0                | 49.8                | 58.4                 | 2.47              | 0.97                               | 2.99                               | 3  | 0.0                 |
| Oct  | 61.0                | 45.4                | 53.2                 | 5.57              | 3.36                               | 6.75                               | 9  | 0.0                 |
| Nov  | 53.8                | 41.5                | 47.6                 | 9.89              | 7.23                               | 11.63                              | -  | 0.0                 |
| Dec  | 49.0                | 37.7                | 43.4                 | 11.85             | 9.00                               | 13.80                              | 15   | 0.0                 |
| Annual:  |                     |                     |                      |                   |                                    |                                    |  |                     |
| Average  | 59.1                | 44.0                | 51.5                 | -                 | -                                  | -                                  | -  | -                   |
| Total  | -                   | -                   | -                    | 69.07             | -                                  | -                                  | -  | 0.3                 |

## **D. Methods**

Rabe Consulting conducted a wetland delineation within the study area which encompasses road right of ways. The methods used to delineate the study area followed the Western Mountains, Valleys, and Coast Regional Supplement.

The delineation was conducted on October 9, 2024, using the criteria outlined in the ACOE Manual as supplemented by the Western Mountains, Valleys, and Coast Regional Supplement. Western Mountains, Valleys and Coast Wetland Delineation data forms were used to record soils, vegetation, and hydrology data at sample plots within the study area (Appendix B).

Data plots were used to test for wetland presence within the study area. Representative plots are included in the report. Plot locations within the study area were chosen based on location of the former cranberry bogs, aerial imagery, soil types, and observations of hydrology and topography during the field visit. Photo points were also taken with the direction of the photo noted. The study area boundary, photo points, and data plots were identified with a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m.

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

A wetland drainage crossed from north to south through the study area. The majority of the wetland drainage was outside of the wetland, with two small portions crossing into the wetland. The drainage continues south, to the west of the study area through a culvert under 9<sup>th</sup> Street and to the north through a residential area.

### **Wetland 1**

The northern portion of the wetland drainage crossing into the study area is Wetland 1, 0.133 acres. Wetland 1 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the southwest and northeast outside of the study area. The hydrologic

input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

### **Wetland 2**

The southern portion of the wetland drainage crossing into the study area is Wetland 2, 0.004 acres. Wetland 2 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the west outside of the study area. The hydrologic input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

### **Upland Areas**

The remainder of the study area (2.893 acres) consists of uplands. The upland portion of the study area did not exhibit hydrologic indicators or concave topography. The upland exhibits dense trees and shrubs.

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

The Local Wetland Inventory (LWI) covers this area. The LWI maps indicate there is a riverine wetland feature to the west of the study area, crossing the study area just north of the delineated wetland drainage. The delineation depicts this feature but in a slightly different location. The mapping difference is likely due to the dense vegetation.

A review of the National Wetlands Inventory Map (Appendix A – Maps, Figure 3) indicates the presence of a riverine wetland within the study area, to the south and east of the wetland drainage identified during the site visit. The scale and methodology used to produce the NWI map (high altitude aerial photography interpretation) imposes some limitations on the accuracy of the NWI maps. It is highly recommended to field check NWI map data, as was done in this case.

The wetland delineation identified a wetland drainage in a slightly different location than the NWI maps. The mapping discrepancy is likely due to dense vegetation obscuring the wetland footprint in aerial photographs used for NWI mapping.



## G. Mapping Methods

All data plots, study area boundaries, and wet feature boundaries were mapped using a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m horizontal error (number of satellites 6). Data was post-processed and maps were generated utilizing ArcGIS.

## H. Jurisdictional Information

Two wetland portions were identified in the study area, which are likely considered jurisdictional according to the DSL or ACOE guidelines.

## I. Results and Conclusion

The study area (3.03 acres) contains upland (2.893 acres), two vegetated wetland drainages (Wetland 1, 0.133 acres; Wetland 2, 0.004 acres) and no waterways.

## J. Disclaimer

This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing by the Oregon Division of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.

Respectfully submitted,



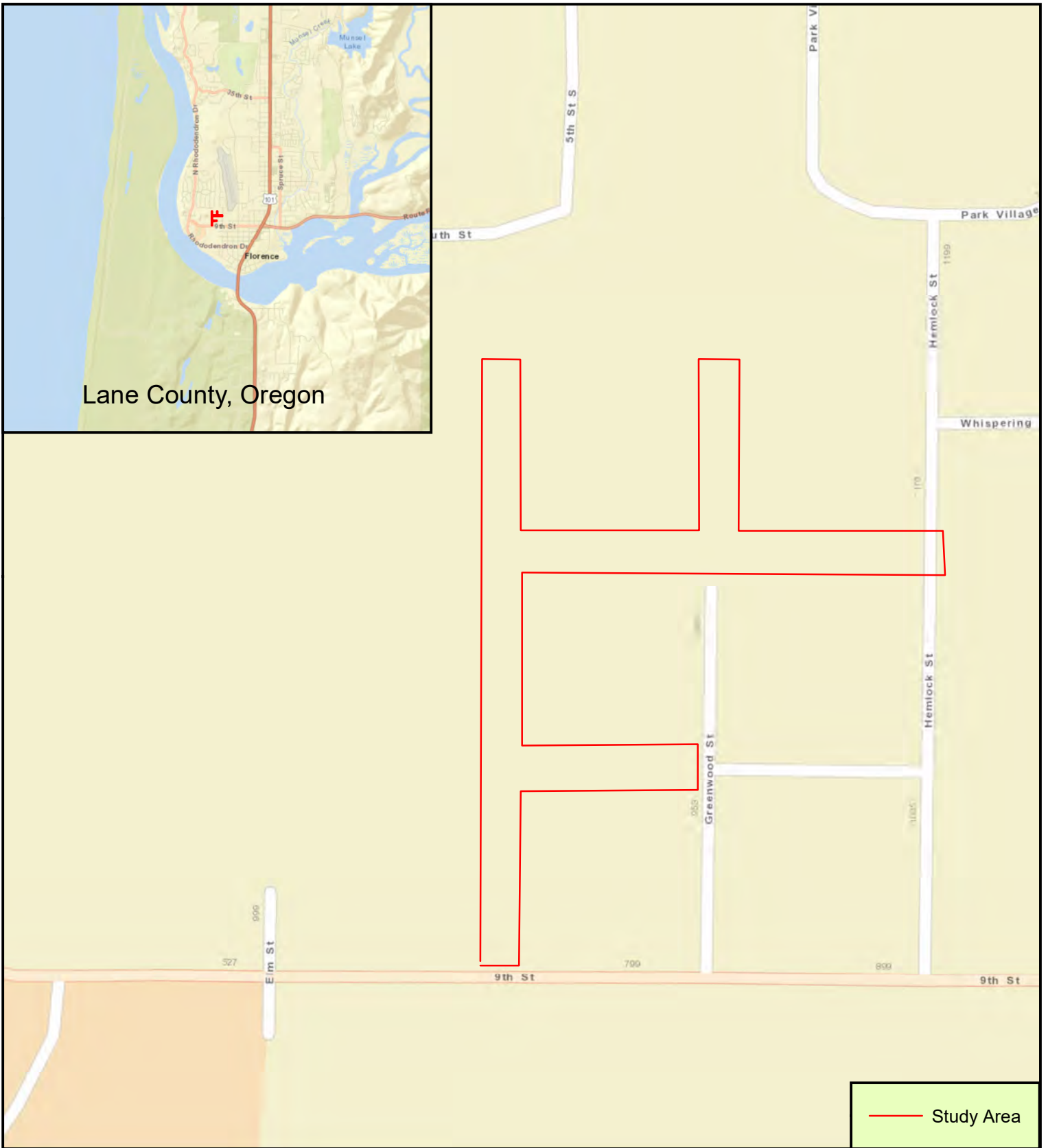
Andréa Rabe, PWS



## **Appendix A** Maps



Lane County, Oregon

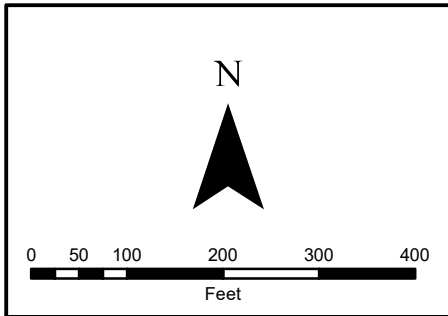


— Study Area

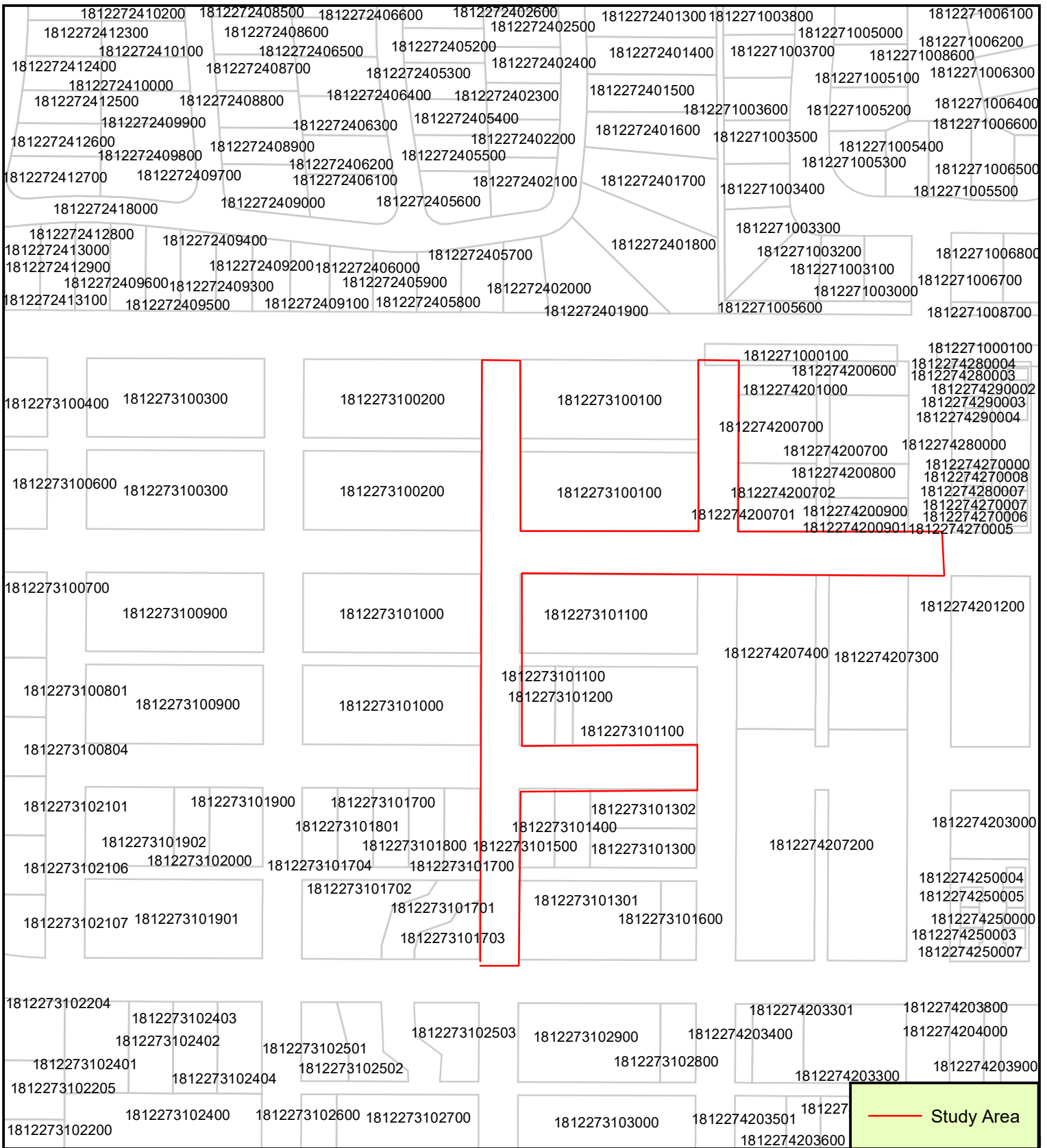
### Florence Streets

Figure 1: Vicinity

Created By: SS  
Created On: 11/14/2024



Data Source: Reproduced by Rabe Consulting for the purpose of this document.



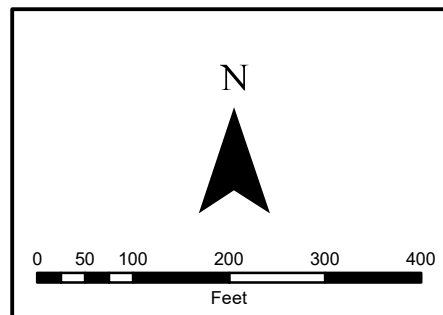
— Study Area

## Florence Streets

Figure 2: Taxlot

Created By: SS

Created On: 11/14/2024



Data Source: Lane County  
Tax Lot Map. Reproduced  
by Rabe Consulting for the  
purpose of this document.

FOR ASSESSMENT AND TAXATION ONLY

N.E.1/4 S.W.1/4 SEC. 27 T.18S. R.12W. W.M.  
Lane County  
1" = 100'

18122731  
FLORENCE

LCATBHH - 2016-10-13 14:32

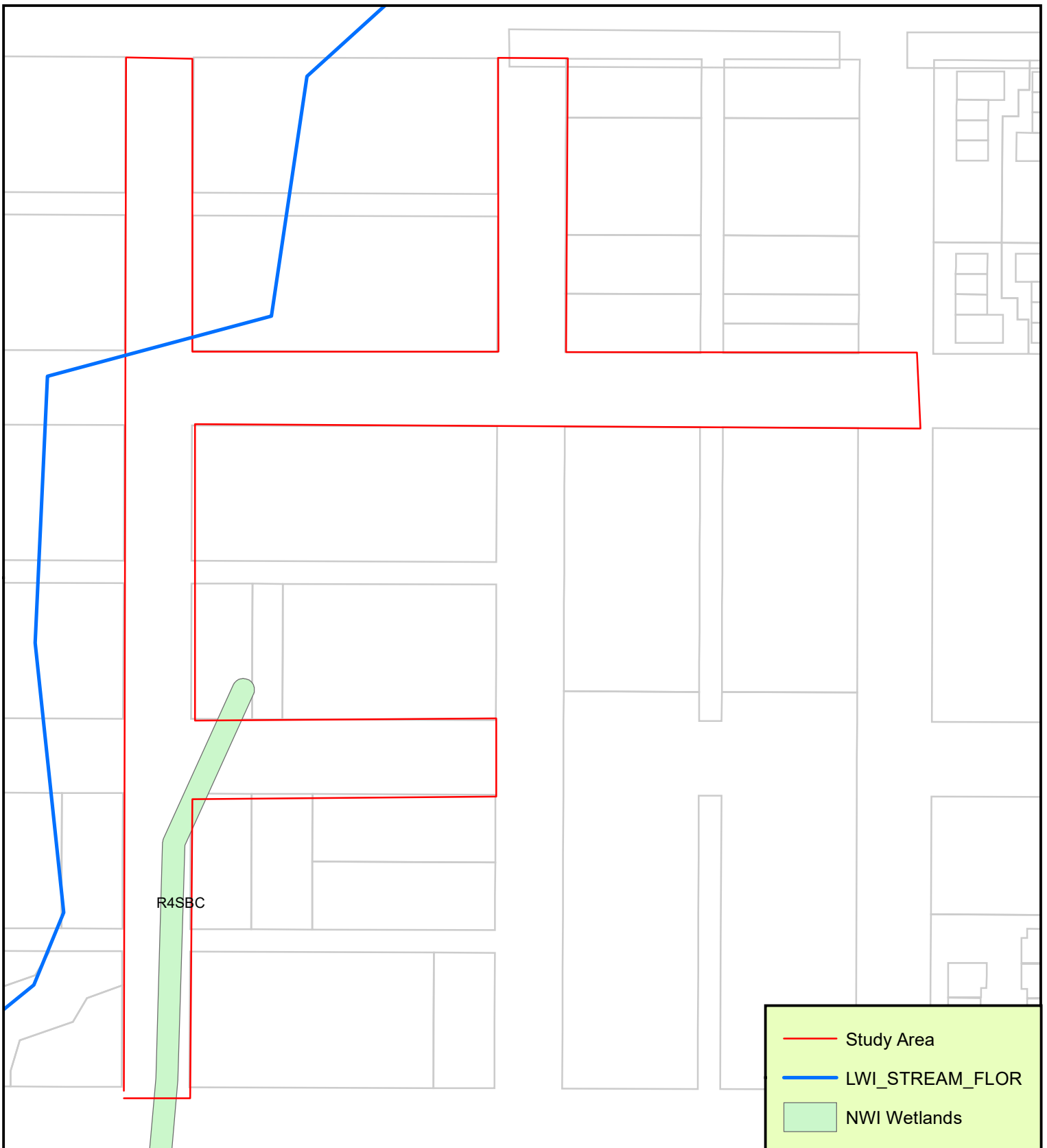


CANCELLED  
2104  
2500  
802  
803  
2102  
2103

REVISIONS  
05/16/2007 - LCAT140 - CONVERT MAP TO GIS  
05/06/2008 - LCAT150 - CORRECT TL 802 TO 801  
04/06/2015 - LCAT115 - REVISED BLOCK #5 CENTRAL PARK ADD.

FIGURE 2a: ORMAP TaxLot Map

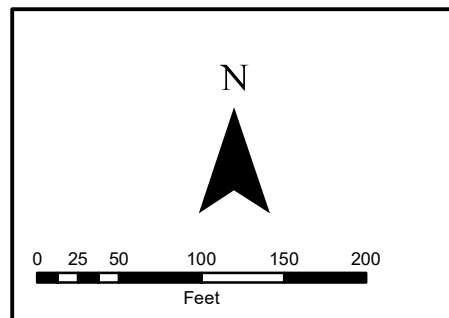
FLORENCE  
18122731



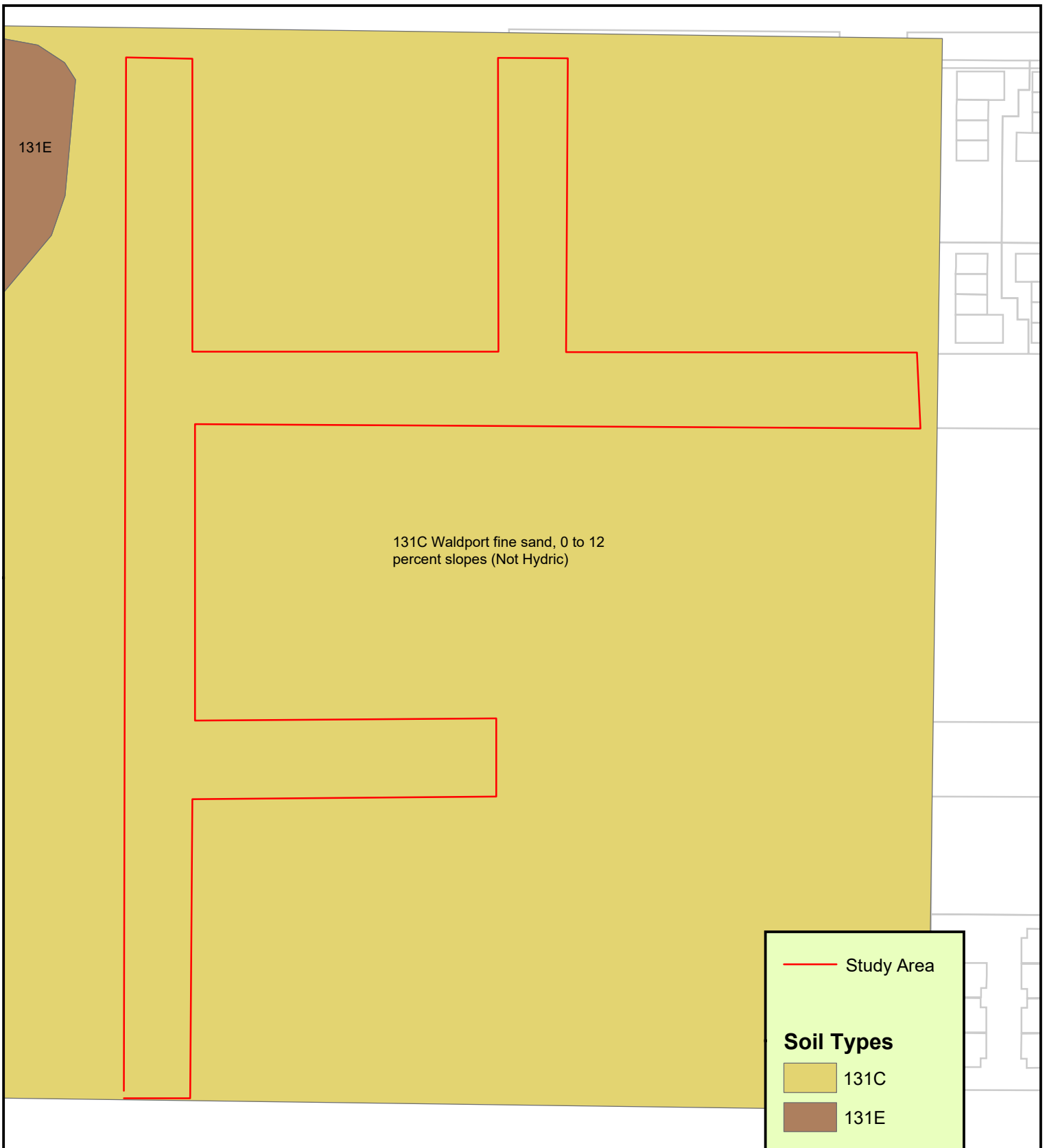
**Florence Streets**

*Figure 3: LWI and NWI*

Created By: SS  
 Created On: 11/14/2024



Data Source: Local Wetland Inventory and US Fish and Wildlife Service National Wetland Inventory. Reproduced by Rabe Consulting for the purpose of this document.

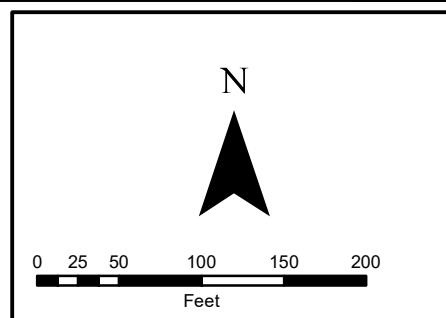


## Florence Streets

Figure 4: Soils

Created By: SS

Created On: 11/14/2024



Data Source: NRCS Web Soil Survey. Reproduced by Rabe Consulting for the purpose of this document.



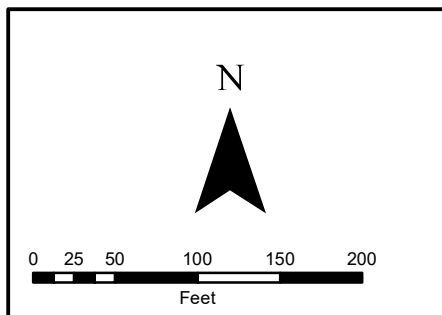


## Florence Streets

Figure 5: Aerial

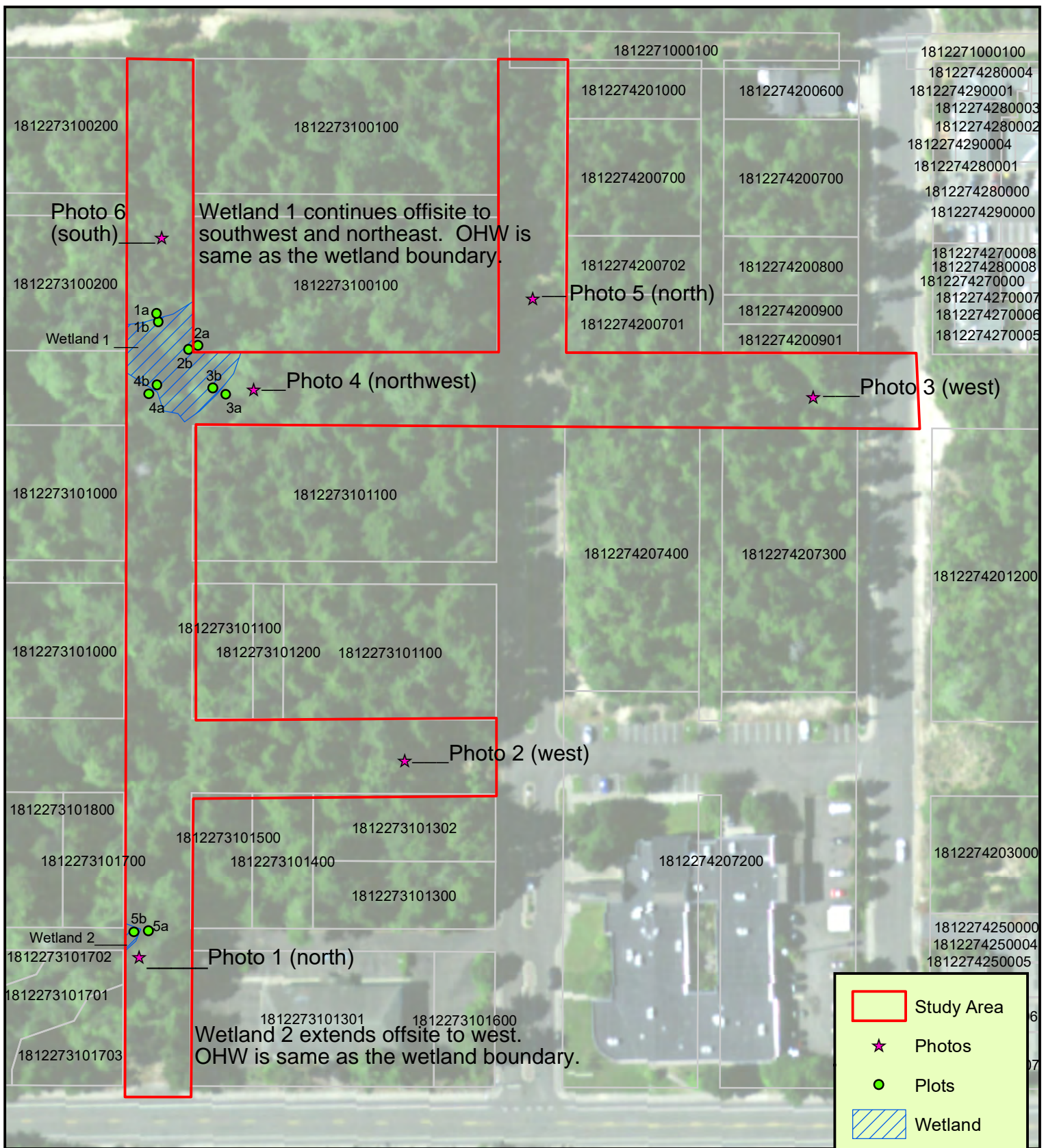
Created By: SS

Created On: 11/14/2024



Data Source: National Agriculture Imagery Program (NAIP). Flown in Summer 2020. Reproduced by Rabe Consulting for the purpose of this document.

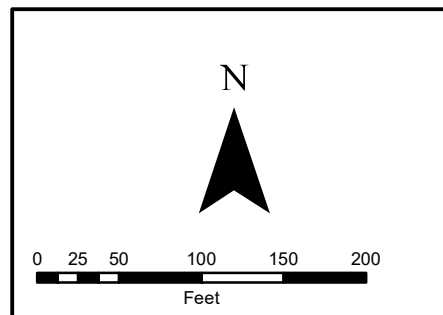




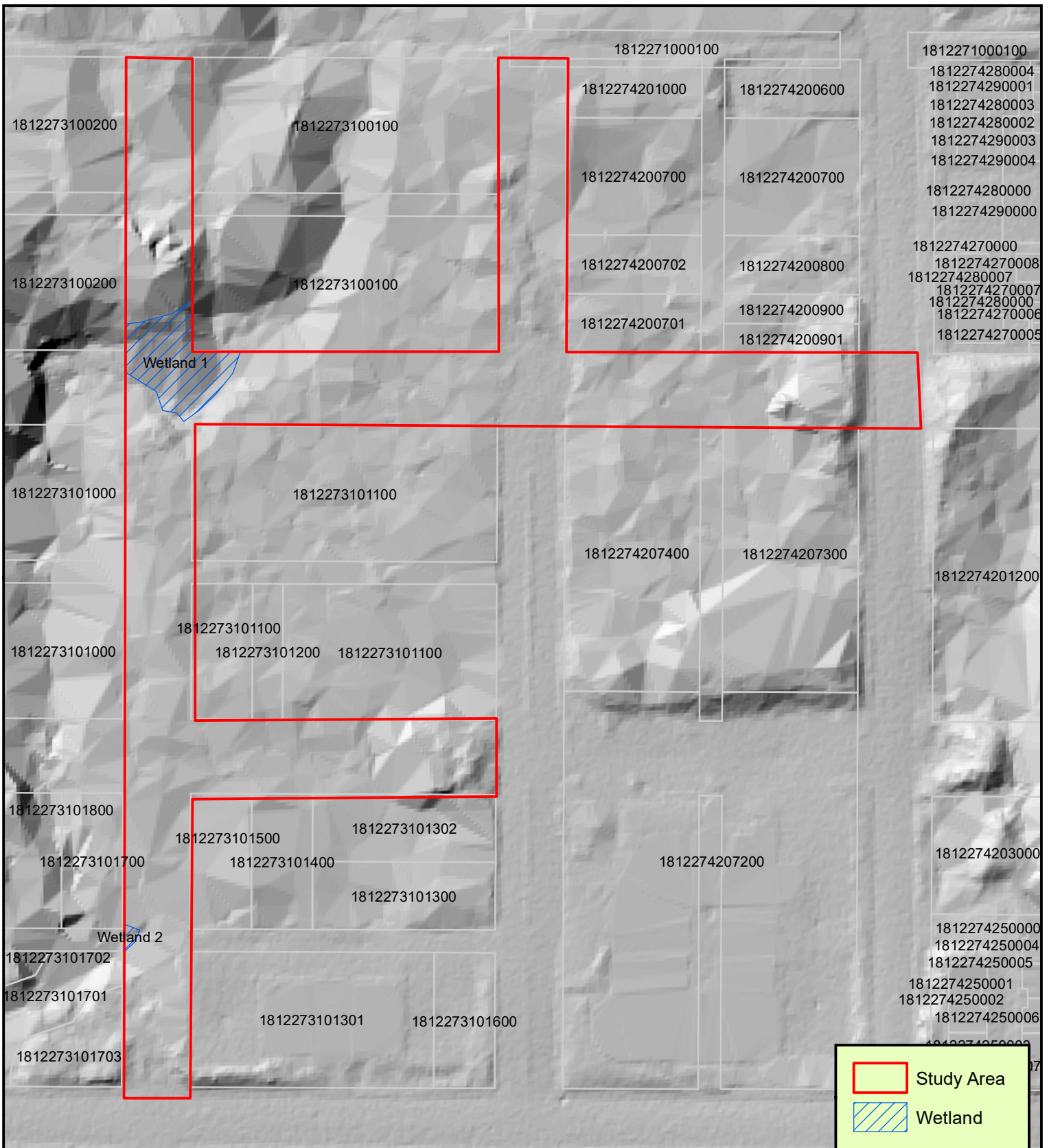
## Florence Streets

Figure 6: Delineation

Created By: SS  
Created On: 11/14/2024



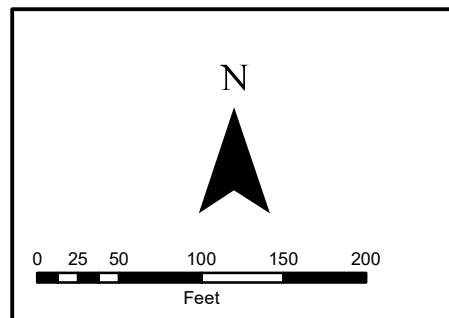
Data Source: National Agriculture Imagery Program (NAIP). Flown in Summer 2020. GPS plots and polygons acquired using an Ashtech MobileMapper 10 GPS unit with submeter accuracy of 0.425m. Reproduced by Rabe Consulting for the purpose of this document.



**Florence Streets**

*Figure 7: Lidar*

Created By: SS  
Created On: 11/14/2024



Data Source: LiDar  
Reproduced by Rabe Consulting for the purpose of this document.

## **Appendix B** Data Forms



Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR Sampling Point: 1A  
 Investigator(s): Rabe Section, Township, Range: T1B5 R12WS27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Complex Slope (%): 4  
 Subregion (LRR): LRR A Lat: 43.976568 Long: -124.1150 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley-Keating Silt loams NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y 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>   </u> No <u>X</u> | Is the Sampled Area within a Wetland? Yes <u>   </u> No <u>X</u> |
| Hydric Soil Present? Yes <u>   </u> No <u>0</u>            |  |
| Wetland Hydrology Present? Yes <u>   </u> No <u>0</u>      |  |

Remarks:  
upslope of wetland drainage

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                             | (Plot size: <u>10m<sup>2</sup></u> )       | Absolute % Cover | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  |
|--|--|------------------|-------------------|------------------|--|
| 1.                                       | <u>Pseudotsuga menziesii</u>               | <u>80</u>        | <u>Y</u>          | <u>FACU</u>      |  |
| 2.                                       |  |                  |                   |                  |  |
| 3.                                       |  |                  |                   |                  |  |
|  |  | <u>80</u>        | =Total Cover      |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of:                      Multiply by:<br>OBL species <u>   </u> x 1 = <u>   </u><br>FACW species <u>   </u> x 2 = <u>   </u><br>FAC species <u>   </u> x 3 = <u>   </u><br>FACU species <u>130</u> x 4 = <u>520</u><br>UPL species <u>30</u> x 5 = <u>150</u><br>Column Totals: <u>160</u> (A) <u>670</u> (B)<br>Prevalence Index = B/A = <u>4.19</u>  |
| Sapling/Shrub Stratum                    | (Plot size: <u>   </u> )                   | Absolute % Cover | Dominant Species? | Indicator Status |  |
| 1.                                       | <u><del>Rubus</del> Gaultheria shallon</u> | <u>50</u>        | <u>Y</u>          | <u>FACU</u>      |  |
| 2.                                       | <u>Vaccinium ovalifolium</u>               | <u>30</u>        | <u>Y</u>          | <u>UPL</u>       |  |
|  |  | <u>80</u>        | =Total Cover      |                  |  |
| Herb Stratum                             | (Plot size: <u>   </u> )                   | Absolute % Cover | Dominant Species? | Indicator Status | <b>Hydrophytic Vegetation Indicators:</b><br>___ 1 - Rapid Test for Hydrophytic Vegetation<br>___ 2 - Dominance Test is >50%<br>___ 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>___ 5 - Wetland Non-Vascular Plants <sup>1</sup><br>___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.                                       |  |                  |                   |                  |  |
| 2.                                       |  |                  |                   |                  |  |
| 3.                                       |  |                  |                   |                  |  |
| 4.                                       |  |                  |                   |                  |  |
| 5.                                       |  |                  |                   |                  |  |
| 6.                                       |  |                  |                   |                  |  |
| 7.                                       |  |                  |                   |                  |  |
| 8.                                       |  |                  |                   |                  |  |
| 9.                                       |  |                  |                   |                  |  |
|  |  |                  | =Total Cover      |                  |  |
| Woody Vine Stratum                       | (Plot size: <u>   </u> )                   | Absolute % Cover | Dominant Species? | Indicator Status |  |
| 1.                                       |  |                  |                   |                  |  |
| 2.                                       |  |                  |                   |                  |  |
|  |  |                  | =Total Cover      |                  |  |
| % Bare Ground in Herb Stratum <u>100</u> |  |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>   </u> No <u>X</u>  |

Remarks:

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth<br>(inches) | Matrix        |     | Redox Features |   |                   |                  | Texture | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|---------|---------|
|                   | Color (moist) | %   | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |         |         |
| 0-7               | 7.5 YR 4/6    | 100 |                |   |                   |                  | light   |         |
| 7-20              | 7.5 YR 5/2    | 100 |                |   |                   |                  | sand    |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Sandy Redox (S5)                         | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

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

Remarks: \_\_\_\_\_

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   |
|---|---|
| Primary Indicators (minimum of one is 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 type="checkbox"/> High Water Table (A2)                        | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)        |
| <input 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"/> Salt Crust (311)                             |   |
| <input type="checkbox"/> Aquatic Invertebrates (B13)                  |   |
| <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                   |   |
| <input type="checkbox"/> Oxidized Rhizospheres on 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)                   |   |

**Field Observations:**

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

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

Remarks: \_\_\_\_\_



**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET - Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Leone Sampling Date: 10/09  
Applicant/Owner: City of Florence State: OR Sampling Point: 1B  
Investigator(s): Rabe Section, Township, Range: T18S R012W S27  
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 4  
Subregion (LRR): L22A Lat: 43.976547 Long: -124.114994 Datum: NAD83  
Soil Map Unit Name: B3C Ridley-Keating Silt loams NWI classification: N/A  
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 <u>    </u> | Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> |
| Hydric Soil Present? Yes <u>X</u> No <u>    </u>            |   |
| Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>      |   |

Remarks:

*water present in bottom of drainage*

**VEGETATION - Use scientific names of plants.**

| Tree Stratum                            | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover          | Dominant Species? | Indicator Status |
|---|--------------------------------------|---------------------------|-------------------|------------------|
| 1.                                      | <u>Alnus rubra</u>                   | <u>80</u>                 | <u>Y</u>          | <u>FAC</u>       |
| 2.                                      | <u>Pseudotsuga menziesii</u>         | <u>10</u>                 | <u>Y</u>          | <u>FACW</u>      |
| 3.                                      |                                      |                           |                   |                  |
| 4.                                      |                                      |                           |                   |                  |
|   |                                      | <u>90</u> = Total Cover   |                   |                  |
| Sapling/Shrub Stratum                   | (Plot size: <u>10m<sup>2</sup></u> ) |                           |                   |                  |
| 1.                                      | <u>Rubus spectabilis</u>             | <u>30</u>                 | <u>Y</u>          | <u>FAC</u>       |
| 2.                                      |                                      |                           |                   |                  |
| 3.                                      |                                      |                           |                   |                  |
| 4.                                      |                                      |                           |                   |                  |
| 5.                                      |                                      |                           |                   |                  |
|   |                                      | <u>30</u> = Total Cover   |                   |                  |
| Herb Stratum                            | (Plot size: <u>1m<sup>2</sup></u> )  |                           |                   |                  |
| 1.                                      | <u>Polystichum minutum</u>           | <u>20</u>                 | <u>Y</u>          | <u>FACU</u>      |
| 2.                                      | <u>Athyrium cycloclorum</u>          | <u>5</u>                  | <u>Y</u>          | <u>FAC</u>       |
| 3.                                      |                                      |                           |                   |                  |
| 4.                                      |                                      |                           |                   |                  |
| 5.                                      |                                      |                           |                   |                  |
| 6.                                      |                                      |                           |                   |                  |
| 7.                                      |                                      |                           |                   |                  |
| 8.                                      |                                      |                           |                   |                  |
| 9.                                      |                                      |                           |                   |                  |
| 10.                                     |                                      |                           |                   |                  |
| 11.                                     |                                      |                           |                   |                  |
|   |                                      | <u>25</u> = Total Cover   |                   |                  |
| Woody Vine Stratum                      | (Plot size: <u>    </u> )            |                           |                   |                  |
| 1.                                      |                                      |                           |                   |                  |
| 2.                                      |                                      |                           |                   |                  |
|   |                                      | <u>    </u> = Total Cover |                   |                  |
| % Bare Ground in Herb Stratum <u>75</u> |                                      |                           |                   |                  |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of:                    | Multiply by:      |
|--------------------------------------|-------------------|
| OBL species <u>    </u>              | x 1 = <u>    </u> |
| FACW species <u>    </u>             | x 2 = <u>    </u> |
| FAC species <u>115</u>               | x 3 = <u>345</u>  |
| FACU species <u>30</u>               | x 4 = <u>120</u>  |
| UPL species <u>    </u>              | x 5 = <u>    </u> |
| Column Totals: <u>145</u> (A)        | <u>465</u> (B)    |
| Prevalence Index = B/A = <u>3.21</u> |                   |

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

5 - Wetland Non-Vascular Plants<sup>1</sup>

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No     

Remarks:

**SOIL**

Sampling Point: 1B

**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> |           |         |
| 0-1            | 10YR3/1       | 100 |                |    |                   |                  | Organic   |         |
| 1-8            | 10YR3/1       | 95  | 5YR5/6         | 5  | C                 | M                | Sandy mud |         |
| 8-20           | 10YR6/3       | 90  | 5YR5/4         | 10 | C                 | M                | Sandy     |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input checked="" type="checkbox"/> Sandy Redox (S5)              | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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 checked="" type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Depleted Dark Surface (F7)               |  |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**      Yes       No

Remarks:

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   |
|---|---|
| Primary Indicators (minimum of one is 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 on 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)                               |   |

**Field Observations:**

|                             |   |  |                           |   |
|-----------------------------|---|--|---------------------------|---|
| Surface Water Present?      | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | Depth (inches): _____     | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Water Table Present?        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Depth (inches): <u>16</u> |   |
| Saturation Present?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Depth (inches): <u>10</u> |   |
| (includes capillary fringe) |   |  |                           |   |

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

Remarks:



Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR Sampling Point: 2A  
 Investigator(s): Pabe Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): convex Slope (%): 2  
 Subregion (LRR): LRR2A Lat: 43.976491 Long: -124.114859 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley-Keating Silt loams NWI classification: N/A  
 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>    </u> No <u>X</u> | Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> |
| Hydric Soil Present? Yes <u>    </u> No <u>X</u>            |   |
| Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>      |   |

Remarks:  
Upslope of wetland

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                             | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover        | Dominant Species? | Indicator Status | Dominance Test worksheet:<br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)   |
|--|--------------------------------------|-------------------------|-------------------|------------------|---|
| 1. <u>Pseudotsuga menziesii</u>          |                                      | <u>80</u>               | <u>Y</u>          | <u>FACW</u>      |   |
| 2. _____                                 |                                      |                         |                   |                  |   |
| 3. _____                                 |                                      |                         |                   |                  |   |
| 4. _____                                 |                                      |                         |                   |                  |   |
|  |                                      | <u>80</u> = Total Cover |                   |                  | Prevalence Index worksheet:<br>Total % Cover of: Multiply by:<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species <u>80</u> x 3 = <u>240</u><br>FACU species <u>130</u> x 4 = <u>520</u><br>UPL species <u>20</u> x 5 = <u>100</u><br>Column Totals: <u>130</u> (A) <u>540</u> (B)<br>Prevalence Index = B/A = <u>4</u>   |
| Sapling/Shrub Stratum                    | (Plot size: <u>5m<sup>2</sup></u> )  | Absolute % Cover        | Dominant Species? | Indicator Status |   |
| 1. <u>Gaultheria shallon</u>             |                                      | <u>30</u>               | <u>Y</u>          | <u>PACU</u>      |   |
| 2. <u>Vaccinium ovalifolium</u>          |                                      | <u>20</u>               | <u>Y</u>          | <u>UPL</u>       |   |
| 3. _____                                 |                                      |                         |                   |                  |   |
| 4. _____                                 |                                      |                         |                   |                  |   |
| 5. _____                                 |                                      |                         |                   |                  |   |
|  |                                      | <u>50</u> = Total Cover |                   |                  |   |
| Herb Stratum                             | (Plot size: _____)                   | Absolute % Cover        | Dominant Species? | Indicator Status | Hydrophytic Vegetation Indicators:<br><u>    </u> 1 - Rapid Test for Hydrophytic Vegetation<br><u>    </u> 2 - Dominance Test is >50%<br><u>    </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><u>    </u> 5 - Wetland Non-Vascular Plants <sup>1</sup><br><u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. _____                                 |                                      |                         |                   |                  |   |
| 2. _____                                 |                                      |                         |                   |                  |   |
| 3. _____                                 |                                      |                         |                   |                  |   |
| 4. _____                                 |                                      |                         |                   |                  |   |
| 5. _____                                 |                                      |                         |                   |                  |   |
| 6. _____                                 |                                      |                         |                   |                  |   |
| 7. _____                                 |                                      |                         |                   |                  |   |
| 8. _____                                 |                                      |                         |                   |                  |   |
| 9. _____                                 |                                      |                         |                   |                  |   |
| 10. _____                                |                                      |                         |                   |                  |   |
| 11. _____                                |                                      |                         |                   |                  |   |
|  |                                      | _____ = Total Cover     |                   |                  |   |
| Woody Vine Stratum                       | (Plot size: _____)                   | Absolute % Cover        | Dominant Species? | Indicator Status |   |
| 1. _____                                 |                                      |                         |                   |                  |   |
| 2. _____                                 |                                      |                         |                   |                  |   |
|  |                                      | _____ = Total Cover     |                   |                  |   |
| % Bare Ground in Herb Stratum <u>100</u> |                                      |                         |                   |                  | Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u>   |

Remarks:



**SOIL**

Sampling Point: 2A

**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> |         |         |
| 0-6            | 7.5 YR4/6     | 100 |                |   |                   |                  | Organic |         |
| 6-20           | 7.5 YR5/2     | 100 |                |   |                   |                  | Sandy   |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Sandy Redox (S5)                         | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_

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

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

Remarks: \_\_\_\_\_

**HYDROLOGY**

| Wetland Hydrology Indicators:  |   | Secondary Indicators (2 or more required)                                  |
|--|---|--|
| <u>Primary Indicators (minimum of one is required; check all that apply)</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 type="checkbox"/> High Water Table (A2)                               | <input type="checkbox"/> Salt Crust (B11)   | <input type="checkbox"/> Drainage Patterns (B10)                           |
| <input 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 on 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)             |   |  |

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No  Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No  Depth (inches): \_\_\_\_\_

(includes capillary fringe)

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

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

Remarks: \_\_\_\_\_

**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR Sampling Point: 2B  
 Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 5  
 Subregion (LRR): LRRN Lat: 43.976481 Long: -124.114891 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley-Keating Silt loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            |   |
| Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>      |   |

Remarks:

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                             | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>5</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60</u> (A/B)   |
|--|--------------------------------------|------------------|-------------------|------------------|--|
| 1.                                       | <u>Alnus rubra</u>                   | <u>80</u>        | <u>Y</u>          | <u>FAC</u>       |  |
| 2.                                       | <u>Pseudotsugamenziesii</u>          | <u>10</u>        | <u>Y</u>          | <u>FACU</u>      |  |
| 3.                                       |                                      |                  |                   |                  |  |
| 4.                                       |                                      |                  |                   |                  |  |
|  |                                      | <u>90</u>        | =Total Cover      |                  |  |
| Sapling/Shrub Stratum                    | (Plot size: _____)                   |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of:                      Multiply by:<br>OBL species <u>20</u> x 1 = <u>20</u><br>FACW species                              x 2 = _____<br>FAC species <u>90</u> x 3 = <u>270</u><br>FACU species <u>30</u> x 4 = <u>120</u><br>UPL species                                x 5 = _____<br>Column Totals: <u>140</u> (A) <u>410</u> (B)<br>Prevalence Index = B/A = <u>2.9</u>  |
| 1.                                       |                                      |                  |                   |                  |  |
| 2.                                       |                                      |                  |                   |                  |  |
| 3.                                       |                                      |                  |                   |                  |  |
| 4.                                       |                                      |                  |                   |                  |  |
|  |                                      |                  | =Total Cover      |                  |  |
| Herb Stratum                             | (Plot size: <u>1m<sup>2</sup></u> )  |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br><input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation<br><input checked="" type="checkbox"/> 2 - Dominance Test is >50%<br><input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br><input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br><input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup><br><input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.                                       | <u>Carex obnupta</u>                 | <u>20</u>        | <u>Y</u>          | <u>OBL</u>       |  |
| 2.                                       | <u>Polystichum minimum</u>           | <u>20</u>        | <u>Y</u>          | <u>FACU</u>      |  |
| 3.                                       | <u>Athyrium cycloserium</u>          | <u>10</u>        | <u>Y</u>          | <u>FAC</u>       |  |
| 4.                                       |                                      |                  |                   |                  |  |
| 5.                                       |                                      |                  |                   |                  |  |
| 6.                                       |                                      |                  |                   |                  |  |
| 7.                                       |                                      |                  |                   |                  |  |
| 8.                                       |                                      |                  |                   |                  |  |
| 9.                                       |                                      |                  |                   |                  |  |
| 10.                                      |                                      |                  |                   |                  |  |
| 11.                                      |                                      |                  |                   |                  |  |
|  |                                      | <u>50</u>        | =Total Cover      |                  |  |
| Woody Vine Stratum                       | (Plot size: _____)                   |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |
| 1.                                       |                                      |                  |                   |                  |  |
| 2.                                       |                                      |                  |                   |                  |  |
|  |                                      |                  | =Total Cover      |                  |  |
| % Bare Ground in Herb Stratum: <u>50</u> |                                      |                  |                   |                  |  |

Remarks:



**SOIL**

Sampling Point: 2B

**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> |            |         |
| 0-2            | 10YR3/1       | 100 |                |    |                   |                  | Organic    |         |
| 2-7            | 10YR3/1       | 95  | 5YR5/6         | 5  | C                 | M                | Sandy muck |         |
| 7-20           | 10YR6/3       | 90  | 5YR5/6         | 10 | C                 | M                | Sandy      |         |
|                |               |     |                |    |                   |                  |            |         |
|                |               |     |                |    |                   |                  |            |         |
|                |               |     |                |    |                   |                  |            |         |
|                |               |     |                |    |                   |                  |            |         |
|                |               |     |                |    |                   |                  |            |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input checked="" type="checkbox"/> Sandy Redox (S5)              | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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 checked="" type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Depleted Dark Surface (F7)               |  |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes  No

Remarks:

**HYDROLOGY**

| Wetland Hydrology Indicators:  |   | Secondary Indicators (2 or more required)                                  |
|--|---|--|
| <b>Primary Indicators (minimum of one is 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"/> 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 checked="" 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 on Living Roots (C3)               | <input checked="" 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)             |   |  |

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No  Depth (inches): 16

Saturation Present? Yes  No  Depth (inches): 11

(includes capillary fringe)

**Wetland Hydrology Present?** Yes  No

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

Remarks:

**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
Applicant/Owner: City of Florence State: Or. Sampling Point: 3A  
Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 1  
Subregion (LRR): LRR1A Lat: 43.976372 Long: -124.114763 Datum: NAD83  
Soil Map Unit Name: 131C Rdbly - Keating Site Lamm NWI classification: NA

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>    </u> No <u>X</u> | Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> |
| Hydric Soil Present? Yes <u>    </u> No <u>X</u>            |   |
| Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>      |   |

Remarks: up slope of wetland drainage

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                               | (Plot size: <u>10m</u> )     | Absolute % Cover | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)  |
|--|------------------------------|------------------|-------------------|------------------|--|
| 1.   | <u>Pseudo tsuga mensieri</u> | <u>80</u>        | <u>Y</u>          | <u>FACU</u>      |  |
| 2.   |                              |                  |                   |                  |  |
| 3.   |                              |                  |                   |                  |  |
| 4.   |                              |                  |                   |                  |  |
|  |                              | <u>80</u>        | =Total Cover      |                  |  |
| Sapling/Shrub Stratum                      | (Plot size: <u>5m?</u> )     |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of:                      Multiply by:<br>OBL species <u>    </u> x 1 = <u>    </u><br>FACW species <u>    </u> x 2 = <u>    </u><br>FAC species <u>    </u> x 3 = <u>    </u><br>FACU species <u>80</u> x 4 = <u>320</u><br>UPL species <u>30</u> x 5 = <u>150</u><br>Column Totals: <u>110</u> (A) <u>470</u> (B)<br>Prevalence Index = B/A = <u>4.2</u>  |
| 1.   | <u>Vaccinium ovalifolium</u> | <u>30</u>        | <u>Y</u>          | <u>UPL</u>       |  |
| 2.   |                              |                  |                   |                  |  |
| 3.   |                              |                  |                   |                  |  |
| 4.   |                              |                  |                   |                  |  |
|  |                              | <u>30</u>        | =Total Cover      |                  |  |
| Herb Stratum                               | (Plot size: <u>    </u> )    |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br>___ 1 - Rapid Test for Hydrophytic Vegetation<br>___ 2 - Dominance Test is >50%<br>___ 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>___ 5 - Wetland Non-Vascular Plants <sup>1</sup><br>___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.   |                              |                  |                   |                  |  |
| 2.   |                              |                  |                   |                  |  |
| 3.   |                              |                  |                   |                  |  |
| 4.   |                              |                  |                   |                  |  |
| 5.   |                              |                  |                   |                  |  |
| 6.   |                              |                  |                   |                  |  |
| 7.   |                              |                  |                   |                  |  |
| 8.   |                              |                  |                   |                  |  |
| 9.   |                              |                  |                   |                  |  |
| 10.  |                              |                  |                   |                  |  |
| 11.  |                              |                  |                   |                  |  |
|  |                              |                  | =Total Cover      |                  |  |
| Woody Vine Stratum                         | (Plot size: <u>    </u> )    |                  |                   |                  |  |
| 1.   |                              |                  |                   |                  |  |
| 2.   |                              |                  |                   |                  |  |
|  |                              |                  | =Total Cover      |                  |  |
| % Bare Ground in Herb Stratum - <u>100</u> |                              |                  |                   |                  |  |

Remarks:



**SOIL**

Sampling Point: 34

**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            | 7.5 YR 4/6    | 100 |                |   |                   |                  | Organic |         |
| 8-20           | 7.5 YR 5/2    | 100 |                |   |                   |                  | Sandy   |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |

<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.) |   |  | Indicators for Problematic Hydric Soils <sup>3</sup> : |  |  |
|---|---|--|--|--|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |  |  |  |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input type="checkbox"/> Sandy Redox (S5)                         | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |  |  |  |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |  |  |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |  |  |  |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |  |  |  |
| <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"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |  |  |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

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

Remarks: \_\_\_\_\_

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   | Secondary Indicators (2 or more required)                                  |  |
|---|---|--|--|
| Primary Indicators (minimum of one is 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 type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |  |
| <input type="checkbox"/> High Water Table (A2)                        | <input type="checkbox"/> Salt Crust (B11)   | <input checked="" type="checkbox"/> Drainage Patterns (B10)                |  |
| <input 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 on 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)      |   |  |  |

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No Y Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No Y Depth (inches): \_\_\_\_\_

Saturation Present? Yes \_\_\_\_\_ No Y Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

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

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

Remarks: \_\_\_\_\_

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR Sampling Point: 3B  
 Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): CONCAVE Slope (%): 5  
 Subregion (LRR): LRRA Lat: 43.976387 Long: -124.114807 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley-Keating Silt loam NWI classification: NA  
 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 <u>    </u> | Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> |
| Hydric Soil Present? Yes <u>X</u> No <u>    </u>            |   |
| Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>      |   |

Remarks:

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                              | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)   |
|---|--------------------------------------|------------------|-------------------|------------------|--|
| 1.  | <u>Alnus rubra</u>                   | <u>90</u>        | <u>Y</u>          | <u>FAC</u>       |  |
| 2.  |                                      |                  |                   |                  |  |
| 3.  |                                      |                  |                   |                  |  |
| 4.  |                                      |                  |                   |                  |  |
|   |                                      | <u>90</u>        | =Total Cover      |                  |  |
| Sapling/Shrub Stratum                     | (Plot size: <u>5m<sup>2</sup></u> )  |                  |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of:                      Multiply by:<br>OBL species <u>    </u> x 1 = <u>    </u><br>FACW species <u>    </u> x 2 = <u>    </u><br>FAC species <u>120</u> x 3 = <u>360</u><br>FACU species <u>20</u> x 4 = <u>80</u><br>UPL species <u>    </u> x 5 = <u>    </u><br>Column Totals: <u>140</u> (A) <u>540</u> (B)<br>Prevalence Index = B/A = <u>3.9</u>  |
| 1.  | <u>Rubus spectabilis</u>             | <u>30</u>        | <u>YES</u>        | <u>FAC</u>       |  |
| 2.  |                                      |                  |                   |                  |  |
| 3.  |                                      |                  |                   |                  |  |
| 4.  |                                      |                  |                   |                  |  |
|   |                                      |                  | =Total Cover      |                  |  |
| Herb Stratum                              | (Plot size: <u>1m<sup>2</sup></u> )  |                  |                   |                  | <b>Hydrophytic Vegetation Indicators:</b><br>1 - Rapid Test for Hydrophytic Vegetation<br><input checked="" type="checkbox"/> 2 - Dominance Test is >50%<br>3 - Prevalence Index is ≤3.0 <sup>1</sup><br>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>5 - Wetland Non-Vascular Plants <sup>1</sup><br>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.  | <u>Polystichum monifera</u>          | <u>20</u>        | <u>yes</u>        | <u>FACU</u>      |  |
| 2.  |                                      |                  |                   |                  |  |
| 3.  |                                      |                  |                   |                  |  |
| 4.  |                                      |                  |                   |                  |  |
| 5.  |                                      |                  |                   |                  |  |
| 6.  |                                      |                  |                   |                  |  |
| 7.  |                                      |                  |                   |                  |  |
| 8.  |                                      |                  |                   |                  |  |
| 9.  |                                      |                  |                   |                  |  |
| 10.                                       |                                      |                  |                   |                  |  |
| 11.                                       |                                      |                  |                   |                  |  |
|   |                                      | <u>20</u>        | =Total Cover      |                  |  |
| Woody Vine Stratum                        | (Plot size: <u>    </u> )            |                  |                   |                  | <b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>   |
| 1.  |                                      |                  |                   |                  |  |
| 2.  |                                      |                  |                   |                  |  |
|   |                                      |                  | =Total Cover      |                  |  |
| % Bare Ground in Herb Stratum <u>    </u> |                                      |                  |                   |                  |  |

Remarks:



**SOIL**

Sampling Point: 3B

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth<br>(inches) | Matrix        |     | Redox Features |    |                   |                  | Texture    | Remarks |
|-------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
|                   | Color (moist) | %   | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-1               | 10YR3/1       | 100 | r              |    |                   |                  | Organic    |         |
| 1-6               | 10YR3/4       | 95  | 5YR5/4         | 5  | C                 | M                | mucky sand |         |
| 6-20              | 10YR6/3       | 90  | 5YR5/4         | 10 | C                 | M                | sandy      |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |  |
|---|---|--|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |  |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input checked="" type="checkbox"/> Sandy Redox (S5)              | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |  |
| <input type="checkbox"/> Black Histic (A3)                                | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |  |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |  |
| <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 checked="" type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Depleted Dark Surface (F7)               |  |  |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |  |

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_

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

**Hydric Soil Present?** Yes  No

Remarks:

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   |
|---|---|
| Primary Indicators (minimum of one is 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"/> 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 on 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"/> Drainage Patterns (B10)                                  |
|   | <input type="checkbox"/> Dry-Season Water Table (C2)                              |
|   | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)                |
|   | <input checked="" 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)                                |

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No  Depth (inches): 15

Saturation Present? Yes  No  Depth (inches): 27

(includes capillary fringe)

**Wetland Hydrology Present?** Yes  No

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

Remarks:

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR. Sampling Point: 4A  
 Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2  
 Subregion (LRR): LRR1A Lat: 43.976390 Long: -124.115022 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley-Heston S.H loam NWI classification: PLA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input type="checkbox"/> No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>            |   |
| Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>      |   |

Remarks:  
upslope of wetland

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                              | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover        | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A/B)  |
|---|--------------------------------------|-------------------------|-------------------|------------------|--|
| 1.  | <u>Pseudotsuga menziesii</u>         | <u>80</u>               | <u>Y</u>          | <u>DFCU</u>      |  |
| 2.  |                                      |                         |                   |                  |  |
| 3.  |                                      |                         |                   |                  |  |
| 4.  |                                      |                         |                   |                  |  |
|   |                                      | <u>80</u> = Total Cover |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of: _____ Multiply by: _____<br>OBL species _____ x 1 = _____<br>FACW species _____ x 2 = _____<br>FAC species _____ x 3 = _____<br>FACU species <u>110</u> x 4 = <u>440</u><br>UPL species <u>10</u> x 5 = <u>50</u><br>Column Totals: <u>120</u> (A) <u>490</u> (B)<br>Prevalence Index = B/A = <u>4.1</u>   |
| Sapling/Shrub Stratum                     | (Plot size: <u>5m<sup>2</sup></u> )  | Absolute % Cover        | Dominant Species? | Indicator Status |  |
| 1.  | <u>Gaultheria shallon</u>            | <u>30</u>               | <u>yes</u>        | <u>FACU</u>      |  |
| 2.  | <u>Vaccinium ovalifolium</u>         | <u>10</u>               | <u>yes</u>        | <u>UPL</u>       |  |
| 3.  |                                      |                         |                   |                  |  |
| 4.  |                                      |                         |                   |                  |  |
| 5.  |                                      |                         |                   |                  |  |
|   |                                      | <u>40</u> = Total Cover |                   |                  |  |
| Herb Stratum                              | (Plot size: _____)                   | Absolute % Cover        | Dominant Species? | Indicator Status | <b>Hydrophytic Vegetation Indicators:</b><br>___ 1 - Rapid Test for Hydrophytic Vegetation<br>___ 2 - Dominance Test is >50%<br>___ 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>___ 5 - Wetland Non-Vascular Plants <sup>1</sup><br>___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.  |                                      |                         |                   |                  |  |
| 2.  |                                      |                         |                   |                  |  |
| 3.  |                                      |                         |                   |                  |  |
| 4.  |                                      |                         |                   |                  |  |
| 5.  |                                      |                         |                   |                  |  |
| 6.  |                                      |                         |                   |                  |  |
| 7.  |                                      |                         |                   |                  |  |
| 8.  |                                      |                         |                   |                  |  |
| 9.  |                                      |                         |                   |                  |  |
| 10.                                       |                                      |                         |                   |                  |  |
| 11.                                       |                                      |                         |                   |                  |  |
|   |                                      | _____ = Total Cover     |                   |                  |  |
| Woody Vine Stratum                        | (Plot size: _____)                   | Absolute % Cover        | Dominant Species? | Indicator Status |  |
| 1.  |                                      |                         |                   |                  |  |
| 2.  |                                      |                         |                   |                  |  |
|   |                                      | _____ = Total Cover     |                   |                  |  |
| % Bare Ground in Herb Stratum: <u>100</u> |                                      |                         |                   |                  |  |

Remarks:



**SOIL**

Sampling Point: 4A

**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> |         |         |
| 0-3            | # 7.5ye.416   | 100 |                |   |                   |                  | organic |         |
| 3-20           | 7.5ye.2100    |     |                |   |                   |                  | sandy   |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |
|                |               |     |                |   |                   |                  |         |         |

<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 Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                                    | <input type="checkbox"/> Sandy Redox (S5)                         | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                       | <input type="checkbox"/> Stripped Matrix (S6)                     | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                                   | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                               | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)                  | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

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

Remarks:

**HYDROLOGY**

|  |   |
|--|---|
| <b>Wetland Hydrology Indicators:</b>   |   |
| <b>Primary Indicators (minimum of one is 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"/> 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 on 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)             |   |

**Field Observations:**

|                             |           |             |                       |   |
|-----------------------------|-----------|-------------|-----------------------|---|
| Surface Water Present?      | Yes _____ | No <u>X</u> | Depth (inches): _____ | <b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u> |
| Water Table Present?        | Yes _____ | No <u>X</u> | Depth (inches): _____ |   |
| Saturation Present?         | Yes _____ | No <u>X</u> | Depth (inches): _____ |   |
| (includes capillary fringe) |           |             |                       |   |

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

Remarks:

**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
Applicant/Owner: City of Florence State: OR Sampling Point: 4B  
Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 4  
Subregion (LRR): L2RA Lat: 43.976393 Long: -124.114995 Datum: NAD83  
Soil Map Unit Name: 131C Ridley-Kesting Silt loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Remarks:  |   |

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                             | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover                    | Dominant Species? | Indicator Status |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
|--|--------------------------------------|-------------------------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|------------------------|------------------|-----------------------|-----------------|-------------------|-------------|-------------------------------|----------------|-------------------------------------|--|
| 1.                                       | <u>Alnus rubra</u>                   | <u>90</u>                           | <u>4</u>          | <u>FAC</u>       | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)  |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 2.                                       | <u>Pseudotsuga menziesii</u>         | <u>5</u>                            | <u>4</u>          | <u>FACU</u>      |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 3.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 4.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
|  |                                      | <u>95</u>                           | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| Sapling/Shrub Stratum                    |                                      | (Plot size: _____)                  |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 1.                                       |                                      |                                     |                   |                  | <b>Prevalence Index worksheet:</b><br><table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>320</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.1</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species <u>100</u> | x 3 = <u>300</u> | FACU species <u>5</u> | x 4 = <u>20</u> | UPL species _____ | x 5 = _____ | Column Totals: <u>105</u> (A) | <u>320</u> (B) | Prevalence Index = B/A = <u>3.1</u> |  |
| Total % Cover of:                        | Multiply by:                         |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| OBL species _____                        | x 1 = _____                          |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| FACW species _____                       | x 2 = _____                          |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| FAC species <u>100</u>                   | x 3 = <u>300</u>                     |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| FACU species <u>5</u>                    | x 4 = <u>20</u>                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| UPL species _____                        | x 5 = _____                          |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| Column Totals: <u>105</u> (A)            | <u>320</u> (B)                       |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| Prevalence Index = B/A = <u>3.1</u>      |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 2.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 3.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 4.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 5.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
|  |                                      |                                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| Herb Stratum                             |                                      | (Plot size: <u>1m<sup>2</sup></u> ) |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 1.                                       | <u>Athyrium cycloserum</u>           | <u>10</u>                           | <u>4</u>          | <u>FAC</u>       | <b>Hydrophytic Vegetation Indicators:</b><br>1 - Rapid Test for Hydrophytic Vegetation<br><input checked="" type="checkbox"/> 2 - Dominance Test is >50%<br>3 - Prevalence Index is ≤3.0 <sup>1</sup><br>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>5 - Wetland Non-Vascular Plants <sup>1</sup><br>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 2.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 3.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 4.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 5.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 6.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 7.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 8.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 9.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 10.                                      |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 11.                                      |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
|  |                                      | <u>10</u>                           | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| Woody Vine Stratum                       |                                      | (Plot size: _____)                  |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 1.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| 2.                                       |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
|  |                                      |                                     | =Total Cover      |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |
| % Bare Ground in Herb Stratum: <u>96</u> |                                      |                                     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                       |                 |                   |             |                               |                |                                     |  |

Remarks:

**SOIL**

Sampling Point: 4B

**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> |           |         |
| 0-2            | 10YR3/1       | 100 |                |    |                   |                  | organic   |         |
| 2-7            | 10YR3/6       | 95  | 5YR5/6         | 5  | C                 | M                | muck/sand |         |
| 7-20           | 10YR6/3       | 90  | 5YR5/6         | 10 | C                 | M                | sandy     |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |
|                |               |     |                |    |                   |                  |           |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input checked="" type="checkbox"/> Sandy Redox (S5)              | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input checked="" type="checkbox"/> Stripped Matrix (S6)          | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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 checked="" type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Depleted Dark Surface (F7)               |  |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?** Yes  No

Remarks:

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   |
|---|---|
| Primary Indicators (minimum of one is 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"/> Aquatic Invertebrates (B13)                              |
| <input type="checkbox"/> Sediment Deposits (B2)                       | <input type="checkbox"/> Dry-Season Water Table (C2)                              |
| <input type="checkbox"/> Drift Deposits (B3)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                               |
| <input type="checkbox"/> Algal Mat or Crust (B4)                      | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)               |
| <input type="checkbox"/> Iron Deposits (B5)                           | <input type="checkbox"/> Presence of Reduced Iron (C4)                            |
| <input type="checkbox"/> Surface Soil Cracks (B6)                     | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)               |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)    | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)                  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)      | <input type="checkbox"/> Other (Explain in Remarks)                               |
|   | <input checked="" 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)                                |

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No  Depth (inches): 15

Saturation Present? Yes  No  Depth (inches): 9

(includes capillary fringe)

**Wetland Hydrology Present?** Yes  No

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

Remarks:

**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: Or. Sampling Point: 5A  
 Investigator(s): Rabe Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Complex Slope (%): 2  
 Subregion (LRR): LRR4 Lat: 43.975063 Long: -124.1150 Datum: NAD83  
 Soil Map Unit Name: 131C Ridley - Keating Silt loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input type="checkbox"/> No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> |
| Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>            |  |
| Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>      |  |

Remarks: Upslope of wetland, edge of drainage in study area

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                                   | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover              | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A/B)  |
|--|--------------------------------------|-------------------------------|-------------------|------------------|--|
| 1.   | <u>Pseudotsuga menziesii</u>         | <u>80</u>                     | <u>Y</u>          | <u>FACU</u>      |  |
| 2.   |                                      |                               |                   |                  |  |
| 3.   |                                      |                               |                   |                  |  |
| 4.   |                                      |                               |                   |                  |  |
|  |                                      | <u>80</u> = Total Cover       |                   |                  | <b>Prevalence Index worksheet:</b><br>Total % Cover of: <u>80</u> Multiply by:<br>OBL species <u>        </u> x 1 = <u>        </u><br>FACW species <u>        </u> x 2 = <u>        </u><br>FAC species <u>        </u> x 3 = <u>        </u><br>FACU species <u>80</u> x 4 = <u>320</u><br>UPL species <u>20</u> x 5 = <u>100</u><br>Column Totals: <u>100</u> (A) <u>420</u> (B)<br>Prevalence Index = B/A = <u>4.2</u>   |
| Sapling/Shrub Stratum                          | (Plot size: <u>5m<sup>2</sup></u> )  | Absolute % Cover              | Dominant Species? | Indicator Status |  |
| 1.   | <u>Vaccinium ovalifolium</u>         | <u>20</u>                     | <u>Y</u>          | <u>UPL</u>       |  |
| 2.   |                                      |                               |                   |                  |  |
| 3.   |                                      |                               |                   |                  |  |
| 4.   |                                      |                               |                   |                  |  |
| 5.   |                                      |                               |                   |                  |  |
|  |                                      | <u>20</u> = Total Cover       |                   |                  |  |
| Herb Stratum                                   | (Plot size: <u>        </u> )        | Absolute % Cover              | Dominant Species? | Indicator Status | <b>Hydrophytic Vegetation Indicators:</b><br>___ 1 - Rapid Test for Hydrophytic Vegetation<br>___ 2 - Dominance Test is >50%<br>___ 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>___ 5 - Wetland Non-Vascular Plants <sup>1</sup><br>___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1.   |                                      |                               |                   |                  |  |
| 2.   |                                      |                               |                   |                  |  |
| 3.   |                                      |                               |                   |                  |  |
| 4.   |                                      |                               |                   |                  |  |
| 5.   |                                      |                               |                   |                  |  |
| 6.   |                                      |                               |                   |                  |  |
| 7.   |                                      |                               |                   |                  |  |
| 8.   |                                      |                               |                   |                  |  |
| 9.   |                                      |                               |                   |                  |  |
| 10.  |                                      |                               |                   |                  |  |
| 11.  |                                      |                               |                   |                  |  |
|  |                                      | <u>        </u> = Total Cover |                   |                  |  |
| Woody Vine Stratum                             | (Plot size: <u>        </u> )        | Absolute % Cover              | Dominant Species? | Indicator Status |  |
| 1.   |                                      |                               |                   |                  |  |
| 2.   |                                      |                               |                   |                  |  |
|  |                                      | <u>        </u> = Total Cover |                   |                  |  |
| % Bare Ground in Herb Stratum: <u>        </u> |                                      |                               |                   |                  |  |

Remarks:



**SOIL**

Sampling Point: 5A

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth<br>(inches) | Matrix        |     | Redox Features |   |                   |                  | Texture | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|---------|---------|
|                   | Color (moist) | %   | Color (moist)  | % | Type <sup>1</sup> | Loc <sup>2</sup> |         |         |
| 0-4               | 10YR3/1       | 100 |                |   |                   |                  | organic |         |
| 4-20              | 7.5YR 5/2     | 100 |                |   |                   |                  | Sandy   |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |
|                   |               |     |                |   |                   |                  |         |         |

<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.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- 1 cm Muck (A9) **(LRR D, G)**
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 2.5 cm Mucky Peat or Peat (S2) **(LRR G)**
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

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

- 2 cm Muck (A10) **(LRR A, E)**
- Iron-Manganese Masses (F12) **(LRR D)**
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

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

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

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

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

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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No  Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes \_\_\_\_\_ No  Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

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

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

Remarks:

**U.S. Army Corps of Engineers**

**WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region**  
See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024  
Requirement Control Symbol EXEMPT:  
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Street Extension City/County: Florence/Lane Sampling Date: 10/09  
 Applicant/Owner: City of Florence State: OR. Sampling Point: 5B  
 Investigator(s): Raina Section, Township, Range: T18S R12W S27  
 Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): CONCAVE Slope (%): 4  
 Subregion (LRR): LRR1A Lat: 43.97506 Long: -124.115049 Datum: NAD83  
 Soil Map Unit Name: 131C Ridly-Keating Silt loams NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  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 <input checked="" type="checkbox"/> No _____<br>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____<br>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ |
| Remarks:   |  |

**VEGETATION – Use scientific names of plants.**

| Tree Stratum                        | (Plot size: <u>10m<sup>2</sup></u> ) | Absolute % Cover       | Dominant Species? | Indicator Status | <b>Dominance Test worksheet:</b><br>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>2</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
|-------------------------------------|--------------------------------------|------------------------|-------------------|------------------|---|-------------------|--------------|-------------------|-------------|--------------------|-------------|------------------------|------------------|--------------------|-------------|-------------------|-------------|-------------------------------|----------------|-----------------------------------|--|
| 1.                                  | <u>Ainus rubra</u>                   | <u>80</u>              | <u>Y</u>          | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 2.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 3.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 4.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
|                                     |                                      | <u>80</u> =Total Cover |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| Sapling/Shrub Stratum               | (Plot size: <u>5m<sup>2</sup></u> )  | Absolute % Cover       | Dominant Species? | Indicator Status | <b>Prevalence Index worksheet:</b><br><table style="width:100%; border: none;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species <u>120</u></td> <td>x 3 = <u>360</u></td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>360</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species _____ | x 1 = _____ | FACW species _____ | x 2 = _____ | FAC species <u>120</u> | x 3 = <u>360</u> | FACU species _____ | x 4 = _____ | UPL species _____ | x 5 = _____ | Column Totals: <u>120</u> (A) | <u>360</u> (B) | Prevalence Index = B/A = <u>3</u> |  |
| Total % Cover of:                   | Multiply by:                         |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| OBL species _____                   | x 1 = _____                          |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| FACW species _____                  | x 2 = _____                          |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| FAC species <u>120</u>              | x 3 = <u>360</u>                     |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| FACU species _____                  | x 4 = _____                          |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| UPL species _____                   | x 5 = _____                          |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| Column Totals: <u>120</u> (A)       | <u>360</u> (B)                       |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| Prevalence Index = B/A = <u>3</u>   |                                      |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 1.                                  | <u>Rubus Spectabilis</u>             | <u>40</u>              | <u>yes</u>        | <u>FAC</u>       |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 2.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 3.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 4.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 5.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
|                                     |                                      | <u>40</u> =Total Cover |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| Herb Stratum                        | (Plot size: _____)                   | Absolute % Cover       | Dominant Species? | Indicator Status | <b>Hydrophytic Vegetation Indicators:</b><br>1 - Rapid Test for Hydrophytic Vegetation<br><input checked="" type="checkbox"/> 2 - Dominance Test is >50%<br><input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>5 - Wetland Non-Vascular Plants <sup>1</sup><br>_____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 1.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 2.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 3.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 4.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 5.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 6.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 7.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 8.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 9.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 10.                                 | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 11.                                 | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
|                                     |                                      | _____ =Total Cover     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| Woody Vine Stratum                  | (Plot size: _____)                   | Absolute % Cover       | Dominant Species? | Indicator Status | <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 1.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| 2.                                  | _____                                | _____                  | _____             | _____            |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
|                                     |                                      | _____ =Total Cover     |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |
| % Bare Ground in Herb Stratum _____ |                                      |                        |                   |                  |   |                   |              |                   |             |                    |             |                        |                  |                    |             |                   |             |                               |                |                                   |  |

Remarks:

**SOIL**

Sampling Point: 58

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth<br>(inches) | Matrix        |     | Redox Features |    |                   |                  | Texture    | Remarks |
|-------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
|                   | Color (moist) | %   | Color (moist)  | %  | Type <sup>1</sup> | Loc <sup>2</sup> |            |         |
| 0-1               | 10YR3/1       | 100 |                |    |                   |                  | organic    |         |
| 1-6               | 10YR3/1       | 95  | 5YR5/6         | 5  | C                 | M                | mucky sand |         |
| 6-20              | 10YR6/3       | 90  | 5YR5/6         | 10 | C                 | M                | sand       |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |
|                   |               |     |                |    |                   |                  |            |         |

<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.) |   | Indicators for Problematic Hydric Soils <sup>3</sup> :       |
|---|---|--|
| <input type="checkbox"/> Histosol (A1)                                    | <input type="checkbox"/> Sandy Gleyed Matrix (S4)                 | <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)          |
| <input type="checkbox"/> Histic Epipedon (A2)                             | <input checked="" type="checkbox"/> Sandy Redox (S5)              | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) |
| <input type="checkbox"/> Black Histic (A3)                                | <input checked="" type="checkbox"/> Stripped Matrix (S6)          | <input type="checkbox"/> Red Parent Material (F21)           |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                            | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | <input type="checkbox"/> Very Shallow Dark Surface (F22)     |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)                        | <input type="checkbox"/> Loamy Gleyed Matrix (F2)                 | <input type="checkbox"/> Other (Explain in Remarks)          |
| <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 checked="" type="checkbox"/> Sandy Mucky Mineral (S1)              | <input type="checkbox"/> Depleted Dark Surface (F7)               |  |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)           | <input type="checkbox"/> Redox Depressions (F8)                   |  |

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

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**      Yes       No

Remarks:

**HYDROLOGY**

| Wetland Hydrology Indicators:   |   |
|---|---|
| Primary Indicators (minimum of one is 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 checked="" 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"/> Salt Crust (B11)                             |   |
| <input type="checkbox"/> Aquatic Invertebrates (B13)                  |   |
| <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                   |   |
| <input type="checkbox"/> Oxidized Rhizospheres on 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)                   |   |

**Field Observations:**

|                        |   |  |                           |   |
|------------------------|---|--|---------------------------|---|
| Surface Water Present? | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | Depth (inches): _____     | <b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Water Table Present?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Depth (inches): <u>16</u> |   |
| Saturation Present?    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | Depth (inches): <u>10</u> |   |

(includes capillary fringe)

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

Remarks:

## **Appendix C**    Ground-Level Color Photographs



**Photo 1 (facing north toward  
Wetland 1)**



**Photo 2 (facing west)**





**Photo 3 (facing west)**



**Photo 4 (facing northwest,  
down to Wetland 1)**





**Photo 5 (facing north)**



**Photo 6 (facing south)**



## Appendix D References

- Environmental Laboratory. (1987). *Technical report Y-87-1* (Corps of Engineers Wetland Delineation Manual). Vicksburg, Mississippi: U.S. Army Corps of Engineers Waterways Experiment Station.
- Munsell Color Services. (2005). *Munsell soil color charts: Revised washable edition*. New Windsor, New York: Division of Gretag Macbeth, LLC.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin (2018). State of Oregon 2018 Wetland Plant List. U.S. Army Corps of Engineers. 28 pp.
- U.S. Army Corps of Engineers. (1992). *Clarification and interpretation memorandum of the 1987 manual*. Washington, DC: U.S. Government. 4pp.
- U.S. Army Corps of Engineers. (2010). Regional Supplemental to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) Technical Report ERDC/EL TR-10-3. Vicksburg, Mississippi: U.S. Army Corps of Engineers Research and Development Center.



Layne Morrill &lt;klaynemorrill@gmail.com&gt;

---

**Wetland Delineation Report for the NW 9th Street Neighborhood Project**

6 messages

**Mike Miller** <mike.miller@ci.florence.or.us>

Thu, Dec 5, 2024 at 3:25 PM

To: Jacob Foutz &lt;Jacob.Foutz@ci.florence.or.us&gt;

Cc: Erin Reynolds &lt;erin.reynolds@ci.florence.or.us&gt;, Wendy Farley-Campbell &lt;wendy.farleycampbell@ci.florence.or.us&gt;, Layne Morrill &lt;klaynemorrill@gmail.com&gt;, Jeff Ballard &lt;jballard@rh2.com&gt;

Hi Jacob,

Attached is the final Wetland Delineation Report for our NW 9<sup>th</sup> Street Neighborhood Project. We found two wetlands, but no waterways within the project street areas. Wetlands 1 is 0.133 acres in size and Wetland 2 is 0.004 acres in size. I have asked our consultant to submit the report for concurrence with DSL and US Army Corps of Engineers.

Below is a capture of figure 6 of the delineation area. According to the map, Wetland 1 is within the right-of-way for 11<sup>th</sup> and Fir streets. It is not on 1812273101100. As mentioned in my previous email, since the wetland will be impacted by the construction of the street, the City will mitigate our impacts for a net zero loss of wetlands.

Thank you,

Mike

**Mike Miller**

Public Works Director

[mike.miller@ci.florence.or.us](mailto:mike.miller@ci.florence.or.us)

(541) 997-4106

## Mailing Address:

City of Florence

[250 Hwy 101](#)[Florence, OR 97439](#)

## Physical Address:

[2675 Kingwood Street](#)[Florence, OR 97439](#)





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**Wetland delineation Florence Streets 12052024.pdf**

5110K

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**Layne Morrill** <klaynemorrill@gmail.com>

Fri, Dec 6, 2024 at 8:38 AM

To: Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>, Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Thanks, Mike.

[Quoted text hidden]

---

**Layne Morrill** <klaynemorrill@gmail.com>

Fri, Dec 6, 2024 at 12:57 PM

To: Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>, Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Hi Wendy and Jacob:

We view this email and the underlying Wetlands Delineation Report as the City's acknowledgment that the two wetlands are in the right of way not on the EPA Site and the City will take all measures to assure net zero loss of wetlands.

Please make this email and Wetlands Report part of the record in our pending land use proceedings and please note, in the Staff Report, that upon issuance of the Public Works land use permit that is on the PC agenda for 12-27-24, the 65' setback at the NW corner of the EPA site can be modified as requested in our PUD Application.

Mike, please confirm that the City's Engineer has modified the design of the NW corner of the intersection of Greenwood and 10th so that our eight parallel parking spaces for the ELF are accommodated, as requested in my previous email request and subsequent follow-up. We need this confirmation before our December 17 PC hearing.

Thanks.

Layne Morrill  
OUR COASTAL VILLAGE, INC.  
CHESTNUT MANAGEMENT, LLC  
602-432-6291

On Thu, Dec 5, 2024 at 3:26 PM Mike Miller <mike.miller@ci.florence.or.us> wrote:

[Quoted text hidden]

---

**Wendy Farley-Campbell** <wendy.farleycampbell@ci.florence.or.us>

Fri, Dec 6, 2024 at 1:53 PM

To: Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Layne,

Thank you for your email. Staff will include this wetlands study into the record for the Elm Park PUD and apts. For clarity, its findings do not replace the wetland study performed by Branch and included in your application record. It found wetlands on your site that are part of the area's drainage system and by Branch's account appear to connect to the infrastructure wetlands. We will be reviewing the reports in more detail with regard to collection methodologies and data to evaluate how to rectify the apparently conflicting reports about wetland continuity.

Wendy



**From:** Layne Morrill <klaynemorrill@gmail.com>  
**Sent:** Friday, December 6, 2024 11:57:37 AM  
**To:** Mike Miller  
**Cc:** Jacob Foutz; Erin Reynolds; Wendy Farley-Campbell; Jeff Ballard  
**Subject:** Re: Wetland Delineation Report for the NW 9th Street Neighborhood Project

[Quoted text hidden]

**Jeff Ballard** <jballard@rh2.com> Fri, Dec 6, 2024 at 2:24 PM  
 To: Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us>  
 Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>

Wendy,

The discrepancy is with respect to the shown location of the property boundaries. The two reports identify the same area as wetland, the maps just show it in different locations with respect to boundaries. Neither of the wetland maps are accurate to survey level accuracy, both used GIS layers from outside sources as stated on the maps.

I believe that the mapping shown by Rabe Consulting has a higher level of accuracy since it is tied to the lidar that we collected on the site by a PLS. If we need a higher level of clarification on this topic it can be



provided.

The important part is that the wetland is accounted for accurately in size and our impacts will be accounted for.

Hope this helps.

Thanks,

**Jeff Ballard** | RH2 Engineering, Inc.

O: 541.210.8151

C: 541.301.1555

[Quoted text hidden]

---

**Wendy Farley-Campbell** <wendy.farleycampbell@ci.florence.or.us> Fri, Dec 6, 2024 at 2:27 PM  
To: Jeff Ballard <jballard@rh2.com>, Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us>  
Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>

Jeff,

Thank you very much for this quick response and explanation going into the weekend. It did help.

Regards,  
Wendy

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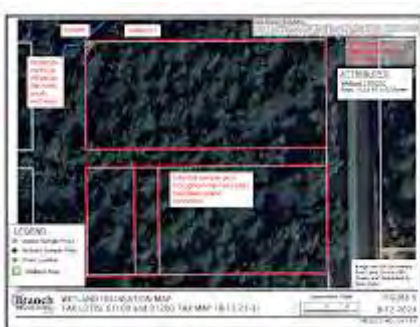
---

**From:** Jeff Ballard <jballard@rh2.com>  
**Sent:** Friday, December 6, 2024 3:24:52 PM  
**To:** Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>; Layne Morrill <klaynemorrill@gmail.com>; Mike Miller <mike.miller@ci.florence.or.us>  
**Cc:** Jacob Foutz <Jacob.Foutz@ci.florence.or.us>; Erin Reynolds <erin.reynolds@ci.florence.or.us>  
**Subject:** RE: Wetland Delineation Report for the NW 9th Street Neighborhood Project

[Quoted text hidden]

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## 2 attachments



**image001.png**  
680K



CITY OF FLORENCE  
**PUBLIC WORKS**

**image002.png**  
21K



# Oregon

Tina Kotek, Governor

## Parks and Recreation Department

Oregon Heritage/  
State Historic Preservation Office  
725 Summer St. NE, Suite C  
Salem, OR 97301-1266  
(503) 986-0690  
Fax (503) 986-0793  
oregonheritage.org



December 4, 2024

Erin Renolds  
City of Florence  
250 Hwy 101  
Florence, OR 97439

RE: SHPO Case No. 24-1792

Lane County Parcel Nos. 18-12-27-31-01100 and -01200 cultural survey  
Proposed construction of a 38-unit affordable rental housing development and early learning facility.  
18S 12W 27, Lane County

Dear Erin Renolds:

Thank you for submitting information for the project referenced above. According to our records there are no identified archaeological objects or sites (Oregon Revised Statute [ORS] 358.905), and no Native American cairn, burial, human remains, sacred objects and objects of cultural patrimony (ORS 97.740-760) in or adjacent to the project area. Based on the information provided, Oregon SHPO agrees with the recommendation that an archaeological monitor be on site during all ground disturbing activities, due to the low visibility in the project area, and the apparent lack of disturbance to the sediments across the project area.

Under ORS 358.920 and ORS 97.745, archaeological sites, objects and human remains are protected on both state public and private lands in Oregon. Please know that if any archaeological artifacts are found during construction all activity in the area should cease and our office should be contacted. We also advise having an Inadvertent Discovery Plan (IDP) in place during construction. A template is available on our website (<https://www.oregon.gov/oprd/OH/pages/projectreviewresources.aspx>). The IDP explains what to do in the event of a discovery and provides examples of archaeological materials. Using this form can reduce confusion, risk, and liability.

If the project has a federal nexus (lands, funding, permitting, or oversight) coordinate with the lead federal agency to ensure compliance with Section 106 of the National Historic Preservation Act.

If you have not already done so, be sure to consult with all appropriate Native American tribes regarding the proposed project. Additional consultation regarding this case must be sent through Go Digital. In order to help us track the project accurately, reference the SHPO case number above in all correspondence.

Please contact our office if you have any questions, comments or need additional assistance.

Sincerely,

Kirsten Lopez  
Special Projects Archaeologist  
(503) 400-4810  
Kirsten.Lopez@oprd.oregon.gov







---

**Layne Morrill** <klaynemorrill@gmail.com>  
To: Jeff Ballard <jballard@rh2.com>  
Cc: Mike Miller <mike.miller@ci.florence.or.us>

Tue, Dec 10, 2024 at 9:04 AM

Hi Jeff:

I understand Mike Miller passed on to you the following comment on the 50% plans that I emailed to him on Nov. 1 at 5:21 p.m.

"We need 8 parallel parking spaces (four on Greenwood south of the alley; and four on 10th east of the drop-off lane.

The attached site plan shows this layout.

The curb design shown at the corner of Greenwood and 10th eliminates two of our eight parking spaces.

Can that curb design be reviewed so we keep our 8 parking spaces?"

Our parking layout is again attached.

We need this information for our December 17 PC hearing.

Thanks.

Layne Morrill  
602-432-6291

[Quoted text hidden]

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 **Elm Park ELC Design Review Response 24.11.04 FINAL.pdf**  
12290K

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**Mike Miller** <mike.miller@ci.florence.or.us>  
To: Layne Morrill <klaynemorrill@gmail.com>  
Cc: Jeff Ballard <jballard@rh2.com>, Kris Lillie <klillie@rh2.com>

Tue, Dec 10, 2024 at 9:30 AM

Hi Layne,

Working through the design, our engineers are looking at creating curb extensions (bulb outs) on the west side of Greenwood at 10<sup>th</sup> in order to get the sidewalk away from the property line and provide the four stalls on Greenwood and

10<sup>th</sup> Street. The bulb outs/curb extension also help with getting the crosswalk out of the existing medians.

Also in regards to the comment of the 66 foot right-of-way, the 50% level plans were not labeled correctly. They were drawn at 66 feet, but were simply labeled as 60 feet.

Thank you,

Mike

[Quoted text hidden]



**10th and Greenwood Exhibit.pdf**

2157K

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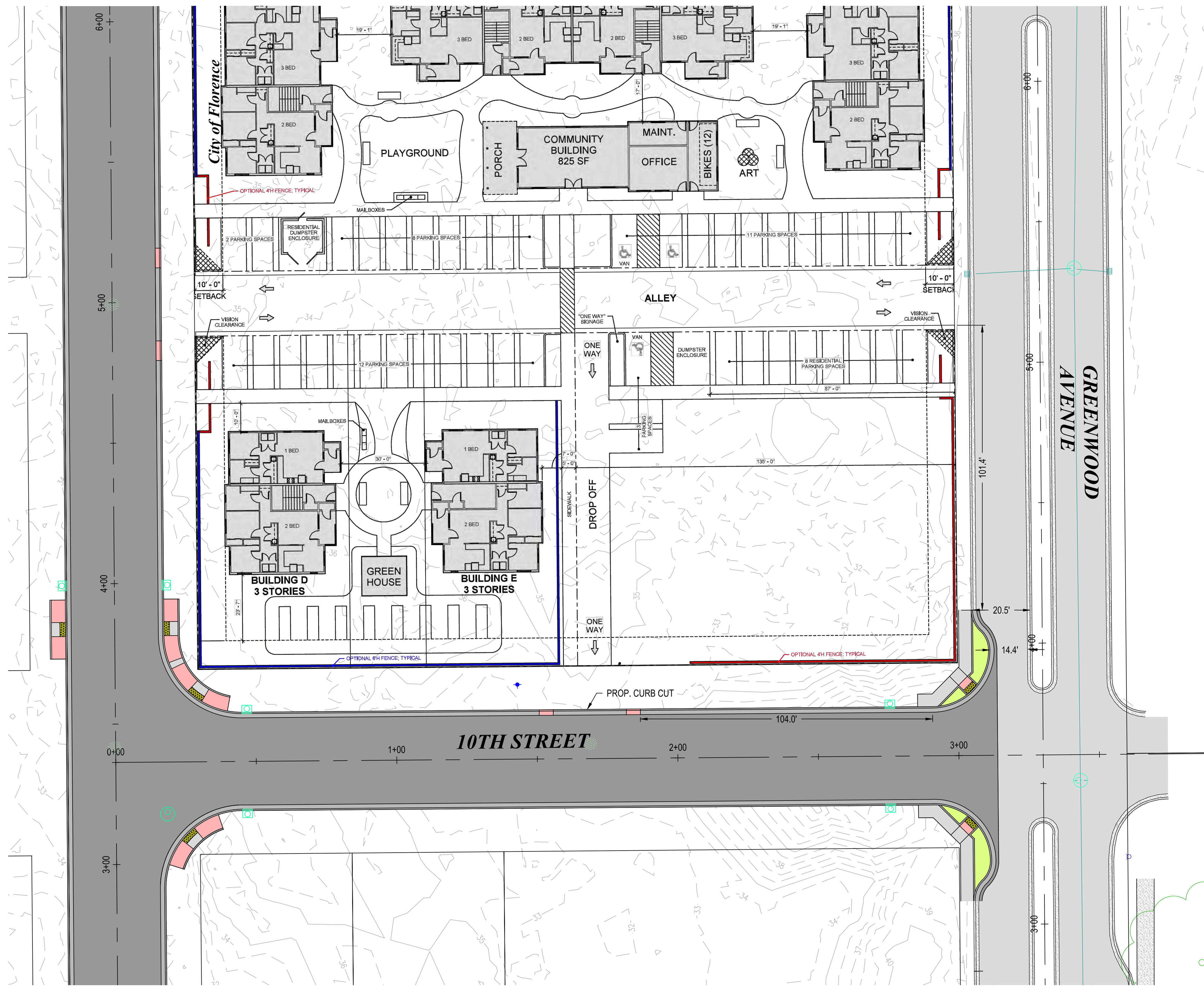
**Layne Morrill** <klaynemorrill@gmail.com>  
To: Mike Miller <mike.miller@ci.florence.or.us>  
Cc: Jeff Ballard <jballard@rh2.com>, Kris Lillie <klillie@rh2.com>

Tue, Dec 10, 2024 at 9:45 AM

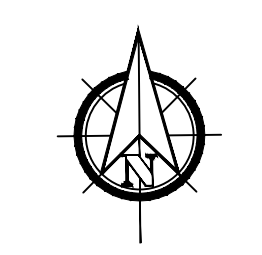
Great. Thanks.

[Quoted text hidden]





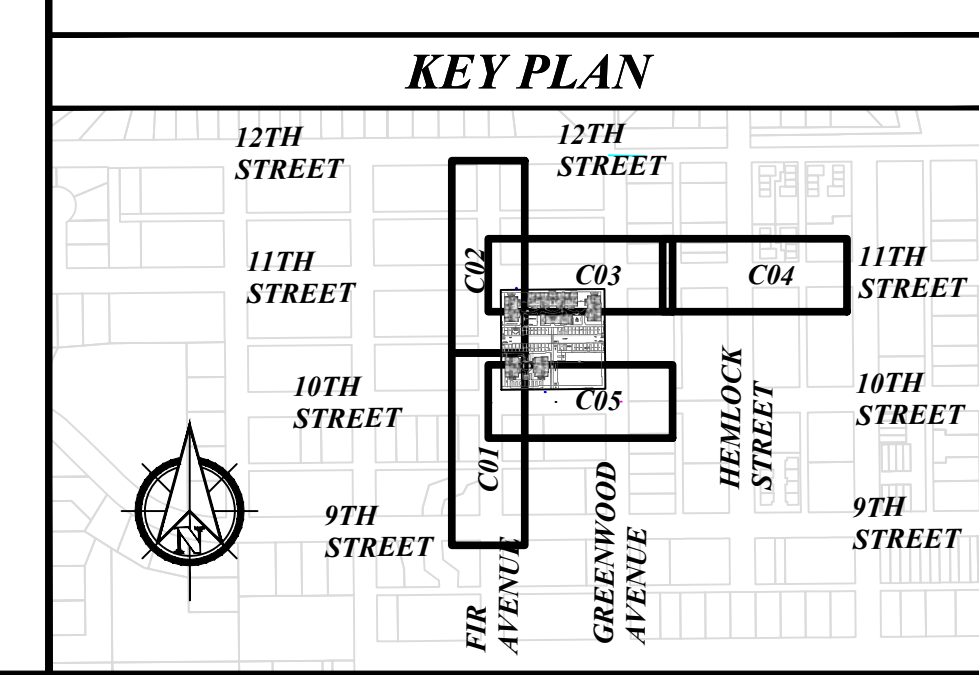
**PLAN VIEW**  
1" = 20'



**RH2**

REGISTERED PROFESSIONAL ENGINEER  
85045  
**PRELIMINARY**  
OREGON  
JULY 12, 2018  
KRISTOPHER A. LILLE  
EXPIRES: 12/31/2024

**CITY OF FLORENCE**  
**9TH STREET IMPROVEMENT PHASE 1**  
**GENERAL CONSTRUCTION -**  
**SHEET 5 OF 5**



| NO.                                | DATE | DESCRIPTION | BY | REVIEW |
|------------------------------------|------|-------------|----|--------|
| <b>REVISIONS</b>                   |      |             |    |        |
| <b>PRELIMINARY REVIEW DRAWINGS</b> |      |             |    |        |
|                                    |      |             |    |        |
|                                    |      |             |    |        |
|                                    |      |             |    |        |

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: **C05A** SHEET NO.: **17** YY

ENGINEER: CWJ  
REVIEWED: KAL

DATE: Dec 6, 2024  
PLOT DATE: Dec 9, 2024

CLIENT: FLO  
FILENAME: 10TH STREET EXHIBIT.DWG

JOB NO.: 024-0115