Tillamook County

DEPARTMENT OF COMMUNITY DEVELOPMENT



BUILDING, PLANNING & ON-SITE SANITATION SECTIONS

1510 – B Third Street Tillamook, Oregon 97141 www.tillamook.or.us

Land of Cheese, Trees and Ocean Breeze

MEMO

Date:

April 6, 2023

To:

Tillamook County Planning Commission

From:

Sarah Absher, CFM, Director

Subject:

Riverview Meadows Phase 3 Subdivision Request #851-23-000009-PLNG

Riverview Meadows Phase 3 application materials received to date, staff report and exhibits are included with this memorandum. Tillamook County Public Works Department is continuing their review of the Phase 3 subdivision proposal and will be prepared to speak at the April 13, 2023 hearing. Their comments are included in "Exhibit C" of the staff report.

Staff are waiting for any additional comments from the City of Nehalem related specifically to Riverview Meadows Phase 3. Comments that may have been received by 2:00pm today are included in this packet.

The agenda reflects Planning Commission elections.

Y auch Abshe

If you have any questions about the information received, please do not hesitate to contact me or Lynn Tone, Office Specialist 2.

Thank You,

TILLAMOOK COUNTY PLANNING COMMISSION

LOCATION

Port of Tillamook Bay Conference Center 4000 Blimp Boulevard, Tillamook, OR 97141

HEARING DATE April 13, 2023- Beginning at 7:00p.m.

VIRTUAL & TELECONFERENCE MEETING INFORMATION

For teleconference access the evening of the hearing, please call 971-254-3149. Conference ID: 887 242 77#. Virtual Meeting Access: https://www.co.tillamook.or.us/commdev. Click on Virtual Teams Link. *Microsoft Teams Meeting Format.

- I. CALL TO ORDER
- II. ROLL CALL
- III. OLD BUSINESS: NONE
- IV. NEW BUSINESS:

#851-23-00009-PLNG: Request for tentative subdivision plat approval of "Riverview Meadows Phase 3", a 36-lot subdivision proposed on a property located within the City of Nehalem Urban Growth Boundary. The subject property is zoned Nehalem Medium-Density Residential (NH_R1) and Nehalem Residential Trailer (NH_Rt). The subject property is accessed via Riverview Meadows Lane, a private road, and designated as Tax Lot 3600 of Section 23B, Township 3 North, Range 10 West of the Willamette Meridian, Tillamook County, Oregon.

- V. PLANNING COMMISSION ELECTIONS
- VI. AUTHORIZATION FOR CHAIR TO SIGN APPROPRIATE ORDERS, IF NECESSARY
- VII. ADMINISTRATIVE DECISIONS: Administrative Decisions are available for public review on the Tillamook County Department of Community Development website: https://www.co.tillamook.or.us/commdev/landuseapps
- VIII. HOUSING COMMISSION UPDATE
- IX. DEPARTMENT OF COMMUNITY DEVELOPMENT REPORT
- X. ADJOURNMENT

The Port of Tillamook Bay Conference Center is accessible to citizens with disabilities. If special accommodations are needed for persons with hearing, visual, or manual impairments that wish to participate in the meeting, please contact 1-800-488-8280x3423 at least 24 hours prior to the meeting in order that appropriate communications assistance can be arranged.

Tillamook County

DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS



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Land of Cheese, Trees and Ocean Breeze

PRELIMINARY SUBDIVISION PLAT REVIEW REQUEST "RIVERVIEW MEADOWS PHASE 3" #851-23-000009-PLNG

Planning Commission Hearing Date: April 13, 2023 Staff Report Date: April 6, 2023

Staff Report Prepared by: Sarah Absher, CFM, Director

I. GENERAL INFORMATION:

Request: Request for tentative subdivision plat approval of "Riverview Meadows Phase 3", a 36-

lot subdivision (Exhibit B).

Location: Located on a property within the City of Nehalem Urban Growth Boundary, the subject

property is accessed via Riverview Meadows Lane, a private road, and designated as Tax Lot 3600 of Section 23B, Township 3 North, Range 10 West of the Willamette Meridian,

Tillamook County, Oregon. (Exhibit A).

Zone: Nehalem Medium-Density Residential (NH R1) and Nehalem Residential Trailer

(NH Rt)

Applicant: Sheldon Development, Inc., P.O. Box 883, Fairview, OR 97024

Property Owner: Riverview Meadows Development, 23765 SE Highway 212, Damascus, OR 97089

II. Description of Site and Vicinity

The subject property is located within the northern region of the City of Nehalem Urban Growth Boundary (UGB) via Northfork Road, a County road and is accessed by Riverview Meadows Lane, a private road (Exhibit A). Subject property is approximately 21.88 acres in size and will be comprised of three subdivision phases of the Riverview Meadows development should this request be approved by the Tillamook County Planning Commission. The northern portion of the subject property is proposed to be developed as phase three of Riverview Meadows (Exhibit B). The southern half of the property has received tentative plat approval for Riverview Meadows Phase 2 (Exhibit B). Riverview Meadows (phase one) wraps around the southerly boundary of the subject property as depicted on the maps included in "Exhibit A".

The subject property is irregular in shape, located on a plateau east of the City of Nehalem, and contains steep, downsloped areas along the outer edges of the plateau as depicted on the preliminary plats included in "Exhibit B".

The subject property is accessed from two private roads part of the Riverview Meadows development road system: Sunnyview Drive and Vern's Place (Exhibits A & B).

Subject property is split zoned Nehalem Medium-Density Residential (NH_R1) and Nehalem Residential Trailer (NH_Rt) (Exhibit A). The subject property is bordered by Forest (F), NH_R1 and NH_Rt zoned property to the west and south, NH_Rt and Farm (F-1) zoned property to the east and Farm (F-1) zoned property to the north (Exhibit A).

Tax lot and ownership information is depicted on the plats included in the Applicant's submittal (Exhibit B). Properties surrounding the northern half of the subject property intended to be a third phase of development include a private landowner and Stimson Lumber Company. Lot layout, surrounding property ownership and a topographic depiction of the area are included on the plats made part of "Exhibit B" of this report.

Service providers include the City of Nehalem, Nehalem Bay Wastewater Agency, Tillamook PUD, Nehalem Bay Fire and Rescue District, Tillamook County Public Works Department and the Tillamook County Sheriff's Office. Responses to notice of this proposal from service providers and public agencies are included in "Exhibit B" and "Exhibit C" of this report.

A. Natural Features

1. **Topography:** Approved Geologic Hazard Report (GHR) #851-21-000414-PLNG for Riverview Meadows Phases 2 and 3 describes the property as a relatively level natural terrace approximately 130 feet above mean sea level, with steeper slopes located along the eastern region of the subject property (Exhibit B).

Elevations within the proposed building areas vary from approximately 137 feet above sea level to approximately 113 feet. The subject property slopes gently to the southwest with slopes varying from nearly flat to over 5%. The eastern edge of the development slopes down steeply to the east, at roughly 50% (Exhibit B).

Based upon DOGAMI Lidar, the eastern slope breaks abruptly downward at generally over 50% and as steep as 80% to 100% locally (Exhibit B).

- 2. <u>Soils:</u> Soils and geology of the site is discussed in the approved Geologic Hazard Report (GHR) #851-21-000414-PLNG (Exhibit B). Soils identified by the Natural Resources Conservation Service (NCRS) include Chitwood-Hebo complex, 0 to 5% slopes. Sloped soils at the eastern margin of the subject property are mapped as Templeton-Ecola medial silt loams, 30% to 60% slopes (Exhibit B).
- 3. <u>Vegetation:</u> The subject property is covered in grasses and is regularly maintained (Exhibit B). Evergreen trees are located along the edges of the plateau. The eastern slope is heavily vegetated with blackberries, ferns, trees, and other species typical of a coastal forest (Exhibit B).
- 4. Water Features: The National Wetland Inventory Mapper (NWI) does not identify any wetlands within the area proposed for development as Riverview Meadows Phase 3, however Bob's Creek is an identified feature that runs adjacent to the eastern region of the subject property and is within the area proposed as an additional access to serve this second phase of development (Exhibit A). Drainage ways identified in the immediate area are also depicted on the NWI map (Exhibit A). The map is for general reference only and verification is generally completed through a wetland delineation review process with the Oregon Department of State Lands.

The subject property is identified on Flood Insurance Rate Maps #41057C0207F dated September 28, 2018, and is located outside of Areas of Special Flood Hazard (Exhibit A).

B. City of Nehalem Vision Statement & Comprehensive Plan Policies

Nehalem's Vision Statement and Aspirations Vision Statement: In 2040, Nehalem is a livable, economically sustainable, rural coastal community, a place where people know each other and celebrate its setting of natural beauty.

Vision Aspirations The following aspirations have been identified as the path to achieve our City's vision: Housing • Housing is available to meet the diverse needs of Nehalem citizens, and reflects the rural, coastal character of the community. Social Support and Safety • Nehalem is noted for its livability for people of all ages, income levels and family sizes. It has many avenues for making connections among neighbors including local businesses, gardening, recreation, gathering places, and events. Economy • Nehalem has a strong four-season economy. Encouraging small businesses, vital goods and services, cottage industries, and home-based businesses to locate in Nehalem results in a vibrant year-round economy. Infrastructure • Nehalem's infrastructure of water, sewer, storm drains, streets and parks is developed to good standards for a rural community, well-maintained and renewed as needed from well-funded and well-managed reserve funds. Open Space, Parks and Recreation • Access to the outdoors is a key part of Nehalem's character and the community's experience of living. Open space, parks, and active and passive recreation are readily available to citizens and visitors. • Mitigation of our contributions to climate change and adaption to likely impacts are important in protecting the livability and quality of life for our citizens and visitors. Inclusive and Collaborative Community • Nehalem is an inclusive and collaborative community where local governments, not-for profit organizations, businesses, and residents work together to successfully address community issues and opportunities. The City actively promotes citizen involvement. A culture of trust and respect defines the community.

City of Nehalem Comprehensive Plan Goal 1 and Goal 2 elements focus on prioritization of citizen involvement and development of a land use plan for the city. Review of this proposal is consistent with the goals, objectives and policies contained within these two elements- specifically public notification of hearing proceedings and opportunity for citizen input as well as applicable standards and criteria set forth in the City of Nehalem zoning and subdivision ordinances that apply to review of this proposal.

The farm and forest goal elements do not apply to properties within city limits and the city's urban growth boundary. It is important to note however that the city supports preservation and maintenance of agricultural and forest lands.

The Goal 5 element of the city's comprehensive plan contains goals, objectives and policies focused on the preservation of natural features, natural resources, scenic and historic areas and open spaces. The city's goal is to foster high-quality development consistent with the natural environment. To achieve this goal, objectives and policies include preserving riparian areas, clustering development, protection of scenic views and encouraging open space in developments.

The proposal is consistent with the allowable density levels permitted through the Nehalem Residential Trailer (NH_Rt) zoning district and no increases in density are proposed. Riparian areas are limited to those areas within the western region of the development along Bob's Creek. Applicants continue to work with the Oregon Department of State Lands to identify any wetland or other areas containing natural features within the areas proposed for development. Conditions of Approval can be made to ensure policies related to erosion control and sedimentation control are upheld during construction. A Condition of Approval can also be made to ensure riparian buffers are protected and maintained where deemed appropriate both during and after construction.

The Goal 6 element highlights the importance of air, water and land resources, and contains goals, policies and objectives that ensure protection and improvement of these resources within the city and city's urban growth boundary. Policies require implementation of sedimentation and erosion control measures that are reflected in the city's subdivision ordinance. Policies include monitoring use of herbicides and includes a requirement for persons or organizations to notify the city prior to use. Use of herbicides in the City's watershed is prohibited and, in some instances, requires city approval.

Policies require the city to continue implementation of the City of Nehalem Master Water Plan, and that future development shall be designed in a manner to comply with applicable state or federal environmental quality statutes, rules and standards.

Approved Geologic Hazard Report (GHR) #851-21-000414-PLNG was submitted during Riverview Meadows Phase 2 review, and demonstrates compliance with the goals, objectives and policies contained within the Goal 7: Areas Subject to Natural Hazards element of the city's comprehensive plan. The subject property is not located within an area of special flood hazard.

Applicable goals, objectives and policies contained within Goal 8: Recreational Needs element of the city's comprehensive plan include a policy for creation of open space for new developments and encourages public pedestrian access.

City of Nehalem Goal 9: Economic Development element largely focuses on improvement of the economic base of the community and contains policies for promotion, encouragement and continued support for growth of the city's business district. Given the nature of the goals, objectives and policies contained within this goal element, these goals, objectives and policies do not specifically apply to review of the proposed development.

The proposed development is consistent with the goals, objectives and policies outlined in Goal 10: Housing element of the city's comprehensive plan. Specifically, the proposed development provides additional housing to help meet the needs of a variety of age and income groups.

City Comprehensive Plan Goal 11: Public Facilities and Services element requires the city to continue to plan and develop an orderly and efficient system of public facilities and services that support land uses and densities as well as necessary facility and system extensions throughout the city. Policies require land uses and densities within the city's urban growth boundary to be consistent with the capacity of existing public facilities or the long-range expansion plans for key public facilities such as sanitary sewers and water. Policies also require orderly and efficient manner of expansion of public facilities and services. Policies support development and maintenance of adequate storm drainage facilities.

Applicants continue to work with the city and county on facility design and construction plans for water and storm drainage facilities so that the goals, objectives and policies of the Goal 11 element can be met. Recommended conditions of approval have been included in this report to ensure compliance with Goal 11 element policies.

The City's Goal 12: Transportation element of the Comprehensive Plan aim to provide "a safe, convenient, and economic transportation system", and asks for communities to address needs of the transportation disadvantaged". The city's objective is to support a safe, convenient, accessible and economic transportation system for all modes of transportation. Policies include standards for street development, promote multi-modal transportation facilities and restrict or limit opportunities for new road connectivity to Highway 101.

As part of Riverview Meadows Phase 2 tentative plat approval, a second primary access easement is proposed to be constructed providing new road connectivity to Northfork Road, a County road and the main artillery road in this area of the Nehalem UGB. This new access easement will also serve as primary access to and from Northfork Road for Phase 3. A traffic impact study was completed during Phase 2 review and is included in "Exhibit B" of this report.

As reflected in the Goal 13: Energy Conservation element of the City's comprehensive plan, the city supports and will encourage efforts of energy conservation. Staff finds the proposed development is not in conflict with these goals, objective and policies.

Goal 14: Urbanization element requires the city to coordinate land-use, development and annexation strategies with Tillamook County. This goal element focuses on lands within the city's urban growth area and reflects roles and responsibilities also made part of the intergovernmental agreement between the two jurisdictions. Policy 4 includes a requirement for findings when reviewing conversion of undeveloped land for urban development, and requires findings be made by the city confirming existence of orderly and economic extension of public facilities and services. Conversations related to expansions of public services and facilities with city and county engineering staff are ongoing. Recommended conditions of approval are included in this report to ensure adequate public facilities are installed to accommodate Phase 3 development.

Coastal goal elements 16-19 of the city's comprehensive plan do not apply to the Riverview Meadows development. Remaining articles within the city's comprehensive plan include implementation guidance, discussion of regulatory controls administered through the city's zoning ordinance, subdivision ordinance and street standards, building codes as well as information regarding the 2017 building lands inventory and 2019 housing needs analysis.

Applicable provisions within these articles are reviewed through the city's zoning and subdivision ordinances in coordination with city staff and the Tillamook County Public Works Department.

III. APPLICABLE ORDINANCE PROVISIONS & ANALYSIS:

A. CITY OF NEHALEM ORDINANCES

1. <u>Chapter 157 Nehalem Residential Trailer (NH Rt)</u> The Residential Trailer Area, designated by the primary symbol "RT", is established to provide for mobile homes, as well as conventional housing, in areas where there are few constraints on development.

Standards for creation of new lots and parcels in the NH-Rt zone include the following:

- (A) The minimum lot size shall be 5,000 square feet for a one-family dwelling, plus 2,500 square feet for each additional dwelling unit. Where public sewers are not available, the County Sanitarian may establish a minimum lot size greater than 5,000 square feet.
- (B) The minimum lot width shall be 60 feet; except on a corner lot, it shall be 65 feet.
- (C) The minimum lot depth shall be 85 feet.

Findings: The preliminary plat confirms the proposed lots meet the minimum lot width and depth requirements for new lots located within the NH Rt zone and meet or exceed the minimum lot size requirement (Exhibit B).

2. Chapter 157.274: Buffers Required Adjacent to Exclusive Farm Use (EFU) Zones.

- (A) Where development is proposed on lands adjacent to Exclusive Farm Use Zones, the city shall require that a buffer of not less than 50 feet be required between the development and the EFU boundary in order to protect the farm and development from incompatible uses or activities.
- (B) Such a buffer shall be in addition to any required setback for structures or uses.
- (C) Buffers may include, if the Planning Commission requires, the maintenance of tree stands, fencing or other separation.

Findings: The preliminary plat depicts the location of Coltee Drive, a 50-foot private road that is located between the proposed lots and adjacent properties zoned Exclusive Farm Use (EFU) (Exhibit B). Staff finds the location and width of the proposed private road confirms the required 50-foot setback is adhered to. Staff also finds that the private road serves as a buffer to separate residential uses from adjacent farm or forest practices (Exhibit B).

Proposed Lot 59 is located in the southeast corner of proposed Phase 3 (Exhibit B). Lot 59 is triangular in shape and is 120-feet wide at its base (widest point). Staff finds that development of this lot will be difficult given the required 50-foot setback from the Exclusive Farm Use (EFU) zone (Exhibits A & B). Rough calculations indicate there is potentially a small building envelope in the most southern region of this property and it should be noted that development of this lot will be severely restricted (Exhibit B).

3. Chapter 157.261: Geologic Investigation. The subject property is located within an area of geologic hazard (landslide topography) and a Geologic Hazard Report (GHR) is required as part of this development review process. As mentioned previously in this report, Geologic Hazard Report (GHR) #851-21-000414-PLNG was approved for Phases 2 and 3 of Riverview Meadows (Exhibit B). The Geologic Hazard Report (GHR) is

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comprised of the Engineering Geologic Hazards Report dated February 25, 2020, prepared by R. Warren Krager, R.G., C.E.G., together with the Engineering Geologic Hazard Report for Road and Utility Development dated February 4, 2021 (Exhibit B).

Findings: The Geologic Hazard Report (GHR) includes an analysis of soils and bedrock types, slopes, soil depth, other relevant soils engineering data, water drainage patterns and a discussion of landslide activity in the recent area. Primary geologic hazards on this site relate to the steep eastern bank; drainage control; compressible surface soils; and regional seismicity. Mitigations of these hazards is discussed in the GHR (Exhibit B).

Recommended development standards for design/construction of roads, locations of structures, as well as basic foundation design when lots are developed is also included in the GHR (Exhibit B).

B. CITY OF NEHALEM SUBDIVISION OF LAND

1. Chapter 156.016: Preliminary Review.

This chapter specifies what general information is required for preparation of a report for submission to the Planning Commission. Report prepared by staff shall include information on the City's comprehensive plan, comprehensive plan background report, zoning, identification of surrounding streets and properties, utility infrastructure and any other data pertinent to review of the plan. Chapter also contains notification requirements and process for review of an expedited land division.

Findings: Staff confirmed with County Surveyor Michael Rice, PLS, that the proposed name, "Riverview Meadows Phase 3" does not duplicate the name of any other subdivision in the County. All of the other information required under this section is included on the preliminary plat or as supplemental information including a copy of the approved Geologic Hazard Report, service availability letters, existing and proposed streets, existing and proposed easements and locations of natural features (Exhibit B).

Information and findings regarding review the of the proposed development and the city's comprehensive plan is contained within this report. Zoning information is contained within the body of this report and also included in "Exhibit A".

Notice of public hearings was mailed to all property owners within 250-feet of the subject property and affected agencies on March 16, 2023. Notice of public hearing was also published in the Headlight Herald (newspaper of record) on March 14, 2023. Public and agency comments received to date are included in "Exhibit C" of this report.

Public comments raise concerns about traffic impacts, use of existing streets that may not be adequate for development and potential ownership issues for areas proposed for development (Exhibit C).

2. Chapter 156.017: Information in the Tentative Plan.

This chapter specifies what general information is required to be included on a preliminary plat and information about existing conditions of the site.

Findings: The proposed lots depicted on the preliminary plats meet the applicable development standards of the Nehalem Residential Trailer (NH_Rt) zones (Exhibit B). All proposed lots abut a private street for at least 25-feet (Exhibit B). Lot numbering may be adjusted upon final plat review.

3. Chapter 156.018: Partial Development.

This chapter allows the Planning Commission to request a tentative layout for streets in unsubdivided portions of a development.

Findings: The proposed third phase of Riverview Meadows is the last and final phase for development. Upon completion of Phase 3, there are no remaining undivided portions of the subject property (Exhibit B).

4. Chapter 156.019: Information in Statement.

This chapter requires a general explanation of the improvements and public utilities, including water supply and sewage disposal proposed to be installed. Chapter also requires information about requested variances, public areas proposed, open space, restrictive covenants if any and information showing areas to be cut or filled.

Findings: The required information has been submitted in part by the Applicant (Exhibit B). Applicants have not requested a variance.

5. Chapter 156.020: Supplemental Information.

This chapter allows the Planning Commission to request supplemental information including additional street construction details, utility information, a geologic hazard report or other information deemed necessary.

Findings: A copy of the approved Geologic Hazard Report #851-21-000414-PLNG has been submitted with the application materials (Exhibit B). Street construction details and utility information is also included in the Applicant's submittal (Exhibit B). As mentioned previously, the City of Nehalem and Tillamook County Public Works Department have requested additional information pertaining to water and stormwater infrastructure (Exhibit C).

6. Chapter 156.021: Preliminary City Staff/Planning Commission Determination.

This chapter requires the Planning Commission to determine whether the tentative plan is in conformance with the provisions of the Comprehensive Plan and this chapter. Planning Commission may approve the submitted plat or modify the plat. Process for documentation of Planning Commission action is outlined in this chapter.

Findings: Road construction design, stormwater management, drainage and grading plans are also subject to review and final approval by the Tillamook County Public Works Department at the time of construction plan review. Commentary from the Tillamook County Public Works Department is also included in "Exhibit C".

V. PUBLIC TESTIMONY:

Comments received to date include statements from the Oregon Department of Fish and Wildlife (ODFW), Tillamook County Public Works and comments from neighboring landowners. Comments are included as "Exhibit C".

VII. CONSIDERATION OF RECOMMENDED CONDITIONS OF APPROVAL

Chapter 156.022 SUBMISSION OF FINAL PLAT limits this approval to 12 months. Within one year after approval of the tentative plan, the subdivider or expedited land divider shall cause the proposed subdivision, or any part thereof, to be surveyed and a plat thereof prepared in conformance with the tentative plan as approved or conditionally approved; unless an extension is requested in writing and granted by the Planning Commission. A request for extension must be submitted prior to the expiration of one year.

- 1. By accepting this approval the applicant/owner agree to indemnify, defend, save and hold harmless Tillamook County, and its officers, agents, and employees from any claim, suit, action or activity undertaken under this approval, including construction under a Building Permit approved subject to this approval.
- 2. The applicant/owner shall obtain all local, state and federal permits prior to construction and/or development.
- 3. Prior to final plat approval, any significant modifications made to the tentative plat, such as density, lot alignment, and lot size shall require approval from the Tillamook County Planning Commission for those adjustments.
- 4. All taxes owed shall be paid in full.
- 5. All easements shall be identified on the final plat. Easements shall have an indicated recorded reference and/or reference the owner's certification of dedication on the final plat.
- 6. Prior to final plat approval, a copy of the updated Conditions, Covenants and Restrictions shall be provided to the Department of Community Development for review.
- 7. The applicant/owner shall meet the requirements of the City of Nehalem for water supply system design & construction. A letter of final approval from the City of Nehalem confirming satisfaction with construction of utility improvements is required for Final Plat approval. Letters of water service availability will be required at the time of development of each individual lot.
- 8. The applicant/owner shall meet the requirements of the Nehalem Bay Wastewater Authority for sanitary sewer system design & construction. A letter of final approval from the Nehalem Bay Wastewater Agency confirming satisfaction with construction of utility improvements is required for Final Plat approval. Letters of sewer service availability will be required at the time of development of each individual lot.
- 9. The applicant/owner shall obtain necessary permits and authorizations from the Tillamook County Public Works Department, and shall comply with applicable AASHTO standards for road construction and design, utility installation and stormwater facility design requirements deemed necessary to serve the development. A letter of final approval from the Tillamook County Public Works Department confirming improvements have been inspected and satisfactorily constructed is required for Final Plat approval. This includes the following requirements:
 - a) Submittal of a detailed stormwater management plan to the Tillamook County Public Works Department for review and approval. All storm drainage easements shall be recorded on the final plat and shall be of adequate width for access and maintenance of drainage facilities.
 - b) Maintenance responsibilities for the stormwater management facilities is the responsibility of the developer and HOA, and continued maintenance responsibilities shall be included in the Conditions, Covenants and Restrictions for "Riverview Meadows Phase 2".
 - c) Approval of proposed street names by the Department of Community Development and the Public Works Department.
 - d) Changes to road names part of Riverview Meadows subdivision are subject to review and approval by the Tillamook County Board of Commissioners.
 - e) Riverview Meadows development road system shall remain in private ownership and shall be privately maintained.
- 10. The applicant/owner shall seek input from the Oregon Department of Fish and Wildlife and submit to the Department of Community Development an updated riparian corridor mitigation and protection plan for Bob's Creek. The updated plan shall be implemented prior to final plat approval.
- 11. The applicant/owner shall submit a statement from the project engineer, certifying Phase 3 subdivision facility improvements were constructed in a manner consistent with the requirements and recommendations outlined in Geologic Hazard Report #851-21-000414-PLNG. Certification is required for Final Plat approval.

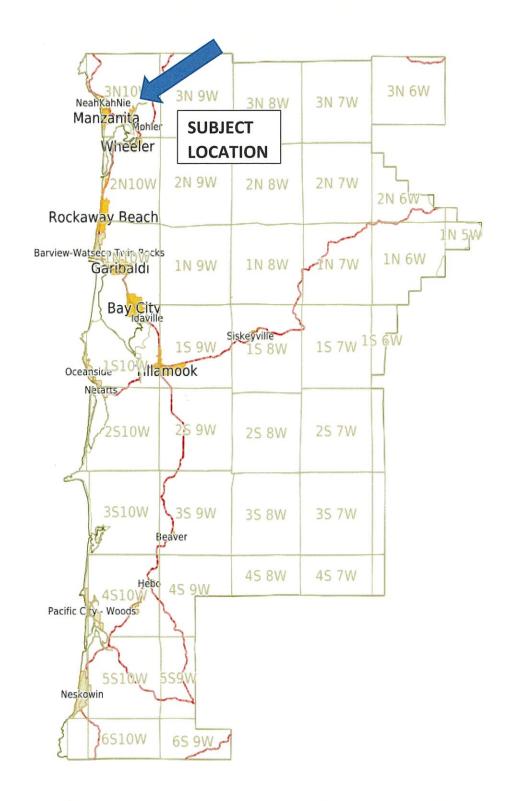
- 12. The property owner shall submit a statement or geologic hazard report addendum from the project engineer, certifying the proposed development plans for each individual lot meet the mandatory development requirements of the geologic hazard report at the time of consolidated zoning and building permit application submittal. Building permits shall not be issued until evidence is submitted to the Department confirming the proposed development plans, including accessory structures, meet the requirements of Geologic Hazard Report #851-21-000414-PLNG.
- 13. The property owner shall have all foundation, footing and other grading preparation activities for structural improvements inspected and approved by a registered geotechnical professional or their designee. A letter from the geotechnical professional or their designee shall be submitted to the Tillamook County Department of Community Development **prior to** a footing inspection by the local building inspector.
- 14. The property owner shall remove only that vegetation necessary to accommodate the proposed development. Natural vegetation shall remain on all areas not required for construction. Revegetation of all disturbed areas shall occur immediately following completion of any approved site development. All bare slopes shall be promptly revegetated to avoid erosion and sloughing. An appropriate fertilizer shall be used to speed the establishment of the cover material. A jute matting, straw cover, or other stabilization product shall be placed over the soil to protect against erosion, before the seeds are allowed to germinate. Native shrubs and trees shall be planted to contribute to the long-term stability of the site.
- 15. All excavated material shall be hauled off site to an approved upland location or place behind a retaining wall. No excavated material shall be used as sidehill fill.
- 16. The property owner shall periodically monitor site conditions and take actions to ensure individual lot development standards outlined in Geologic Hazard Report review #851-21-000414-PLNG are implemented and that these Conditions of Approval are met. The property owner shall supply the general contractor or builder with a copy of the Geologic Hazard Report at the time of development.

VII. EXHIBITS

- A. Location map, Assessor map, Zoning map, FEMA FIRM, NWI Wetlands Map & Assessment Summary
- B. Subdivision Application, Preliminary Plat, Geologic Hazard Report and Supplemental Information
- C. Public Comments
- D. City of Nehalem Comprehensive Plan
- E. City of Nehalem Subdivision Ordinance Chapter 156
- F. City of Nehalem Zoning Ordinance Chapter 157: Supplementary Provisions

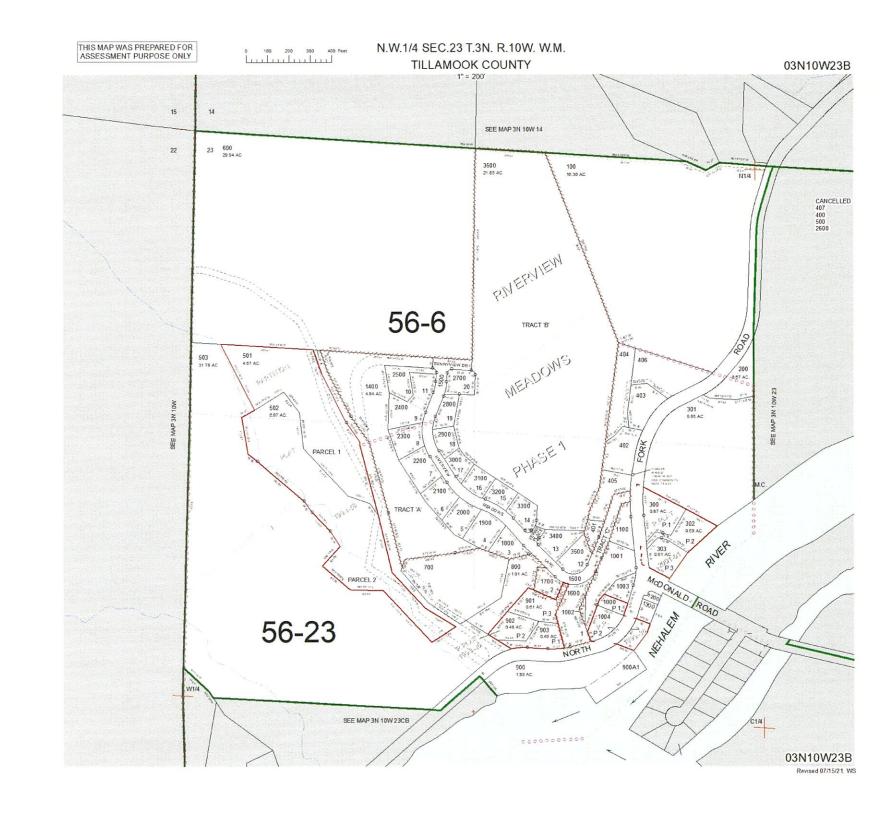
EXHIBIT A

VICINITY MAP



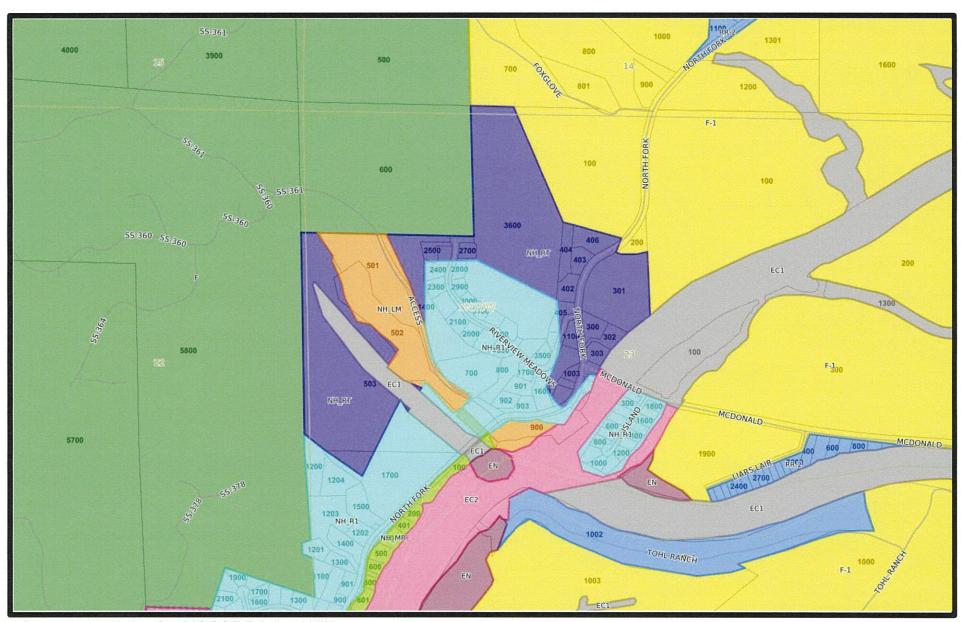
#851-23-000009-PLNG:

RIVERVIEW MEADOWS PHASE 3



Map





Generated with the GeoMOOSE Printing Utilities

National Flood Hazard Layer FIRMette

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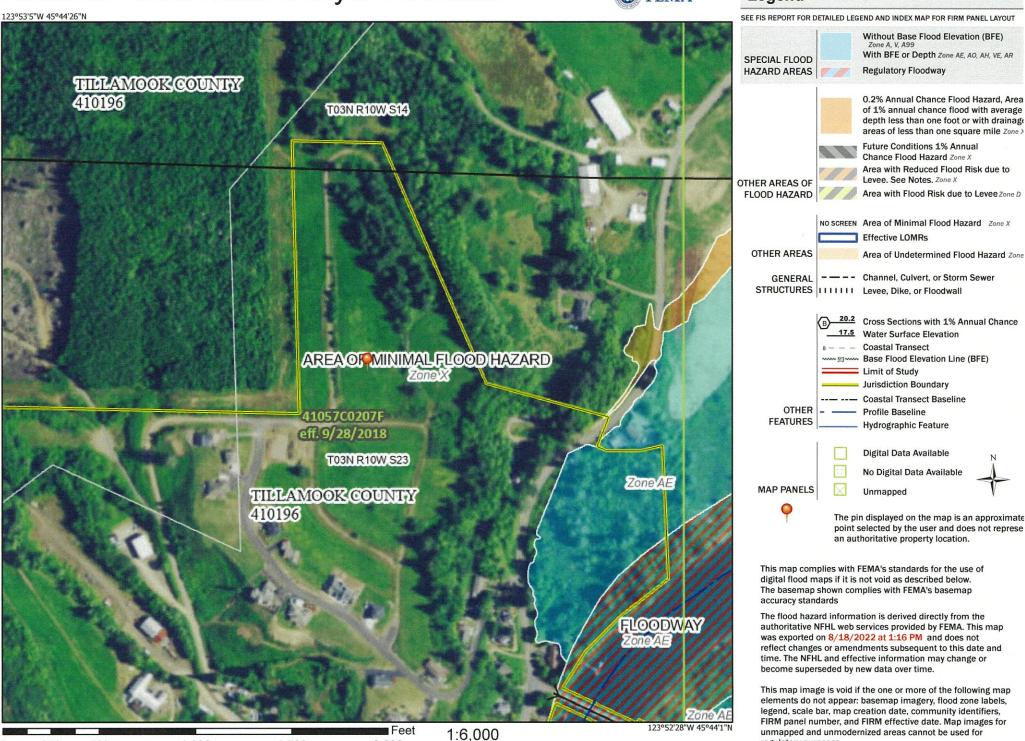
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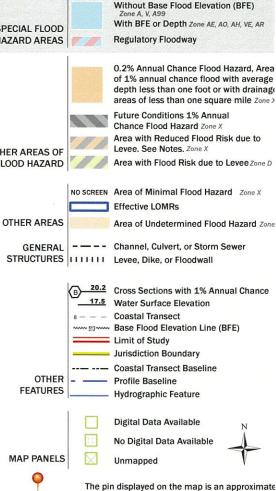
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Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/18/2022 at 1:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels. legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Riverview Meadows Phase 2



August 18, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

TILLAMOOK County Assessor's Summary Report

Real Property Assessment Report

FOR ASSESSMENT YEAR 2021

April 5, 2023 9:15:04 am

Account# 415243 Мар# 3N1023B003600 Code - Tax # 5601-415243 5622-415244

Tax Status ASSESSABLE Acct Status ACTIVE Subtype **NORMAL**

Deed Reference#

Legal Descr RIVERVIEW MEADOWS PHASE I

Lot - TRACT B

Mailing Name RIVERVIEW MEADOWS DEVELOPMENT LLC

2021-8657 Agent Sales Date/Price 10-13-2021 / \$1,300,000.00 In Care Of Appraiser WHITNEY HOPKES

Mailing Address 23765 SE HIGHWAY 212 DAMASCUS, OR 97089

Prop Class MA SA NH Unit 400 **RMV Class** 400 02 AC 212 43752-1

Situs Ad	dress(s)			Situs City			
Code Are	9a	RMV	MAV	Value Summary AV		RMV Exception	CPR %
5601	Land Impr.	97,170 0			Land Impr.	0 0	
Code	Area Total	97,170	87,810	87,810		0	
5622	Land Impr.	99,870 0			Land Impr.	0 0	
Code	Area Total	99,870	90,230	90,230		0	
Gr	and Total	197,040	178,040	178,040	· · · · · · · · · · · · · · · · · · ·	0	

Code			Plan		Land Breakdow	n			Trended
Area	ID#	RFPD Ex		Value Source	TD%	LS	Size	Land Class	RMV
5601			NH-RT	Market	103	Α	10.79		97,170
		_			Code Area	Total	10.79		97,170.00
5622		П	NH-R1	Market	103	Α	4.91		44,220
5622			NH-RT	Market	103	Α	6.18		55,650
					Code Area	Total	11.09		99,870.00
					Grand 1	otal	21.88		197,040

Code Area	ID#	Yr Built	Stat Class	Description	Improvement Breakdown	TD%	Total Sq. Ft.	Ex% MS Acct#	Trended RMV
					Grand Total		0		0

Exemptions / Special Asset	essments / Potential Lia	bility				
Code Area 5601						
FIRE PATROL:						
■ FIRE PATROL NORTHWEST	Amount	26.12	Acres	21.88	Year 202	<u>'</u> 1

Comments: Riverview Meadows Sub%.

08/11/10 New Lot, +10.82 acres to 56.01 & +11.06 acres to 56.22 from TL1400. Apportioned Values.ef 08/17/11 Brought land to market. Moved 0.03 acres from 56.01 to 56.22.ef 2/20/15 Reappraised land and tabled values. WH

EXHIBIT B



Tillamook County Department of Community Development 1510-B Third Street. Tillamook, OR 97141 / Tel: 503-842-3408

www.co.tillamook.or.us

Fax: 503-842-1819

OFFICE USE ONLY

Date Stamp LAND DIVISION APPLICATION **Applicant ■** (Check Box if Same as Property Owner) Name: Sheldon Development, Inc. Phone: 503-805-8741 Address: P.O. Box 883 ☐ Approved ☐ Denied City: Fairview State: OR Zip: 97024 Received by: Email: careysheldon17@yahoo.com Receipt #: Fees: **Property Owner** Permit No: Name: Phone: 851-____-PLNG Address: City: State: Zip: Email: Location: Site Address: Tract B Riverview Meadows Sub Phase 1, Document No. 2010-4288 Map Number: 3 North 10 West 23B 3600 Township Section Land Division Type: Partition (Two or Three Lots, Type II) ■Subdivision (Four or More Lots, Type III) ☐ Preliminary Plat (Pages 1-2) ☐ Final Plat (Page 3) PRELIMINARY PLAT (LDO 060(1)(B)) General Information For subdivisions, the proposed name. Parcel zoning and overlays Fifteen (15) legible "to Date, north arrow, scale of drawing. Title Block scale" hard copies Location of the development Clear identification of the drawing as One digital copy sufficient to development sufficient to "Preliminary Plat" and date of preparation define its location, boundaries, and a Name and addresses of owner(s). legal description of the site. developer, and engineer or surveyor **Existing Conditions** Existing streets with names, right-of-Ground elevations shown by Other information: way, pavement widths, access points. contour lines at 2-foot vertical Width, location and purpose of interval. Such ground elevations Engineering Geologic Hazard Report existing easements shall be related to some established The location and present use of all benchmark or other datum Addendum to Geologic Hazard Report structures, and indication of any that approved by the County Surveyor **Drainage Calculations** will remain after platting. The location and elevation of the Location and identity of all utilities on closest benchmark(s) within or and abutting the site. If water mains adjacent to the site Water System Improvements Letter and sewers are not on site, show Natural features such as drainage distance to the nearest one and how ways, rock outcroppings, aquifer Traffic Impact Study they will be brought to standards recharge areas, wetlands, marshes,

drainfields and associated easements

Location of all existing subsurface

sewerage systems, including

beaches, dunes and tide flats

Flood Insurance Rate Maps

For any plat that is 5 acres or larger,

the Base Flood Elevation, per FEMA

New Access Road Easements

- Proposed lots, streets, tracts, open space and park land (if any); location, names, right-of-way dimensions, approximate radius of street curves; and approximate finished street center line grades. All streets and tracts that are being held for private use and all reservations and restrictions relating to private tracts identified
- Location, width and purpose of all proposed easements
- Proposed deed restrictions, if any, in outline form
- Approximate dimensions, area calculation (in square feet), and identification numbers for all proposed lots and tracts

construction

Proposed Development

- Proposed uses of the property, including all areas proposed to be dedicated as public right-of-way or reserved as open space
- On slopes exceeding an average grade of 10%, as shown on a submitted topographic survey, the preliminary location of development on lots demonstrating that future development can meet minimum required setbacks and applicable engineering design standards
- Preliminary utility plans for sewer, water and storm drainage when these utilities are to be provided

- The approximate location and identity of other utilities, including the locations of street lighting fixtures, as applicable
- ☐ Evidence of compliance with applicable overlay zones, including but not limited to the Flood Hazard Overlay (FH) zone
- Evidence of contact with the applicable road authority for proposed new street connections
- Certificates or letters from utility companies or districts stating that they are capable of providing service to the proposed development

Additional	Information	Paguirad	for Cul	divisions
Auditional	miormation	Required	TOT SUE	aivisions

Preliminary street layout of undivided portion of lot ☐ Profiles of proposed drainage ways Special studies of areas which appear to be hazardous ☐ In areas subject to flooding, materials shall be due to local geologic conditions submitted to demonstrate that the requirements of $\hfill \square$ Where the plat includes natural features subject to the the Flood Hazard Overlay (FHO) zone of the County's conditions or requirements contained in the County's Land Use Ordinance will be met Land Use Ordinance, materials shall be provided to ☐ If lot areas are to be graded, a plan showing the demonstrate that those conditions and/or nature of cuts and fills, and information on the requirements can be met character of the soil Approximate center line profiles of streets, including ☐ Proposed method of financing the construction of extensions for a reasonable distance beyond the limits common improvements such as street, drainage of the proposed Subdivision, showing the proposed ways, sewer lines and water supply lines finished grades and the nature and extent of

☐ FINAL PLAT (LDO 090(1))		
☐ Date, scale, north arrow, legend, highways, and	Certificates:	
railroads contiguous to the plat perimeter	☐ Title interest & consent	□ Water
☐ Description of the plat perimeter	☐ Dedication for public use	☐ Public Works
☐ The names and signatures of all interest holders in	☐ Engineering/Survey	_ rushi works
the land being platted, and the surveyor	o o, ,,	
☐ Monuments of existing surveys identified, related	☐ Additional Information:	
to the plat by distances and bearings, and		
referenced to a document of record		
\square Exact location and width of all streets, pedestrian		
ways, easements, and any other rights-of-way		
☐ Easements shall be denoted by fine dotted lines,		
and clearly identified as to their purpose		
☐ Provisions for access to and maintenance of off-		
right-of-way drainage		
☐ Block and lot boundary lines, their bearings and		
lengths		
☐ Block numbers		
☐ Lot numbers		
☐ The area, to the nearest hundredth of an acre, of each lot which is larger than one acre		
☐ Identification of land parcels to be dedicated for		
any purpose, public or private, so as to be		
distinguishable from lots intended for sale		
distinguishable from lots intellued for sale		
Authorization		
	evel The!	
This permit application does not assure permit appro	oval. The applicant and/or	property owner shall be
responsible for obtaining any other necessary federal,	state, and local permits. Wi	thin two (2) years of final
review and approval, all final plats for land divisions		
except as required otherwise for the filing of a plat to		
The applicant verifies that the information submitte	d is complete, accurate, ar	nd consistent with other
information submitted with this application.		
\cap		
00-10-11/1		ir/noan
Property Owner (*Required)	111	12/0000
Cann Fieles	. 1 /	15/2020
Applicant Signature	Date	12/0099

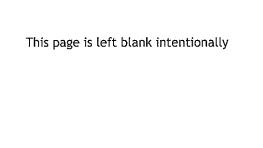
Project Narrative

Riverview Meadows Subdivision Phase 3 Nehalem, OR

(Township 3 North, Range 10 West, Section 23B, tax lot 3600)



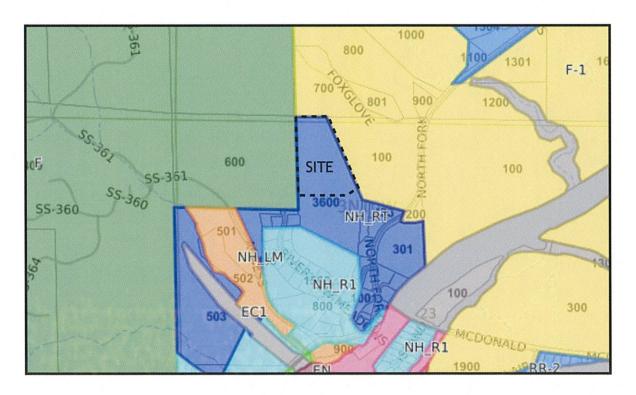
Prepared by Tracy Brown Planning Consultants, LLC January 2023



I. Introduction

The proposed subdivision is part of the planned progression of land use planning for this area of Nehalem. The subject property is within the City of Nehalem urban growth boundary but is currently located outside the Nehalem city limits. The applicant, Sheldon Development, Inc. requests land use approval to construct Phase 3 of Riverview Meadows to include 36 lot residential lots. The subject property is located directly north of Riverview Meadows Phase 2 approved by the Tillamook Planning Commission on October 20, 2022. The Phase 3 subdivision will extend the street system and utilities approved with Phase 2.

The project site consists of a single parcel located at Township 3 North, Range 10 West, Section 23B, tax lot 3600. The property is the northern portion of Tract B of Riverview Meadows Subdivision Phase 1 recorded as Document No. 2010-4288. This portion of the site contains 10.25 acres and is currently vacant. Moderate slopes border the northeastern portion of the site. The property is zoned NH-RT, Nehalem Residential Trailer and the applicant proposes constructing single family detached dwellings on the proposed lots as permitted by this zone. The subject property is bordered by properties zoned NH-RT to the south, Farm (F-1) zoned by Tillamook County to the north and east, and property zoned Forest (F) to the west.



The subject property is located in the northern region of the Nehalem Urban Growth Boundary. Access to the property is currently provided by an extension of Riverview Meadows Lane, a private road off Northfork Road, a Tillamook County road. Riverview

Meadows Lane was constructed as part of the Riverview Meadows Phase 1 subdivision improvements, platted in 2010.

The Tillamook County Planning Commission reviewed Phase 2 of the Riverview Meadows subdivision at a public hearing on October 20, 2022 (File No. 851-21-000415-PLNG). The Planning Commission approved the subdivision with the Geologic Hazard Report at this hearing and the Tillamook County Department of Community Development issued a Notice of Decision with Conditions for the application on October 25, 2022.

As was detailed with the Riverview Meadows, Phase 2 application, the applicant proposes constructing a new public access road to be called "Riverview Drive" intersecting with Northfork Road. This road located west of Riverview Meadows Lane will serve as the primary access for the development. Riverview Drive presents a superior design and location to the original access road (Riverview Meadows Drive) and is proposed to be privately maintained. As included with this application, all necessary easements have been secured to allow construction of this facility. In addition to construction of the new access road identified as Riverview Drive, the applicant is also proposing to modify two previously approved road names platted with Riverview Meadows Phase 1. The existing small north-south street stub platted as "Verns Place" is proposed to be changed to "Coltee Drive" and the existing east-west street stub platted as "Sunnyview Drive" is proposed to be changed to "Riverview Drive".

With development of Phases 2 and 3, the applicant proposes constructing a new 80,000 gallon water reservoir to serve the development. As discussed, with the Phase 2 application, this facility is designed to ensure adequate fire protection and domestic water pressure will be provided for the development. This system will also be designed to connect with the city's existing water distribution system to provide additional benefits to the city's system in this area of the city. During review of the Phase 2 application, the City of Nehalem issued a letter dated October 12, 2022, recommending the proposed subdivision be approved with Conditions.

The applicant intends to record CC&R's with the subdivision final plat similar to those recorded with Phase 1.

II. Application Approval Requests

The applicant requests the following approvals with this application:

- Preliminary Plat Subdivision Review
- Geologic Hazard Report Review
- Street Name Changes Verns Place to Coltee Drive and Sunnyview Drive to Riverview Drive

III. Items Submitted With This Application

Exhibit A - Land Use Application

Exhibit B - Project Narrative

Exhibit C - Civil Plans

- Sheet 1 Phase 3 Tentative Plan
- Sheet 2 Phase 3 Tentative Plan

- Sheet 3 Phase 3 Tentative Plan
- Sheet 4 Phase 2 Layout
- Sheet 5 Drainage Layout
- Sheet 6 Utility Layout
- Sheet 7 Entrance Road
- Sheet 8 Entrance Road 2
- Sheet 9 Entrance Road 3
- Sheet 10 Entrance Road 4
- Sheet 11 Entrance Road 5
- Sheet 12 Entrance Road 6
- Sheet 13 Entrance Road Profile
- Sheet 14 Utility Layout Coltee Drive
- Sheet 15 Utility Layout Coltee Drive
- Sheet 16 Utility Layout Coltee Drive
- Sheet 17 Utility Layout Kinlee Drive
- Sheet 18 Utility Layout Kinlee Drive
- Sheet 19 Utility Layout Meeka Drive
- Sheet 20 Utility Layout Meeka Drive
- Sheet 21 Utility Layout Pluto Drive
- Sheet 22 Road Alignments
- Sheet 23 Sewer System Details
- Sheet 24 Water System Details

Exhibit D - Geologic Hazard Report (11/21/22)

Exhibit E - Engineering Portion of Geologic Hazard Report (12/15/22)

Exhibit F - Drainage Calculations (1/6/23)

Exhibit G - Water System Improvement Letter (11/7/22)

Exhibit H - Traffic Impact Study (10/7/22)

Exhibit I - New Public Access Road Easements

Exhibit J - Proposed CC&R (Riverview Meadows Phase 1)

Exhibit K - Service Provider Letters

- Nehalem Bay Wastewater Agency
- Tillamook Peoples Utility District
- Nehalem Bay Fire and Rescue District
- City of Nehalem, Water Service Availability

Exhibit L - Wendie Kellington email to Sarah Absher (10/12/22)

Exhibit M - Ray Moore water model email to Kyle Ayers (10/7/22)

IV. Review of Applicable Approval Criteria

Subdivision applications are required to comply with the code criteria found in the City of Nehalem Subdivision Ordinance and Zoning Ordinance. Each of the relevant code sections are reviewed below. Each relevant code section is written in regular text followed by a response written in *italics*.

City of Nehalem - Chapter 156 - Subdivisions 156.015 - Initial submission

Ten copies of a tentative plan consistent with Sections 156.018 through 156.021 of this chapter shall be submitted to the City Manager/Recorder at least 30 days prior to the

meeting of the City Planning Commission or formal declaration of applicability of expedited land division process; together with a fee in the amount as listed in the city's most up-to-date schedule of fees, charges and monetary penalties.

Response: The intergovernmental agreement between the City of Nehalem and Tillamook County specifies the County is in charge of reviewing applications on behalf of the city for property located outside the city and within the urban growth boundary. Tillamook County Planning will be in charge of reviewing the subject application. The applicant has submitted 15 copies of all plans and one copy of all other materials as required by Tillamook County. In addition, a digital copy of all application materials was sent to the County.

156.016 - Preliminary review

- (A) Upon receipt of a completed application accompanied with filing fees, the City Manager/ Recorder shall transmit copies of the tentative plan to the City Planning Commission, City Council and other agencies such as the county and affected special districts.
- (B)(1) The City Manager/Recorder shall prepare a report on the plan for submission to the City Planning Commission.
 - (2) The report shall include:
 - (a) Information on the Comprehensive Plan;
 - (b) Comprehensive Plan background report;
 - (c) Zoning;
 - (d) Adjoining streets and property;
 - (e) Existing sewers, water mains, culverts, electric conduits and other community facilities in addition to features of the proposal; together with
 - (f) Any other data pertinent to the review of the plan.
- (C) The City Manager/Recorder shall provide adequate public notice of at least ten days in advance of the public hearing.
 - (1) Individual notices shall be mailed to all owners of parcels of land within 250 feet of the subdivision.
 - (2) In addition, at least ten days in advance of a public hearing a notice of the public hearing shall be published in a newspaper of general circulation within the affected area.
- (D) In the event of a request for an expedited land division, the City Manager/Recorder of his or her designate shall review the application by the following criteria:
 - (1) Be within the urban growth boundary;
 - (2) Be used solely for residential purposes; including recreational or open space used accessory to residential uses;
 - (3) Not allow dwellings or accessory buildings to be located on land that is specially mapped and designated in the Comprehensive Plan and land use regulations for hill or partial protection of open spaces, scenic and historic areas and natural resources; or the Willamette River greenway, coastal shorelands or beaches and dunes; and
 - (4) Satisfy minimum street or other right-of-way standards established by the acknowledged land use plan or, if such standards are not contained in the applicable regulations, as required by the statewide planning goals; and propose development at a density equal to at least 80% of the maximum density permitted

by the zoning designation of the site, if the proposal will create four or more parcels. (This density requirement does not apply to proposals that will create three or fewer parcels.) (Ord. 80-3, passed 04/12/2004)

Response: Tillamook County Planning is responsible for providing legal noticing and reviewing the subject application based on City of Nehalem code requirements.

156.017 - Information in the tentative plan

The tentative plan shall contain the following information:

- (A) Proposed name, date, north-point and scale of drawing;
- (B) Tentative plans shall be to a scale of one inch equals 50 feet or better, except tracts over ten acres which may be to a scale of one inch equals 100 feet and shall be clearly and legibly produced;
- (C) Location of the subdivision sufficient to define its location and boundaries, and a legal description as well;
- (D) Name and address of the owner and/or authorized agent:
- (E) Appropriate identification of the drawing as a tentative plan;
- (F) Names, business address and number of the registered engineer and licensed surveyor who prepared the plan of the proposed subdivision;
- (G) Location of natural features; such as streams, trees and rock outcroppings;
- (H) Contour lines at 20-foot contour intervals;
- (I) The locations, names, widths, approximate radii of the curves and grades of all existing and proposed streets and easements in the proposed subdivision and along the boundaries thereof, and the names of adjoining platted subdivisions and portions of the subdivisions as shall be necessary to show the alignment of the streets and alleys therein with the streets and alleys in the proposed subdivision;
- (J) Names of the record owners of all contiguous land; Response: All of this information is included on the Plan set.
- (K) The approximate location and character of all existing and proposed easements and public utility facilities including water and sewer lines in the subdivision or adjacent thereto, storm water drainage facilities and utility lines;

 Response: Sheet 5 of the plan set shows the proposed stormwater conveyance and discharge plan for the development. The proposed plan is to utilize a combination of existing ditches, newly constructed roadside ditches, and culverts to convey stormwater to the existing stormwater discharge points established with Phase I. Arrows on the plan show the proposed direction of stormwater flow.
- (L) The location and approximate dimensions of each lot, with each lot numbered; Response: Each proposed lot and tract shown on the plan contains dimensions and the calculated area.
- (M) The outline of any existing buildings and their use showing those that will remain; *Response:* The site does not contain any existing buildings.
- (N) The location of at least one temporary benchmark within the subdivision boundaries; *Response: This information is provided.*

- (O) City boundary lines crossing or bounding the subdivision; Response: As noted above, the subject property is located outside the current Nehalem city limits but is located within the urban growth boundary.
- (P) Approximate location of all areas subject to inundation of storm water overflow and location, width, known high water elevation, flood flow and direction of flow of watercourses;

Response: As shown on Sheet 5, Bob's Creek is located just west of the proposed Riverview Drive, new entrance road.

- (Q) If impracticable to show on the tentative plan, a key map showing the location of the tract in relationship to section and township lines and to adjacent property and major physical features such as streets, railroads and watercourses; and Response: All property corners are clearly identified and the requested datum has been added to the plan set.
- (R) The net density of the subdivision, the total acreage of land, square footage of each lot and square footage of open areas or common open space.

 Response: All of this information is shown on the revised plat. The proposal contains 36 residential lots and one tract. Tract A is proposed as a public utility tract to contain the proposed public water reservoir. Phase 3 contains a gross site area of 10.25 acres and after deducting proposed roads and Tract A, the site contains 6.99 net acres. The net density of the Phase 3 subdivision is 5.15 units/acre (36 lots/6.99 = 5.15 units/net acre).

156.018 - Partial development

If the subdivision proposal pertains to only part of the tract owned or controlled by the subdivider, the Planning Commission may require a sketch of a tentative layout for streets in the unsubdivided portion.

Response: Phase 3 is the last remaining property in this development owned by the applicant.

156.019 - Information in statement

- (A) A general explanation of the improvements and public utilities, including water supply and sewage disposal proposed to be installed;
 - Response: A detailed discussion of these facilities is included on the plan set. As discussed in submitted materials, the applicant is proposing to construct a new 80,000 water reservoir to be located on Tract A of the proposed subdivision. This facility is designed to resolve domestic and fire protection water pressure needs of the subdivision. As noted above, this system is also designed to connect to the city water system and will help to increase water pressure in this area of the city.
- (B) Requested variances;

Response: No variances are requested.

(C) Public areas proposed;

Response: No public areas are proposed.

- (D) Open space, landscaped areas, tree planting proposed and means of maintaining such improvements;
 - Response: No open space, landscaped areas, or tree planting is proposed.
- (E) A preliminary draft of restrictive covenants proposed, if any; and **Response:** The applicant proposes using the CC&R recorded with the Riverview Meadows Phase I plat for the proposed development. This document is included with the application package.
- (F) Information showing areas to be cut or filled.

 Response: The subject property is generally flat with the exception of steep slopes located along the eastern portion of the property. Site grading will be limited to the minimum necessary to construct proposed roads as shown on the plan set.

156.020 - Supplemental information

Any of the following may be required by the Planning Commission to supplement the plan of subdivision:

- (A) Approximate centerline profiles with extensions for a reasonable distance beyond the limits of the proposed subdivision showing the finished grade of streets and the nature and extent of street construction;

 *Response: This information is included on the plan set.
- (B) A plan for domestic water service lines and related water service facilities; Response: The submitted plan set shows the location of proposed water lines. The proposed development intends to connect to the end of service lines in Phase 2. As noted above, the applicant is proposing to construct a water reservoir on Tract A of the proposed subdivision. This facility is intended to resolve water pressure issues for the proposed development in addition to properties outside the development.
- (C) Approval for sewage disposal, storm water drainage or flood control; Response: The submitted plan set shows the location of the proposed sanitary sewer system, As noted in item 2 above, the proposed stormwater design is also shown on the plan set.
- (D) Proposals for other improvements such as electric utilities and sidewalks, fire hydrants and street lights;

 Response: No sidewalks are proposed with the development. The plan set shows the location of proposed fire hydrants. The electric facility design for street lights will be coordinated with the utility provider following preliminary plat approval.
- (E) An engineering geologist or soils engineering report of the stability of slopes when the average slope of created parcels is 20% or greater; and Response: A Geologic Hazard Report and Engineering Geology Report are included with the application package.

(F) Other information as necessary.

Response: In addition to items listed above, the application package includes drainages calculations, a Water System Improvement Letter, Traffic Impact Study, Service Provider letters, and recorded easements for the proposed new access road.

156.021 - Preliminary city staff/planning commission determination

- (A) The city staff shall determine whether the tentative plan, under an expedited land division process, is in conformity with the provisions of the Comprehensive Plan and this chapter. In the event of a quasi-judicial process application, the City Planning Commission shall determine whether the tentative plan is in conformity with the provisions of the Comprehensive Plan and this chapter.
- (B) The Planning Commission may approve the tentative plan as submitted or as it may be modified. If the Planning Commission does not approve the plan, it shall state the reasons for denial.
- (C) The action of the Planning Commission shall be noted on two copies of the tentative plan, including any conditions attached thereto. The Planning Commission shall retain one copy and the other returned to the subdivider.
- (D) An appeal to the City Council of a Planning Commission decision may be made consistent with § 156.028 of this chapter.

Response: The intergovernmental agreement between the City of Nehalem and Tillamook County specifies the County is in charge of reviewing applications on behalf of the city for property located outside the city and within the urban growth boundary. Tillamook County Planning will be in charge of reviewing the subject application. The proposed development complies with all applicable Goals contained in the Nehalem Comprehensive Plan and the requirements of this chapter.

City of Nehalem - Chapter 157 - Zoning 157.110 - Intent

The Residential Trailer Area, designated by the primary symbol "RT", is established to provide for mobile homes, as well as conventional housing, in areas where there are few constraints on development.

Response: The subject property is zoned Residential Trailer "RT" as shown on the City of Nehalem official zoning map.

157.111 - Permitted principal uses

The following uses and their accessory uses are permitted outright:

(A) Single-family housing;

Response: The applicant is proposing to construct single family dwellings, a permitted outright use in the RT zoning district

157.113 - Development standards

The following standards shall apply.

(A) The minimum lot size shall be 5,000 square feet for a one-family dwelling, plus 2,500 square feet for each additional dwelling unit. Where public sewers are not available, the County Sanitarian may establish a minimum lot size greater than 5,000 square feet.

(B) The minimum lot width shall be 60 feet; except on a corner lot, it shall be 65 feet.

- (C) The minimum lot depth shall be 85 feet.
- (D) The minimum front yard shall be 20 feet.
- (E) The minimum side yard shall be five feet; except on the side street of a corner lot, it shall be 15 feet.
- (F) The minimum rear yard shall be 20 feet; except on the side street of a corner lot, it may be five feet.
- (G) The maximum building height shall be 24 feet.
- (H) Parking shall be in accordance with §§ 157.305 through 157.311 of this chapter.
- (I) Manufactured home parks shall be in accordance with § 157.262 of this chapter.
- (J) Manufactured home subdivisions shall be in accordance with Ch. <u>156</u> of this code of ordinances.
- (K) Manufactured homes located on individual lots in parks or subdivisions shall be in accordance with § 157.262 of this chapter.
- (L) Short-term rentals shall comply with § 157.276 of this chapter.

Response: As shown on submitted plans, all lots contain at least 5,000 square feet. All corner lots are at least 65 feet wide, interior lots are at least 60 feet wide, and all lots contain at least 85 feet of depth. Homes constructed on these lots will be required to contain at least a 20 foot front setback, five foot side setbacks and corner lots a 15 foot side setback. All homes constructed on these lots will have a 20 foot minimum rear setback and homes no homes will exceed 24 feet in height. The proposal is capable of compiling with all other standards including parking detailed in this section.

Supplementary Provisions

157.260 - Intent

The purpose of this subchapter is to provide for general zoning rules including suitable access parking and sign control; as well as to make provisions for geologic investigations, home occupations and criteria for approval of mobile home parks and accessory uses/structures.

Response: A review of applicable sections is included below.

157.261 - Geologic investigation

- (A) The following are geologic hazard areas to which the standards of this section apply:
 - (1) Active landslides identified in State Department of Geology and Mineral Industries (DOGMI) Bulletins 74 and 79;
 - (2) Inactive landslides, landslide topography and mass movement topography, identified in DOGMI Bulletins 74 and 79 where slopes are greater than 20%;
 - (3) Areas prone to mudflows identified in DOGMI Bulletin 79;
 - (4) Brallier peat soils identified in Soil Survey, Tillamook Area, Oregon (USDA, Soil Conservation Service, 1964) and the unpublished Soil Conservation Service soils survey for coastal Tillamook County; or
 - (5) Other locally known areas of geologic hazard based on evidence of past occurrences.

Response: The subject property is located within an area containing geologic hazard, landslide topography. For this reason, an Geologic Hazard Report and Engineering Geology Report are included with the application package.

- (B) All development within geologic hazard areas shall comply with the following standards.
 - (1) Vegetation removal shall be the minimum necessary to accommodate the use.
 - (2) Temporary measures shall be taken to control runoff and erosion of soils during construction. Such measures include temporary stabilization (mulching or sodding), sediment basins or other performance equivalent structures required by the city.
 - (3) Exposed areas shall be planted in permanent cover as soon as possible after construction.
 - (4) Storm water shall be directed into drainages with adequate capacity so as not to flood adjacent downstream properties. Finished grades should preferably be designed to direct water flows along natural drainage courses.
 - (5) Additional requirements contained in a geologic report required by this section shall be followed.
 - **Response:** All of the standards in this section will be considered in constructing the proposed development.
- (C) A geologic hazard report is required prior to approval of planned developments, subdivisions and partitions governed by Ch. <u>156</u> of this code of ordinances, building permits, manufactured home permits, mining and excavation occurring in areas identified in division (A) above.
- (D) A report prepared for a subdivision, planned development or partition pursuant to the requirements of this section, may be used to satisfy these requirements for subsequent building, mobile home or manufactured home permits; providing that, the original report provided recommendations on building placement and construction and that these recommendations are followed.
- (E) The geologic hazard report shall be prepared by a geologist, engineer, engineering geologist or other person having professional experience analyzing the relevant geologic hazards.
 - (1) Structural recommendations must be stamped by a registered professional engineer.
 - (2) The boundaries of the study area shall be determined by the city.
 - (3) It shall be prepared in a format easily understood by a "lay-person" and shall include plan and sectional diagrams of the area showing property boundaries and the geographic information required by division (F) below.

 Response: An Engineering Geologic Hazard Report is included with this application package. R. Warren Krager, R.G, C.E.G an Oregon Licensed Engineering Geologist prepared a Geologic Report report and the project Engineer, Jason Morgan, P.E. prepared the Engineering portion of the Geologic Report. These reports contain conclusions and recommendations for developing the proposed subdivision.
- (F) The geologic hazard analysis shall include the following:
- (1) In landslide areas (divisions (A)(1) and (A)(2) above):
 - (a) Soils and bedrock type;
 - (b) Slope:
 - (c) Orientation of bedding planes in relation to the dip of the surface slope;

- (d) Soil depth;
- (e) Other relevant soils engineering data;
- (f) Water drainage patterns; and
- (g) Identification of visible landslide activity in the immediate area.
- (2) In areas prone to mudflow (division (A)(3) above):
 - (a) History of mud or debris flow; and
 - (b) Areas likely to be affected by future mudflow.
- (3) In Brallier peat soils (division (A)(4) above):
 - (a) Boring log or other similar measure;
 - (b) Bearing capacity; and
 - (c) Drainage patterns.

Response: All of the items in this section were considered in the report.

- (G) The geologic hazards report shall recommend development standards that will protect development on the property and surrounding properties. These should include standards for:
- (1) Development density (when more than one use is possible);
- (2) Locations for structures and roads;
- (3) Land grading practices, including standards for cuts and fills;
- (4) Vegetation removal and re-vegetation practices;
- (5) Foundation design (if special design is necessary);
- (6) Road design (if applicable); and
- (7) Management of storm water runoff during and after construction.

 Response: The Geologic Report and Engineering Portion of the Geologic contain conclusions and recommendations for developing the subdivision.
- (H) The geologic hazard report shall include the following summary findings and conclusions:
- (1) The type of use proposed and the adverse effects it might have on adjacent areas;
- (2) Hazards to life, public and private property, and the natural environment which may be caused by the proposed use;
- (3) Methods for protecting the surrounding area from any adverse effects of the development;
- (4) Temporary and permanent stabilization programs and the planned maintenance of new and existing vegetation;
- (5) The proposed development is adequately protected from any reasonably foreseeable hazards including, but not limited to, geologic hazards, wind erosion, undercutting and flooding; and
- (6) The proposed development is designed to minimize adverse environmental effects. *Response:* The Geologic Report and Engineering Portion of the Geologic Report contain conclusions and recommendations for developing the subdivision.

157.268 - Access.

Every lot shall abut a street, other than an alley, for at least 20 feet. **Response:** All lots abut a street and contain at least 20 feet of frontage.

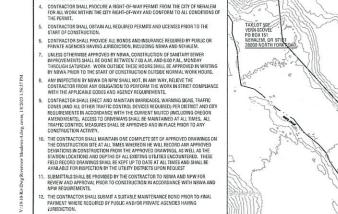
157.269 - Clear-vision areas.

- (A) A clear-vision area shall be maintained on the corners of all property at the intersection of two streets.
- (B) A clear-vision area shall consist of a triangular area, two sides of which are lot lines measured from the corner intersection of the street lot lines for a distance specified in this regulation; or, where the lot lines extended in a straight line to a point of intersection and so measured, and the third side of each is a line across the corner of the lot joining the non-intersecting ends of the other two sides.
- (C) A clear-vision area shall contain no planting, fences, walls, structures or temporary or permanent obstructions exceeding two and one-half feet in height; measured from the top of the curb, or, where no curb exists, from the established street center line grade; except that, trees exceeding this height may be located in this area; provided that, all branches and foliage are removed to a height of eight feet above the grade.
- (D) The following measurements shall establish clear-vision areas.
 - (1) In a residential zone, the minimum distance shall be 25 feet or, at an intersection including an alley, ten feet.
 - (2) In all other zones, where yards are required, the minimum distance shall be 15 feet or, at intersections including an alley, it shall be ten feet; except that, when the angle of intersection between streets, other than an alley, is less than 30 degrees, the distance shall be 25 feet.
 - **Response:** The clear vision area required by this section will be provided on all corner lots.

V. Conclusion

Sheldon Development, Inc. requests land use approval to construct Phase 3 of Riverview Meadows subdivision to include 36 residential lots. The subject property is located directly north of Riverview Meadows Phase 2 approved by the Tillamook Planning Commission on October 20, 2022. The Phase 3 subdivision is an extension of the street and utility system approved with Phase 2. The project site consists of a single parcel located at Township 3 North, Range 10 West, Section 23B, tax lot 3600. The property is zoned NH-RT, Nehalem Residential Trailer and the applicant proposes constructing single family detached dwellings on the proposed lots as permitted by this zone. With this application, the applicant proposes constructing a new entrance road, Riverview Drive, and a new 80,000 gallon water reservoir and related piping to serve the development. As noted above, in addition to construction of the new access road identified as Riverview Drive, the applicant is also proposing to modify two previously approved road names platted with Riverview Meadows Phase 1. The existing small north-south street stub platted as "Verns Place" is proposed to be changed to "Coltee Drive" and the existing east-west street stub platted as "Sunnyview Drive" is proposed to be changed to "Riverview Drive". As reviewed in this narrative, the proposal complies with all applicable standards and criteria contained in the Nehalem Subdivision and Zoning Codes. The applicant respectfully requests the application be approved as presented.

EXHIBIT C



SECTION CORNER

UTILITY LOCATE ONE CALL

(1-800-332-2344) or (8-1-1)

PROJECT IS AT RIVERVIEW MEADOWS, IN NEHALEM, TAX LOT 3600, MAP 2N 10W 23B.

12 EA

SHALL CONTROL UNLESS OTHERWISE DIRECTED BY NBWA OR NPW

WITH ALL REQUIREMENTS OF ORS 757,541 TO 757,571.

SCOPE OF WORK (PHASES 2 & 3)

SEWER CONCRETE MANHOLES

WATER SERVICE ASSEMBLY

GENERAL NOTES:

STORM DRAINAGE 18" CULVERT (±40 FT)

BASE ROCK LEVELING ROCK ASPHALT

WATER WATER MAIN GATE VALVE

8°Ø CLEANOUT 1 EA SERVICE LATERAL ASSEMBLY 74 EA

15 14

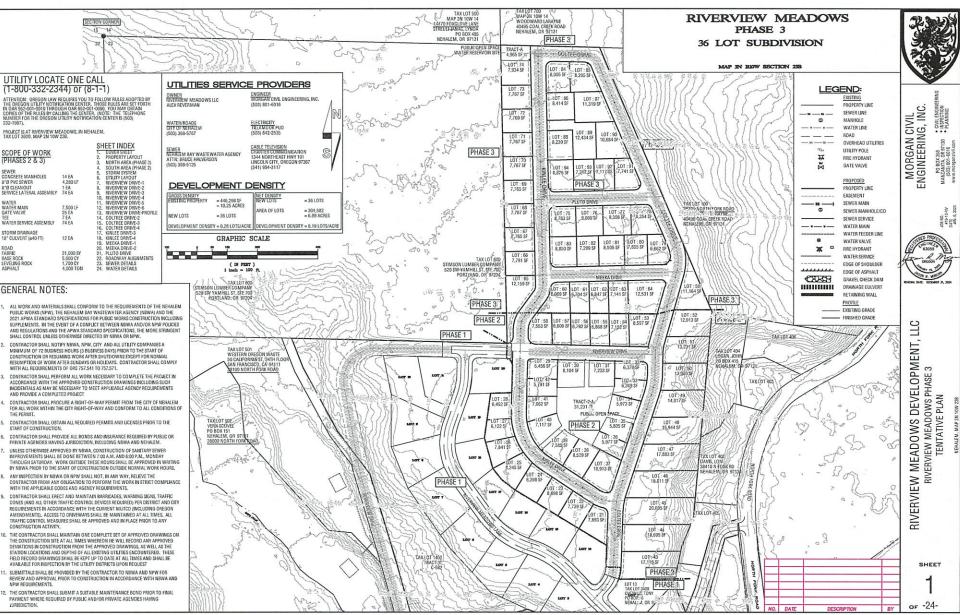
SHEET INDEX

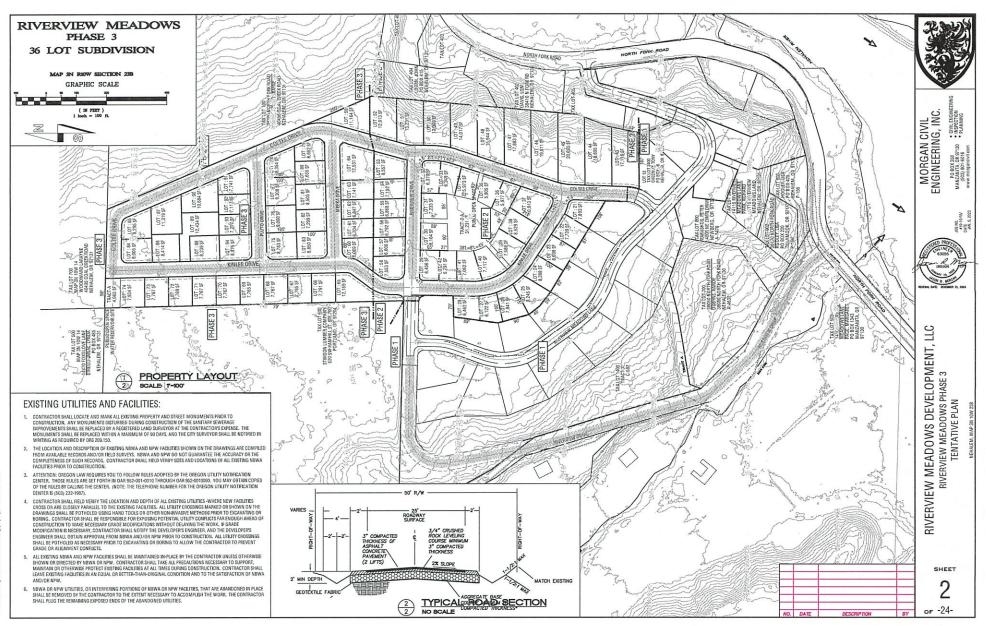
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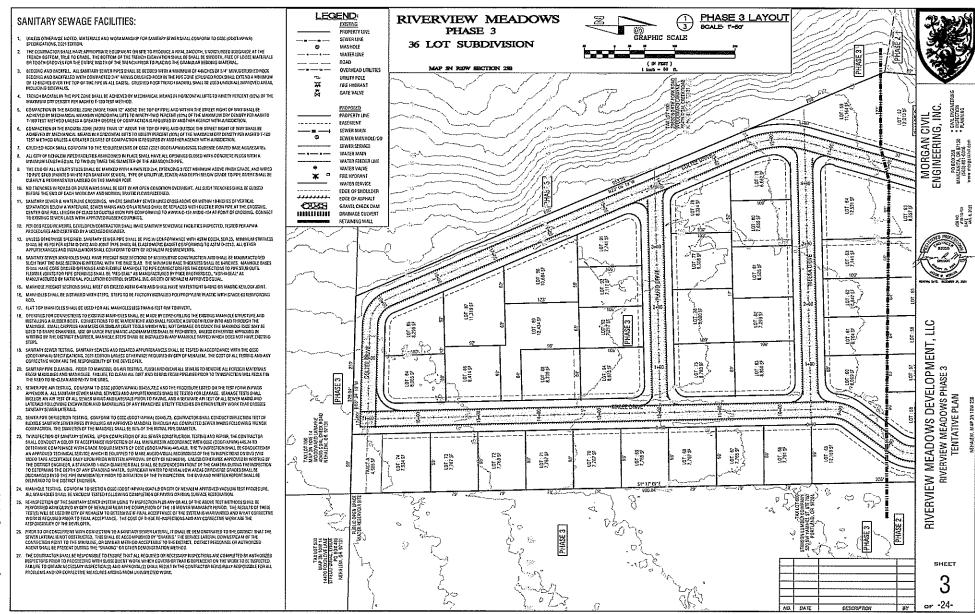
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MEEKA DRIVE-2

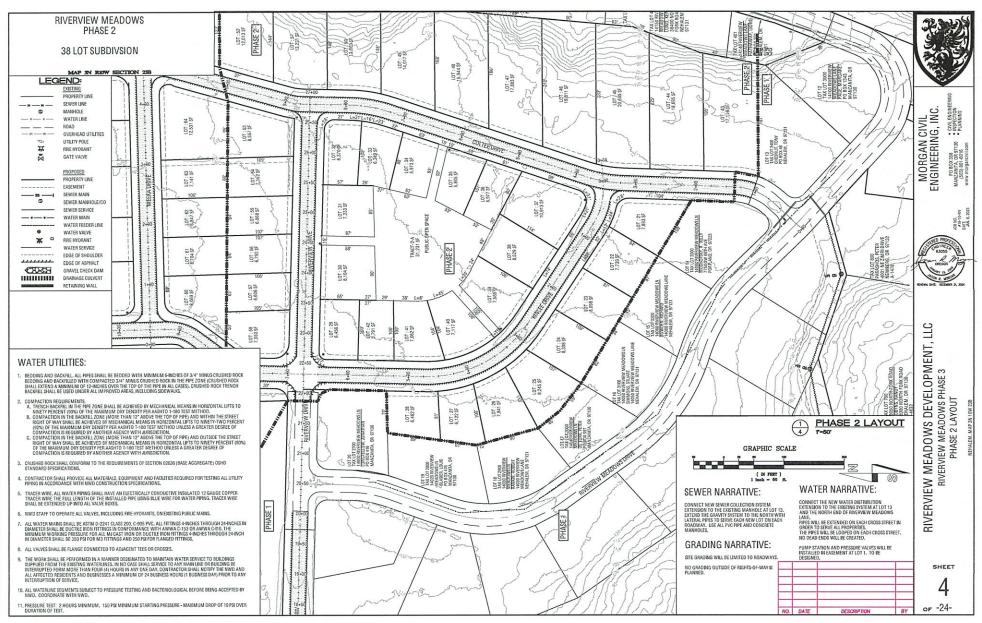
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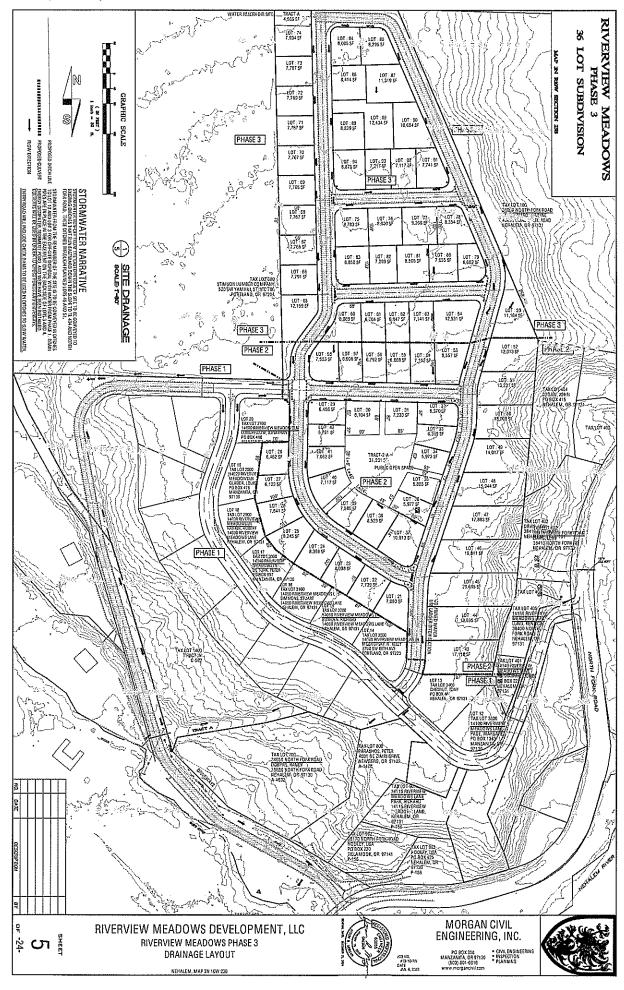


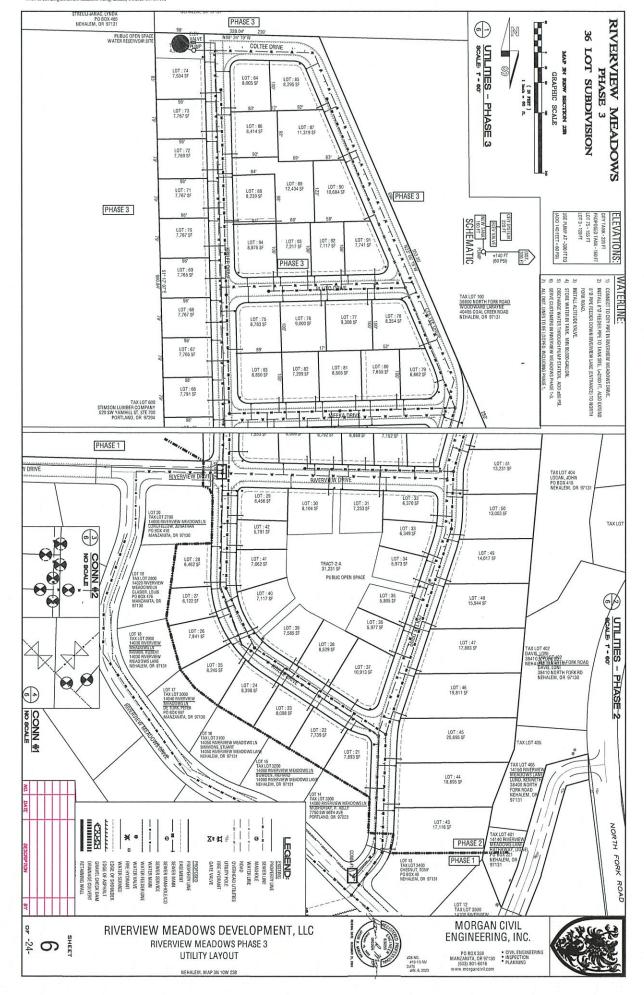










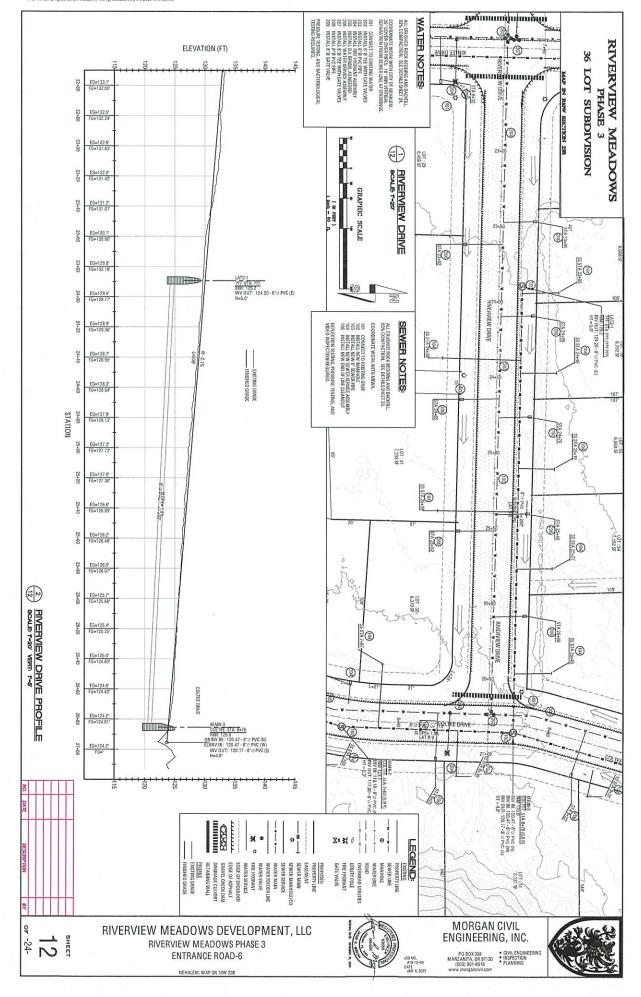


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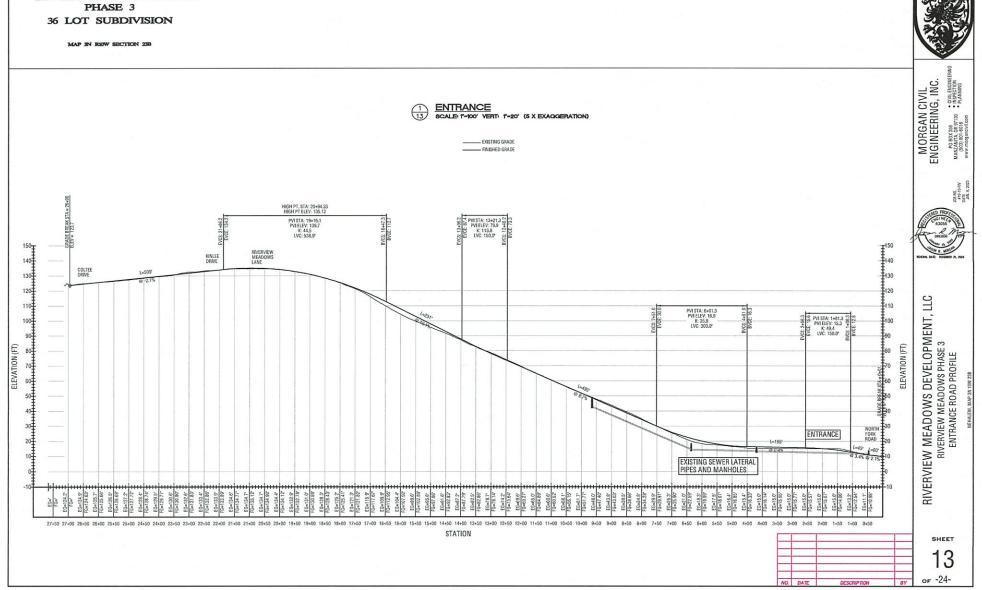
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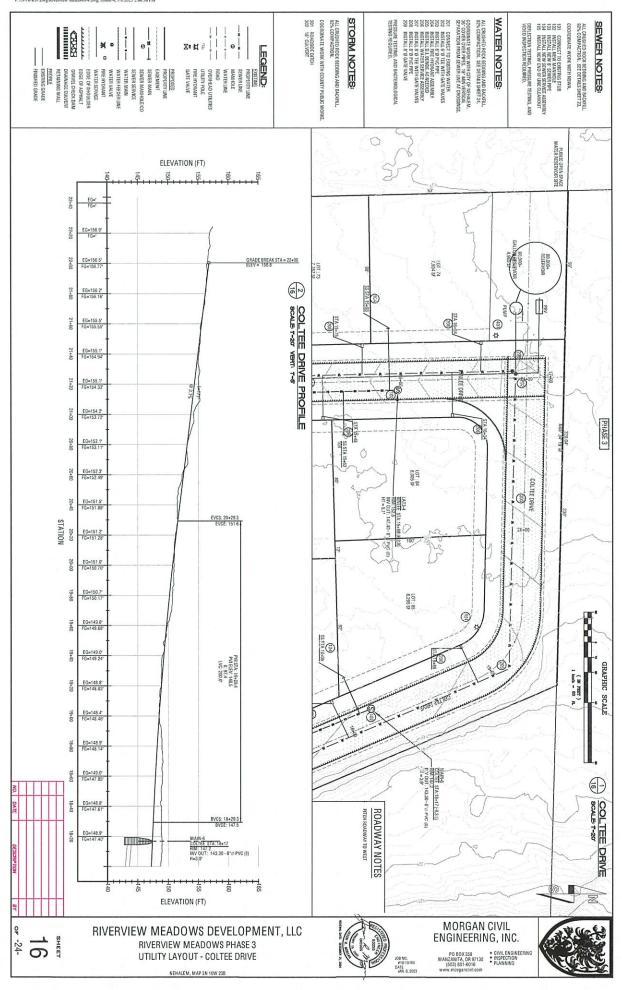
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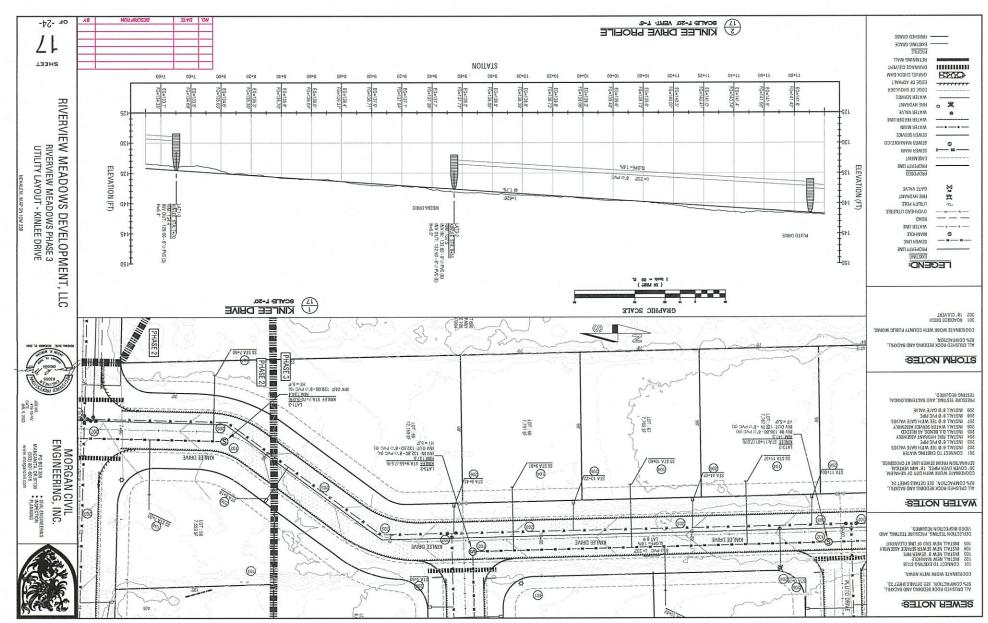


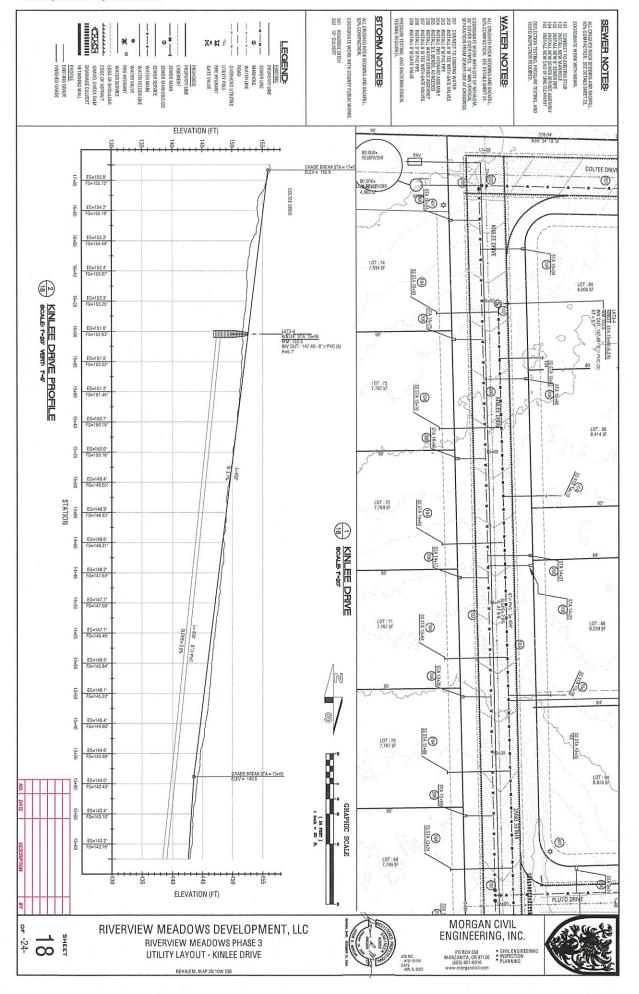
RIVERVIEW MEADOWS PHASE 3



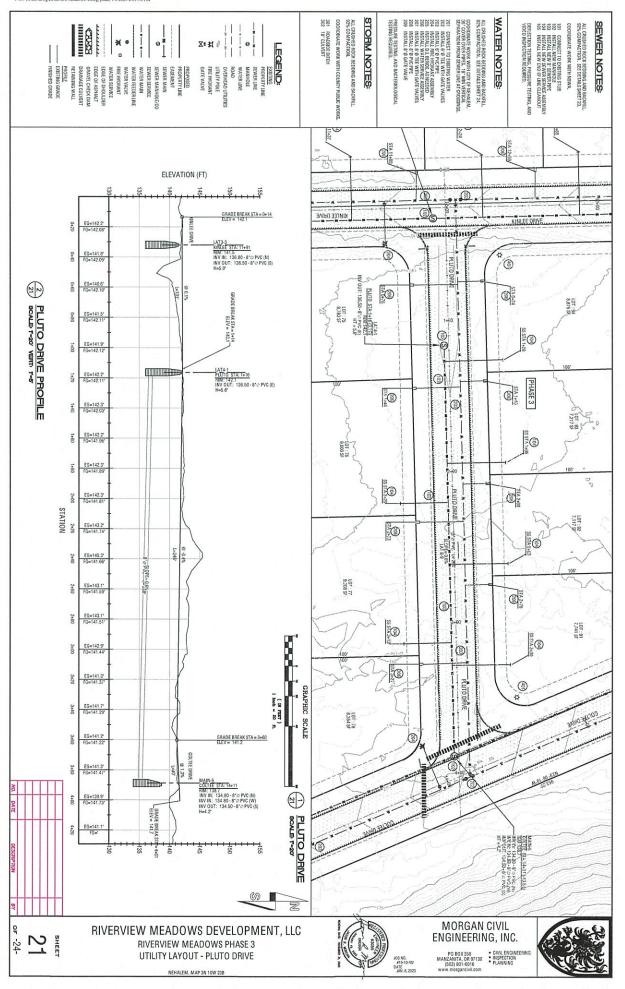
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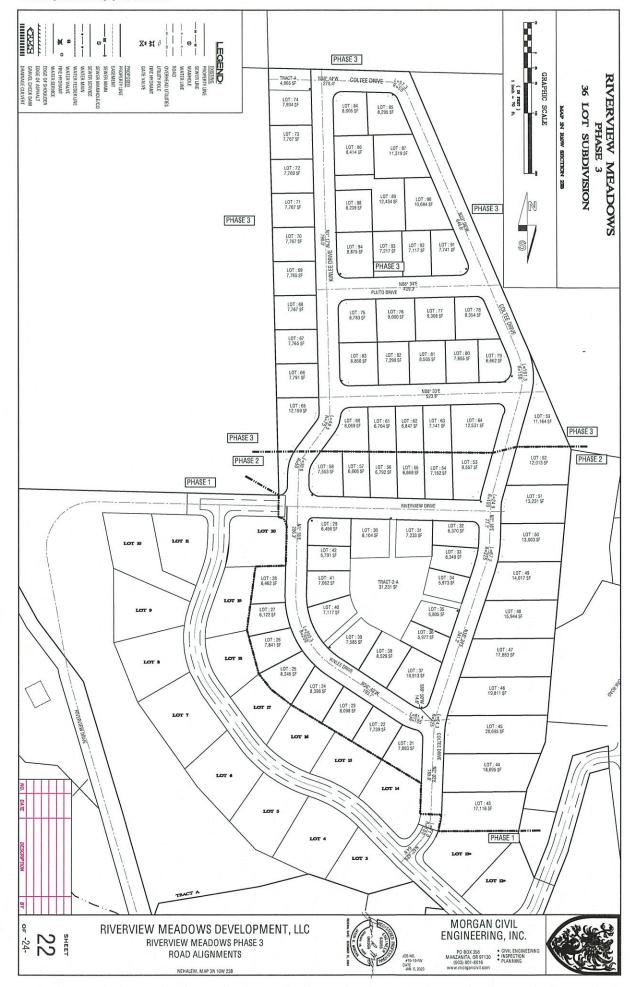


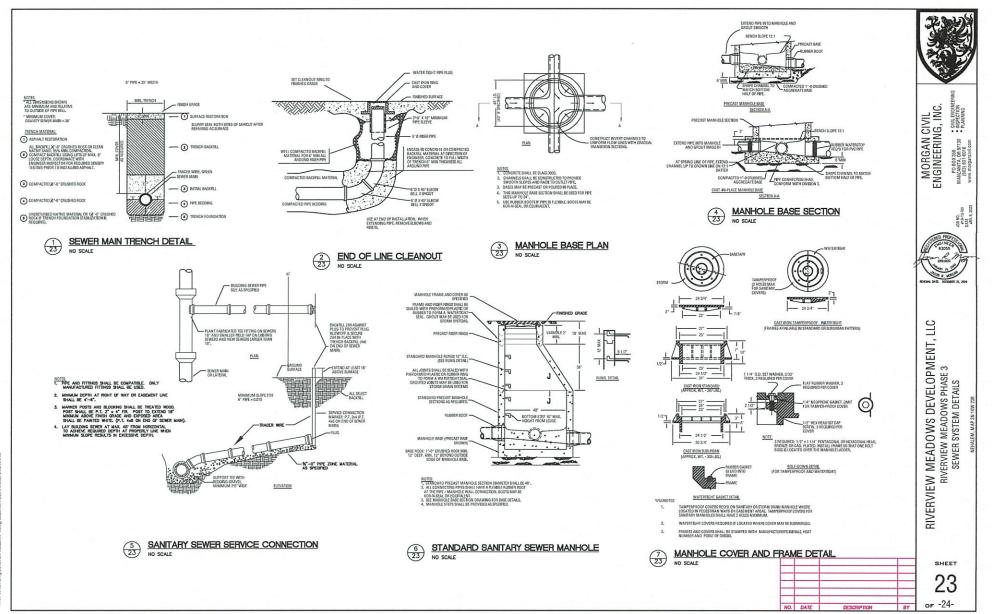




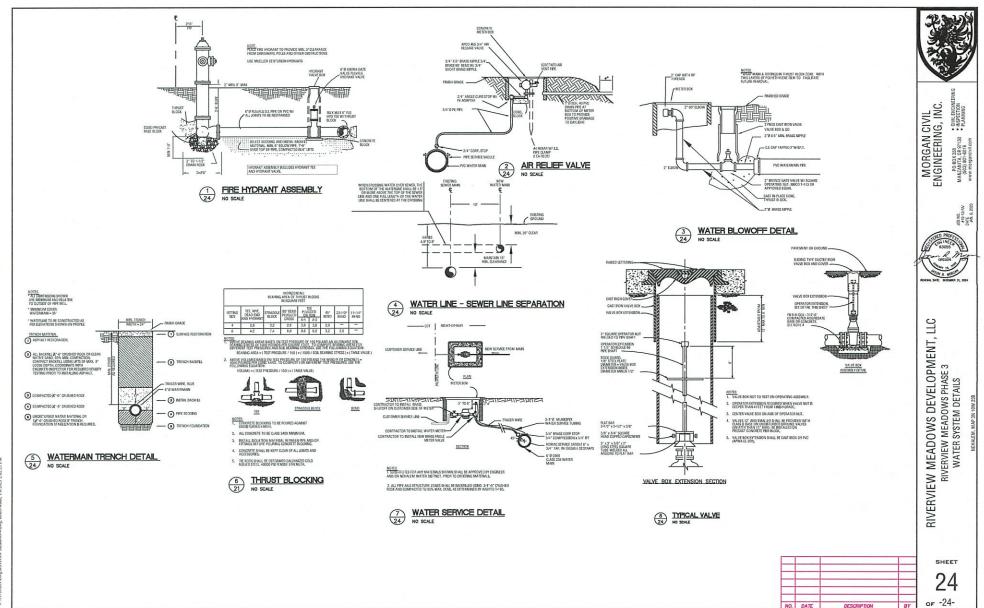
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Section of the Contract of the

R. Warren Krager, R.G., C.E.G. Consulting Engineering Geologist Oregon CEG #E957

November 21, 2022

Riverview Meadows Development LLC In care of Morgan Civil Engineering, Inc.

Phone: 503-801-6016

Email: jason@morgancivil.com

Subject: Engineering Geologic Hazard Report

Tax Lot 3600 Map 3N 10 23B

Proposed Riverview Meadows Phase 3-36 Lot Subdivision

Tillamook County, Oregon

Dear Mr. Reverman and Mr. Morgan:

As requested, I am pleased to submit my geologic hazard report for the proposed Riverview Meadows Phase 3 36-lot residential subdivision. This report has been prepared in general accordance with the Tillamook County Land Use Ordinance (TCLUO) Section 4.130, Development Requirements for Geologic Hazard Areas. The property is mapped in ancient landslide topography by the Oregon Department of Geology and Mineral Industries (DOGAMI).

R. Warren Krager, R.G., C.E.G. (Oregon Licensed Engineering Geologist E-957) conducted the initial site visit with Jason Morgan, P.E. on Friday February 14, 2020. I visited the property again on November 17, 2022. I walked over proposed roadway portions of the Phase 3 site. Approximately 1 hour was spent observing site conditions. It should be noted that geotechnical subsurface exploration was not conducted in proposed roadway or building lot locations.

In preparing this report, available geologic hazard maps and reports, tax lot maps, design concept sketches and available topographic date and aerial photographic images were reviewed for detailed information pertinent to the subject property and vicinity. The following geologic reports, maps, aerial photographs, and other information were reviewed and used in preparation this report:

- Tillamook County Land Use Ordinance, Article 4, Section 4.130 Development Requirements for Geologic Hazard Areas, adopted May 11, 2022.
- DOGAMI Open File Report O-20-13, Landslide Hazard and Risk Study of Tillamook County, Oregon.
- DOGAMI IMS 22, GIS Overview Map of Potential Rapidly Moving Landslide Hazards in Western Oregon, 2002.
- Environmental Geology of the Coastal Region of Tillamook and Clatsop Counties, Oregon, Oregon Department of Geology and Mineral Industries (DOGAMI), Bulletin 74, 1972.
- Online research of DOGAMI Statewide Landslide Inventory Database of Oregon, Interactive SLIDO maps, accessed online November 18, 2022.

10655 S.W. Park Street • Tigard, Oregon 97223 • Phone 360-903-4861• Email warrenkrager@gmail.com

- Geologic Map of the Tillamook Highlands Northwest Oregon Coast Range Tillamook 15 Minute Quadrangle, United States Geological Survey (USGS) Open File Report 94-21,1994.
- Oregon Department of Geology and Mineral Industries, DOGAMI LIDAR Viewer http://www.oregongeology.org/lidar/dataviewer/, accessed online November 18, 2022
- Google Earth Aerial photographs of the Nehalem area, photo dates: September 3, 1994,
 July 29, 2000, June 15, 2003, June 29, 2005, December 12, 2005, August 1, 2011, July 6, 2012, July 30, 2014, August 23, 2016, June 22, 2017, April 15, 2021.
- Topographic plan and Tentative Lot Plan, Riverview Meadows Phase 3 36 lot subdivision, Map 3N 10W 23B, prepared by Morgan Civil Engineering, Inc. for Riverview Meadows Development LLC, dated November 9, 2022.

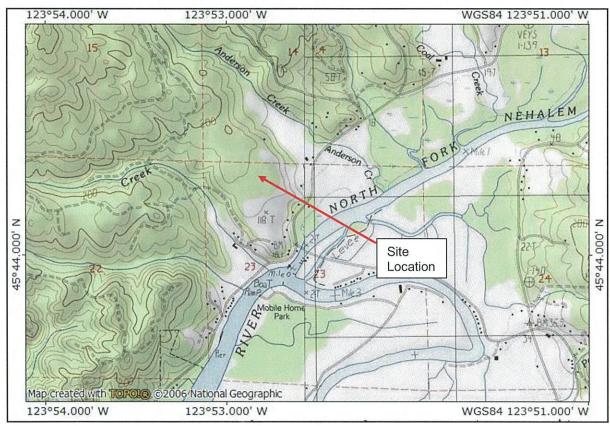


Figure 1- Site Location map.



Photo 1 – Google Earth aerial image dated April 15, 2021. The approximate area of Riverview Meadows Phase 3 Subdivision is outlined in red.

Site Location and Project Description

The general location of the subject property is north of the confluence of main stem of the Nehalem River and the North Fork of the Nehalem River, east of the town of Nehalem, in Tillamook County, Oregon. The general project location is shown in Figure 1. Photo 1 shows existing conditions and approximate outline of the proposed Riverview Meadows Phase 3 Subdivision. The subject property consists of a portion of Lot 3600, Tract B, of Tillamook County Tax Map 3N 10W 23B. Current site conditions consist of a nearly level foothill terrace vegetated with grass pastureland and timber. It is my understanding that the vacant, undeveloped parcel will be subdivided into 36 new single-family residential building lots ranging in size from 6,953 to 12,434 square feet in area, as shown in Figure 2. The proposed subdivision will include construction of new paved streets and underground utilities. Grading and earthwork are expected to be relatively minor, with most of the earthwork consisting of tree stump and root removal, underground utility installation and roadway grading.

Slope and Topography

The proposed Riverview Meadows Phase 3 subdivision parcel lies on a relatively level natural terrace at about 160 feet to 130 feet above mean sea level. The proposed development area slopes down to the south at less than 5 percent gradient. None of the proposed building lots or streets lie on steeply sloping ground. One of the proposed streets, Coltee Drive, along the eastern margin of the Phase 3 parcel, lies within a few feet of a break in slope, inclined down to the east. The adjacent property to the east of the Phase 3 parcel slopes downward to the east at approximately 30 percent to 40 percent, based on the DOGAMI light detection and ranging (Lidar) topography, shown in Figure 2. DOGAMI maps portions of the descending slope on the adjacent eastern property as landslide terrain. There are no landslide or debris flow prone slopes on the proposed Phase 3 parcel.

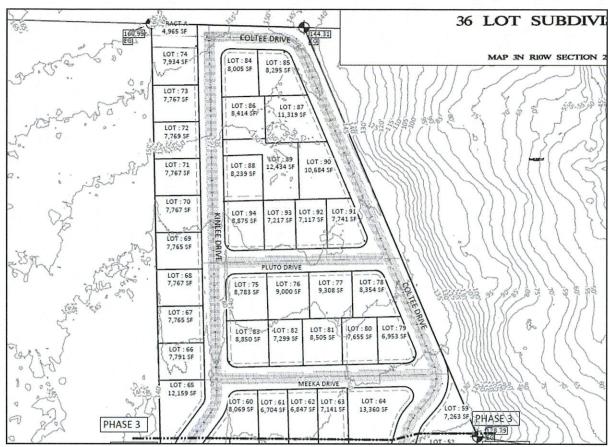


Figure 2- Portion of topographic plan and tentative lot plan, Riverview Meadows Phase 3, prepared by Morgan Civil Engineering, Inc.

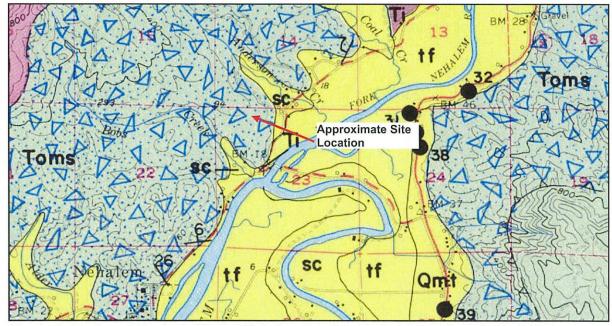


Figure 3- Portion of Geologic Map of Nehalem Quadrangle, DOGAMI Bulletin 74 (1972).

Soils and Geology

Surface soils in the project area are mapped by the USDA NRCS Web Soil Survey of Tillamook County, Oregon as Chitwood-Hebo complex, 0 to 5 percent slopes. This soil is derived from mixed alluvium and/or fluvio-marine deposits derived from sedimentary rock. The USDA describes the contact with underlaying bedrock at a depth of about 5 feet below the ground surface. Soil on the slope to the east of the subject property is mapped as Templeton-Ecola medial silt loams, 30 to 60 percent slopes. This soil is derived from slope colluvium and residuum of sedimentary rock.

DOGAMI geologic mapping in the 1970s, Figure 3, shows the subject property is located on uplands composed of Tertiary age sedimentary deposits of Tertiary, Oligocene to Miocene age siltstone, geologic map symbol **Toms**. The blue triangle and stippled overprint pattern on the **Toms** geologic map unit indicates ancient landslide topography. The **Toms** tuffaceous siltstone is typically highly weathered to completely decomposed. It has closely spaced joints and fractures from tectonic forces. Intact sedimentary bedding or bedrock dip angles are rarely observed. In the landslide terrain, it is unlikely that sedimentary bedding would be intact for any significant areal extent. Younger Quaternary fluvial silt and clay deposits (**SC**) are mapped in stream courses eroded in the older sedimentary rock at Bob's Creek, Anderson Creek, and other drainages in the lower Nehalem Valley.

USGS geologic mapping, Figure 4, the project site lies in an area of Tertiary Alsea Formation (Tal) tuffaceous siltstone of Lower Miocene to Oligocene age. The upper part of this unit is generally massive but has thin feldspathic sandstone interbeds. The USGS does not map the project area as landslide terrain, but the sedimentary strike and dip symbols shown on the geologic map vary substantially in orientation and dip angles, suggesting disturbance of the bedded marine sedimentary layers. As with the DOGAMI mapping, Nehalem River valley and tributary creeks are covered by younger Quaternary fluvial and estuarine (Qf) fine-grained sedimentary deposits.

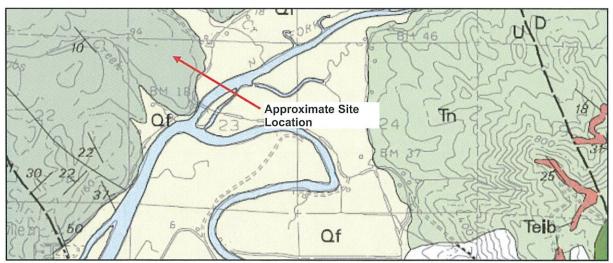


Figure 4 - Portion of Geologic Map of the Tillamook Highlands, Northwest Oregon Coast Range, USGS, Open File Report 94-21, 1994.

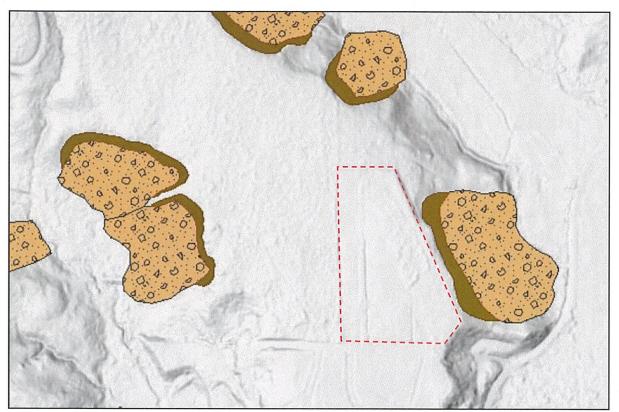


Figure 5 – Landslides mapped in DOGAMI Statewide Landslide Inventory Database of Oregon. Riverview Meadows Phase 3 approximate project boundary shown in dashed red outline.

Recent landslide mapping by DOGAMI in Figure 5 shows distinct landslides on the steep slope of the eastern adjacent property, and elsewhere on the margins of the Bobs Creek and Anderson Creek drainages.

Seismic Setting

The Cascadia Subduction Zone (CSZ) is an active tectonic plate boundary fault zone located approximately 50 miles to 60 miles off the Oregon coast. This active offshore thrust fault system has potential for earthquakes large enough to cause significant ground shaking throughout the Pacific Northwest region. Geologic research has shown that the CSZ fault system has repeatedly produced large earthquakes in the geologic past. CSZ earthquake recurrence intervals vary from about 200 to 700 years. Historic Japanese tsunami records along with dendrochronology (tree ring dating techniques) have established that the most recent strong CSZ earthquake occurred in January of 1700 AD. Based on the geologic record of CSZ earthquakes, the next CSZ earthquake is potentially overdue and may occur within future decades. In 2008 the United States Geologic Survey (USGS) estimated a 10% probability of occurrence that a magnitude 8-9 Cascadia Subduction Zone earthquake may occur within 30 years. Although scientists and engineers do not agree on the likely magnitude of the next CSZ earthquake, it is widely believed that earthquakes of moment magnitude (Mw) 8.5 to 9.5 are possible. The duration of strong ground shaking is estimated at greater than 4 to 5 minutes,

with minor shaking lasting several minutes longer. Possible aftershocks of magnitude 7 or greater may follow for hours or days after a major Cascadia Subduction Zone seismic rupture.

Other potential earthquake sources in this region include fault ruptures deep within the subducting oceanic plates and within the overlying continental crustal tectonic plate. However, the CSZ earthquake is considered the greatest seismic hazard to the region, and the seismic source that dictates building code design requirements for permitted structures.

Conclusions and Recommendations

The principal geologic hazard concern throughout western Oregon is an earthquake on the Cascadia Subduction Zone, CSZ. During a CSZ earthquake, the local area would experience a few minutes of very intense ground shaking. Steeper slopes on the eastern margin of the Phase 3 parcel may experience slope instability or landslide reactivation under seismic conditions. Static or seismically induced landslide risk to the Riverview Meadows Phase 3 parcel is considered low because of the mild slope. It is our interpretation that the landslide topography mapped by DOGAMI in Figure 3 likely formed many millennia ago. In my opinion, the Riverview Meadows Phase 3 subdivision site has no landslide or rapidly moving debris flow hazards.

Release of storm water runoff from impermeable surface should be carefully managed such that concentrated stormwater does not flow over the steep slope east of the Phase 3 parcel.

In my opinion, firm, undisturbed native soil or decomposed sedimentary bedrock is considered satisfactory for support of shallow spread foundations. Structure design according to prescriptive building code methods outlined in the adopted edition of the Oregon Structural Specialty Code (OSSC), Chapter 18 - Soils and Foundations is considered appropriate for homes on the Phase 3 building lots. Any organic debris, topsoil or manmade fill should be removed from foundation areas.

Grading recommendations in OSSC Appendix J- Grading are considered generally appropriate for excavation and earthwork construction on the Phase 3 lots building lots and roadways.

It is recommended that the Civil Engineer or Engineering Geologist be requested to observe and document roadway soil subgrade and aggregate base fill placement and compaction, structure foundation subgrade, and installation of drainage improvements.

Limitations

The engineering geologic reconnaissance and geologic hazard review performed for the proposed residential subdivision have been conducted with that level of care and skill ordinarily exercised by members of the profession currently practicing in this discipline and area under similar budget and time constraints. No warranty, expressed or implied, is made regarding the interpretations and conclusions of this report.

This report may be used only by the client and their authorized agents for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on- and off-site), or

Proposed Riverview Meadows Phase 3, Portion of Tax Lot 3600, Map 3N 10W 23B - Engineering Geologic Report November 21, 2022
Page 8 of 8

other factors may change over time and could materially affect our findings. Therefore, this report should not be relied upon after 24 months from its date of issue. If the project is delayed by more than 24 months from the date of this report, I would be happy to review site conditions and project design plans and revise this report if appropriate.

If you have any questions regarding the information presented in this report, please do not hesitate to contact me at 360-903-4861 or warrenkrager@gmail.com. Sincerely,

Exp 12-31-2022

OREGON WARREN KRAGER

R. Warren Krager, R.G., C.E.G.

Oregon Licensed Engineering Geologist E-957

MORGAN CIVIL ENGINEERING, INC.



PO Box 358, Manzanita, OR 97130 ph: 503-801-6016

www.morgancivil.com

December 15, 2022

Riverview Meadows, LLC Carey Sheldon

careysheldon17@yahoo.com

RE: Engineering Portion of Geologic Hazard Report for Road and Utility Development of the northern portion of Tax Lot 3600, Map 03N 10W 23B, Nehalem, Tillamook County,

Oregon (Riverview Meadows, Phase 3)

Project #19-10-Riv

Dear Mr. Sheldon:

At your request, we have completed the investigation for construction on the subject property, referenced above. Available maps and previous reports of nearby properties were utilized in this investigation. This investigation also included an inspection of the property. Warren Krager, Certified Engineering Geologist, has investigated the site and addressed the geologic conditions of the site in his report. Morgan Civil Engineering, Inc. (MCE) has then developed the engineering recommendations related to construction on the site. These recommendations are prepared for use in the construction of the roadways and underground utilities on the property. The standards set forth herein should be incorporated into the development plans for that project.

These reports are intended to address the overall adequacy of the site for residential development, as well as the construction of the required infrastructure (i.e., roads, utilities, etc.). The standards set forth herein should be incorporated into the final road and utility development plans. Recommendations for construction on the individual lots are also included.

Site elevations noted in this report are based on the topographic information obtained from the Oregon Department of Geology and Mineral Industries (DOGAMI) LiDAR project. The LiDAR elevations are based on the NAVD88 datum, which is roughly sea level.

Plans

Preliminary parcel and road layout plans have been completed for this site. The preliminary site grading and lot layout plans have been reviewed as part of this report.

At the time of individual lot construction, a Plot Plan and Foundation Plan should be developed for each property. The plans should be reviewed for compliance with this report and current construction requirements. For construction within 30 feet of a steep slope (over 20 percent), an individual site-specific geologic hazard report should be prepared.

Recommendations for the development of individual lots are included in this report.

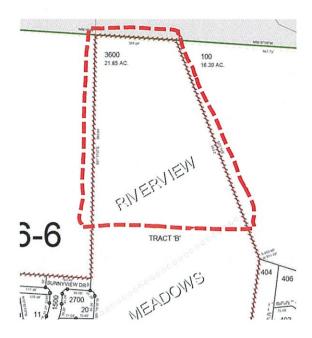
SITE CONDITIONS

The site and its geologic conditions are generally as described by the geologist in his report. Mr. Krager's 8-page report, dated November 21, 2022, is attached for your use.

The approximately 33-acre parcel is located on a plateau to the east of the incorporated City of Nehalem, but inside of the Urban Growth Boundary. Phase 3 will incorporate the northern portion of the property. The property is located to the north of the North Fork Road. The area to be developed borders residential properties to the east, and undeveloped land to the south (Phase 2). The property to the west is classified as forestry land. The area to the north is zoned as farm land.

The overall area to be developed is trapezoidal in shape, narrowing to the north, and measures about 300 feet east to west, and 400 feet north to south. See the attached portion of the assessor's map for property orientation and dimensions.

Riverview Meadows-3-GHR Page 2 of 11



The property will be accessed from two new roads in Phase 2: Coltee Drive and Kinlee Drive. These are served from the existing roadways Sunnyview Drive and Vern's Place. (These roads are to be renamed.) Utilities are to be installed in each of the new roadways also.

Elevations in the building area vary from about 130 feet above sea level, at the southeastern corner, to about 160 feet, near the northwestern corner of the parcel. The property slopes gently to the southeast, with slopes varying from nearly flat to about 5 percent. Ditches have been constructed in order to direct drainage off the site to the east. The eastern edge of the development slopes down steeply to the east, at roughly 50 percent.

Vegetation on the property is generally grass that is regularly maintained. Evergreen trees are located along the east edge of the property and in the northeastern section. The eastern slope is heavily vegetated with blackberries, ferns, trees, and other species typical of a coastal forest.

The site is in a 135 miles per hour basic wind gust speed zone, setback from the ocean and bay winds (Exposure 'C' as per the 2021 State of Oregon Residential Specialty Code (ORSC)). Therefore, all buildings must be designed in order to withstand the minimum required lateral wind gust loads. In general, one- and two-story wood frame construction designed in order to withstand 135 miles per hour Exposure 'C' wind loading also will withstand even moderate earthquake loads.

FINDINGS AND HAZARDS ANALYSIS

The primary relevant geologic hazards on this site relate to: 1) steep eastern bank; 2) drainage control; 3) compressible surface soils, and; 4) regional seismicity.

Mitigation of these hazards is discussed in the Development Standards, addressed herein.

The North Oregon Coast is defined by the 2021 ORSC as lying within a D_2 Seismic Design Category. As such, structures built in this area must, at a minimum, comply with the structural requirements for the D_2 Seismic Design Category. Strong seismic acceleration will likely result in widespread landsliding. No slope can be considered immune from failure during these conditions.

LOCALIZED SLOPE INSTABILITY

The slope down to the east of the property will be subject to continued erosion. Construction should be avoided near this slope. The moderate and steep slopes in these areas will be subject to ongoing soil creep. Extra consideration should be taken when constructing in these areas.

In Phase 3, this will likely only affect one lot, Lot 59. Otherwise, the roadway is closest to the slope.

SITE GRADING PLAN

The plans call for the final grading and construction of the existing roadways on the property. The flat property requires minimal grading for road construction or homes.

COMPRESSIBLE SOILS

The topsoil on the property consists of 1 to 2 feet of dark gray to black humic soils. This topsoil is compressible and should not be built upon. This organic topsoil is not acceptable for backfill in engineered fills for the roadways nor is it acceptable for backfill behind retaining walls. This topsoil should be disposed of by hauling it off the site or using it on other portions of the property. The topsoil may be stockpiled temporarily and used for future landscaping.

Similarly, when constructing buildings on the individual parcels, this topsoil should be removed. The building footprint and driveway should have all organic soils excavated and removed before the foundation or road construction begins. Each homesite should be inspected by an engineer, or geologist, in order to ensure that adequate bearing soil is exposed for construction. Documentation of the inspection should be provided to the building official.

Riverview Meadows-3-GHR Page 4 of 11

MANDATORY DEVELOPMENT STANDARDS

In addition to the required standards of Section 4.130 (2) of the Tillamook County Land Use Ordinance, the following site-specific standards should also be required:

A. Development Density – This property should be developed for uses consistent with current zoning (outright or conditional uses). All development should take place in conformance with all other requirements of the Tillamook County Land Use Ordinance or approved variances, as applicable.

The property is zoned as NH-RT, Residential Trailer. See Section 157.110 of the City Zoning Ordinance for more information.

B. Road Location and Road Base Support - Site access is proposed to take place from Sunnyview Drive (to be called Riverview Drive), and through Phase 2. This is an acceptable layout.

The roadbed should rest on firm, silty clay soil. Any soft soils or clays will need to be excavated from the road or building area, and be replaced with engineered fill material. Use a loaded dump truck to conduct a proof-roll of the soil during road construction. Remove all soft soil that is found.

C. Land Grading Practices - All excavations for road and utility construction should be done during reasonably dry weather (while it is not actually raining). All cut slopes should be retained using permanent means of stabilization. All excess excavated material should be used as non-structural fill by using it on flat areas, or disposed of by hauling it off the site. Native material will not be acceptable for use in engineered fills.

The site is flat so minimal grading for roads and homes is expected. Retaining walls will not be needed. No grading of the site, beyond that required for construction, should take place.

Riverview Meadows-3-GHR Page 5 of 11

D. Vegetation Removal and Revegetation - Existing vegetation should remain on all areas of the property that are not required for immediate construction purposes. Clearing of vegetation for home sites may be completed but grubbing should be limited to areas necessary for road development. Cleared areas should also be monitored for surface erosion and repaired, as needed. Avoid removing organic soil and vegetation roots until construction is ready in that area.

All areas that are disturbed by construction should be promptly revegetated in order to reduce the potential for erosion. The recommended revegetation program, from the USDA SCS Interagency Seeding Guide, for sites such as these is as follows:

Seed disturbed areas with the following grass mixture. Application rate is 12 to 14 pounds per acre.

Species	Percentage of Mixture
Annual Ryegrass	26%
Potomac Orchardgrass	25%
New Zealand White Clover	20%
Perennial Ryegrass	15%
Annual Crimson Clover	14%

Use a 16-20-0 fertilizer in order to speed the establishment of the cover material. In order to further contribute to the stability of the disturbed areas, jute matting, straw cover, or other stabilization product such as SoilGuard®, should be placed over the soil in order to help protect against erosion, before the seeds can germinate. In addition, planting shrubs and trees, such as salal, red elderberry, barberry, escallonia, cistus, ceanothus, etc., will contribute to the long-term stability of the site.

Riverview Meadows-3-GHR Page 6 of 11

E. Construction of Underground Utility Trenches – The trenching for the proposed underground utilities will disturb portions of the site. All trenching for utilities located within the road right-of-way should use 100 percent crushed rock for all trench bedding and backfill, compacted to 95 percent of optimum density.

Where the utility trenches are located outside of the right-of-way, suitable native material may be used for trench backfill materials. In all such areas where native ground surfaces remain after construction of the utilities is complete, disturbed areas should be revegetated in accordance with Section D above.

Only the waterline and sewer main are expected to be constructed in the roadway. Power and other utilities are expected to be outside of the right-of-way.

F. Driveway Location and Design – All driveways and roadways should be constructed such that the roadbed is entirely on cut or engineered fill material. Access should be from the existing roadway stubs and through Phase 2. Access road design standards should include a minimum of a 9-inch thick layer of pit run base rock, a 3-inch thick layer of 3/4"-minus crushed rock surfacing, and a 3-inch thick layer of asphalt concrete.

The roadway design presented on the grading plan meets these requirements.

G. Stormwater Management, Runoff, and Drainage - All surface drainage should be collected and directed into the existing drainage system. Roadside ditches are in place and should be improved upon and used. Use ditches in order to collect water from the roadway and divert the water to existing drainage channels or Bob's Creek.

Due to the large property and the work being completed away from the edges, off-site run-off of sediment will not be a concern. The drainage culverts that convey water off the site should be protected from sediment.

For localized drainage areas, such as houses and driveways, install a drywell with the overflow discharging into the roadside ditch. All water should be disposed of at least 10 feet away from any structures.

Riverview Meadows-3-GHR Page 7 of 11

H. Foundations for Future Home Sites – It is required that all structures be constructed within each proposed homesite, per City setback requirements.

The foundations of the individual homes should consist of a continuous, reinforced concrete perimeter system, using reinforced, concrete foundation walls, where required. The bottom of all footings and pads should be excavated to below any compressible organic material and previously placed fill material. The foundations should rest at least 12 inches into the native rocky clayey silt soil on the site. The depth to this material is expected to be about 1 to 2 feet below the ground surface.

When excavation takes place, it is recommended that a representative of MCE, or an equivalent engineer or a geologist, be consulted in order to determine whether the appropriate materials have been exposed for house foundations.

The construction of a concrete slab on grade is acceptable on a prepared pad. The area to support the slab should consist entirely of cut material and be covered with at least 6 inches of compacted crushed rock.

Below any concrete slab, I recommend the use of a capillary break in order to prevent moisture directly under the slab. Below the slab, use a layer of plastic sheeting, clean 3/4-inch crushed rock (no fines), or a combination of both options.

Where the native material is likely to be exposed to rain before the future house footings are poured, over-excavate the foundation and place 4 inches of 3/4"- crushed rock over the soil. Mechanically compact the crushed rock before the footings are constructed.

Soil bearing pressures at the bottom of all footings should not exceed 1500 pounds per square foot on approved clayey silt soil. All footings must be at least 18 inches in width.

Riverview Meadows-3-GHR Page 8 of 11

Any retaining walls should be designed according to the following criteria:

Allowable Soil Bearing Pressure, psf (on approved soil)	1,500
Lateral Soil Bearing Pressure on Unrestrained retaining	
walls with level backfill, pcf/ft of depth, equivalent fluid	29
weight (Active pressure excluding surcharge effects)	
Lateral Soil Bearing Pressure on Restrained retaining	
walls with level backfill, pcf/ft of depth, equivalent fluid	39
weight (Active pressure excluding surcharge effects)	
Lateral Soil Bearing Pressure (Passive), pcf/ft of depth	504
Friction Angle, degrees	38°
Maximum unit weight, pcf	120
Coefficient of Friction	0.35

Backfill behind all retaining walls should be clean, well-drained, imported, select granular backfill. Native material for backfill behind retaining walls is not acceptable. All retaining walls require foundation drains.

Foundation drains should be installed on the uphill side of all retaining walls and foundation footings. The use of a fabric covered, perforated drainage pipe, such as ADS DrainGuard®, or an equivalent, is recommended. The backfill around and above the foundation drains should be clean, washed, drain rock or angular ballast rock in order, to ensure good drainage. All drains should discharge toward the lowest point along the wall. All roof and surface area drainage piping should be separate from the foundation drainage.

SUMMARY FINDINGS AND CONCLUSIONS

- 1. The proposed use is infrastructure construction for future single-family residential lots. There are no immediate adverse effects on adjacent properties from future house construction. Future development may result in increased stormwater runoff or decreased runoff quality on adjacent properties.
- 2. Hazards to life, public and private property, and the natural environment, which may be caused by the proposed use, are discussed herein and addressed in each of the Development Standards.

Riverview Meadows-3-GHR Page 9 of 11

- 3. The methods for protecting the surrounding area from the adverse effects of the proposed development are set forth in each of the Development Standards.
- 4. Temporary and permanent stabilization programs and maintenance of new and existing vegetation are discussed in Development Standards "C' and "D".
- 5. The proposed development of this property according to the Mandatory Standards set out herein will result in the new parcels and future developments being adequately protected from the above described reasonably foreseeable ordinary hazards, although not necessarily from major earthquake, the possibility of which is discussed herein.
- 6. The proposed development of this property, according to the recommended standards, is designed to minimize the adverse environmental effects.

LIMITATION

This engineering report is based on site inspections of the property and vicinity and a review of the site topography. The engineering conclusions and recommendations in this engineering portion of the report are based upon the geologic conclusions presented in the geologic report prepared by Mr. Krager. The engineering conclusions and recommendations presented herein are believed to represent the site and are offered as professional opinions derived according to current standards of professional practice for a report of this nature. No warranty is expressed or implied.

Should you have any questions regarding my recommendations or this report, please contact me.

Sincerely,

MORGAN CIVIL ENGINEERING, INC.

- R May

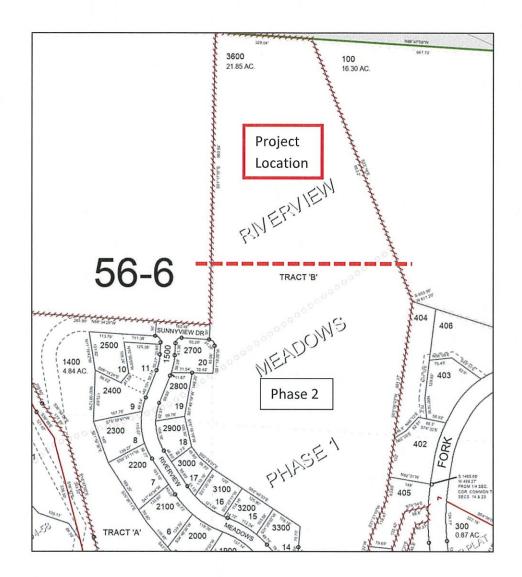
Jason R. Morgan, PE Professional Engineer

cc: Project File #19-10-Riv

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RENEWAL DATE: DECEMBER 31, 2022



Tax Lot 3600, Map 03N 10W 23B Nehalem, Tillamook County, Oregon (Riverview Meadows, Phase 3)

Morgan Civil Engineering, Inc.

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Drainage Calculations for

Riverview Meadows Phase 3 Tax Lot 3600, Map 3N 10W 23B Nehalem, Tillamook County, Oregon Project #19-10-Riv

January 6, 2023



Table of Contents

Sheet No.

Description

- 1. Cover Sheet, Table of Contents and Design Criteria
- 2. Narrative of Engineering Analysis
- 5. Existing Drainage Pattern
- 6. Developed Drainage Pattern
- 7. Stormwater Run-off Calculations
- 9. Kirpich Chart
- 10. ODOT Hydraulics Manual Table 1
- 11. Zone 2 Rainfall Curves

Design Criteria

Drainage Run-off – Rational Method

<u>Intensity</u>

Rainfall Intensity-Duration-Recurrence Interval Curves
ODOT Hydraulics Manual, Zone 2

Rational Method - Run-off Coefficients

Meadow	0.25
Residential (Normal – 4.8 units/acre)	0.50

Manning's Equation - Coefficients

n — (HDPE pipe)	0.012
n – (rock lined ditch, jagged)	0.035

Civil Engineering ullet Inspection ullet Planning

Nehalem, Tillamook County, OR Drainage Calculations

Narrative of Engineering Analysis

These calculations have been prepared to address the stormwater run-off from the proposed development on the subject property. This property slopes gently to the southeast and is undeveloped other than a few drainage ditches and a rough roadway loop. Phase 1 of the development has been developed and most of the twenty lots are developed with homes. The tentative plat for Phase 2 has been approved by the Tillamook County Planning Commission.

These calculations determine the rate of stormwater run-off from the site. Since water from Phase 3 will flow through Phase 2, Phase 2 run-off is included in these calculations. The collected water will also combine with water from Phase 1. Water run-off from Phase 1 currently flows through culverts and a settlement pond, and into Bob's Creek, at the base of the slope to the west. Bob's Creek flows into the Nehalem River to the east.

Phase 3 of the proposed development will consist of 36 new single-family homes and roadways to serve them. The average development density is 0.28 units per acre. The property slopes down to the southeast at roughly 2 percent. The calculations show that the planned drainage system can safely convey the run-off from a 100-year storm event.

The property consists of a layer of organic topsoil over dense silty clay. There are currently vegetated ditches on the property that direct water to the south and east, off of the property.

The attached drawings show the current drainage routes.

By directing the water southward, along the separate roads, the flow in the ditches is partially balanced, preventing higher flows in the eastern ditches, along Coltee Drive. Larger ditches will only be needed at the southern entrance of Phase 2, currently Vern's Place, when the water combines.

Page 2 Riverview Stormwater - 3B

S

Phase 1 Drainage - Existing

The collected stormwater from Phase 1 of Riverview Meadows flows into roadside ditches and southward to a culvert system behind Lot 3. Water from the homes is discharged into the roadside ditches. Most use a drywell system with an overflow to the ditch in order to slow water run-off. The water runs in the culverts to the base of the hill to the west. At that point, there is an energy dissipater and a sediment pond with a weir. The water then flows through culverts under the gravel roadway and into Bob's Creek.

Phase 2 Drainage Area - Planned

Most of the water from the southern portion of the property (Phase 2) currently flows southward through roadside ditches and through planned Lot 46, and eastward down to the North Fork Road. The remainder of the water, from the western portion of the property, flows in ditches to Lot 13 and combines with the water from Phase 1.

The stormwater from Phase 2 will be directed with ditches and culverts to Lot 13 in order to combine with the run-off from Phase 1 and be piped to Bob's Creek. Several of these ditches are in place along with the rough graded roadways.

The roadside ditches will be standard V-shaped ditches that are 4 feet wide and 2 feet deep.

Water on Kinlee Drive will continue south on Kinlee Drive. Water on other roads will flow east, and then south on Coltee Drive. Divide is roughly one-third on Kinlee, two-thirds on Coltee. The drainage path on Coltee is longer, reducing peak flows rates.

Phase 3 Drainage Area - Planned

The existing ditches in the northeastern portion of the property currently flow south and east to a ditch that continues east, down the slope (through planned Lot 51) towards Tax Lot 404 and to the North Fork Road.

The water run-off from Phase 3 will be conveyed with ditches and culverts through Phase 2 in order to combine with the water run-off from Phase 1, and discharge into Bob's Creek.

Riverview Stormwater - 3B Page 3

Nehalem, Tillamook County, OR Drainage Calculations

Entrance (Riverview Drive) - Planned

The high point of Riverview Drive is located near the center of the existing asphalt hammerhead. The water to the east of the high point flows eastward, towards Lot 51. The area to the west flows down the existing gravel roadway to the west and into the existing vegetation at the northwestern corner of Tract A. The run-off from the remainder of the gravel entrance road is uncontrolled and flows off to the west at multiple locations.

The roadway is currently gravel and about 16 feet wide. It will be widened and paved. Due to the curve and driveways, most of the roadway will be pitched to the uphill side in order to restrict the drainage. The only water on the new paved entrance road will be from the roadway. Culverts will also be installed under driveways as needed. These culverts will also help prevent erosion in steep areas. Crushed rock check dams will be used in order to slow the water flow and prevent erosion.

The attached calculations show the run-off from the planned developments and Phase 1, and the capacities of the pipes down to Bob's Creek. The Manning Equation was used to verify that the existing pipes are adequate for the total proposed flow.

The attached calculations show the expected rate of flow and the capacity of the ditch. As shown, a ditch with a 2 percent slope is generally adequate for the run-off. Larger ditches will be used near the southern entrance of Phase 2. The existing gravel roadway in the easement behind Lot 3 has a slope of percent, so the culvert is adequate to handle the increased runoff.9

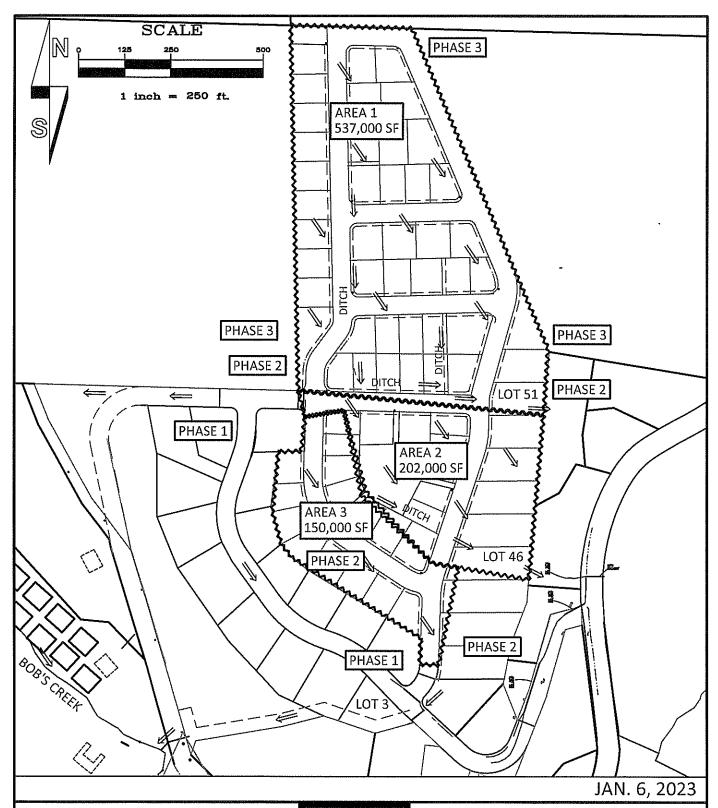
Stormwater Treatment

The water that flows through the culvert at Lot 3 flows through an existing energy dissipater and sedimentation pond before entering Bob's Creek.

Water that flows down the entrance road will continue to follow the roadway. To control the flow, the roadway will be pitched to the uphill side. The upper portion will continue to discharge into the vegetation at the northwest corner of the property, Tract A.

Check dams will be placed in the ditch to reduce flow velocity and cause settlement. Near North Fork Road, additional treatment can be included between the roadway and Bob's Creek, if needed. Treatment will be coordinated with the County and state agencies, as needed. <V:\19-10-Riv\Recorts\Riverview Stormwater - 3B.docx>

Page 4 Riverview Stormwater - 3B



RIVERVIEW MEADOWS

SITE LAYOUT DRAINAGE PLAN EXISTING DRAINAGE

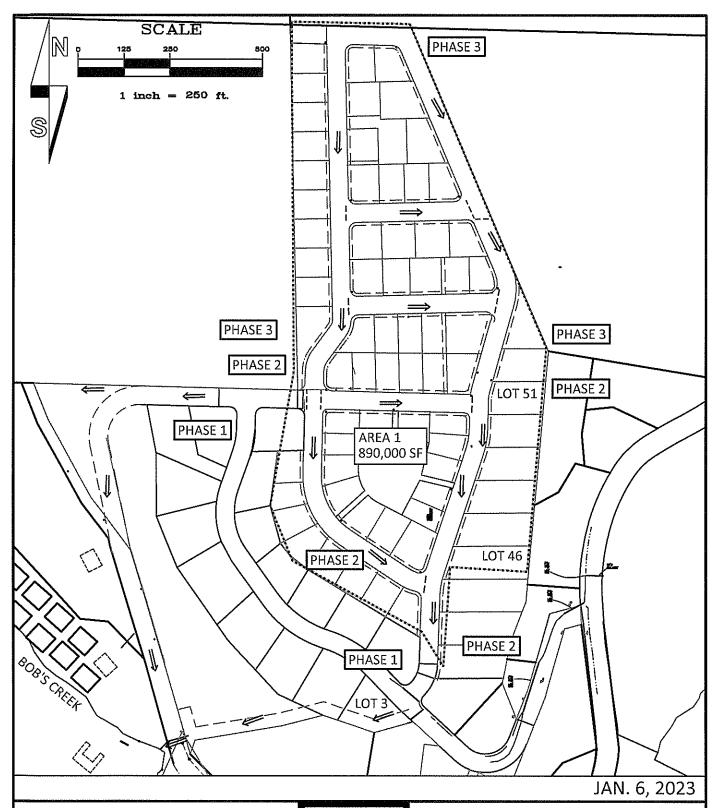
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RIVERVIEW MEADOWS

SITE LAYOUT DRAINAGE PLAN FINAL DRAINAGE

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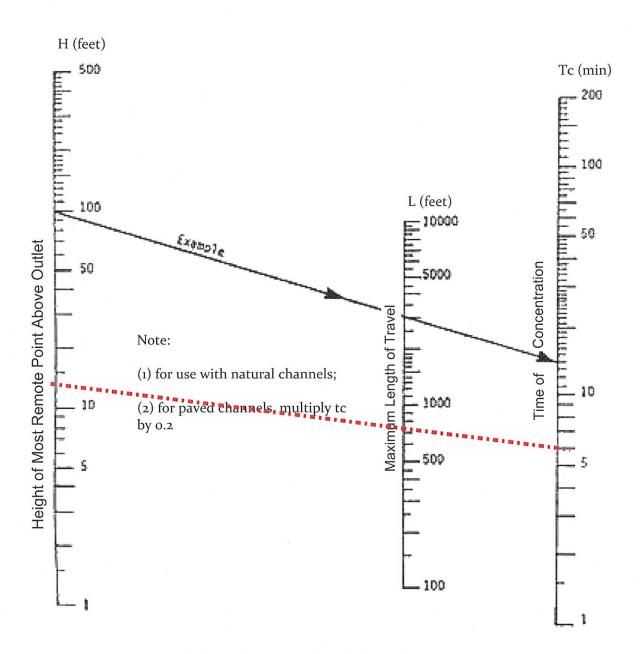
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Riverview Calcs drainage system

Riverview Meadows Phase	2 & 3						
Drainage System							
6-Jan-23							
		Area 1	Area 2	Area 3			
		Phase 3	Phase 2	Phase 2	Phase 1		
				Drains to South	Phase 1		
		Drains to ditch	Drains to ditch	Drains to culvert			
AREA	sf	224,000	<u></u>				
	acres	5.14	1.97	13.09	7.12		
Drainage Route		- CLAARII ARRIIN					
Length	ft	1266	1266	2050	1070		
Fall	ft	21	21	42	24		
Slope	%	1.66%	1.66%	2.05%	2.24%		
ZONE 2, Tillamook							
Time of Concentration	minutes	5	5	5	5	Kirpich Chart	
100-year storm intensity	in/hr	3.9	3.9	3.9	3.9		
Development Density	units/acre				4.8		
C=		0.5	0.5	0.5	0.5		
Rational Method, run-off							
Q=CiA	cfs	10.0	3.8	25.5	13.9		
TOTAL					53.3		

Ditch sizing	King count	v Surface Water	Design Manual				1
manning, N		y Surface Water Design Manual jagged and irregular, page 4-62					
maning, iv	N	0.035 0.035		0.035	0.035		
	IN	0.033	0.033	0.033	0.033		
Q=V/A							
Ditch Velocity							
	Fall	Distance	Slope, S	Coefficent	V=(1.49/n)(Rh^0.66)(S^.5)	area	Flow
trapezoid	feet	feet	0.000		Velocity, V	sf	CFS
Ditch flow-triangle (0 bas		2050	2.05%	0.035	†	1 - 1	!
Ditch flow-trapezoid (1' base)				7.77	5.62	ļ	
Ditch flow-trapezoid (1' base, 3' deep)					5,62		
Run-off		0.67					ļ
Phase 3	10.0		cfs		in Phase 3 - use standard 2' deep ditch		
Phase 2	29.4	19.7			in Phase 2 - use standard 2' deep ditch		
Phase 2 & 3	39.4				At south entrance - use 3' deep trench-1' wide at base		2
Phase 1	13.9						
TOTAL	53.3	cfs					
Pipe Flow							
		Across RVM	Across RV	Down slope			
		Lane	Drive	behind Lot 3			
Pipe Size	inch	1.6	16	12			
Length		80	80	570			
Fall	ft	13	13	70			
Slope	%	0.16	0.16	0.12			
X-section Area	sf	1.40	1.40	0.79			
Rh (full)		4.00	4.00				
Manning, n		0.01	<u> </u>	0.01			
Velocity=	ft/sec	125	125				
Flow, Q=	<u>cfs</u>	<u> 175</u>		<u> </u>	<u> </u>		
Run-off rate		53.3					
		ок	ОК	ОК			_

TRAVEL TIME FOR CHANNEL FLOW (Kirpich Chart)



Time of Concentration of Small Drainage Basins

Hydrology 7-F-3

Table 1 Runoff Coefficients for the Rational Method

	FLAT	ROLLING	HILLY
Pavement & Roofs	0.90	0.90	0.90
Earth Shoulders	0.50	0.50	0.50
Drives & Walks	0.75	0.80	0.85
Gravel Pavement	0.85	0.85	0.85
City Business Areas	0.80	0.85	0.85
Apartment Dwelling Areas	0.50	0.60	0.70
Light Residential: 1 to 3 units/acre	0.35	0.40	0.45
Normal Residential: 3 to 6 units/acre	0.50) 0.55	0.60
Dense Residential: 6 to 15 units/acre	0.70	0.75	0.80
Lawns	0.17	0.22	0.35
Grass Shoulders	0.25	0.25	0.25
Side Slopes, Earth	0.60	0.60	0.60
Side Slopes, Turf	0.30	0.30	0.30
Median Areas, Turf	0.25	0.30	0.30
Cultivated Land, Clay & Loam	0.50	0.55	0.60
Cultivated Land, Sand & Gravel	0.25	0.30	0.35
Industrial Areas, Light	0.50	0.70	0.80
Industrial Areas, Heavy	0.60	0.80	0.90
Parks & Cemeteries	0.10	0.15	0.25
Playgrounds	0.20	0.25	0.30
Woodland & Forests	0.10	0.15	0.20
Meadows & Pasture Land	0.25) 0.30	0.35
Unimproved Areas	0.10	0.20	0.30

Note:

- Impervious surfaces in bold
- Rolling = ground slope between 2 percent to 10 percent
- Hilly = ground slope greater than 10 percent

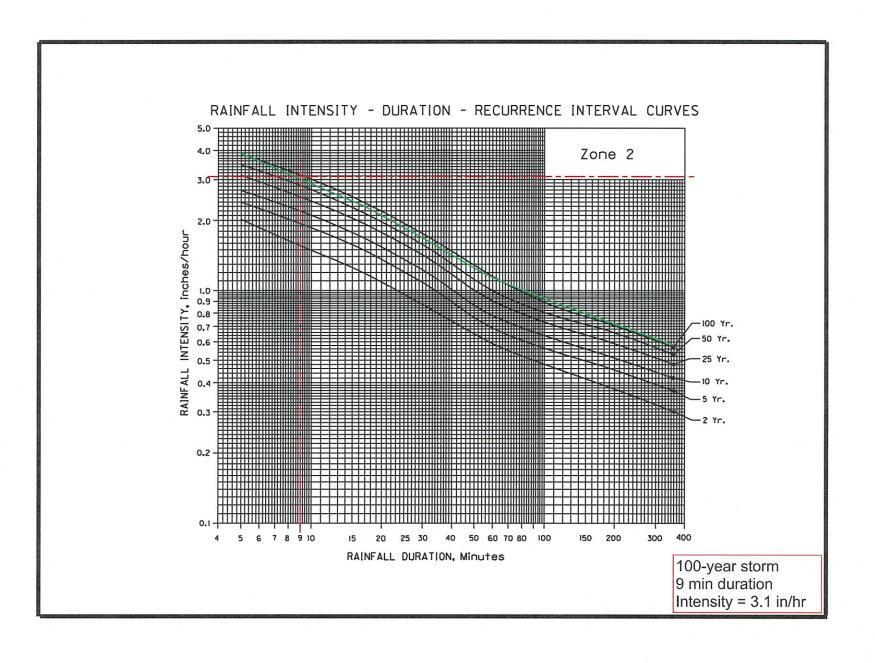


EXHIBIT G

MORGAN CIVIL ENGINEERING, INC.



PO Box 358, Manzanita, OR 97130 ph: 503-801-6016 www.morgancivil.com

November 7, 2022

Riverview Meadows Development, LLC Carey Sheldon PO Box 883 Fairview, OR 97024

careysheldon17@yahoo.com

RE: Water System Improvements for Tax Lot 3600, Map 03N 10W 23B, Nehalem, Tillamook County, Oregon (Riverview Meadows, Phase 3)

Project #19-10-Riv

Dear Mr. Sheldon:

At your request, I have prepared a preliminary design for the water distribution system to serve the proposed subdivision of Riverview Meadows Phase 3, as well as Phase 2.

Storage

As discussed in the application for Phase 2 of the subdivision, we propose to install a new water storage tank at the northwestern corner of the new development (currently Tax Lot 3600), with a ground elevation of about 160 feet. The City tank is at an elevation of 220 feet, so the new tank can be supplied by gravity.

The proposed tank will include 60,000 gallons of water storage for fire-fighting (1000 gpm for 60 minutes) and about 20,000 for domestic use (240 gallons per house for 90 homes). The average City residential usage is 141 gallons per day. The total tank size will be about 80,000 gallons.

The new tank will be filled with treated water from the City System, with a dedicated feed line. An elevation actuating valve (PRV) will be installed at the tank in order to prevent overflowing.

DECEMBER 31, 2022

Water System Improvements Riverview Meadows Phase 3 Nehalem, Tillamook County, Oregon

Distribution

Water from the new reservoir will be pumped to a pressure of about 60 psi (140 ft gauge pressure/300 feet total pressure). The water will then be distributed in a looped system in order to serve the residents of Phases 2 and 3 of the subdivision.

Lot 75 is located at elevation 155 feet. Lot 21 is at elevation of 120 feet. Therefore, the service pressure will be between roughly 60 psi and 85 psi.

This system will provide adequate service to homes on the planned properties.

If you have any questions, please contact me at jason@morgancivil.com or 503-801-6016.

Sincerely,

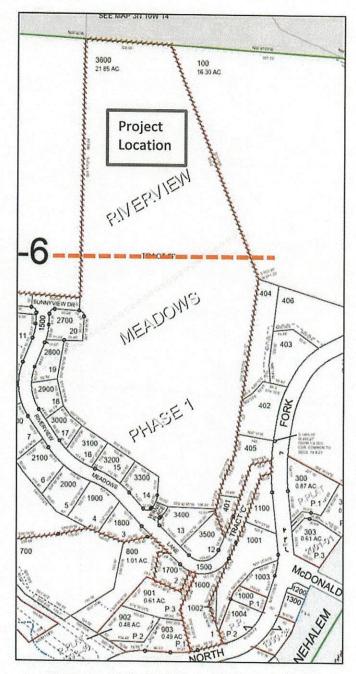
MORGAN CIVIL ENGINEERING, INC.

Jason R. Morgan, PE Professional Engineer

cc: Project File #19-10-Riv

<V:\19-10-Riv\Reports\Riverview Meadows-3 Water System.docx>

Water System Improvements Riverview Meadows Phase 3 Nehalem, Tillamook County, Oregon



Tax Lot 3600, Map 3N 10W 23B RIVERVIEW MEADOWS PHASE 3 Nehalem, Tillamook County Oregon



RIVERVIEW MEADOWS TRAFFIC IMPACT STUDY

TILLAMOOK COUNTY, OREGON



PREPARED FOR:

Riverview Meadows, LLC

PREPARED BY:

Michael Ard, PE Ard Engineering

DATE:

October 7, 2022



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Conclusions	21
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EXECUTIVE SUMMARY

- 1. A residential development is proposed on the west side of Nehalem River Road near McDonald Road in Tillamook County, Oregon. The previously approved phase 1 development within the site consists of 20 homes on the subject property. This analysis addresses the potential transportation impacts resulting from adding 74 additional single-family homes in phases 2 and 3 of the development. The subject property currently takes access via River View Meadows Lane. With the proposed expansion, a second access is proposed which will intersect McDonald Road at an existing access driveway located approximately 900 feet south of McDonald Road.
- 2. Upon completion of proposed development, the subject property is projected to generate 52 new site trips during the morning peak hour, 70 trips during the evening peak hour, and 698 new daily site trips.
- 3. Based on the operational analysis, the study intersections currently operate acceptably and are projected to continue to operate acceptably under year 2025 traffic conditions either with or without the addition of site trips from the proposed development.
- 4. The most recent five years of crash history on Northfork Road showed no crashes at the study intersections. No significant safety hazards are evident based on the crash history.
- 5. Based on the detailed warrant analysis, no new traffic signals or turn lanes are recommended in conjunction with the proposed development.
- 6. Although intersection sight distances are limited by horizontal curves in the vicinity of the site access locations, a detailed analysis shows that the available sight distances are adequate to ensure safe operation of the area intersections, and the delays to through traffic that slows to avoid conflicts will be negligible. Accordingly, no sight distance improvements are necessary or recommended in conjunction with the proposed development.
- 7. Based on the analysis of River View Meadows Lane's road width and geometry, large vehicles may have difficulty navigating the roadway and require both travel lanes to negotiate the curves in the vicinity of Northfork Road. Very large trucks may also trailer off the roadway surface. However, the road width is sufficient to approximately 1,000 passenger vehicles per day despite the narrow width, similar to the capacity of a residential queuing street. The projected future traffic volumes on this roadway are within this effective roadway capacity. Planned monumentation and improvements to the new south site access roadway may help further reduce traffic volumes on River View Meadows Lane. It is recommended that large trucks be directed to use the new south site access roadway.



PROJECT DESCRIPTION & LOCATION

INTRODUCTION

A residential development is proposed on the west side of Nehalem River Road near McDonald Road in Tillamook County, Oregon.

The previously approved phase 1 development within the site consists of 20 homes on the subject property. Under the current proposal, 74 additional single-family homes would be constructed as part of phases 2 and 3 of the development.

The subject property currently takes access via River View Meadows Lane. With the proposed expansion, a second access is proposed which will intersect McDonald Road at an existing access driveway located approximately 900 feet south of McDonald Road.

This report addresses the impacts of the proposed development on the surrounding street system. The purpose of this analysis is to determine whether the surrounding transportation system is capable of safely and efficiently supporting the proposed use and to identify any necessary improvements and mitigations.

SITE LOCATION AND STUDY AREA DESCRIPTION

The subject property is surrounded by existing residential and agricultural land uses. Phase 1 development is currently underway within the site and will conclude with completion of the 20 previously approved homes within the phase limits.

Northfork Nehalem River Road has a two-lane cross-section with one through lane in each direction. It has a posted speed limit of 45 mph in the site vicinity; however, curve warning signs are also posted in the vicinity with recommended speeds of 25 to 30 mph for the curves.

McDonald Dike Road also has a two-lane cross-section with one through lane in each direction. It has a posted speed limit of 35 mph in the vicinity of Nehalem River Road.

River View Meadows Lane is a local street which provides access to the subject property and some surrounding parcels. It has a paved width of 18 feet in the vicinity of Nehalem River Road. The roadway is subject to Oregon's statutory residential speed limit of 25 mph.



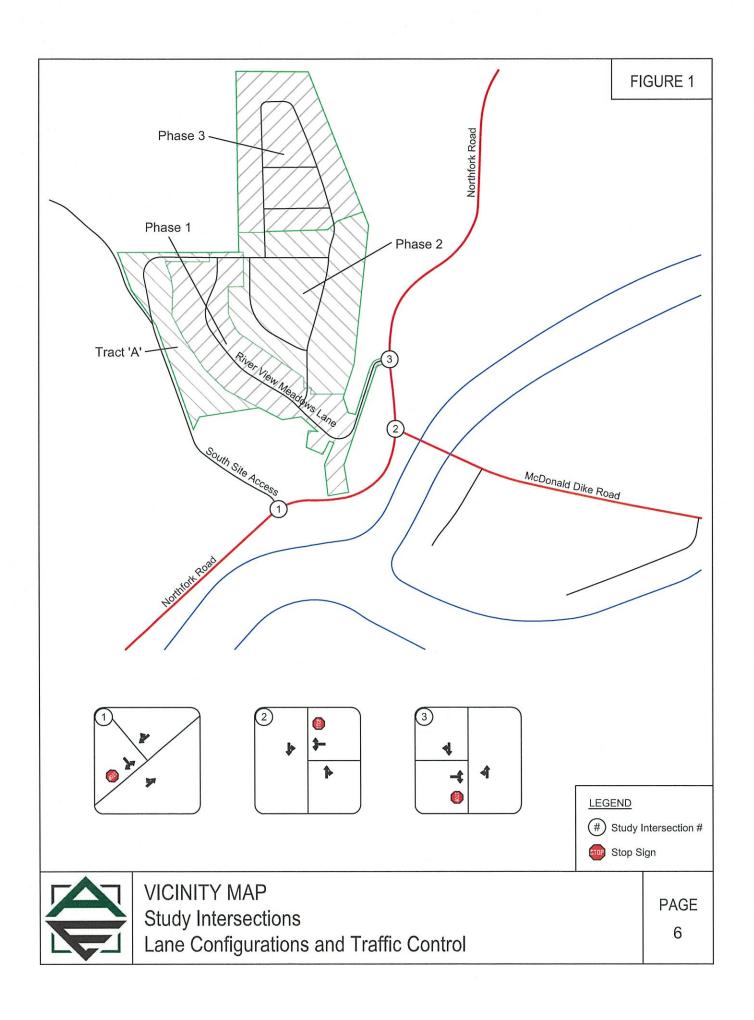
EXISTING CONDITIONS

The intersection of Northfork Nehalem River Road at River View Meadows Lane is a T-intersection controlled by a stop sign on the eastbound River View Meadows Lane approach. Each approach has a single, shared lane for all turning movements. Through traffic traveling along Northfork Road does not stop.

The intersection of Northfork Nehalem River Road at McDonald Dike Road is also a T-intersection. It is controlled by a stop sign on the westbound McDonald Road approach. Again, through traffic traveling along Northfork Road does not stop, and each approach has a single, shared lane for all turning movements.

The intersection of Northfork Nehalem River Road at the proposed south site access is a T-intersection controlled by a stop sign on the eastbound approach to Northfork Road. Through traffic on Northfork Road does not stop.

A vicinity map displaying the project site, vicinity streets, and the study intersections including lane configurations is provided in Figure 1 on page 6.

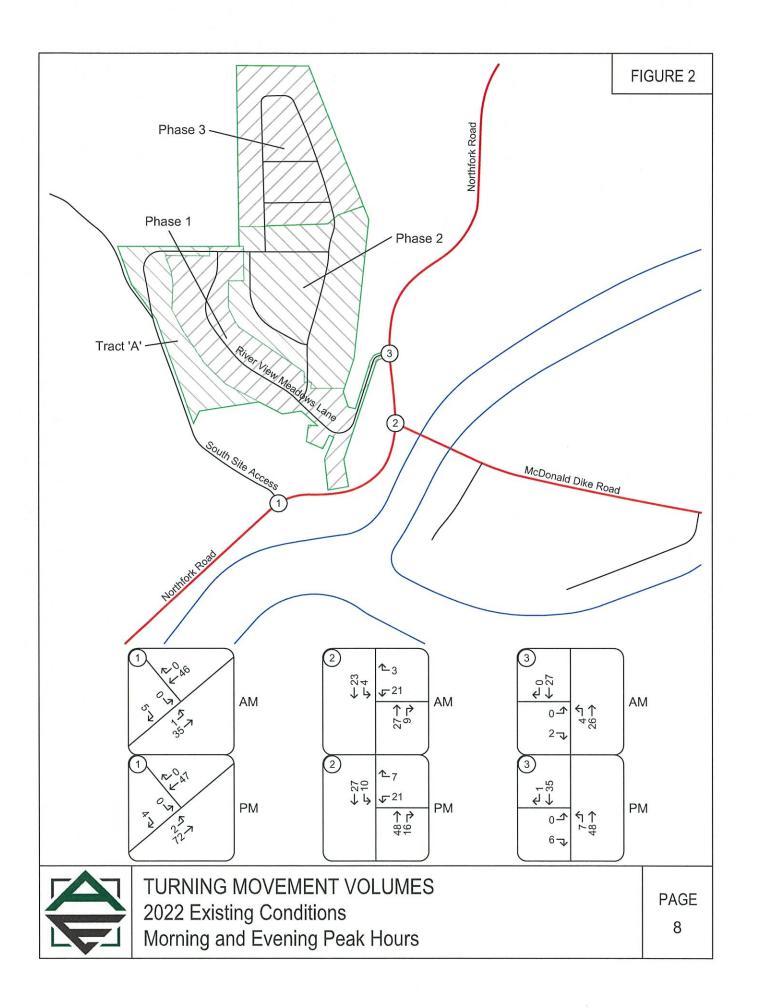




TRAFFIC COUNT DATA

Turning movement counts were conducted at the three study intersections from 4:00 to 6:00 PM on Tuesday August 9, 2022, and from 7:00 to 9:00 AM on Wednesday August 10, 2022. These count periods correspond to the typical morning and evening peak commute periods and are therefore used to represent traffic conditions typical of the study intersections.

Figure 2 on page 8 shows the existing year 2022 traffic volumes for the morning and evening peak hours at the study intersections.





OPERATIONAL ANALYSIS

An operational analysis was conducted for the study intersections using Synchro 10 software, with outputs calculated based on the *HIGHWAY CAPACITY MANUAL*, 6th Edition. The analysis was conducted for the weekday morning and evening peak hours.

The purpose of the existing conditions analysis is to establish how the study area intersections operate currently and allow for calibration of the operational analysis if required.

The results of the operational analysis are reported based on delay, Level of Service (LOS), and volume-to-capacity ratio (v/c). Delays are reported in seconds. Level of service is reported as a letter grade and can range from A to F, with level of service A representing nearly free-flow conditions and level of service F representing high delays and severe congestion. A report of level of service D generally indicates moderately high but tolerable delays, and typically occurs prior to reaching intersection capacity. For unsignalized intersections, the v/c represents the portion of the available intersection capacity that is being utilized on the worst intersection approach. A v/c ratio of 1.0 would indicate that the approach is operating at capacity.

A summary of the existing conditions operational analysis is provided in Table 1 below. The reported delays and levels-of-service represent the approach lane which experiences the highest delays, while the reported v/c ratios represent the highest ratio for the major-street and minor-street movements.

Based on the analysis, the study intersections are currently operating acceptably. Detailed capacity analysis worksheets are provided in the technical appendix.

Table 1 - Operational Analysis Summary: 2022 Existing Peak Hour Conditions

Intersection	Д	M Peak H	our	Р	M Peak Ho	our
Intersection	Delay	LOS	v/c	Delay	LOS	v/c
Northfork Rd at West Site Access	8.9	А	0.01	8.6	А	0.01
Northfork Rd at McDonald Dike Rd	9.1	А	0.03	9.1	Α	0.03
Northfork Rd at Riverview Meadows Ln	8.7	А	0.01	8.5	Α	0.01



SITE TRIPS

Proposed Development

The proposed new development will consist of 74 additional single-family homes. To estimate the number of trips that will be generated by the proposed development, trip rates from the *TRIP GENERATION MANUAL*, 10th EDITION were used. Data from land-use code 210, Single-Family Detached Housing, were used. The trip estimates are based on the number of dwelling units.

A summary of the trip generation calculations is provided in Table 2 below. A detailed trip generation worksheet is also included in the technical appendix.

Table 2 - Proposed Development Trip Generation Summary

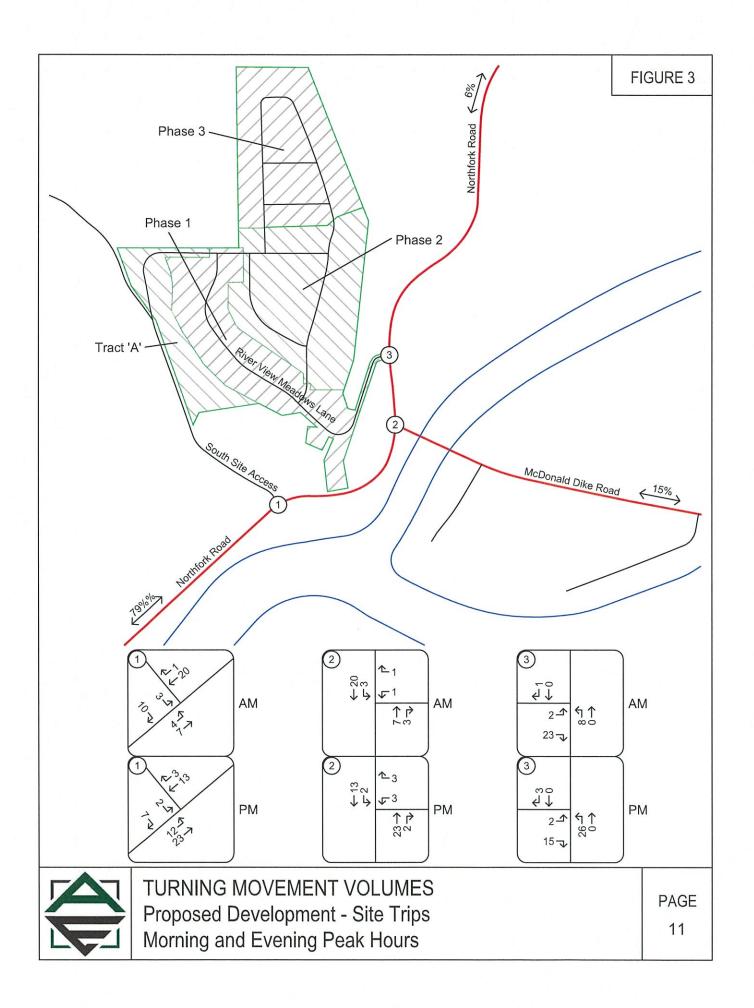
	AI	И Peak H	our	PN	Л Peak Ho	our	Daily
	In	Out	Total	In	Out	Total	Total
74 Single-Family Homes	14	38	52	44	26	70	698

TRIP DISTRIBUTION

The directional distribution of site trips to and from the project site was estimated based the existing travel patterns in the site vicinity, as well as the locations of likely trip destinations and major transportation routes. Overall, 79 percent of the anticipated site trips are projected to travel to and from the south on Northfork Nehalem River Road, 15 percent are projected to travel to and from the east on McDonald Dike Road, and 6 percent are projected to travel to and from the north on Northfork Nehalem River Road.

Based on the layout of the site and the alignments of the respective access roads, it is expected that approximately two thirds of future site trips will utilize the existing River View Meadows Lane alignment to access the site. A more detailed discussion of traffic volumes and operations on this access roadway is provided in the safety analysis section of this report on page 19.

The trip distribution percentages and trip assignment for the proposed development are shown in Figure 3 on page 11.





FUTURE CONDITIONS ANALYSIS

BACKGROUND VOLUMES

In order to determine the expected impact of site trips on the study area intersections, it is necessary to compare traffic conditions both with and without the addition of the projected traffic from the proposed development. Since the proposed use cannot be constructed and occupied immediately, the comparison is made for future traffic conditions at the time of project completion. It is anticipated that the proposed use will be completed and occupied by 2025. Accordingly, the analysis was conducted for year 2025 traffic conditions.

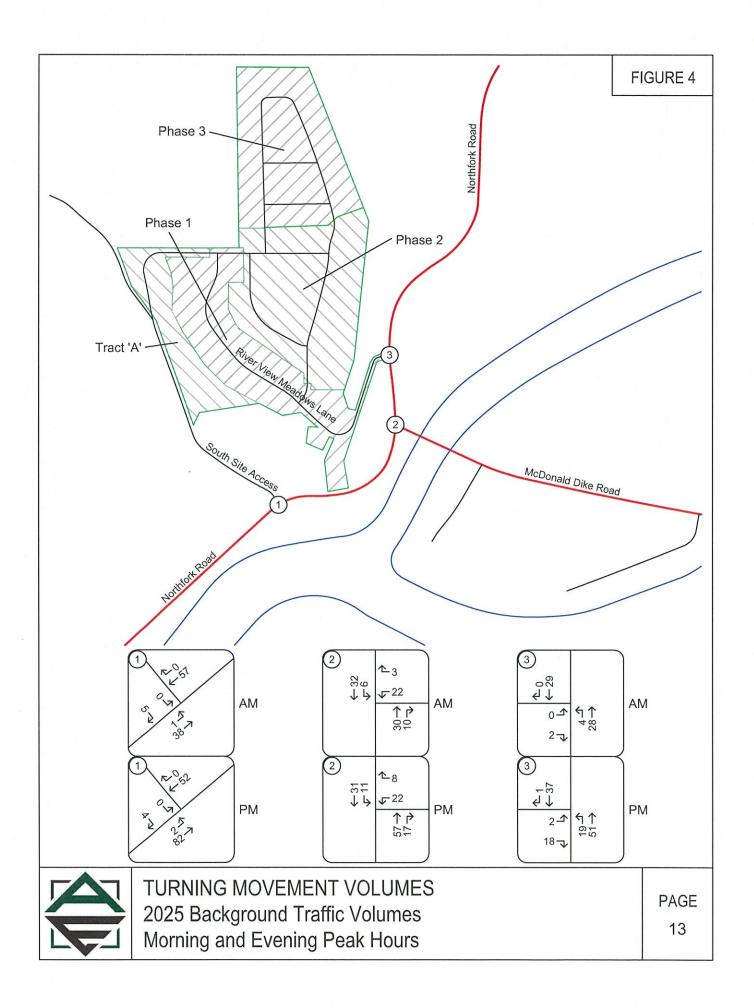
Some general traffic growth is expected to occur in the vicinity as a result of development outside the project area that nevertheless travels through the site vicinity while moving to and from farther destinations. To account for this background growth, the observed year 2022 traffic volumes were increased by 2 percent per year over a period of three years to estimate the year 2025 traffic volumes.

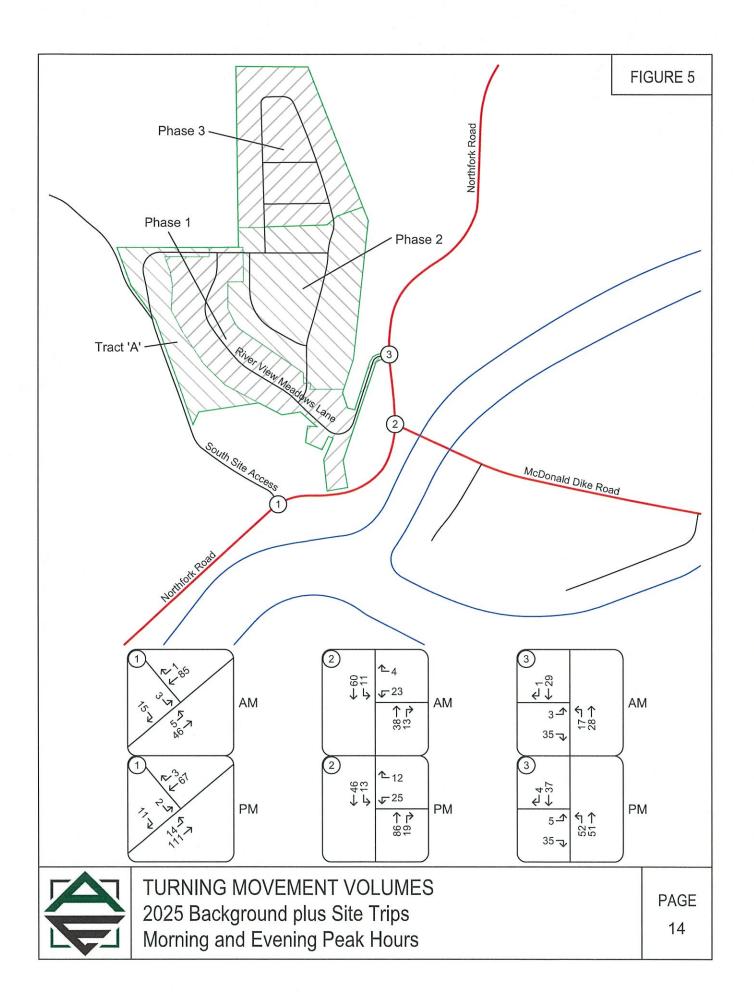
In addition to anticipated growth in the area, it was noted that the phase 1 development is not yet complete within the existing approved subdivision. Accordingly, the expected future site trips associated with completion of the current subdivision were also added to the background traffic volumes. These added "in-process" trips are shown in Figure 6 in the attached technical appendix.

Figure 4 on page 13 shows the projected year 2025 background traffic volumes at the study intersections during the morning and evening peak hours.

BACKGROUND VOLUMES PLUS SITE TRIPS

Peak hour trips calculated to be generated by the proposed development were added to the projected year 2023 background traffic volumes to obtain the year 2023 total traffic volumes following completion of the proposed residential development. The resulting total traffic volumes are shown in figure 5 on page 14.







OPERATIONAL ANALYSIS

The operational analysis for future traffic conditions was again conducted using Synchro analysis software, with outputs based on the analysis methodologies contained in the *HIGHWAY CAPACITY MANUAL*, 6th Edition. The analysis was prepared for the intersections' morning and evening peak hours.

The results of the operational analysis are summarized in Table 3 below. Detailed analysis worksheets are also included in the technical appendix.

Table 3 - Operational Analysis Summary: Year 2023 Future Conditions

Intersection	AN	1 Peak H	our	PN	1 Peak Ho	our
Intersection	Delay	LOS	v/c	Delay	LOS	v/c
Northfork Rd at South Site Access						
2025 Background Conditions	8.9	Α	0.01	8.6	Α	0.01
2025 Background plus Site	9.3	Α	0.02	8.9	Α	0.02
Northfork Rd at McDonald Dike Rd						
2025 Background Conditions	9.2	Α	0.03	9.2	Α	0.04
2025 Background Plus Site	9.5	Α	0.04	9.5	Α	0.05
Northfork Rd at Riverview Meadows Ln						
2025 Background Conditions	8.7	Α	0.01	8.7	Α	0.03
2025 Background plus Site	8.9	Α	0.05	8.9	Α	0.05

Based on the results of the operational analysis, the study intersections are projected to operate acceptably either with or without the addition of site trips from the proposed development. No operational mitigations are necessary or recommended in conjunction with the proposed development.



SAFETY ANALYSIS

CRASH DATA ANALYSIS

Using data obtained from the Oregon Department of Transportation, a review of the five most recent years of available crash history (from January 2016 through December 2020) was performed. The crash data showed a total of five crashes along Northfork Road during the five-year analysis period. These included four fixed-object (run-off-road) collisions and one animal collision. None of the reported crashes were intersection-related, and none occurred at the study area intersections.

Based on the crash data, no significant existing safety hazards were identified in the site vicinity.

WARRANT ANALYSIS

Traffic signal and turn-lane warrants were examined for the study intersections.

Based on the projected side-street traffic volumes, traffic signal warrants are not projected to be met at any of the unsignalized study intersections under any of the analysis scenarios. Additionally, the intersections are projected to operate at level of service "A" through project completion while retaining the existing stop control. Accordingly, no new traffic signals are recommended in conjunction with the proposed development.

Left-turn lane warrants were examined for the major-street approaches to the unsignalized study intersections. Left-turn lane warrants are intended to evaluate whether a meaningful safety benefit may be expected if the turning vehicles are provided with turn lane within the street, allowing left-turning drivers to move out of the through travel lane so that following vehicles may pass without conflicts. The left-turn lane warrant analysis methodology utilizes the number of travel lanes in conjunction with the volume of advancing and opposing traffic to determine the minimum number of left-turning vehicles which would result in a meaningful safety benefit.

Based on the analysis, even when conservatively using the posted 45 mph speed limit for design rather than the lower actual traffic speeds which are limited by horizontal curves in the site vicinity, the projected turning movement volumes at the time of project completion are too low to warrant installation of left-turn lanes at the study area intersections.

Right-turn lane warrants were also examined for the major-street approaches to the unsignalized study intersections. Right-turn lanes reduce the likelihood of rear-end collisions as vehicles slow or stop to turn right from a free-flowing through travel lane.

Again, based on the analysis and conservatively using the posted 45 mph speed limit for design, the projected turning movement volumes at the time of project completion are too low to warrant installation of dedicated right-turn lanes at the study area intersections.

Based on the detailed warrant analysis, no new traffic signals or turn lanes are recommended in conjunction with the proposed development.



INTERSECTION SIGHT DISTANCE

Based on the posted speed limit of 45 mph on Northfork Nehalem River Road, a minimum of 500 feet of intersection sight distance is generally desired in each direction for each point of access. However, horizontal curves in the site vicinity limit both the available sight lines and the approach speeds of vehicles at the limits of sight distance. Because sight lines are generally less than 500 feet, a detailed discussion and analysis of actual approach speeds and sight distances is appropriate.

In accordance with the procedures described in *A Policy on Geometric Design of Highways and Streets*, published by the American Association of State Highway and Transportation Officials, intersection sight distance was measured from a driver's eye position within the minor street approach 14.5 feet behind the edge of the traveled way and 3.5 feet above the driveway surface. The available intersection sight distances in each direction were measured to the oncoming driver's eye position within the oncoming travel lane 3.5 feet above the roadway surface.

At the proposed south site access location on Northfork Road, intersection sight distance was measured to be well in excess of 500 feet to the south and 451 feet to the north. The available intersection sight distance to the north was limited by vegetation and an embankment within the inside of a horizontal curve.

Speed data was collected for vehicles approaching the proposed south site access location along Northfork Road to determine an appropriate design speed. Typically, the 85th percentile speed is used for design. This is the speed at or below which 85 percent of drivers were travelling. It is generally assumed that 85 percent of drivers travel at a "reasonable and prudent" speed, and that enforcement should be used to encourage better driving habits among the 15 percent of fastest drivers. For this location, the 85th percentile speed was determined to be 39 mph, resulting in a desired intersection sight distance of 430 feet. Since the available intersection sight distance is in excess of this minimum, the proposed south site access is projected to operate safely and efficiently.

For the existing site access on River View Meadows Lane, the available intersection sight distance was measured to be 428 feet to the north and 378 feet to the south. Again, these distances were less than the 500 feet of sight distance desired for a design speed of 45 mph, and again speed data was collected to determine an appropriate design speed.

For the southbound Northfork Road approach to River View Meadows Lane, the 85th percentile speed was determined to be 41 mph. Based on this design speed, the desired intersection sight distance was calculated to be 452 feet. In this instance, the available intersection sight distance was less than the desired intersection sight distance.

For the northbound Northfork Road approach to River View Meadows Lane, the 85th percentile speed was determined to be 40 mph. Based on this design speed, the desired intersection sight distance was calculated to be 441 feet. Again, the available intersection sight distance was less than the desired intersection sight distance.

Since sight lines at the existing site access on River View Meadows Lane are less than the full desired sight lines, a detailed operational and safety analysis was undertaken to determine what impacts might be expected as a result of the limited sight lines at the intersection.



According to "A Policy on Geometric Design of Highways and Streets" published by the American Association of State Highway and Transportation Officials,

"Stopping sight distance is providing continuously along each roadway so that drivers have a view of the roadway ahead that is sufficient to allow drivers to stop. The provision of stopping sight distance at all locations along each roadway, including intersection approaches, is fundamental to intersection operation." (p. 9-35)

It further states,

"If the available sight distance for an entering or crossing vehicle is at least equal to the appropriate stopping sight distance for the major road, then drivers have sufficient sight distance to anticipate and avoid collisions. However, in some cases, a major-road vehicle may need to slow or stop to accommodate the maneuver by a minor-road vehicle. To enhance traffic operations, intersection sight distances that exceed stopping sight distances are desirable along the major road." (p. 9-35)

Since the minimum intersection sight distance needed for safety is based on stopping sight distance, the measured design speeds were used to calculate the required stopping sight distance for each approach direction. For southbound traffic approaching River View Meadows Lane, the 41-mph 85th percentile design speed requires a minimum of 315 feet of stopping sight distance. Since the actual intersection sight distance available is 428 feet to the north, the available sight distance is adequate for safe operation of the intersection. Similarly, for northbound traffic approaching River View Meadows Lane, the 40-mph 85th percentile design speed requires a minimum of 305 feet of stopping sight distance. Since the actual intersection sight distance available is 378 feet to the north, the available sight distance is again adequate for safe operation of the intersection.

Having determined that the intersection can operate safely, albeit with some potential for interruptions to the flow of through traffic along Northfork Road, it is appropriate to determine the likely impacts on operation if the intersection continues to operate with limited sight distances in each direction.

Induced delays to through traffic would occur when a driver turns from River View Meadows Lane onto Northfork Road while an approaching vehicle is closer than the desired intersection stopping sight distance, but farther than the available sight distance. The amount of delay to through traffic can be calculated as the time required to traverse the distance between the desired intersection sight distance and the actual location of the approaching vehicle. Since the maximum such distance is 63 feet traversed at a speed of 40 mph, the maximum induced delay would be 1.07 seconds per vehicle when a conflict occurs.

Based on the volume of traffic entering Northfork Road from River View Meadows Lane as well as the traffic volumes on Northfork Road, the expected total induced delay per day would be approximately 3 seconds per day. The total induced delays are very low because the amount of induced delay per vehicle is low (between 0.0 and 1.07 seconds) and because the odds of a conflict occurring with a vehicle just beyond the limits of the available sight distance are also low



(approximately 1.5 percent of exiting vehicles would be expected to turn onto Northfork Road while a vehicle is approaching and may be subject to delay.

Based on the negligible calculated induced delays of 3 seconds per day, any requirement for mitigation for the limited sight distance would be expected to result in costs exceeding the resulting benefits. Accordingly, the available intersection sight distance is adequate for the River View Meadows Lane approach to Northfork Road and no operational or safety mitigations are recommended.

RIVER VIEW MEADOWS LANE - ROADWAY GEOMETRY

In addition to examination of sight distance for the intersection of Northfork Nehalem River Road at River View Meadows Lane, the roadway geometry was evaluated to determine how the narrow cross-section and steep grades may impact operation and capacity of the roadway and intersection.

River View Meadows Lane has an initial width of approximately 20 feet in the immediate vicinity of Northfork Road; however, it narrows to a width of approximately 18 feet as it extends up the hill. Roadway grades on River View Meadows Lane were measured to be up to 17 percent in the immediate vicinity of the intersection.

A 20-foot width is commonly used as a minimum width for roadways, primarily in response to fire code requirements. Although a roadway can function with lesser width, the carrying capacity of the roadway is reduced both for passenger cars and for larger vehicles.

In particular, tractor-trailer vehicles and large trucks may have difficulty navigating the roadway and are likely to need to cross the roadway centerline on curves. Based on an AutoTurn analysis, large interstate trucks (WB-67) would not be expected to be able to stay within the paved roadway width even when taking both travel lanes. These vehicles would be expected to trailer outside the road surface, crossing through the area where a stop sign is located. Evidence that such trailering has previously occurred was present at the intersection upon our site visit, since the stop sign post was snapped off and a temporary stop sign on an A-frame stand was deployed at the intersection.

An analysis of other vehicle types also demonstrated that:

- 1) WB-40 tractor-trailer trucks, SU-40 single-unit trucks, garbage trucks and fire apparatus can stay within the paved road surface area, but require the full width of River View Meadows Lane for maneuvering in the vicinity of Northfork Road;
- 2) The roadway width can accommodate continuous two-way travel of passenger vehicles provided that the drivers pull to the side and drive slowly.

Diagrams showing the swept path of these vehicles are included in the technical appendix.

It should be noted that due to the narrow width of the roadway, it is expected to function in a manner similar to a residential queuing street. These streets generally have a width of up to 28 feet but are narrowed by on-street parking on one or both sides. Where drivers must pass parked vehicles, the roadway only has sufficient width for one travel direction at a time, so drivers must proceed with caution and yield to oncoming traffic. Although passenger vehicles can continuously travel in both



directions, the narrow width of this roadway may require similar slowing and yielding behavior at times. Accordingly, the carrying capacity of this roadway is expected to be similar to that of a residential queuing street, at approximately 1,000 vehicles per day. With completion of the proposed development, it is projected that the roadway will carry approximately 870 vehicles per day, which is within the capacity of the roadway.

It is anticipated that the new south access roadway will be constructed in a manner intended to attract site trips in lieu of River View Meadows Lane through the use of monumentation signage and a wider, more accommodating road design. This may reduce the traffic levels on River View Meadows Lane. Regardless, larger trucks should be directed to use the new south site access roadway.



CONCLUSIONS

Based on the operational analysis, the study intersections currently operate acceptably and are projected to continue to operate acceptably under year 2025 traffic conditions either with or without the addition of site trips from the proposed development.

The most recent five years of crash history on Northfork Road showed no crashes at the study intersections. No significant safety hazards are evident based on the crash history.

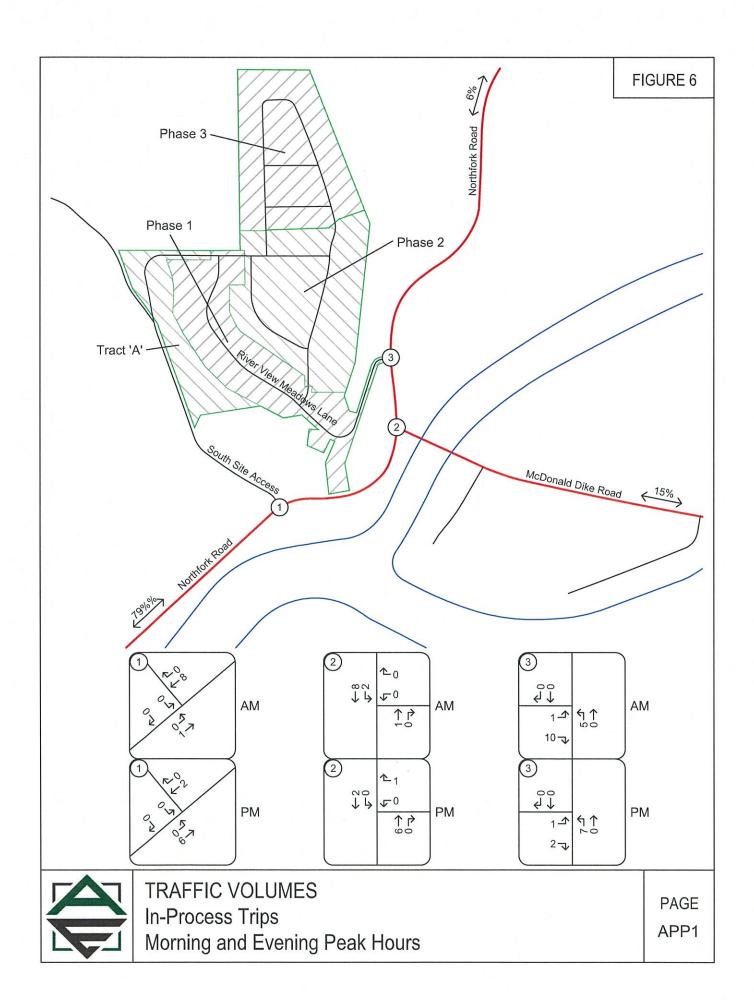
Based on the detailed warrant analysis, no new traffic signals or turn lanes are recommended in conjunction with the proposed development.

Although intersection sight distances are limited by horizontal curves in the vicinity of the site access locations, a detailed analysis shows that the available sight distances are adequate to ensure safe operation of the area intersections, and the delays to through traffic that slows to avoid conflicts will be negligible. Accordingly, no sight distance improvements are necessary or recommended in conjunction with the proposed development.

Based on the analysis of River View Meadows Lane's road width and geometry, large vehicles may have difficulty navigating the roadway and require both travel lanes to negotiate the curves in the vicinity of Northfork Road. Very large trucks may also trailer off the roadway surface. However, the road width is sufficient to approximately 1,000 passenger vehicles per day despite the narrow width, similar to the capacity of a residential queuing street. The projected future traffic volumes on this roadway are within this effective roadway capacity. Planned monumentation and improvements to the new south site access roadway may help further reduce traffic volumes on River View Meadows Lane. It is recommended that large trucks be directed to use the new south site access roadway.



APPENDIX



Ard Engineering, LLC

Intersection:

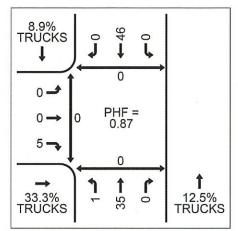
Nehalem River Road at Proposed South Access

Date:

8/10/2022

Time: 7:00 AM to 9:00 AM

Weather: Overcast





PEAK HOUR DIAGRAM: 8:00 - 9:00 AM

Count Data: 5-Minute Intervals

Ct t Ti	North	bound Ne	halem Ri	ver Rd	South	bound Ne	halem Ri	iver Rd	Easth	ound So	uth Site A	ccess	West	bound So	uth Site	Access	Interval
Start Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:05 AM	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
7:10 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
7:15 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
7:20 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:25 AM	1	2	0	0	0	11	0	0	0	0	0	0	0	0	0	0	14
7:30 AM	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
7:35 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:40 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	7
7:50 AM	1	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	8
7:55 AM	0	2	0	0	0	3	1	0	1	0	0	0	0	0	0	0	7
8:00 AM	0	8	0	0	0	2	0	0	0	0	0	0	0	0	0	0	10
8:05 AM	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
8:10 AM	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6
8:15 AM	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
8:20 AM	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	6
8:25 AM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	7
8:35 AM	1	3	0	0	0	4	0	0	0	0	1	0	0	0	0	0	9
8:40 AM	0	3	0	0	0	2	0	0	0	0	1	0	0	0	0	0	6
8:45 AM	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6
8:50 AM	0	6	0	0	0	5	0	0	0	0	1	0	0	0	0	0	12
8:55 AM	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	7
Total	4	52	0	0	0	78	1	0	1	0	5	0	0	0	0	0	141

ı	P	edestrian	Crossin	gs		
ı	North	South	East	West		
1	0	0	0	0		
	0	0	0	0		
1	0	0	0	0		
ı	0	0	0	0		
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	0	0	0	0		

Peak Hour Summary:

8:00-9:00 AM

	North	bound Ne	ehalem R	iver Rd	South	outhbound Nehalem River Rd				oound So	uth Site A	Access	West	Access	Interva		
	L	T	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	Total
Peak Hour	1	35	0	0	0	46	0	0	0	0	5	0	0	0	0	0	87
% Trucks		12	.5%			8.	9%			33	.3%			#DI	V/0!		

TALON CONTRACT	Pedes	trians	
North	South	East	West
0	0	0	0

Ard Engineering, LLC

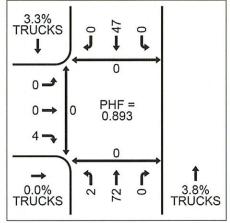
Intersection:

Nehalem River Road at Proposed South Access

Date: 8/9/2022

Time: 4:00 PM to 6:00 PM

Weather: Clear and Dry





PEAK HOUR DIAGRAM: 4:25 - 5:25 PM

Count Data: 5-Minute Intervals

Start Time	North	bound Ne	halem Ri	ver Rd	South	bound Ne	halem Ri	ver Rd	Easth	ound So	uth Site A	ccess	West	bound So	uth Site A	Access	Interval
Start Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
4:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	8
4:05 PM	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6
4:10 PM	1	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	6
4:20 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	10
4:25 PM	0	10	0	0	0	5	0	0	0	0	1	0	0	0	0	0	16
4:30 PM	0	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	7
4:35 PM	0	2	0	0	0	6	0	0	0	0	0	0	0	0	0	0	8
4:40 PM	0	8	0	0	0	7	0	0	0	0	1	0	0	0	0	0	16
4:45 PM	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	8
4:50 PM	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	8
4:55 PM	0	2	0	0	0	3	0	1	0	0	0	0	0	0	0	0	5
5:00 PM	0	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	11
5:05 PM	1	8	0	0	0	2	0	0	0	0	0	0	0	0	0	0	11
5:10 PM	1	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0	10
5:15 PM	0	7	0	0	0	4	0	0	0	0	1	0	0	0	0	0	12
5:20 PM	0	8	0	0	0	4	0	0	0	0	1	0	0	0	0	0	13
5:25 PM	0	7	0	0	0	3	0	0	0	0	0	0	0	0	0	0	10
5:30 PM	0	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	7
5:35 PM	0	6	0	0	0	4	0	0	0	0	1	0	0	0	0	0	11
5:40 PM	0	6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	9
5:45 PM	1	9	0	0	0	5	0	0	0	0	0	0	0	0	0	0	15
5:50 PM	0	6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	9
5:55 PM	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5
Total	4	127	0	0	0	91	0	1	0	0	5	0	0	0	0	0	227

Р	edestrian	Crossin	gs
North	South	East	West
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Peak Hour Summary: 4:25-5:25 PM

r cak mour	Julillill	ary.	4.25-5.	23 1 101		- 1111	0.055										
	North	bound No	ehalem R	iver Rd	South	Southbound Nehalem River Rd				oound So	uth Site A	Access	West	bound So	uth Site	Access	Interval
	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
Peak Hour	2	72	0	0	0	47	0	1	0	0	4	0	0	0	0	0	125
% Trucks		3.	8%			3.	3%			0.	0%			#DI	V/0!		

	Pedes	trians	
North	South	East	West
0	0	0	0

Ard Engineering, LLC

Intersection:

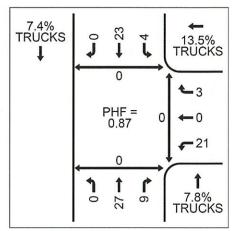
Nehalem River Road at McDonald Road

Date:

8/10/2022

Time: 7:00 AM to 9:00 AM

Weather: Overcast





PEAK HOUR DIAGRAM: 8:00 - 9:00 AM

Count Data: 5-Minute Intervals

Start Time	North	bound Ne	ehalem Ri	iver Rd	South	bound Ne	halem R	iver Rd	East	bound M	cDonald I	Road	Wes	tbound M	lcDonald	Road	Interval	P	edestriar	Crossin
Start Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:05 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	4	0	0	0
7:10 AM	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0
7:15 AM	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0
7:20 AM	0	2	0	0	1	1	0	0	0	0	0	0	0	0	1	0	5	0	0	0
7:25 AM	0	1	0	0	0	10	0	0	0	0	0	0	1	0	0	0	12	0	0	0
7:30 AM	0	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	5	0	0	0
7:35 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
7:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
7:45 AM	0	2	1	0	0	3	0	0	0	0	0	0	1	0	0	0	7	0	0	0
7:50 AM	0	3	0	0	0	1	0	0	0	0	0	0	2	0	0	0	6	0	0	0
7:55 AM	0	2	0	0	0	3	0	0	0	0	0	0	1	0	0	0	6	0	0	0
8:00 AM	0	4	1	0	1	1	0	0	0	0	0	0	2	0	0	0	9	0	0	0
8:05 AM	0	3	0	0	0	2	0	0	0	0	0	0	6	0	0	0	11	0	0	0
8:10 AM	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	4	0	0	0
8:15 AM	0	5	1	0	0	0	0	0	0	0	0	0	1	0	0	0	7	0	0	0
8:20 AM	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	4	0	0	0
8:25 AM	0	2	1	0	1	2	0	0	0	0	0	0	1	0	0	0	7	0	0	0
8:30 AM	0	1	1	0	1	3	0	0	0	0	0	0	2	0	0	0	8	0	0	0
8:35 AM	0	2	1	0	0	3	0	0	0	0	0	0	1	0	0	0	7	0	0	0
8:40 AM	0	2	1	0	0	1	0	0	0	0	0	0	1	0	0	0	5	0	0	0
8:45 AM	0	1	0	0	0	1	0	0	0	0	0	0	2	0	1	0	5	0	0	0
8:50 AM	0	5	2	0	0	4	0	0	0	0	0	0	2	0	0	0	13	0	0	0
8:55 AM	0	1	1	0	1	3	0	0	0	0	0	0	0	0	1	0	7	0	0	0
Total	0	39	12	0	7	47	0	0	0	0	0	0	31	0	6	0	142	0	0	0

al	P	edestriar	Crossin	gs
	North	South	East	West
7	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
2	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0

Peak Hour Summary:

8:00-9:00 AM

	North	bound Ne	halem R	iver Rd	South	bound No	ehalem R	iver Rd	East	bound M	cDonald	Road	Wes	tbound N	lcDonald	Road	Interval
	L	T	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	Total
Peak Hour	0	27	9	0	4	23	0	0	0	0	0	0	21	0	3	0	87
% Trucks		7.	8%			7.	4%			#DI	V/0!			13	.5%		

	Pedes	trians	
North	South	East	West
0	0	0	0

Ard Engineering, LLC

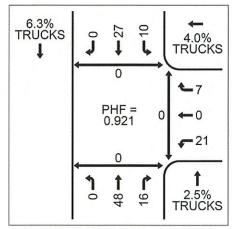
Intersection:

Nehalem River Road at McDonald Road

Date: 8/9/2022

Time: 4:00 PM to 6:00 PM

Weather: Clear and Dry





PEAK HOUR DIAGRAM: 4:20 - 5:20 PM

Count Data: 5-Minute Intervals

Start Time	North	bound Ne	halem Ri	ver Rd	South	bound Ne	halem Ri	ver Rd	East	bound M	cDonald	Road	Wes	tbound M	1cDonald	Road	Interval
Start Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
4:00 PM	0	1	2	0	0	1	0	0	0	0	0	0	2	0	1	0	7
4:05 PM	0	1	4	0	1	1	0	0	0	0	0	0	0	0	1	0	8
4:10 PM	0	2	1	0	0	1	0	0	0	0	0	0	1	0	0	0	5
4:15 PM	0	1	0	0	0	2	0	0	0	0	0	0	4	0	1	0	8
4:20 PM	0	4	1	0	1	4	0	0	0	0	0	0	3	0	1	0	14
4:25 PM	0	5	2	0	1	1	0	0	0	0	0	0	3	0	0	0	12
4:30 PM	0	3	1	0	0	1	0	0	0	0	0	0	1	0	1	0	7
4:35 PM	0	2	0	0	0	1	0	0	0	0	0	0	4	0	1	0	8
4:40 PM	0	4	3	0	1	4	0	0	0	0	0	0	3	0	1	0	16
4:45 PM	0	3	1	0	1	1	0	0	0	0	0	0	2	0	0	0	8
4:50 PM	0	4	1	0	2	1	0	0	0	0	0	0	1	0	2	0	11
4:55 PM	0	1	0	0	1	3	0	1	0	0	0	0	0	0	1	0	6
5:00 PM	0	6	1	0	2	3	0	0	0	0	0	0	1	0	0	0	13
5:05 PM	0	5	2	0	0	1	0	0	0	0	0	0	1	0	0	0	9
5:10 PM	0	4	4	0	1	2	0	0	0	0	0	0	0	0	0	0	11
5:15 PM	0	7	0	0	0	5	0	0	0	0	0	0	2	0	0	0	14
5:20 PM	0	5	1	0	1	3	0	0	0	0	0	0	0	0	0	0	10
5:25 PM	0	6	2	0	0	2	0	0	0	0	0	0	1	0	1	0	12
5:30 PM	0	1	0	0	1	5	0	0	0	0	0	0	1	0	0	0	8
5:35 PM	0	3	1	0	1	0	0	0	0	0	0	0	1	0	1	0	7
5:40 PM	0	2	3	0	0	2	0	0	0	0	0	0	2	0	1	0	10
5:45 PM	0	4	4	0	0	1	0	0	0	0	0	0	3	0	0	0	12
5:50 PM	0	3	4	0	1	4	0	0	0	0	0	0	0	0	0	0	12
5:55 PM	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	4
Total	0	78	40	0	15	49	0	1	0	0	0	0	37	0	13	0	232

	P	edestrian	Crossin	gs
	North	South	East	West
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
i	0	0	0	0

Peak Hour Summary:

4:20-5:20 PM

	North	bound Ne	ehalem R	iver Rd	South	bound No	ehalem Ri	ver Rd	East	bound M	cDonald	Road	Wes	tbound N	1cDonald	Road	Interval
	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	Total
Peak Hour	0	48	16	0	10	27	0	1	0	0	0	0	21	0	7	0	129
% Trucks		2.	5%			6.	3%			0.	0%			4.	0%		

	Pedes	trians	
North	South	East	West
0	0	0	0

Ard Engineering, LLC

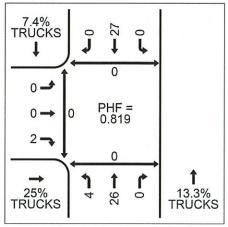
Intersection:

Nehalem River Road at River View Meadows Lane

Date: 8/10/2022

Time: 7:00 AM to 9:00 AM

Weather: Overcast





PEAK HOUR DIAGRAM: 8:00 - 9:00 AM

Count Data: 5-Minute Intervals

Start Time	North	bound Ne	ehalem Ri	ver Rd	South	bound Ne	ehalem Ri	ver Rd	Eastbou	nd River	View Mea	dows Ln	westo	ouna Kive	r view ivi	eadows	Interval	P	edestriar	Crossin	gs
Start Tille	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total	North	South	East	West
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:05 AM	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
7:10 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	1	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	5	0	0	0	0
7:20 AM	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
7:25 AM	0	1	0	0	0	10	0	0	0	0	1	0	0	0	0	0	12	0	0	0	0
7:30 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
7:35 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
7:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
7:50 AM	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
7:55 AM	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
8:00 AM	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
8:05 AM	1	2	0	0	0	2	0	0	0	0	1	0	0	0	0	0	6	0	0	0	0
8:10 AM	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
8:15 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
8:20 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
8:25 AM	1	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
8:30 AM	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
8:35 AM	0	2	0	0	0	3	0	0	0	0	1	0	0	0	0	0	6	0	0	0	0
8:40 AM	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
8:45 AM	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
8:50 AM	1	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
8:55 AM	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
Total	8	37	0	0	0	54	0	0	1	0	3	0	0	0	0	0	103	0	0	0	0

Peak Hour Summary:

8:00-9:00 AM

	North	bound Ne	halem R	iver Rd	South	bound No	ehalem R	iver Rd	Eastbou	nd River	View Mea	dows Ln	Westbo	ound Rive	r View M	eadows	Interval
	L	Т	R	Bikes	L	Т	R	Bikes	L	T	R	Bikes	L	Т	R	Bikes	Total
Peak Hour	4	26	0	0	0	27	0	0	0	0	2	0	0	0	0	0	59
% Trucks		13.	3%			7.	4%			25	.0%			#DI	V/0!		

	Pedes	trians	
North	South	East	West
0	0	0	0

Ard Engineering, LLC

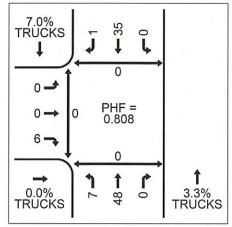
Intersection: Nehalem Riv

Nehalem River Road at River View Meadows Lane

Date: 8/9/2022

Time: 4:00 PM to 6:00 PM

Weather: Clear and Dry





PEAK HOUR DIAGRAM: 4:40 - 5:40 PM

Count Data: 5-Minute Intervals

Start Time	North	bound Ne	ehalem R	iver Rd	South	bound Ne	halem R	iver Rd	Eastbou	nd River	View Mea	dows Ln	Westbo	und River	View Me	adows Ln	Interval
Start Time	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
4:00 PM	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4
4:05 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
4:10 PM	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
4:15 PM	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
4:20 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	10
4:25 PM	1	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	7
4:30 PM	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
4:35 PM	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
4:40 PM	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	10
4:45 PM	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5
4:50 PM	1	5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	9
4:55 PM	0	2	0	0	0	4	1	1	0	0	0	0	0	0	0	0	7
5:00 PM	1	5	0	0	0	2	0	0	0	0	3	0	0	0	0	0	11
5:05 PM	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6
5:10 PM	0	4	0	0	0	2	0	0	0	0	1	0	0	0	0	0	7
5:15 PM	1	6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	12
5:20 PM	1	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	9
5:25 PM	1	6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	9
5:30 PM	0	1	0	0	0	4	0	0	0	0	2	0	0	0	0	0	7
5:35 PM	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
5:40 PM	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5
5:45 PM	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
5:50 PM	0	3	0	0	0	4	0	0	0	0	1	0	0	0	0	0	8
5:55 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	12	79	0	0	0	56	1	1	0	0	9	0	0	0	0	0	157

North	South	East	West
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Peak Hour Summary:

4:40-5:40 PM

	North	bound Ne	ehalem R	iver Rd	South	bound Ne	ehalem Ri	iver Rd	Eastbou	nd River\	/iew Mea	dows Ln	Westbo	und River	View Me	adows Ln	Interval
	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	L	Т	R	Bikes	Total
Peak Hour	7	48	0	0	0	35	1	1	0	0	6	0	0	0	0	0	93
% Trucks		3.:	3%			7.	0%			0.0	0%			#DI	V/0!		

	Pedes	trians	
North	South	East	West
0	0	0	0

1: Northfork Road & South Site Access

Intersection			No.	Selfated.		
Int Delay, s/veh	0.6	TO ASSESSED AND ADDRESS OF	Water Street, or		and the same of the	and the second particular
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W.	LUIN	NDL	4	1 ₀₀	ODIT
Traffic Vol, veh/h	0	5	1	35	46	0
Future Vol, veh/h	0	5	1	35	46	0
Conflicting Peds, #/hr	0	0	0	0	40	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	THE PARTY OF THE P	riee -	None	riee -	None
Storage Length	0	None -	-	THE PARTY OF THE P		
		MARKAN	-	- 0	-	-
Veh in Median Storage	AND DESCRIPTION OF THE PARTY OF	-	-	. 0	0	-
Grade, %	0	- 07	- 07	0	0	- 07
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	33	33	13	13	9	9
Mvmt Flow	0	6	1	40	53	0
Major/Minor N	Minor2		Major1	N	Major2	
Conflicting Flow All	95	53	53	0	_	0
Stage 1	53			_		
Stage 2	42	_	_	-	-	_
Critical Hdwy	6.73	6.53	4.23		_	
Critical Hdwy Stg 1	5.73	-	-		_	_
Critical Hdwy Stg 2	5.73	-				_
Follow-up Hdwy		3.597	2.317	<u>-</u>		_
Pot Cap-1 Maneuver	834	933	1485			
Stage 1	896	-	1400	-	-	_
Stage 2	907		STEEL STEEL	-	_	
Platoon blocked, %	507	•		-	-	
	022	022	1485	-	-	SWIEGHT SAN
Mov Cap-1 Maneuver	833	933	1400	-	-	-
Mov Cap-2 Maneuver	833	_	_	-	-	
Stage 1	895		-	-	-	-
Stage 2	907	-	_	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		0.2		0	
HCM LOS	Α.5		0.2		U	
TOW LOO			1087212			
Minor Lane/Major Mvm	t	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1485		933		
HCM Lane V/C Ratio		0.001	_	0.006	-	-
HCM Control Delay (s)	Valle F	7.4	0	8.9	-	
			Α	Α	_	_
HCM Lane LOS		Α		7		
		0		0	-	_

Intersection						
Int Delay, s/veh	2.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		7>			ર્ન
Traffic Vol, veh/h	21	3	27	9	4	23
Future Vol, veh/h	21	3	27	9	4	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	100000000000000000000000000000000000000	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage			0			0
Grade, %	0	<u>-</u>	0	-	_	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	14	14	8	8	7	7
Mymt Flow	24	3	31	10	5	26
MALIE LIOM	24	3	31	10	5	20
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	72	36	0	0	41	0
Stage 1	36			-		
Stage 2	36	-	_	-	_	-
Critical Hdwy	6.54	6.34	-	_	4.17	
Critical Hdwy Stg 1	5.54	-	_	_	_	-
Critical Hdwy Stg 2	5.54	_	_	_		
Follow-up Hdwy	3.626	3.426	-	_	2.263	_
Pot Cap-1 Maneuver	903	1003		_	1537	_
Stage 1	956	-	_	_	-	-
Stage 2	956	_				
Platoon blocked, %	300		_			-
Mov Cap-1 Maneuver	900	1003	_	_	1537	-
	900			•		
Mov Cap-2 Maneuver		-	_	-	_	-
Stage 1	956	-	-	-	-	-
Stage 2	953	-	_	_	_	_
Approach	WB		NB		SB	
HCM Control Delay, s	9.1		0		1.1	
HCM LOS	3.1 A		U		1.1	
TOW LOO	٨					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	912	1537	-
HCM Lane V/C Ratio		-	-		0.003	-
HCM Control Delay (s)		_	-	9.1	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0.1	0	

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W	LUIT	NDL	4	\$	ODIN
Traffic Vol, veh/h	0	2	4	26	27	0
Future Vol, veh/h	0	2	4	26	27	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	riee -	None
Storage Length	0	None -	<u>-</u>	None -	-	None -
Veh in Median Storage	A STATE OF THE STA	-	-	0	0	- -
Grade, %	e, # 0 0	-	_	0	0	-
Peak Hour Factor	82	82	82	82	82	82
	25	25		13	7	7
Heavy Vehicles, %			13	32	33	
Mvmt Flow	0	2	5	32	33	0
Major/Minor	Minor2	N	Major1	Λ	Major2	
Conflicting Flow All	75	33	33	0	-	0
Stage 1	33	-	-	_	_	-
Stage 2	42	_	_	_	_	-
Critical Hdwy	6.65	6.45	4.23	_	_	_
Critical Hdwy Stg 1	5.65	0.43	1.20	_	<u>-</u>	
Critical Hdwy Stg 2	5.65					_
Follow-up Hdwy		3.525	2 317	_	- -	_
Pot Cap-1 Maneuver	874	978	1511		-	-
Section 200 contract Conference and	933	310	1011			-
Stage 1		_	_	-	_	
Stage 2	925		-	-	-	-
Platoon blocked, %	074	070	1541	-	_	-
Mov Cap-1 Maneuver	871	978	1511	-	-	-
Mov Cap-2 Maneuver	871	_	-	-	_	_
Stage 1	930	-	-	-	-	-
Stage 2	925	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.7	STATE OF THE PARTY.	1		0	
HCM LOS	6. <i>1</i>		1		U	
I IOIVI LOO	A			HALLOW S		
,						
Minor Lane/Major Mvm	nt	NBL	NBT E	EBLn1	SBT	SBR
Capacity (veh/h)		1511	-		-	-
HCM Lane V/C Ratio		0.003	-	0.002	-	-
HCM Control Delay (s)		7.4	0	8.7	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	- 1
No.						

1: Northfork Road & South Site Access

Intersection						
Int Delay, s/veh	0.4		-			
	EDI	EDD	NDI	NDT	ODT	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			ર્લ	7>	
Traffic Vol, veh/h	0	4	2	72	47	0
Future Vol, veh/h	0	4	2	72	47	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	4	4	3	3
Mvmt Flow	0	4	2	81	53	0
		Management of the Control of the Con	Maria Maria Maria	and what was a second was to		SUSSIER OF THE SUSSIER
	Minor2		Major1		Major2	
Conflicting Flow All	138	53	53	0	-	0
Stage 1	53	-	-	-	-	
Stage 2	85	-	_	-	-	-
Critical Hdwy	6.42	6.22	4.14	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	_		_	-	
Follow-up Hdwy	3.518	3.318	2,236	-	-	_
Pot Cap-1 Maneuver	855	1014	1540		_	
Stage 1	970	-	.5.15		-	_
Stage 2	938					
Platoon blocked, %	330	-	-			
	OFA	1011	1510	_	_	-
Mov Cap-1 Maneuver		1014	1540	-	-	-
Mov Cap-2 Maneuver	854	-	_	_	-	_
Stage 1	969	-	-	-	-	-
Stage 2	938	-	_	_	-	_
Approach	EB		NB		SB	
		III MARKATA	0.2		0	
HCM Control Delay, s			0.2	***************************************	U	
HCM LOS	А					
					NAME OF TAXABLE PARTY.	ODD
Minor Lane/Maior Myn	nt	NBL	NBT	EBLn1	SBT	SBK
Minor Lane/Major Mvn	nt	NBL 1540		EBLn1 1014	SBT	SBR
Capacity (veh/h)	nt	1540	_	1014	-	-
Capacity (veh/h) HCM Lane V/C Ratio		1540 0.001	<u>-</u>	1014 0.004	-	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s		1540 0.001 7.3	- - 0	1014 0.004 8.6	- - -	-
Capacity (veh/h) HCM Lane V/C Ratio)	1540 0.001	<u>-</u>	1014 0.004 8.6 A	-	-

Intersection						
Int Delay, s/veh	2.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WOR		NDK	ODL	
Lane Configurations	21	7	7>	10	10	4
Traffic Vol, veh/h	21	7	48	16	10	27
Future Vol, veh/h	21	7	48	16	10	27
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	_	None	-		_	
Storage Length	0	_	_	_	_	_
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	3	3	6	6
Mvmt Flow	23	8	52	17	11	29
Majay/Minas	Minaud	Market N	Aniard		Majara	
	Minor1		Major1		Major2	
Conflicting Flow All	112	61	0	0	69	0
Stage 1	61	-	-	-	-	-
Stage 2	51	-	-	-	_	-
Critical Hdwy	6.44	6.24	-	-	4.16	•
Critical Hdwy Stg 1	5.44	-	-	.=.	-	-
Critical Hdwy Stg 2	5.44	-	-	-		-
Follow-up Hdwy	3.536	3.336	-	-	2.254	-
Pot Cap-1 Maneuver	880	999	-	-	1507	-
Stage 1	957	-	-	-	-	v. -
Stage 2	966	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	874	999	_	_	1507	_
Mov Cap-2 Maneuver	874	-	_	_	-	_
Stage 1	957	_			_	
	959	-			_	
Stage 2	309	-	-	-	_	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.1		0		2	
HCM LOS	Α					
TION 200		1000				
Minor Lane/Major Mvn	nt	NBT	NBRI	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	902	1507	-
HCM Lane V/C Ratio		-	-	0.034	0.007	-
HCM Control Delay (s)	-		9.1	7.4	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0.1	0	-
	1					

Intersection						
Int Delay, s/veh	1			-		
		EDE	NDI	NET	057	000
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M			र्भ	f)	
Traffic Vol, veh/h	0	6	7	48	35	1
Future Vol, veh/h	0	6	7	48	35	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	81	81	81	81
Heavy Vehicles, %	2	2	3	3	7	7
Mvmt Flow	0	7	9	59	43	1
				U		
4 MT MORRES AND						
	Minor2		Major1		Major2	
Conflicting Flow All	121	44	44	0	-	0
Stage 1	44	-	-	-	-	-
Stage 2	77	-	_	-	-	-
Critical Hdwy	6.42	6.22	4.13	-	-	-
Critical Hdwy Stg 1	5.42	_		_	_	-
Critical Hdwy Stg 2	5.42	-				
Follow-up Hdwy		3.318		-		
Pot Cap-1 Maneuver	874	1026	1558		_	
Stage 1	978	1020	1000	_	_	-
Stage 2	946	-		_	_	
Platoon blocked, %	940	-	-	•		
	000	1000	1550	-	-	-
Mov Cap-1 Maneuver	869	1026	1558	-	-	-
Mov Cap-2 Maneuver	869	-	-	_	-	-
Stage 1	972	-	-	-	-	-
Stage 2	946	_	_	-	-	_
Approach	EB		NB		SB	MESSES
		(SALVAN) SA				CHESTOR
HCM Control Delay, s	8.5		0.9		0	
HCM LOS	Α			Carl San		
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1558		1026	-	ODIN -
HCM Lane V/C Ratio		0.006		0.007		
					<u>-</u>	-
HCM Long LOS		7.3	0	8.5	-	-
HCM Lane LOS	1	A	Α	A	-	-
HCM 95th %tile Q(veh	1	0	-	0	-	-

Trip Generation Calculation Worksheet



Land Use Description: Single-Family Detached Housing

ITE Land Use Code: 210

Independent Variable: Dwelling Units

Quantity: 74

Dwelling Units

Setting: General Urban/Suburban and Rural

Summary of ITE Trip Generation Data

AM Peak Hour of Adjacent Street Traffic

Trip Rate:

0.70 trips per dwelling unit

Directional Distribution:

26% Entering

74% Exiting

PM Peak Hour of Adjacent Street Traffic

Trip Rate:

0.94 trips per dwelling unit

Directional Distribution:

63% Entering

37% Exiting

Total Weekday Traffic

Trip Rate:

9.43 trips per dwelling unit

Directional Distribution:

50% Entering

50% Exiting

Site Trip Generation Calculations

74 Dwelling Units

	Entering	Exiting	Total
AM Peak Hour	14	38	52
PM Peak Hour	44	26	70
Weekday	349	349	698

1: Northfork Road & South Site Access

Intersection						
Int Delay, s/veh	0.5		A STATE OF THE STA			
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	TOL.	EDN	INDL			ODK
Traffic Vol, veh/h	0	5	1	4 38	1 → 57	0
Future Vol, veh/h	0	5	1	38	57	0
	0	0	0	0	0	0
Conflicting Peds, #/hr			Free	Free	Free	Free
Sign Control RT Channelized	Stop	Stop	NAME OF STREET	None		
		None -	-	NAME OF TAXABLE PARTY.	-	None
Storage Length	0		-	-	-	-
Veh in Median Storage	ASSESSMENT OF THE PARTY OF THE	-	-	0	0	-
Grade, %	0	- 07	- 07	0	0	- 07
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	33	33	13	13	9	9
Mvmt Flow	0	6	1	44	66	0
Major/Minor	Minor2		Major1	N	//ajor2	
Conflicting Flow All	112	66	66	0	_	0
Stage 1	66	-	-	-		
Stage 2	46	-	_	_	_	-
Critical Hdwy	6.73	6.53	4.23			
Critical Hdwy Stg 1	5.73	0.00	1,20	-	_	
Critical Hdwy Stg 2	5.73				_	
Follow-up Hdwy		3.597	2.317		_	_
Pot Cap-1 Maneuver	815	918	1469	-	-	_
The state of the s	884	ACTUAL PROPERTY OF	ORDER OF THE PERSON NAMED IN COLUMN TWO	•		
Stage 1		_	_	-	-	-
Stage 2	903	-	-		-	-
Platoon blocked, %	044	040	1400	-	-	-
Mov Cap-1 Maneuver	814	918	1469	-	-	-
Mov Cap-2 Maneuver	814	_	-	-	_	-
Stage 1	883	-	-	-	-	-
Stage 2	903	_	-	-	_	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		0.2		0	
HCM LOS	A		0.2		· ·	
TIOM LOO						
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1469	-	918	-	-
HCM Lane V/C Ratio		0.001	-	0.006	-	-
HCM Control Delay (s)		7.5	0	8.9	-	_
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection						
Int Delay, s/veh	2.7			-	A THE REAL PROPERTY.	ACT HE STORY AND
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	VVDL	MOL	To I	NON	ODL	की
Traffic Vol, veh/h	22	3	30	10	6	32
Future Vol, veh/h	22	3	30	10	6	32
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	THE PERSON NAMED IN	Service of Bridge	Free	Free	Free	Free
RT Channelized	Stop	Stop	Marin San San San San San San San San San Sa	None	riee -	NAME OF TAXABLE PARTY OF TAXABLE PARTY.
	0	None	-	A STATE OF THE PARTY OF THE PAR		none -
Storage Length		ALCONOMIS NAMED AND ADDRESS OF	_		-	0
Veh in Median Storage	CONTRACTOR CONTRACTOR	-	0	-		
Grade, %	0	- 07	0	- 07	- 07	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	14	14	8	8	7	7
Mvmt Flow	25	3	34	11	7	37
Major/Minor N	Minor1	Λ	Major1	1	Major2	
Conflicting Flow All	91	40	0	0	45	0
Stage 1	40	40	-	U	40	-
Stage 2	51		<u>-</u>		-	_
Critical Hdwy	6.54	6.34			4.17	
Critical Hdwy Stg 1	5.54	0.34	_		4.17	-
	5.54		-	_		
Critical Hdwy Stg 2			-	-	2.263	
Follow-up Hdwy			-	-		_
Pot Cap-1 Maneuver	881	998	-		1531	-
Stage 1	952	-	-	-	-	_
Stage 2	942	-	-	-	-	-
Platoon blocked, %			-	-	150:	_
Mov Cap-1 Maneuver	877	998	-	-	1531	-
Mov Cap-2 Maneuver	877	-	-	-	-	-
Stage 1	952	-	-	-	-	-
Stage 2	937	-	-	-	-	-
Approach	WB		NB		SB	
					1.2	
HCM LOS	9.2		0		1.2	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRI	NBLn1	SBL	SBT
Capacity (veh/h)		_			1531	
HCM Lane V/C Ratio		-	-	0.032		-
HCM Control Delay (s)				9.2	7.4	0
HCM Lane LOS		_	_		Α	A
HCM 95th %tile Q(veh)		-	The second second	0	
				0.1		

Intersection						
Int Delay, s/veh	0.7					
		EDD	NDI	NDT	ODT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	A			4	ß	Name of Street of Street
Traffic Vol, veh/h	0	2	4	28	29	0
Future Vol, veh/h	0	2	4	28	29	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0		-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	82	82	82	82	82	82
Heavy Vehicles, %	25	25	13	13	7	7
Mvmt Flow	0	2	5	34	35	0
WINTEL TOW	U	_	J	UT	00	U
Major/Minor	Minor2		Major1	N	/lajor2	
Conflicting Flow All	79	35	35	0	-	0
Stage 1	35	-	-	-	-	
Stage 2	44	_	_	-	-	-
Critical Hdwy	6.65	6.45	4.23			
Critical Hdwy Stg 1	5.65	-		_	_	_
Critical Hdwy Stg 2	5.65		77890 <u>-</u>			
Follow-up Hdwy	3.725	3.525		-	_	-
	870	976	1508	_		-
Pot Cap-1 Maneuver			1008	-	-	-
Stage 1	931	-	_	-	-	-
Stage 2	923	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	867	976	1508	-	-	-
Mov Cap-2 Maneuver	867	-		-	-	-
Stage 1	928	-	-	-	-	
Stage 2	923	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.7		0.9		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt.	NBL	NRT	EBLn1	SBT	SBR
	IL					And the second second
Capacity (veh/h)		1508	-	0.0	-	-
HCM Lane V/C Ratio		0.003		0.002	-	-
HCM Control Delay (s		7.4	0	8.7	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

1: Northfork Road & South Site Access

Intersection						
Int Delay, s/veh	0.4			The second		
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			4	7>	
Traffic Vol, veh/h	0	4	2	82	52	0
Future Vol, veh/h	0	4	2	82	52	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	1,00	None	1,00	None
Storage Length	0	-	_	-	-	-
Veh in Median Storage	(17)	-	-	0	0	-
Grade, %	0	_	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	4	4	3	3
Mymt Flow	0	4	2	92	58	0
			-	V		· ·
			-	******************************	*************	
	Minor2		Major1		Major2	
Conflicting Flow All	154	58	58	0	-	0
Stage 1	58	-	-	-	-	-
Stage 2	96	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.14	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.236	-	-	-
Pot Cap-1 Maneuver	838	1008	1533	-		-
Stage 1	965	_	-	-	-	-
Stage 2	928	-	-	-	-	-
Platoon blocked, %			ni-communication	-	-	-
Mov Cap-1 Maneuver	837	1008	1533	_	-	-
Mov Cap-2 Maneuver	837	-	-	-	-	-
Stage 1	964			_		
Stage 2	928	_	_	_	_	_
Clayo Z	320					
Approach	EB		NB		SB	
HCM Control Delay, s	8.6		0.2		0	
HCM LOS	Α					
Minor Long/Major Muss	.+	NDI	NDT	EBLn1	CDT	CDD
Minor Lane/Major Mvm	IL	NBL			SBT	SBR
Capacity (veh/h)		1533		1008	-	-
HCM Lane V/C Ratio		0.001		0.004	-	-
HCM Control Delay (s)		7.4	0	8.6	-	-
HCM Lane LOS	,	A	Α	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

			- Manual Control			
Intersection						
Int Delay, s/veh	2.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
	VVDL	WOR		NON	ODL	
Lane Configurations		0	^	17	44	ર્લ
Traffic Vol, veh/h	22	8	57	17	11	31
Future Vol, veh/h	22	8	57	17	11	31
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	3	3	6	6
Mymt Flow	24	9	62	18	12	34
INTALLIC TOW	47	9	UZ	10	12	04
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	129	71	0	0	80	0
Stage 1	71					
Stage 2	58	_	_	_		-
Critical Hdwy	6.44	6.24	_	_	4.16	
Critical Hdwy Stg 1	5.44	0.24		ASSTALL SECTION	1,10	-
Critical Hdwy Stg 2	5.44	_	_		_	_
				-		
Follow-up Hdwy	3.536		_		2.254	-
Pot Cap-1 Maneuver	861	986	-	-	1493	-
Stage 1	947	_	-	_	-	-
Stage 2	959	-	-	-	-	
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	854	986	-	-	1493	-
Mov Cap-2 Maneuver	854	-	-	-	-	-
Stage 1	947	-		_	-	-
Stage 2	951	_	_	_	-	_
Approach	WB		NB		SB	
HCM Control Delay, s	9.2		0		1.9	
HCM LOS	Α					
Minor Long/Mais - M.		NDT	MDD	VDL 4	CDI	CDT
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-		1493	-
HCM Lane V/C Ratio		-	-	0.037		-
HCM Control Delay (s)	-	-		7.4	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0.1	0	

3: Northfork Road & River View Meadows Lane

Intersection						
Int Delay, s/veh	2.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	LDI	NDL	4	100	ODIN
Traffic Vol, veh/h	2	18	19	51	37	1
Future Vol, veh/h	2	18	19	51	37	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	riee -	None
Storage Length	0	None -	_	None -		None -
Veh in Median Storage				0	0	
Grade, %	0	<u>-</u>	_	0	0	_
Peak Hour Factor	81	81	81	81	81	81
		2	3	3	7	7
Heavy Vehicles, % Mvmt Flow	2 2	22	23	63	46	1
INIVIIIL FIOW	2	22	23	03	40	
Major/Minor	Minor2	1	Major1	١	Major2	
Conflicting Flow All	156	47	47	0	-	0
Stage 1	47				-	
Stage 2	109		_	-	-	-
Critical Hdwy	6.42	6.22	4.13	-	-	-
Critical Hdwy Stg 1	5.42	-	_	_	_	-
Critical Hdwy Stg 2	5.42				_	
Follow-up Hdwy	3.518	3.318	2.227	_	-	-
Pot Cap-1 Maneuver	835	1022	1554			
Stage 1	975		-	_	-	_
Stage 2	916				_	
Platoon blocked, %	010			_	_	_
Mov Cap-1 Maneuver	822	1022	1554			_
Mov Cap-1 Maneuver	822	1022	1004			_
Stage 1	960					
Stage 2	916	-	-			-
Staye 2	310	-	-	-	-	
Approach	EB		NB		SB	
HCM Control Delay, s	8.7		2		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1554	NDT I	998	-	-
HCM Lane V/C Ratio		0.015		0.025		Market Street
HCM Control Delay (s)		7.4	0	8.7	-	-
HCM Lane LOS		7.4 A	A	ο./	-	-
HCM 95th %tile Q(veh	1	0	A -	0.1	-	-
				U.	The second second	

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W	2011	TIDE	4	7	ODIT
Traffic Vol, veh/h	3	15	5	46	85	1
Future Vol, veh/h	3	15	5	46	85	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage,				0	0	
Grade, %	0		<u>-</u>	0	0	_
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	33	33	13	13	9	9
Mymt Flow	3	17	6	53	98	1
WINTER TOW	J	17	O	55	90	1
Major/Minor N	Minor2		Major1	٨	Major2	
Conflicting Flow All	164	99	99	0	-	0
Stage 1	99	-	_	-	-	-
Stage 2	65	-	-	-	_	-
Critical Hdwy	6.73	6.53	4.23	-	_	-
Critical Hdwy Stg 1	5.73	-		_	-	_
Critical Hdwy Stg 2	5.73	_	_	-	-	
		3.597	2.317	_	-	_
Pot Cap-1 Maneuver	760	878	1428	_		_
Stage 1	853	-	-	_	_	_
Stage 2	885	_				_
Platoon blocked, %	000			_	_	_
Mov Cap-1 Maneuver	757	878	1428		_	
Mov Cap-1 Maneuver	757	-	1420	_	_	_
Stage 1	850		_	-		_
Stage 2	885	_		_		_
Glaye Z	000	_	-	_		HANKER H
Approach	EB		NB		SB	
HCM Control Delay, s	9.3		0.7		0	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBL	NRT	EBLn1	SBT	SBR
		1428	SAME AND ADDRESS OF THE PARTY O			and the second
Capacity (veh/h) HCM Lane V/C Ratio			-		-	•
		0.004	loternamento mento	0.024	-	-
HCM Long LOS		7.5	0	9.3	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)		0	-	0.1	-	

Intersection						
Int Delay, s/veh	2.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	VVDL	VVDI	7	NON	ODL	4
Traffic Vol, veh/h	23	4	38	13	11	60
Future Vol, veh/h	23	4	38	13	11	60
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	1100	Commence of the contract of th	1100	
Storage Length	0	-		-	_	-
Veh in Median Storage,			0	_		0
Grade, %	0	<u>-</u>	0		_	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	14	14	8	8	7	7
Mymt Flow	26	5	44	15	13	69
MALL LIOM	20	3	44	13	13	09
Major/Minor N	/linor1	N	Major1	1	Major2	
Conflicting Flow All	147	52	0	0	59	0
Stage 1	52		-	-	-	-
Stage 2	95	-	-	-	-	-
Critical Hdwy	6.54	6.34	-	-	4.17	-
Critical Hdwy Stg 1	5.54	-	-	_	_	_
Critical Hdwy Stg 2	5.54	_		_		_
	3.626	3.426	-	_	2.263	-
Pot Cap-1 Maneuver	818	983	_	_	1513	-
Stage 1	941	-	_	_	-	_
Stage 2	899	_	-		-	_
Platoon blocked, %	000		_	_		
Mov Cap-1 Maneuver	811	983		_	1513	_
Mov Cap-2 Maneuver	811	-	_		-	_
Stage 1	941	_			_	
Stage 2	891	_	_	_	-	
Staye 2	091	-	_	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.5		0		1.1	
HCM LOS	Α					
Minaul ana/Maiau Musa		NDT	MDD	A/DL =4	CDI	CDT
Minor Lane/Major Mvm	ī	NBT		WBLn1	SBL	SBT
Capacity (veh/h)		-	-	833	1513	-
HCM Lane V/C Ratio		-	-	0.037		-
HOMO - LD L LA		-	-	9.5	7.4	0
HCM Control Delay (s)						
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		-	-	Α	A 0	A -

Movement	Intersection				(Carattein)		
BBL BBR NBL NBT SBR SBR		4.1	edicinate lede	Seller Verific		sterior stella	palasetes)
Care Configurations Traffic Vol, veh/h 3 35 17 28 29 1	-		FDD	NDI	NDT	ODT	000
Traffic Vol, veh/h Future Vol, veh/h Substitute Vol, veh/h Substi			FBK	NRL			SBK
Future Vol, veh/h Conflicting Peds, #/hr O O O O O O O O O O O O O O O O O O O			25	17			4
Conflicting Peds, #/hr	Reverbbase (subscription of the control of the con						
Sign Control Stop Stop Free Free Free Free Free Free Free Free RT Channelized - None - None None None None Storage Length 0 - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
RT Channelized							
Storage Length		THE RESERVE OF THE PARTY OF THE		STATE OF THE PARTY		THE REAL PROPERTY OF THE PERSON NAMED IN	
Weh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 82 82 82 82 82 82 Heavy Vehicles, % 25 25 13 13 7 7 Mwmt Flow 4 43 21 34 35 1 Major/Minor Minor Major1 Major2 Conflicting Flow All 112 36 36 0 - 0 Stage 1 36 - <td>Experience of the control of the con</td> <td></td> <td>NATIONAL PROPERTY OF</td> <td>_</td> <td>None</td> <td>-</td> <td></td>	Experience of the control of the con		NATIONAL PROPERTY OF	_	None	-	
Grade, % 0 - - 0 0 - Peak Hour Factor 82				_	-	0	
Peak Hour Factor		A STATE OF THE PARTY OF THE PAR			- Contract		
Heavy Vehicles, % 25 25 13 13 7 7							
Mynt Flow 4 43 21 34 35 1 Major/Minor Minor2 Major1 Major2 Conflicting Flow All 112 36 36 0 - 0 Stage 1 36 - - - - - Stage 2 76 - - - - Critical Hdwy 6.65 6.45 4.23 - - Critical Hdwy Stg 1 5.65 - - - - Critical Hdwy Stg 2 5.65 - - - - Follow-up Hdwy 3.725 3.525 2.317 - - Follow-up Hdwy 3.725 3.525 2.317 - - Stage 1 930 - - - - Stage 2 892 - - - - Mov Cap-1 Maneuver 820 974 1507 - - - Stage 1 917<							
Major/Minor Minor2 Major1 Major2							
Stage 1	INIVITIC I TOW	4	+0	21	J4	00	
Stage 1							
Stage 1 36 -<					١	Major2	
Stage 2 76 -<	Conflicting Flow All		36	36	0	-	0
Critical Hdwy 6.65 6.45 4.23 - - Critical Hdwy Stg 1 5.65 - - - - Critical Hdwy Stg 2 5.65 - - - - Follow-up Hdwy 3.725 3.525 2.317 - - Pot Cap-1 Maneuver 832 974 1507 - - - Stage 1 930 - - - - - - - - - - - - - - - - -			-	-	-	-	-
Critical Hdwy Stg 1 5.65 - <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>				-	-	-	-
Critical Hdwy Stg 2 5.65 Follow-up Hdwy 3.725 3.525 2.317 Follow-up Hdwy 3.725 3.525 2.317	Critical Hdwy		6.45	4.23	-	-	-
Follow-up Hdwy 3.725 3.525 2.317	Critical Hdwy Stg 1		-	-	-	-	-
Pot Cap-1 Maneuver			-	-	-	-	-
Stage 1 930 -					-	-	-
Stage 2 892 -			974	1507	-	-	
Platoon blocked, % Mov Cap-1 Maneuver 820 974 1507 Mov Cap-2 Maneuver 820 Stage 1 917 Stage 2 892 Approach EB NB SB HCM Control Delay, s 8.9 2.8 0 HCM LOS A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A A			_	-	-	-	-
Mov Cap-1 Maneuver 820 974 1507 - <td></td> <td>892</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		892	-	-	-	-	-
Mov Cap-2 Maneuver 820 Stage 1 917 Stage 2 892					-	-	-
Stage 1 917 -			974	1507	-	-	-
Stage 2 892 -			-	-	-	-	_
Approach EB NB SB HCM Control Delay, s 8.9 2.8 0 HCM LOS A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A	Control of the Contro		-	-	-	-	-
HCM Control Delay, s 8.9 2.8 0 HCM LOS A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A	Stage 2	892	-	-	-	-	-
HCM Control Delay, s 8.9 2.8 0 HCM LOS A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A							
HCM Control Delay, s 8.9 2.8 0 HCM LOS A Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A	Approach	EB		NB		SB	
Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 - - HCM Lane V/C Ratio 0.014 - 0.048 - - HCM Control Delay (s) 7.4 0 8.9 - - HCM Lane LOS A A A - -							
Minor Lane/Major Mvmt NBL NBT EBLn1 SBT SBR Capacity (veh/h) 1507 - 960 - - HCM Lane V/C Ratio 0.014 - 0.048 - - HCM Control Delay (s) 7.4 0 8.9 - - HCM Lane LOS A A A - -		*************		2.0		U	
Capacity (veh/h) 1507 - 960 - - HCM Lane V/C Ratio 0.014 - 0.048 - - HCM Control Delay (s) 7.4 0 8.9 - - HCM Lane LOS A A A - -	TOM EGG	^					
Capacity (veh/h) 1507 - 960 - - HCM Lane V/C Ratio 0.014 - 0.048 - - HCM Control Delay (s) 7.4 0 8.9 - - HCM Lane LOS A A A - -						057	05
HCM Lane V/C Ratio 0.014 - 0.048 HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A		nt		THE PERSON NAMED IN			
HCM Control Delay (s) 7.4 0 8.9 HCM Lane LOS A A A						-	-
HCM Lane LOS A A A							
HCM 95th %tile Q(veh) 0 - 0.2				NAME OF TAXABLE PARTY.			THE RESERVE THE PERSON NAMED IN
	HCM 95th %tile Q(veh))	0	-	0.2	-	-

1: Northfork Road & South Site Access

Intersection						
Int Delay, s/veh	1					
	EDI	EPD	NDI	NDT	CDT	CPD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M	44	44	4	♣	2
Traffic Vol, veh/h	2	11	14	111	67	3
Future Vol, veh/h	2	11	14	111	67	3
Conflicting Peds, #/hr	0	0	_ 0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	_	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	4	4	3	3
Mvmt Flow	2	12	16	125	75	3
Major/Minor	Minor2		Majort	A	Agiora	in the same
			Major1		Major2	^
Conflicting Flow All	234	77	78	0	-	0
Stage 1	77	-	-	-	-	-
Stage 2	157	-	-	-	_	-
Critical Hdwy	6.42	6.22	4.14	-	-	-
Critical Hdwy Stg 1	5.42	-	_	_	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		_	-	-
Pot Cap-1 Maneuver	754	984	1508	<u>-</u>	-	-
Stage 1	946	-	-	_	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	746	984	1508	-	-	-
Mov Cap-2 Maneuver	746	-	-	-	-	-
Stage 1	936		-	-	-	-
Stage 2	871	-	-	_	-	-
3						
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		0.8		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NET	ERI n1	SBT	SBR
	IIL			EBLn1		
Capacity (veh/h)		1508	-	000	-	-
HCM Lane V/C Ratio		0.01		0.016	-	-
HCM Control Delay (s)	7.4	0	8.9	-	-
HCM Lane LOS	,	A	Α	A	-	-
HCM 95th %tile Q(veh	1)	0	_	0	-	-

Intersection						10000
Int Delay, s/veh	2.2				the state of	
		WIDD	NDT	NDD	ODI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		4	10	40	र्स
Traffic Vol, veh/h	25	12	86	19	13	46
Future Vol, veh/h	25	12	86	19	13	46
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0		_	_	_	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	4	4	3	3	6	6
Mvmt Flow	27	13	93	21	14	50
Major/Minor I	Minor1	N	//ajor1		Major2	
						^
Conflicting Flow All	182	104	0	0	114	0
Stage 1	104	-	-	-	-	-
Stage 2	78	-	_	_	-	_
Critical Hdwy	6.44	6.24	-	-	4.16	-
Critical Hdwy Stg 1	5.44	-	-	-	-	-
Critical Hdwy Stg 2	5.44		-	-		-
Follow-up Hdwy	3.536	encommon constant de exemples	_	_	2.254	-
Pot Cap-1 Maneuver	803	945	-	-	1451	
Stage 1	915	-	-	-	-	-
Stage 2	940			-	-	
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	795	945	-	-	1451	-
Mov Cap-2 Maneuver	795	-	-	-	-	-
Stage 1	915	-	-			-
Stage 2	931	-	-	-	-	-
Aganagash	VAID		ND	Mary Mary	OB	
Approach	WB		NB		SB	
HCM Control Delay, s	9.5		0		1.7	
HCM LOS	Α					
Minor Lane/Major Mvm	ıt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	102/12/12	1451	-
HCM Lane V/C Ratio				0.048	0.01	-
HCM Control Delay (s)		_	-		7.5	0
HCM Lane LOS		-	-	9.5 A	7.5 A	A
HCM 95th %tile Q(veh		-		0.2	0	A -
FIGURE SOUR MILE CIVED	1			0.2	U	

Intersection						
Int Delay, s/veh	4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	LUIN	NDL	4	1 4	ODIN
Traffic Vol, veh/h	5	35	52	51	37	4
Future Vol, veh/h	5	35	52	51	37	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	_	-	<u>-</u>	-
Veh in Median Storage		_	-	0	0	-
Grade, %	0	-	_	0	0	_
Peak Hour Factor	81	81	81	81	81	81
Heavy Vehicles, %	2	2	3	3	7	7
Mvmt Flow	6	43	64	63	46	5
	Minor2		Major1		Major2	
Conflicting Flow All	240	49	51	0	_	0
Stage 1	49	-	-	-	-	-
Stage 2	191	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.13	-	-	-
Critical Hdwy Stg 1	5.42	_	_	-	-	_
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		_	_	_
Pot Cap-1 Maneuver	748	1020	1549		-	-
Stage 1	973	_	_	_	_	_
Stage 2	841	-	-	-	-	-
Platoon blocked, %	m / n	1000	4 10 1 10	_	_	_
Mov Cap-1 Maneuver	716	1020	1549	-	-	-
Mov Cap-2 Maneuver	716	_	_	-	_	-
Stage 1	931	-	-	-	-	-
Stage 2	841	-	_	_	-	_
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		3.7		0	
HCM LOS	Α.9		0.1		U	
TOW EOG					estine.	
Name of the Control o						
Minor Lane/Major Mvm	nt	NBL	MANAGEMENT OF THE PARTY OF THE	EBLn1	SBT	SBR
Capacity (veh/h)		1549	-		-	-
HCM Lane V/C Ratio		0.041		0.051	-	-
HCM Control Delay (s)		7.4	0	8.9		-
HCM Lana LOC		Α	Α	Α	-	-
HCM Lane LOS HCM 95th %tile Q(veh)		0.1	_	0.2		

CDS380 OREGON.. DEPARTMENT OF TRANSPORTATION DEVELOPMENT DIVISION Page: 1

TRANSPORTATION DATA SECTION - CRASH ANAYLYSIS AND REPORTING UNIT

COUNTY ROAD CRASH LISTING

TILLAMOOK COUNTY MOETH FORK NEHLM ED, HP -999.99 to 999.99, 01/01/2016 to 12/31/2020

1-5 of S Crash records shown.

08/11/2022

S	D M																				
SER# P	R J S W DATE	MILEPNT	COUNTY ROADS		IMT-TYPE					SPCL USE											
INVEST E A	U I C O DAY	DIST FROM	FIRST STREET	RD CHAR	(MEDIAN)	INT-REL	OFFRD	WTHR	CRASH	TRLE CTY	HOVE			h	s						
RD DPT E L	G N H R TIME	INTERSECT	SECOND STREET	DIRECT	LEGS	TRAF-	PNDBT	SURF	COLL	OWNER	FROM	PRTC	inj	G	E LIC	NS P	PED				
UNLOC? D C	S V L K LAT	LONG	LRS	LOCTH	(#LAMES)	CONTL	DRVWY	LIGHT	SVRTY	V# TYPE	то	P# TYPE	SVRTY	2	X RES	L	LOC ERROR		ACT E	VENT	CAUSE
00050 N N	N 02/20/2020	0.32	NORTH FORK NEHLM RD	STRGHT		N	N	CLR	animal	01 NONE 9	STRGHT								0	35	12
COUNTY	TH			un	(NONE)	NONE	31	DRY	OTH	N/A	B -M								000		00
N	10A			03			23	DAY	PDO	PSNGR CAR		01 DRVR	HONE	00	Unk UNK		000		000		00
N	45 43 23.18	~123 53 28.22			(02)						Proceedings of the Control of the Co	HIV. 00381000 0008 IANO 08000 A		************	UNK	10/030-1010-031					
00110 N N		1.44	NORTH FORK NEHLM RD	CURVE		N	Ÿ	RAIN	FIX OBJ	01 NONE 9	STROHT								0	45,091	10
COUNTY	ME			OT:	(NOHE)	NONE	N	WET	FIX	N/A	s -N								000		00
Y	10A			86			13	DAY	PD0	PSNGR CAR		01 DRVR	MONE	0.0	Unk UNK		000		000		00
n	45 44 1.16	-123 52 38,33			(02)			·~			***************************************				UNK						
00183 N Y	и и и 06/20/2018	1.66	NORTH PORK NERLM RD	CURVE		N	Y	CLR	PIK OEJ	OI NONE 0	STROHT								0	35,079,091	32
COURTY	ME			D2#	(NONE)	NONE	17	DRY	FIX	PRVTE	N -S								007 0	79,091	00
Y	2A			07			N	DARK	INJ	PSNGR CAR		01 DRVR	INJB	28	P N-V	ΑL	052.0	180,08	038		32
N	45 44 11,32	-123 52 34.03			(02)										OR<	25					
00136 Y N	N N N 05/11/2019	2.90	NORTH FORK NEHLM RD	CURVE		N	¥	UNK	FIX OEJ	01 NONE 0	STRGHT								0	58,010	01
COUNTY	SA			UN	(NONE)	CURVE	53	DRY	FIX	PRVTE	UN-UN								000 0	58,010	00
Y	12A			07			33	DARK	inj	PSNGR CAR		01 DRVR	INJC	20	F CR-	¥	047.0	160,08	017		01
N	45 44 53.16	26.61			(02)										OR<	25				·	
00055 11 N		3.47	NORTH FORK NEHLM ED	CURVE		n	Y	CLR	PIX CEJ	01 NONE 9	STRGHT								0	92,079,010	26
COUNTY	WE			URF	(MONE)	NONE	N	DRY	FIX	PRVTE	S-N								007 0	92,079,010	26
Y	4.9			01			23	DAY	INJ	PSNGR CAR		01 DRVR	INIC	48	M OR-	¥	030,0	31	000		00
11	45 45 8.15	-123 50 56.15			(02)										OR>	25					

Preliminary Traffic Signal Warrant Analysis

Project Name: Riverview Meadows

Intersection: Northfork Road at South Site Access Scenario: 2025 Background Plus Site Trips

Number of Major Street Lanes: 1 PM Peak Hour Volume 195 (sum of both approaches)
Number of Minor Street Lanes 1 PM Peak Hour Volume 10 (highest-volume approach)^a

Posted or 85th percentile speed > 40 mph: Yes
Isolated Population Less than 10,000: Yes

Warrant 1, Eight-Hour Vehicular Volume

Condition A - Minimum Vehicular Volume

Section of the sectio	nes for moving ach approach	100 100 100 100 100	Serior II.	r on major approach	A CONTRACTOR OF THE PARTY OF TH	Vehicles per hour on minor street (total of both approaches)					
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%		
1	1	500	400	350	280	150	120	105	84		
2 or more	1	600	480	420	336	150	120	105	84		
2 or more	2 or more	600	480	420	336	200	160	140	112		
1	2 or more	500	400	350	280	200	160	140	112		

Condition B - Interruption of Continuous Traffic

	nes for moving ch approach	- 1		r on major approach		Vehicles per hour on minor street (total of both approaches)					
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%		
1	1	750	600	525	420	75	60	53	42		
2 or more	1	900	720	630	504	75	60	53	42		
2 or more	2 or more	900	720	630	504	100	80	70	56		
1	2 or more	750	600	525	420	100	80	70	56		

Warrant Anaylsis Calculations	8th Highest Hour ^b	Minimum Volume	Warrant Satisfied?
Condition A - Minimum Vehicular Volume			
Major Street Volume	110	350	
Minor Street Volume	6	105	No
Condition B - Interruption of Continuous Traffic			
Major Street Volume	110	525	
Minor Street Volume	6	53	No
Combination Warrant ^c			
Major Street Volume	110	420	
Minor Street Volume	6	84	No

^a Minor-Street right turn volumes are reduced to account for the impact of right-turns on red.



^b Eighth-highest hour volumes are calculated as 5.65 percent of the expected daily traffic volume.

^c This warrant should be used only after adequate trial of other alternatives has failed to solve traffic problems.

Preliminary Traffic Signal Warrant Analysis

Project Name: Riverview Meadows

Intersection: Northfork Road at McDonald Dike Road

Scenario: 2025 Background Plus Site Trips

Number of Major Street Lanes: 1 PM Peak Hour Volume 164 (sum of both approaches)

Number of Minor Street Lanes 1 PM Peak Hour Volume 34 (highest-volume approach)^a

Posted or 85th percentile speed > 40 mph: Yes
Isolated Population Less than 10,000: Yes

Warrant 1, Eight-Hour Vehicular Volume

Condition A - Minimum Vehicular Volume

	nes for moving ich approach		The second second	r on major approach		Vehicles per hour on minor street (total of both approaches)					
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%		
1	1	500	400	350	280	150	120	105	84		
2 or more	1	600	480	420	336	150	120	105	84		
2 or more	2 or more	600	480	420	336	200	160	140	112		
1	2 or more	500	400	350	280	200	160	140	112		

Condition B - Interruption of Continuous Traffic

a proposition of the many of the contract of	nes for moving ach approach		and the same and	r on major approach	FC 7500 FC F100 FC	Vehicles per hour on minor street (total of both approaches)						
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%			
1	1	750	600	525	420	75	60	53	42			
2 or more	1	900	720	630	504	75	60	53	42			
2 or more	2 or more	900	720	630	504	100	80	70	56			
1	2 or more	750	600	525	420	100	80	70	56			

Warrant Anaylsis Calculations	8th Highest Hour ^b	Minimum Volume	Warrant Satisfied?
Condition A - Minimum Vehicular Volume			
Major Street Volume	93	350	
Minor Street Volume	19	105	No
Condition B - Interruption of Continuous Traffic			
Major Street Volume	93	525	
Minor Street Volume	19	53	No
Combination Warrant ^c			
Major Street Volume	93	420	
Minor Street Volume	19	84	No

^a Minor-Street right turn volumes are reduced to account for the impact of right-turns on red.



^b Eighth-highest hour volumes are calculated as 5.65 percent of the expected daily traffic volume.

^c This warrant should be used only after adequate trial of other alternatives has failed to solve traffic problems.

Preliminary Traffic Signal Warrant Analysis

Project Name: Riverview Meadows

Intersection: Northfork Road at River View Meadows Lane

Scenario:

2025 Background Plus Site Trips

Number of Major Street Lanes: 1

Number of Minor Street Lanes 1

PM Peak Hour Volume 144 (sum of both approaches)

PM I

PM Peak Hour Volume 31 (highest-volume approach)^a

Posted or 85th percentile speed > 40 mph: Yes
Isolated Population Less than 10,000: Yes

Warrant 1, Eight-Hour Vehicular Volume

Condition A - Minimum Vehicular Volume

ACCORDING CONTROL TO THE CONTROL OF	nes for moving ich approach		and the second s	r on major n approach		Vehicles per hour on minor street (total of both approaches)					
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%		
1	1	500	400	350	280	150	120	105	84		
2 or more	1	600	480	420	336	150	120	105	84		
2 or more	2 or more	600	480	420	336	200	160	140	112		
1	2 or more	500	400	350	280	200	160	140	112		

Condition B - Interruption of Continuous Traffic

	Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				r on minor approach		
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

Warrant Anaylsis Calculations	8th Highest Hour ^b	Minimum Volume	Warrant Satisfied?
Condition A - Minimum Vehicular Volume			
Major Street Volume	81	350	
Minor Street Volume	18	105	No
Condition B - Interruption of Continuous Traffic			
Major Street Volume	81	525	
Minor Street Volume	18	53	No
Combination Warrant ^c			
Major Street Volume	81	420	
Minor Street Volume	18	84	No

^a Minor-Street right turn volumes are reduced to account for the impact of right-turns on red.



^b Eighth-highest hour volumes are calculated as 5.65 percent of the expected daily traffic volume.

^c This warrant should be used only after adequate trial of other alternatives has failed to solve traffic problems.

Left-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Northbound Northfork Road at South Site Access

Scenario: 2025 Background Plus Site Trips

Number of Advancing Lanes: 1

Number of Opposing Lanes: 1

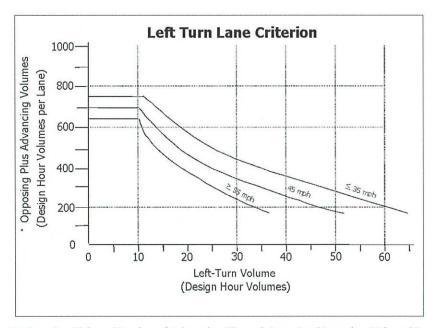
Major-Street Design Speed: 45 mph

AM Volume PM Volume Advancing Volume for Design Hour: 51 125
Opposing Volume for Design Hour: 86 70

Design Hour Volume Per Lane: 137 195
Number of Left Turns per Hour: 5 14

Left-turn lane warrants satisfied? NO NO

Exhibit 7-1 Left Turn Lane Criterion (TTI)



 $^{*(}Advancing\ Volume/Number\ of\ Advancing\ Through\ Lanes) + (Opposing\ Volume/Number\ of\ Opposing\ Through\ Lanes)$



Left-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Sourthbound Northfork Road at McDonald Dike Road

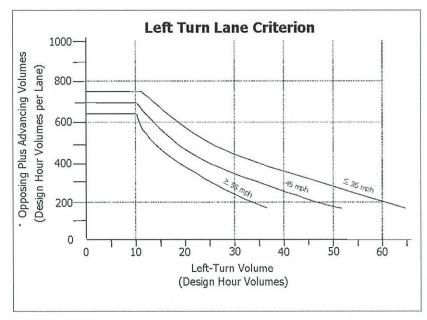
Scenario: 2025 Background Plus Site Trips

Number of Advancing Lanes: 1
Number of Opposing Lanes: 1

Major-Street Design Speed: 45 mph

	AM Volume	PM Volume
Advancing Volume for Design Hour	: 71	59
Opposing Volume for Design Hour:	51	105
Design Hour Volume Per Lane:	122	164
Number of Left Turns per Hour:	11	13
Left-turn lane warrants satisfied	l? NO	NO

Exhibit 7-1 Left Turn Lane Criterion (TTI)



 $[\]label{lem:condition} \begin{tabular}{l} *(Advancing Volume/Number of Advancing Through Lanes) + (Opposing Volume/Number of Opposing Through Lanes) \\ \end{tabular}$



Left-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Northbound Northfork Road at River View Meadows Lane

Scenario: 2025 Background Plus Site Trips

Number of Advancing Lanes:

1

Number of Opposing Lanes:

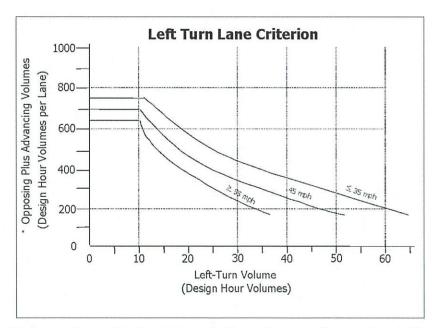
1

Major-Street Design Speed:

45 mph

	AM Volume	PM Volume
Advancing Volume for Design Hour:	45	103
Opposing Volume for Design Hour:	30	41
Design Hour Volume Per Lane:	75	144
Number of Left Turns per Hour:	17	52
Left-turn lane warrants satisfied?	NO	NO

Exhibit 7-1 Left Turn Lane Criterion (TTI)



 $^{*(}Advancing\ Volume/Number\ of\ Advancing\ Through\ Lanes) + (Opposing\ Volume/Number\ of\ Opposing\ Through\ Lanes)$



Right-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Southbound Northfork Road at South Site Access

Scenario: 2025 Background plus Site Trips

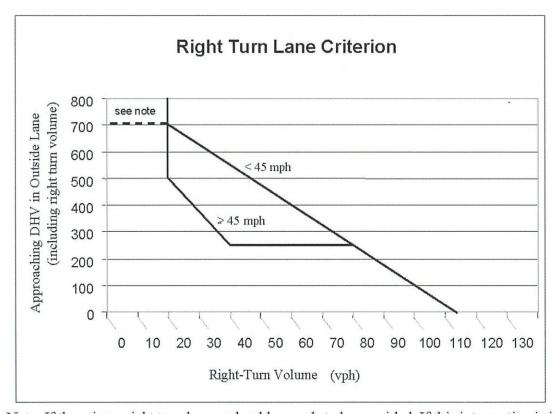
Major-Street Design Speed: 45 mph

	AM Volume	PM Volume
Number of Right Turns per Hour:	1	3
Approaching DVH in Outside Lane:	86	70
Calculated Turn Volume Threshold:	102	104
Right Turn Volume Exceeds Threshold?	NO	NO

Criterion 1: Vehicular Volume

The vehicular volume criterion is intended for application where the volume of intersecting traffic is the principal reason for considering installation of a right turn lane. The vehicular volume criteria are determined using the curve in Exhibit 7-2.

Exhibit 7-2 Right Turn Lane Criterion



Note: If there is no right turn lane, a shoulder needs to be provided. If this intersection is in a rural area and is a connection to a public street, a right turn lane is needed.



Right-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Northbound Northfork Road at McDonald Dike Road

Scenario: 2025 Background plus Site Trips

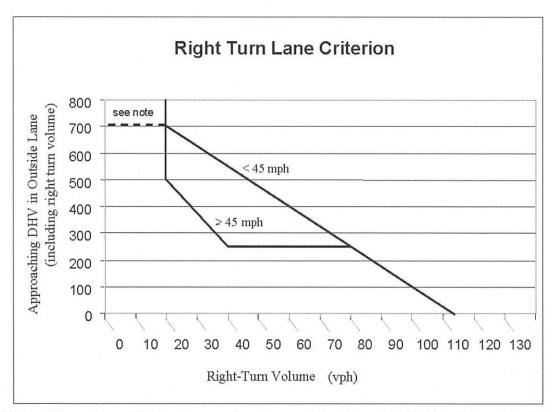
Major-Street Design Speed: 45 mph

	AM Volume	PM Volume
Number of Right Turns per Hour:	13	19
Approaching DVH in Outside Lane:	51	105
Calculated Turn Volume Threshold:	106	99
Right Turn Volume Exceeds Threshold?	NO	NO

Criterion 1: Vehicular Volume

The vehicular volume criterion is intended for application where the volume of intersecting traffic is the principal reason for considering installation of a right turn lane. The vehicular volume criteria are determined using the curve in Exhibit 7-2.

Exhibit 7-2 Right Turn Lane Criterion



Note: If there is no right turn lane, a shoulder needs to be provided. If this intersection is in a rural area and is a connection to a public street, a right turn lane is needed.



Right-Turn Lane Warrant Analysis (ODOT Methodology)

Project Name: Riverview Meadows

Approach: Southbound Northfork Road at River View Meadows Lane

Scenario: 2025 Background plus Site Trips

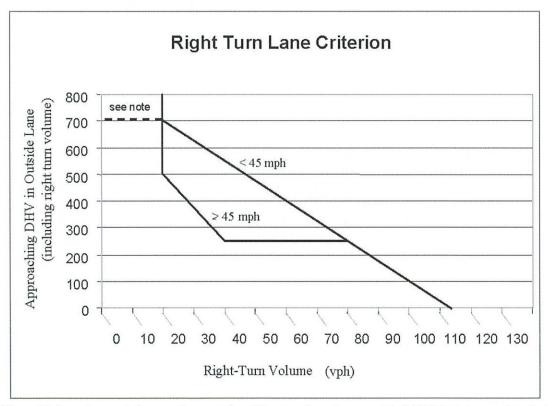
Major-Street Design Speed: 45 mph

	AM Volume	PM Volume
Number of Right Turns per Hour:	1	4
Approaching DVH in Outside Lane:	30	41
Calculated Turn Volume Threshold:	109	108
Right Turn Volume Exceeds Threshold?	NO	NO

Criterion 1: Vehicular Volume

The vehicular volume criterion is intended for application where the volume of intersecting traffic is the principal reason for considering installation of a right turn lane. The vehicular volume criteria are determined using the curve in Exhibit 7-2.

Exhibit 7-2 Right Turn Lane Criterion



Note: If there is no right turn lane, a shoulder needs to be provided. If this intersection is in a rural area and is a connection to a public street, a right turn lane is needed.



Speed Study Summary - Radar Data

Location: Northfork Nehalem River Road at South Site Access

Direction: Southbound
Date: August 10, 2022

Time: 7:00 AM Weather: Overcast Notes: None

85th Percentile Speed 39 mph Average Speed: 34 mph

25 mph ---- 0

Recorded Speeds:*

a specus.	
1 mph 0	26 mph 0
2 mph 0	27 mph 2
3 mph 0	28 mph 0
4 mph 0	29 mph 1
5 mph 0	30 mph 2
6 mph 0	31 mph 4
7 mph 0	32 mph 8
8 mph 0	33 mph 10
9 mph 0	34 mph 10
10 mph 0	35 mph 7
11 mph 0	36 mph 14
12 mph 0	37 mph 4
13 mph 0	38 mph 2
14 mph 0	39 mph 2
15 mph 0	40 mph 1
16 mph 0	41 mph 1
17 mph 0	42 mph 0
18 mph 0	43 mph 6
19 mph 2	44 mph 0
20 mph 0	45 mph 0
21 mph 0	46 mph 2
22 mph 0	47 mph 0
23 mph 2	48 mph 0
24 mph 0	49 mph 0



51 mph ----- 0 52 mph ---- 0 53 mph ---- 0 54 mph ---- 0 55 mph --- 0 57 mph --- 0 58 mph --- 0

59 mph ----- 0 60 mph ---- 0 61 mph ---- 0

62 mph ----- 0
63 mph ---- 0
64 mph ---- 0
65 mph --- 0
66 mph --- 0
67 mph --- 0
69 mph --- 0
70 mph --- 0
71 mph --- 0
72 mph --- 0
73 mph --- 0

75+ mph ---- 0

50 mph ---- 0

^{*} Speed data observations include free-flowing traffic only (i.e. no following vehicles)

Speed Study Summary - Radar Data

Location: Northfork Road at River View Meadows Lane

Direction: Southbound
Date: August 9, 2022
Time: 4:00 PM
Weather: Clear/Dry

Notes: None

85th Percentile Speed

41 mph

Average Speed:

36 mph

Recorded Speeds:*

ieu speeus.			
1 mph 0	26 mph	2	51 mph 0
2 mph 0	27 mph	0	52 mph 0
3 mph 0	28 mph	1	53 mph 0
4 mph 0	29 mph	0	54 mph 0
5 mph 0	30 mph	4	55 mph 0
6 mph 0	31 mph	0	56 mph 0
7 mph 0	32 mph	1	57 mph 0
8 mph 0	33 mph	4	58 mph 0
9 mph 0	34 mph	10	59 mph 0
10 mph 0	35 mph	10	60 mph 0
11 mph 0	36 mph	12	61 mph 0
12 mph 0	37 mph	3	62 mph 0
13 mph 0	38 mph	4	63 mph 0
14 mph 0	39 mph	8	64 mph 0
15 mph 0	40 mph	2	65 mph 0
16 mph 0	41 mph	8	66 mph 0
17 mph 0	42 mph	2	67 mph 0
18 mph 0	43 mph	3	68 mph 0
19 mph 0	44 mph	1	69 mph 0
20 mph 0	45 mph	2	70 mph 0
21 mph 0	46 mph	0	71 mph 0
22 mph 0	47 mph	0	72 mph 0
23 mph 0	48 mph	0	73 mph 0
24 mph 3	49 mph	0	74 mph 0
25 mph 0	50 mph	0	75+ mph 0

^{*} Speed data observations include free-flowing traffic only (i.e. no following vehicles)



Speed Study Summary - Radar Data

Location: Northfork Road at River View Meadows Lane

Direction: Northbound
Date: August 9, 2022
Time: 4:00 PM
Weather: Clear/Dry

Notes: None

85th Percentile SpeedAverage Speed:

40 mph 35 mph

Recorded Speeds:*

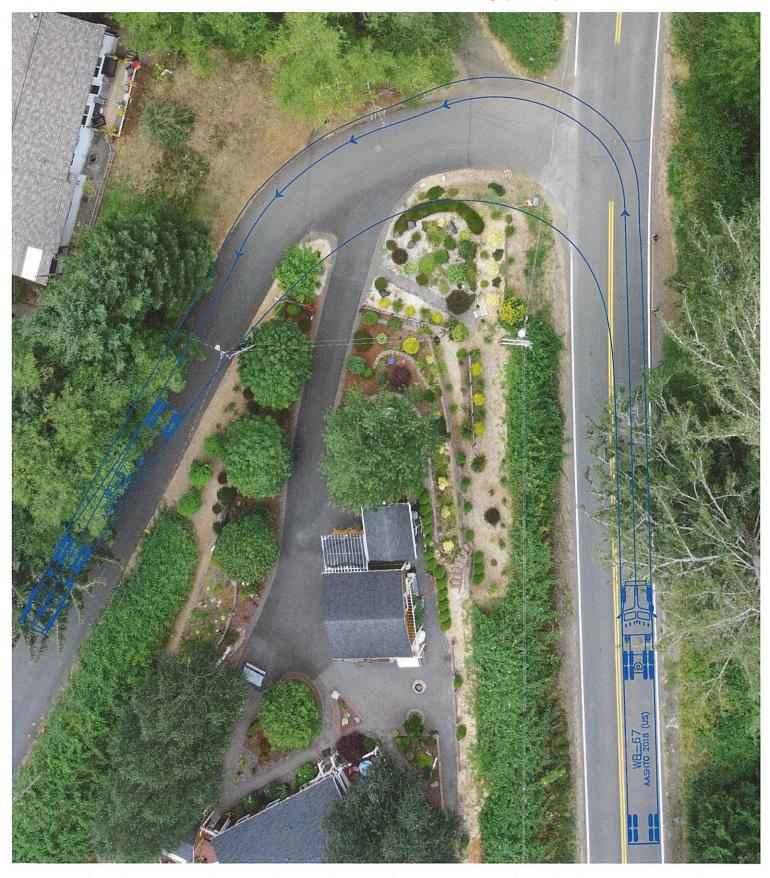
26 mph 1
27 mph 0
28 mph 1
29 mph 3
30 mph 8
31 mph 7
32 mph 7
33 mph 6
34 mph 10
35 mph 6
36 mph 3
37 mph 0
38 mph 5
39 mph 7
40 mph 4
41 mph 2
42 mph 2
43 mph 2
44 mph 1
45 mph 0
46 mph 0
47 mph 4
48 mph 0
49 mph 0
50 mph 0



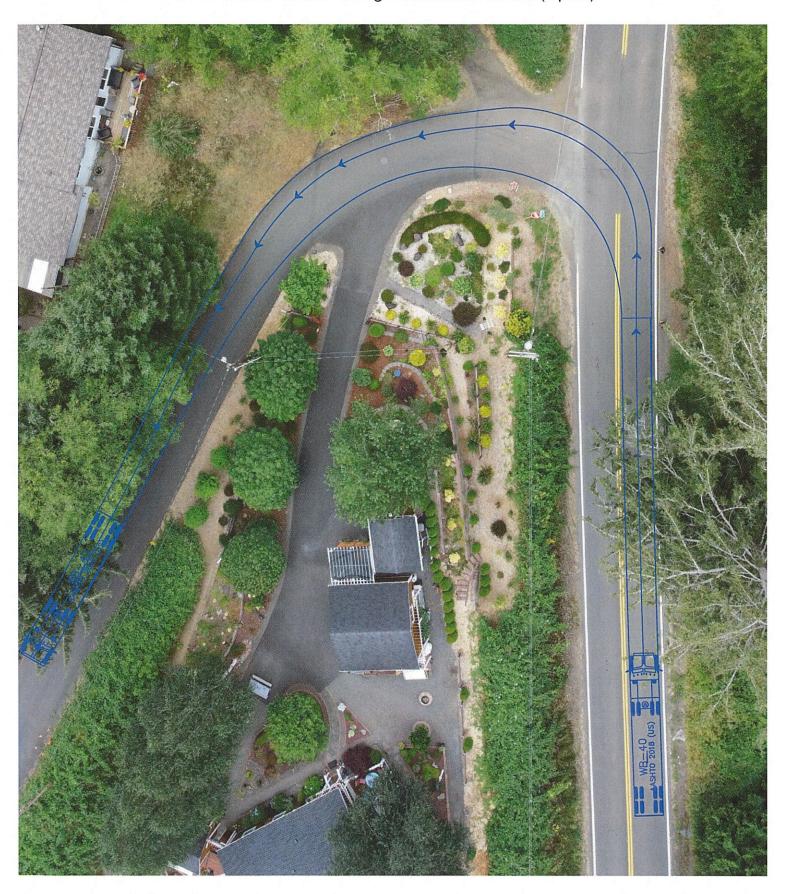
⁵¹ mph ---- 0 52 mph ---- 0 53 mph ---- 0 54 mph ---- 0 55 mph ---- 0 56 mph ---- 0 57 mph ---- 0 58 mph ---- 0 59 mph ---- 0 60 mph ---- 0 61 mph ----- 0 62 mph ---- 0 63 mph ---- 0 64 mph ---- 0 65 mph ---- 0 66 mph ---- 0 67 mph ---- 0 68 mph ---- 0 69 mph ---- 0 70 mph ---- 0 71 mph ---- 0 72 mph ---- 0 73 mph ---- 0 74 mph ----- 0 75+ mph ---- 0

^{*} Speed data observations include free-flowing traffic only (i.e. no following vehicles)

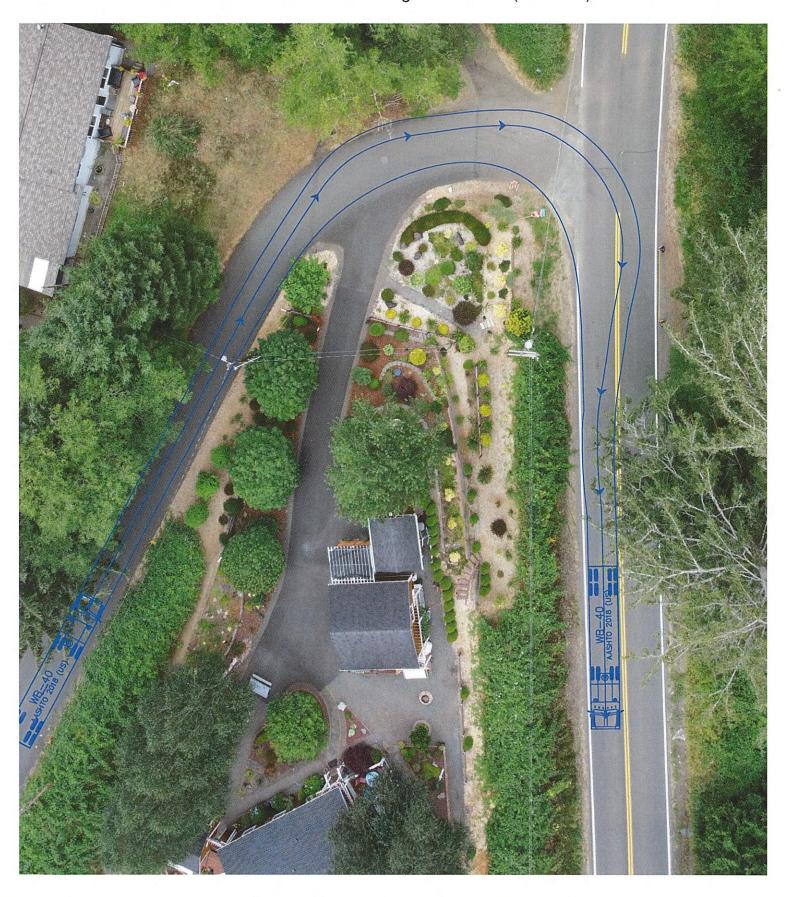
WB-67 Interstate Truck Offtracking (Uphill)



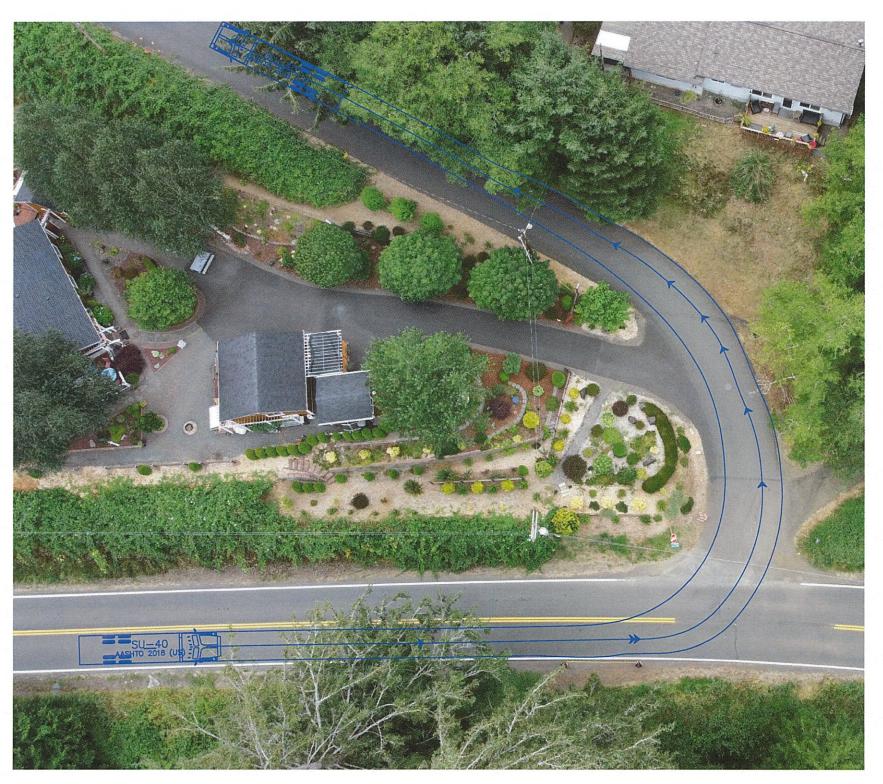
WB-40 Tractor Trailer Using Both Travel Lanes (Uphill)



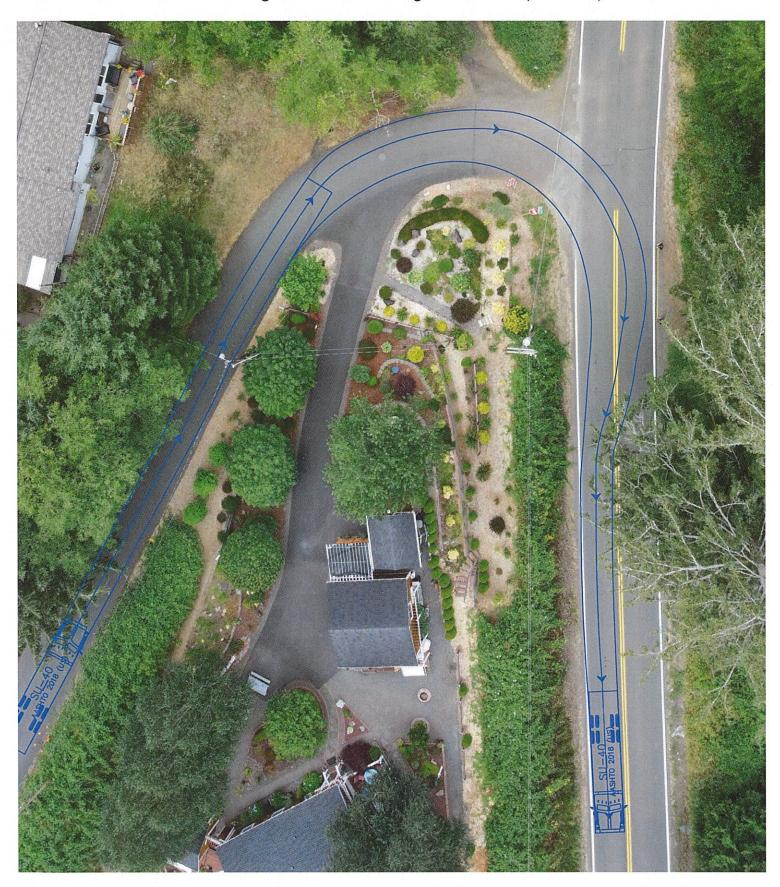
WB-40 Tractor Trailer Using Both Lanes (Downhill)



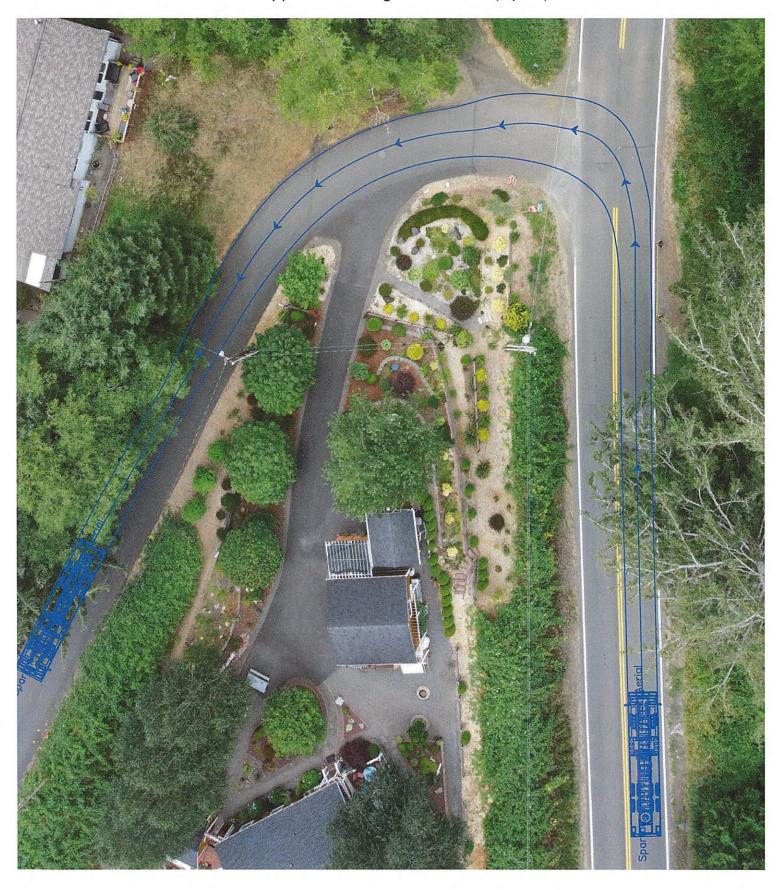
SU-40 Single-Unit Truck Using Both Lanes (Uphill)



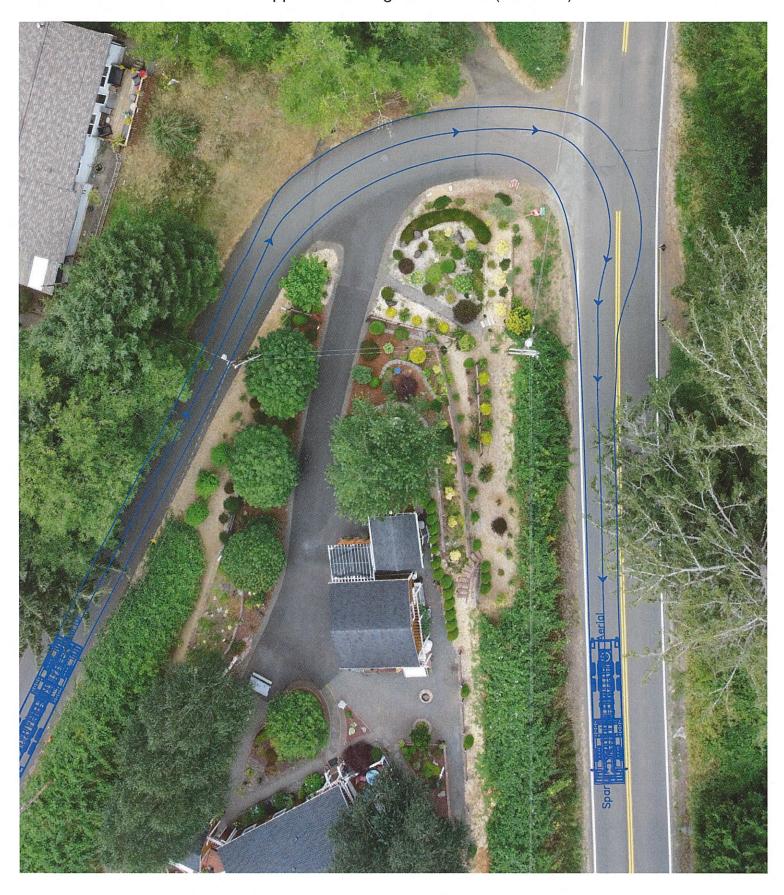
SU-40 Single-Unit Truck Using Both Lanes (Downhill)



Fire Apparatus Using Both Lanes (Uphill)



Fire Apparatus Using Both Lanes (Downhill)



Passenger Cars with Two-Way Traffic



Tillamook County, Oregon 10/19/2022 03:54:50 PM

2022-006423

DEED-ESMAT

\$25.00 \$11.00 \$61.00 \$10.00 - Total =\$107.00



I hereby certify that the within instrument was received for record and recorded in the County of Tillamook, State of Oregon.

Tassi O'Neil, Tillamook County Clerk

AFTER RECORDING RETURN TO:

Riverview Meadows Development LLC 23765 SE Highway 212 Damascus, OR 97089

SEND TAX STATEMENT TO:

NO CHANGE

SPACE ABOVE RESERVED FOR RECORDING LABEL

EASEMENT

Know by all persons present, that Vern Scovell ("Grantor"), for consideration of the mutual promises exchanged herein and other good and valuable consideration exchanged with Riverview Meadows Development LLC, ("Grantee"), does hereby grant a non-exclusive easement for public access over, under and across the real property described herein, for the benefit of the real property as described herein, all being more particularly described herein.

EASEMENT RECITALS

- Α. Grantor is the owner of the real property ("Parcel 1") being legally described, and pictorially described, in the attached Exhibit A.
- Grantee is the owner of the real property ("Parcel 2") being legally described as B. follows:

Tract B, RIVERVIEW MEADOWS PHASE I, situated in the Northwest quarter of Section 23, Township 3 North, Range 10 West, Willamette Meridian, County of Tillamook, State of Oregon, recorded July 26, 2010 as instrument No. 2010-004288, Tillamook County Records.

- Parcel 1 and Parcel 2 are in close proximity to each other and are, or will be, connected by way of an additional public easement.
- It is the intent of the parties herein named to create a non-exclusive, public access, D. and permanent right to enter, re-enter, and use Parcel 1, subject to conditions as set forth herein, for the benefit of Grantee's Parcel 2, and the general public.
- The non-exclusive easement will be used for public and private ingress and egress purposes by the general public, by Grantee, and by Grantee's successors in ownership of Grantee's Parcel 2.

1 of 4 - Easement Consideration Q foro

- F. Additionally, the non-exclusive easement for public access and public and/or private utilities, shall also include the right to lay, construct, and maintain streets, water mains, sewer mains, storm drainage lines, and all related appurtenances, to be constructed and located on, across, under or over Parcel 1.
- G. The parties agree that any unknown defect in the above Easement Area due to inaccuracy will not hinder the intent of the parties.

IT IS FURTHER UNDERSTOOD and AGREED:

- The foregoing Easement Recitals paragraphs are contractual and not merely recitals, and are incorporated by this reference.
- 2. The rights and obligations of all the easements herein shall run with and be appurtenant to those parcels of land as described, and shall not be personal to any person, except that the obligation to pay for the costs and expenses (for costs and expenses incurred while a person was an owner) shall be personal to the owners of the described parcels, as well as run with the described parcels.
- Grantee, and the general public shall have a non-exclusive, public access, and permanent right to enter, re-enter, and use Parcel 1 being legally described, and pictorially described, in the attached Exhibit A, subject to conditions as set forth herein, for the benefit of Grantee's Parcel 2. The easement shall include the right of the Grantor or Grantee to reasonably improve the surface of the easement area herein described; costs of any improvements to the easement area shall be borne by Grantee, their successors and assigns. Any improvement to the easement area shall be in compliance with all applicable local, state, and federal law.
- 4. Grantee shall have a non-exclusive easement for public access and public and/or private utilities, to include the right to lay, construct, and maintain streets, water mains, sewer mains, storm drainage lines, and all related appurtenances, to be constructed and located on, across, under or over Parcel 1.
- Grantor agrees that the consideration recited herein is just compensation for the property rights herein granted.
- 6. Grantor represents and warrants that Grantor has the authority to grant the easement and that the easement area is free from all liens and encumbrances that would materially affect the easement grant, and that they will defend this easement grant against all lawful claims and demands of all persons whomsoever with respect to any liens or encumbrances that would materially affect the easement grant.

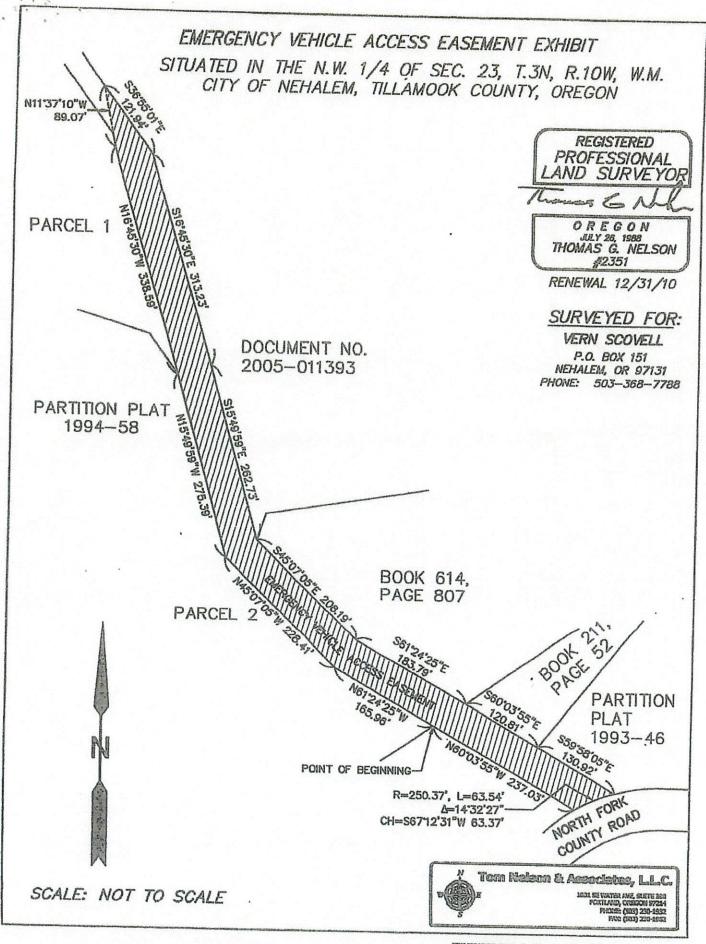
[SIGNATURE PAGE FOLLOWS]

The parties above named have here 2022.	eunto set their hands this <u>('C'</u> day of October
GRANTOR:	GRANTEE: Riverview Meadows Development LLC
Vern Scovell Covell	Vern Scovell-Member
	Carmon Blelle
	Carey Sheldon, President of Sheldon Development Inc., Member
STATE OF OREGON County of	
This instrument was acknowledged by Vern Scovell, the above-named Grantor	before me on October 19th , 2022, and Member of Grantee.
OFFICIAL SEAL KERI RUANE SCOTT NOTARY PUBLIC - OREGON COMMISSION NO. 1009445 MY COMMISSION EXPIRES MARCH 7, 2025	ublic for Oregon
STATE OF OREGON	mission expires: March 7,2005
This instrument was acknowledged by Carey Sheldon, President of Sheldon De	pefore me on October K , 2022, evelopment Inc., Member of the above-named
Notary Public State of Washington	
000000 # 147272	ublic for Oregon Wayungton

EXHIBIT A

EASEMENT SITUATED IN THE NORTHWEST ONE-QUARTER OF SECTION 23, TOWNSHIP 3 NORTH, RANGE 10 WEST, OF THE WILLAMETTE MERIDIAN, CITY OF NEHALEM, TILLAMOOK COUNTY, OREGON:

BEGINNING AT THE MOST EASTERLY SOUTHEAST CORNER OF PARCEL 2, PARTITION PLAT NO. 1994-58, TILLAMOOK COUNTY PLAT RECORDS; THENCE NORTH 61°24'25" WEST ALONG THE EAST LINE OF SAID PARTITION PLAT NO. 1994-58, A DISTANCE OF 165.96 FEET; THENCE NORTH 45°07'05" WEST CONTINUING ALONG SAID EAST LINE, A DISTANCE OF 228.41 FEET; THENCE NORTH 15°49'59" WEST CONTINUING ALONG SAID EAST LINE, A DISTANCE OF 275.39 FEET; THENCE NORTH 16°45'30" WEST CONTINUING ALONG SAID EAST LINE, A DISTANCE OF 338.59 FEET; THENCE NORTH 11°37'10" WEST CONTINUING ALONG A PORTION OF SAID EAST LINE, A DISTANCE OF 89.07 FEET TO THE WEST LINE OF THAT PROPERTY DESCRIBED IN DOCUMENT NO. 2005-011393, TILLAMOOK COUNTY DEED RECORDS; THENCE SOUTH 36°55'01" EAST ALONG THE WEST LINE OF SAID DOCUMENT NO. 2005-011393, A DISTANCE OF 121.94 FEET; THENCE SOUTH 16°45'30" EAST ALONG SAID WEST LINE OF DOCUMENT NO. 2005-011393, A DISTANCE OF 313.23 FEET; THENCE SOUTH 15°49'59" EAST ALONG SAID WEST LINE OF DOCUMENT NO. 2005-011393, A DISTANCE OF 262.73 FEET TO THE MOST WESTERLY CORNER OF THAT PROPERTY DESCRIBED IN BOOK 614, PAGE 807, TILLAMOOK COUNTY DEED RECORDS; THENCE SOUTH 45°07'05" EAST ALONG THE SOUTHWESTERLY LINE OF SAID PROPERTY DESCRIBED IN BOOK 614, PAGE 807, A DISTANCE OF 208.19 FEET; THENCE SOUTH 61°24'25" EAST CONTINUING ALONG SAID SOUTHWESTERLY LINE OF PROPERTY DESCRIBED IN BOOK 614, PAGE 807, A DISTANCE OF 183.79 FEET TO THE MOST SOUTHWESTERLY CORNER OF THAT PROPERTY DESCRIBED IN BOOK 211, PAGE 52, TILLAMOOK COUNTY DEED RECORDS; THENCE SOUTH 60°03'55" EAST ALONG THE SOUTHWESTERLY LINE OF SAID PROPERTY DESCRIBED IN BOOK 211, PAGE 52, A DISTANCE OF 120.81 FEET TO THE MOST WESTERLY CORNER OF PARTITION PLAT NO. 1993-46, TILLAMOOK COUNTY PLAT RECORDS; THENCE SOUTH 59°58'05" EAST ALONG THE SOUTHERLY LINE OF SAID PARTITION PLAT NO. 1993-46, A DISTANCE OF 130.92 FEET TO THE WEST RIGHT-OF-WAY LINE FOR NORTH FORK COUNTY ROAD; THENCE ALONG 250.37 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT, THROUGH A CENTRAL ANGLE OF 14°32'27", A LENGTH OF 63.54 FEET, THE LONG CHORD OF WHICH BEARS SOUTH 67°12'31" WEST 63.37 FEET; THENCE NORTH 60°03'55" WEST, A DISTANCE OF 237.03 FEET TO THE POINT OF BEGINNING



AFTER RECORDING RETURN TO:

Riverview Meadows Development LLC 23765 SE Highway 212 Damascus, OR 97089 Tillamook County, Oregon 10/20/2022 02:40:51 PM DEED-ESMAT

2022-006452

\$30.00 \$11.00 \$61.00 \$10.00 - Total =\$112.00



I hereby certify that the within instrument was received for record and recorded in the County of Tillamook, State of Oregon.

Tassi O'Neil, Tillamook County Clerk

SEND TAX STATEMENT TO:

NO CHANGE

SPACE ABOVE RESERVED FOR RECORDING LABEL

EASEMENT

Know by all persons present, that Donald E. Dillard ("Grantor"), for consideration of the mutual promises exchanged herein and other good and valuable consideration exchanged with Riverview Meadows Development LLC, ("Grantee"), which Grantor hereby acknowledges, does hereby grant a non-exclusive easement for public access over, under and across the real property described herein, and for public and/or private utilities, for the benefit of the real property as described herein, all being more particularly described herein.

EASEMENT RECITALS

A. Grantor is the owner of the real property ("Parcel 1") being legally described as:

Tract A, RIVERVIEW MEADOWS PHASE I, in the County of Tillamook, State of Oregon, recorded July 26, 2010 in Plat Cabinet B1142-0, Tillamook County Records.

B. Grantee is the owner of the real property ("Parcel 2") being legally described as follows:

Tract B, RIVERVIEW MEADOWS PHASE I, situated in the Northwest quarter of Section 23, Township 3 North, Range 10 West, Willamette Meridian, County of Tillamook, State of Oregon, recorded July 26, 2010 as Instrument No. 2010-004288, Tillamook County Records.

- C. Parcel 1 and Parcel 2 are adjacent to each other.
- D. It is the intent of the parties herein named to create a non-exclusive, public access, and permanent right to enter, re-enter, and use Parcel 1, subject to conditions as set forth herein, for the benefit of Grantee's Parcel 2, and the general public.

1 of 4 - Easement

Consideration up to 50,000.00

- E. The non-exclusive easement will be used for public and private ingress and egress purposes by the general public, by Grantee, and by Grantee's successors in ownership of Grantee's Parcel 2.
- F. Additionally, the non-exclusive easement for public access and public and/or private utilities, shall also include the right to lay, construct, widen and maintain streets, water mains, sewer mains, storm drainage lines, and all related appurtenances, to be constructed and located on, across, under or over Parcel 1.
 - G. The parties agree that any unknown defect in the above Easement Area due to inaccuracy will not hinder the intent of the parties.

IT IS FURTHER UNDERSTOOD and AGREED:

- 1. The foregoing Easement Recitals paragraphs are contractual and not merely recitals, and are incorporated by this reference.
- 2. The rights and obligations of all the easements herein shall run with and be appurtenant to those parcels of land as described, and shall not be personal to any person, except that the obligation to pay for the costs and expenses (for costs and expenses incurred while a person was an owner) shall be personal to the owners of the described parcels, as well as run with the described parcels.
- Grantee and the general public shall have a non-exclusive, public access, and 3. permanent right to enter, re-enter, and use a portion of Parcel 1 being legally described in the attached EXHIBIT "A", and pictorially described in the attached EXHIBIT "B", subject to conditions as set forth herein, for the benefit of Grantee's Parcel 2 and the general public. The easement shall include the right of the Grantor or Grantee to reasonably improve the surface of the easement area herein described; costs of any improvements to the easement area shall be borne by Grantee, their successors and assigns. Any improvement to the easement area shall be in compliance with all applicable local, state, and federal law. In the event such applicable local, state, and federal law shall require broader access to Parcel 1 for the purposes set forth herein, then the portion of Parcel 1 being legally described in the attached EXHIBIT "A", and pictorially described in the attached EXHIBIT "B", shall increase in scope, and shall be geographically or otherwise broadened to meet such applicable local, state, and federal law without affecting the validity of the easement granted herein.
- 4. Grantee shall have a non-exclusive easement for public access and public and/or private utilities, to include the right to lay, construct, and maintain streets, water mains, sewer mains, storm drainage lines, and all related appurtenances, to be constructed and located on, across, under or over Parcel 1. Any improvement to the easement area shall be in compliance with all applicable local, state, and federal law.

- Grantor agrees that the consideration recited herein is just compensation for the property rights herein granted. Specifically, Grantor has granted this easement in consideration of an Easement Agreement dated September 20, 2022 wherein Grantee agrees to pay Grantor the sum of \$25,000.00 upon execution of this Agreement, and Grantee agrees, if practicable, to install two access gates for security purposes. If it is not practicable to install the access gates, Grantee shall pay Grantor an additional sum of \$25,000.00.
- 6. Grantor represents and warrants that Grantor has the authority to grant the easement and that the easement area is free from all liens and encumbrances that would materially affect the easement grant, and that they will defend this easement grant against all lawful claims and demands of all persons whomsoever with respect to any liens or encumbrances that would materially affect the easement grant.

[SIGNATURE PAGE FOLLOWS]

The parties above named 2022.	have hereunto set their hands this 19_day of October,
GRANTOR:	GRANTEE: Riverview Meadows Development LLC
Donald E. Dillard	Carey Sheldon, President of Sheldon Development Inc., Member
STATE OF OREGON County of TILLAMED LA	
This instrument was ackn by Donald E. Dillard, the above-	owledged before me on <u>0c7688x 19</u> , 2022, named Grantor.
OFFICIAL STAMP HILARY ANNE HOWELL NOTARY PUBLIC - OREGON COMMISSION NO. 1003646 Y COMMISSION EXPIRES SEPTEMBER 09, 2024	Notary Public for Oregon My Commission expires: 69/69/2024
STATE OF OREGON County of MAN	
This instrument was acknown by Carey Sheldon, President of Stantee.	owledged before me on OHOW (, 2022, Sheldon Development Inc., Member of the above-named
Notary Public State of Washington SHAUNA NELSON COMM. # 147372 MY COMM. EXP. 10/02/2024	Notary Public for Oregon Nation and My Commission expires: 10 10 2 20 24
Construction and the second	wy Commission expires. W 1020001

PO Box 955

Sandy, Oregon 97055

Phone: 503-668-3151

Fax: 503-668-4730

EXHIBIT "A"

Legal Description over a portion of Tract 'A', "Riverview Meadows Phase 1"

A TRACT OF LAND SITUATED IN THE NW 1/4 OF SECTION 23, TOWNSHIP 3 NORTH, RANGE 10 WEST, W.M., SHOWN AS AN "EMERGENCY VEHICLE ACCESS EASEMENT" IN "RIVERVIEW MEADOWS PHASE 1", RECORDED AS DOCUMENT NUMBER 2010-4288, TILLAMOOK COUNTY PLAT RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northwest corner of Tract 'A' of "Riverview Meadows Phase 1"; thence South 88°34'29" East, along the North line of said Tract 'A' of said "Riverview Meadows Phase 1", a distance of 531.12 feet, to the most Northeasterly corner of said Tract 'A' of said "Riverview Meadows Phase 1", said point also being the most Northwesterly corner of the right of way of Sunnyview Drive, as dedicated in said "Riverview Meadows Phase 1", said point also being the True Point of Beginning; thence South 01°25'31" West, along the West line of the said right of way of said Sunnyview Drive, a distance of 50.00 feet, to the Southwesterly corner of the said right of way of said Sunnyview Drive, said point also being on the North line of Lot 11 of said "Riverview Meadows Phase 1"; thence North 88°34'29" West, along the North line of said Lot 11 and the North line of Lot 10 of said "Riverview Meadows Phase 1" and the westerly extension thereof, a distance of 245.17 feet, to a point of curvature, said point is the beginning of a curve that will be referred to as Curve 1 from hereon; thence along said Curve 1, an 86.29 foot radius tangent curve to the left, an arc distance of 155.19 feet through a central angle of 103°02'41" (chord bears South 39°54'11" West 135.10 feet) to a point of tangency, said point is the beginning of a line that will be referred to as Line 1 from hereon; thence along said Line 1, South 11°37'10" East, a distance of 272.73 feet, to an angle point; thence leaving said Line 1, South 16°45'30" East, a distance of 23.52 feet more or less, to a point on the West line of said Tract 'A' of said "Riverview Meadows Phase 1", said point being marked with a 5/8" iron rod with a yellow plastic cap marked "PLS 2351"; thence North 36°55'01" West, along the said West line of said Tract 'A' of said "Riverview Meadows Phase 1", a distance of 121.86 feet more or less, to a point that is 50 feet from, when measured at right angles to, the previously described Line 1; thence leaving the said West line of said Tract 'A' of said "Riverview Meadows Phase 1", 50 feet from and parallel with said Line 1, North 11°37'10" West, a distance of 185.81 feet to a point of curvature; thence along a 136.29 foot radius tangent curve to the right, 50 feet from and parallel with said Curve 1, an arc distance of 245.11 feet through a central angle of 103°02'36" (long chord bears North 39°54'08" East 213.39 feet), to a point on the said North line of said Tract 'A' of said "Riverview Meadows Phase 1"; thence South 88°34'29" East, along the said North line of said Tract 'A' of said "Riverview Meadows Phase 1", a distance of 245.17 feet, to the True Point of Beginning. Containing 32,711 square feet, more or less.

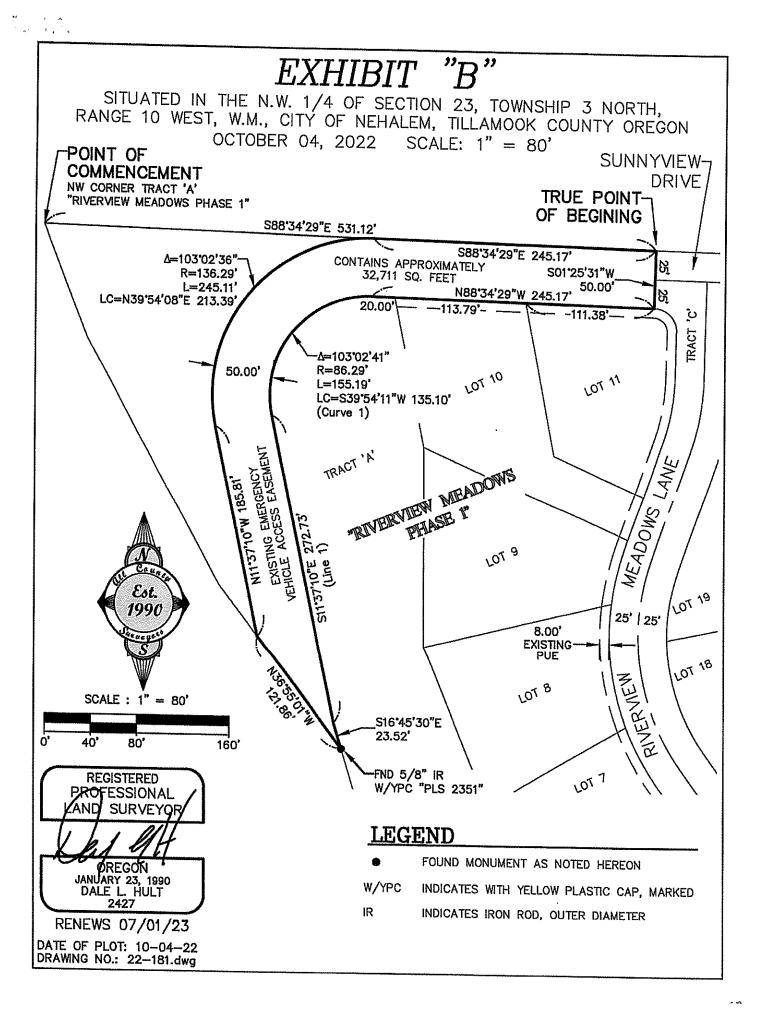
Basis of bearings for this description is from Document Number 2010-4288, Tillamook County Plat Records.

REGISTERED PROFESSIONAL LAND SURVEYOR

> ØREGON JANUARY 23, 1990 DALE L. HULT 2427

RENEWS 07/01/23

Affiliated: Professional Land Surveys of Oregon • American Congress of Surveying and Mapping



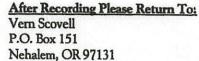
Tillamook County, Oregon 01/21/2010 09:53:19 AM DEED-CCR

2010-000375

\$40.00 \$11.00 \$16.00 \$10.00 - Total = \$77.00

hereby certify that the within instrument was received for record and recorded in the County of Tillamook, State of Oregon.

Tassi O'Neil, Tillamook County Clerk



DECLARATIONS OF CONDITIONS AND RESTRICTIONS AFFECTING LAND LOCATED IN TILLAMOOK COUNTY, OREGON

The undersigned (hereafter "Declarants") being the owners in fee simple of that real property located in Tillamook County, Oregon, described in the attached Exhibit A(hereafter referred to as "Riverview Meadows Phase 1") incorporated herein by reference, do hereby make the following declaration of conditions, covenants, and restrictions (hereafter "CCR's") covering the above described property, specifying that this declaration shall constitute covenants to run with all of the land and shall be binding on all persons claiming under and through them and these conditions and restrictions shall be for the benefit of and limitations upon all future owners of said real property;

Where used herein, the term "Declarants" unless specified otherwise, shall mean the undersigned, their successors, heirs and assigns. Where used herein the term "lot" shall mean one of the lots 1 through 20 of Riverview Meadows Phase 1. Where used herein the term "owner" shall mean the owner of a lot within Riverview Meadows Phase 1 whether that owner be one or more persons, trust(s), corporation(s), limited liability company(ies), similar entity, or group or combination of entities.

- USE OF LOT. No lot shall be used except for single-family residential purposes, or except for the placement of an accessory storage structure to benefit an adjoining lot in common ownership.
- 2. HEIGHT RESTRICTIONS. Notwithstanding paragraph 17 below, Declarants expressly reserve solely to themselves the right to impose building height restrictions on any lot within Riverview Meadows Phase 1, and or such further property annexed pursuant to paragraph 14 below, for so long as Declarants, or either of them, are an owner of a lot therein. For purposes of the foregoing sentence, Declarants shall not include their heirs, successors, or assigns. Such restrictions shall be imposed by recorded declaration in the Tillamook County Clerk's office in deed records and shall specifically reference these CCR's and the Declarants' right reserved by this paragraph. For purposes of these CCR's, "height" shall mean the vertical distance of a building measured from grade to the highest point of the roof; and "grade" shall mean the average elevation of the existing ground at the centers of all walls of a building.
- 3. SQUARE FOOTAGE. The minimum square footage of any residence on any lot shall be no less than 1200 square feet for a single level residence and no less than 1600 square feet for a multi-level residence. These square footage restrictions shall not apply to accessory structures, nor shall the square footage of any accessory structure be counted in determining the square footage of a residence.

- 4. TYPES OF STRUCTURES. Mobile homes, trailers, metal sheds, and pole buildings shall not be placed nor constructed on any lot. Pre-built modular and manufactured homes, as those terms are commonly used, shall be permitted. No structure erected on a lot shall possess aluminum or other metal siding. Roofing may be of wood, tile, metal, or composite material.
- 5. TIME FOR COMPLETION OF CONSTRUCTION. The construction of any residential structure shall, insofar as the exterior thereof is concerned, be completed within one (1) year from the date construction commences. All landscaping shall be completed within six months of substantial completion of any residential structure erected upon a lot.
- 6. TEMPORARY STRUCTURES. No temporary structure, excepting a recreational vehicle, shall be erected or placed upon the premises, except that a temporary structure shall be permitted on a lot during the period of construction of a single family dwelling, but such temporary structure shall be removed within thirty (30) days of completion of said dwelling house or within eighteen (18) months after the date said temporary structure was erected, whichever period expires first.
- 7. ANIMALS. No animals, livestock or poultry of any kind shall be raised, bred or kept on any lot excepting any dog, cat or household pets may be kept provided that they are not kept, bred or maintained for commercial purposes.
- 8. BUSINESS ACTIVITY. No business, trade or manufacture of any sort shall be conducted upon any of the above described property save and except for a home businesses wherein no signs, structures or other indicia of the business are apparent from outside any dwelling and such business does not result in any traffic to and from the property in excess of ordinary residential traffic. However, this paragraph shall not prohibit an owner from renting a dwelling to a third party, but under no circumstances shall such rental be for a rental term of less than 30 days. No signs shall be erected or maintained on any lot, save and except that one "for sale" or "for rent" sign not more than 24 inches high and 36 inches wide may be placed on a property on a temporary basis. The foregoing sign restrictions shall not apply to Declarants advertising lots for sale.
- 9. UPKEEP OF LOT. Each lot shall be maintained in a good and clean condition and free of hazards to the adjacent property and to the occupants thereof. All weeds and brush including but not limited to tansy, ragwort and blackberries shall be cut, poisoned or otherwise controlled and kept down. All garbage and other waste and debris shall be kept in appropriate sanitary containers for proper disposal and out of public view. Yard raking and dirt resulting from landscaping work shall not be dumped onto streets, roads, or other owner's lots. No noxious or offensive activity shall be carried on upon any lot, nor shall anything be done, grown or placed upon any lot which interferes with or jeopardizes the enjoyment of other lot owners within the property affected by these CCR's.
 - FENCES. No fence or wall shall be erected or placed on any lot in the above

F:\REALPROP\CCRS\Scovel, V\2009 docs\Scovel CCR.wpd

described subdivision exceeding four (4) feet in height. However, chain-link fences or similar fencing which does not completely obscure a view may be a maximum of six (6) feet in height.

- 11. UTILITIES. No outdoor overhead wire or service drop for the distribution of electric energy or for telecommunication purposes, nor any pole, tower or other structure supporting said overhead wire shall be erected within the property affected by these CCR's. All owners shall use underground wires to connect their residences and any accessory structures built upon any lots to power, television, and any other utilities.
- 12. VEHICLES. No owner shall permit any vehicle which is in a state of visible disrepair to be abandoned or to remain parked upon any lot or parcel or on any street for a period in excess of forty-eight (48) hours. All boats, trailers, motor homes, motorcycles, trucks, truck campers and like equipment shall be kept in an enclosed garage when not in actual use. Each lot shall contain parking area for at least three vehicles. Garage or accessory structure bays shall be counted fo the purposes of meeting this requirement.
- 13. MAINTENANCE AND IMPROVEMENT OF ACCESS ROAD. Access to the lots affected by these CCR's is served by private paved roads owned by Declarants over which owners have rights of ingress and egress. As a part of these conditions, covenants and restrictions, and notwithstanding the location of individual lots nor the use made by the respective owners of any lots, owners of property affected by these CCR's shall in the cost of routine maintenance and repair of said roadway and paving. Further, upon the unanimous decision of 75% of the owners of lots within the property affected by these CCR's improvements may be made to said roads, and each owner will likewise share an equal responsibility and liability for the costs of such improvement. Each owner's percentage share of the cost of maintenance, repair, and improvement, if applicable, shall be equal to the ratio which the number of lots owned by an owner bears to the total number of lots affected by these CCR's.
- 14. DRIVEWAYS. All driveways serving a residence on any property subject to this declaration shall be paved with asphalt, concrete, or stone no later than the date of completion of the construction of a residence on a lot, and the owner thereof shall keep any such driveway in good and workmanlike repair. Said driveway shall at a minimum reach from the property line of a lot to the paved edge of the road providing access to a lot and shall be a minimum of thirty (30) feet in width where it connects to the pavement on the access road, and a minimum of twenty-two (22) feet elsewhere. All driveways shall incorporate a minimum eighteen (18) inch culvert for drainage.
- 15. ANNEXATION. If, within 20 years of the recording of these CCR's, Declarants, their successors and assigns, shall develop additional land within the vicinity of the real property affected by these CCR's, such additional land may be annexed by Declarant, its successors and assigns, to the real property by filing a plat of the property(ies) to be annexed and adopting all declarations of the protective restrictions affecting Riverview Meadows Phase 1 in effect at the time and thereby making the same applicable to the annexed properties. There is no limitation on the number of additional lots, Phases, tracts, private tracts or common properties which may

be created or annexed to the real property under this paragraph by Declarant, its successors or assigns.

- SEVERABILITY. Invalidation of any of these covenants shall in no way affect any of the other provisions, which shall remain in full force and effect.
- 17. DURATION/AMENDMENT/REVOCATION. All of the conditions, covenants, restrictions and reservations set forth in this declaration are imposed upon the property covered hereby for the direct benefit thereof and of the owners thereof. Such conditions and restrictions shall run with the land and shall be binding upon any person who shall acquire any interest in the property covered hereby. Said conditions, covenants, restrictions and reservations shall remain in effect for a period of thirty (30) years from the date of this declaration. These conditions, covenants and restrictions may be amended or revoked by written document signed by the owners of seventy-five percent (75%) of the lots within the subdivision, but in no event may they be amended or revoked without the written consent of Declarants so long as Declarants, or either one of them, own a lot or lots affected by these CCR's. For purposes of the foregoing sentence, Declarants shall not include their heirs, successors, or assigns.
- 18. BREACH AS NUISANCE. The result of every act of omission or commission or the violation hereof, whether such condition, covenant, restriction or reservation is violated in whole or in part, is hereby declared to be and to constitute a nuisance, which may prohibited and enjoined by an injunction. Such remedy shall be deemed cumulative and not exclusive of any and every other remedy allowed by law or equity against such a nuisance, whether public or private.
- 19. INUREMENT OF BENEFIT. The provisions contained in this declaration shall inure to the benefit of and be enforceable by any owner or the owners of any portion of the property covered hereby, and each of their legal representatives, heirs, successors and assigns. Failure by any property owner or their legal representatives, heirs, successors or assigns to enforce any of said conditions, covenants or restrictions herein contained shall in no event be deemed a waiver or failure of the right to do so thereafter.
- 20. ENFORCEMENT. Should suit or action be instituted to enforce any of the foregoing restrictions or covenants after written demand for the discontinuance of a violation thereof and failure to comply, then, whether said suit be reduced to judgment or decree or not, the owners seeking to enforce or to restrain any such violation shall be entitled to have and recover from such defendants in addition to the costs and disbursements allowed by law, such sum as the court may adjudge reasonable as attorney fees in such suit or action. In the event of any appeal, such parties shall be entitled to recover from the defendants on such appeal, such further sum as the court shall adjudge reasonable attorney fees.
- 21. EFFECT OF BREACH. The breach of any of the foregoing shall not defeat or render invalid, the lien of any mortgage or deed of trust made in good faith for value as to any of the said lots, provided, however, that the breach of any of the said conditions or restrictions may

be enjoined, abated or redressed by appropriate proceedings against any owner of the premises to which such violation applies, whether such ownership is acquired by purchase, foreclosure, devise, inheritance or in any other manner. IN WITNESS WHEREOF, Declarants have executed this instrument this 80 day of RIVERVIEW MEADOWS, LLC an Oregon Limited Liability Company. DECARANT DECLARANT STATE OF OREGON) ss. County of Tillamook 20 10 Personally appeared the above named Vern Scovell, Member of Riverview Meadows, LLC, an Oregon Limited Liability Company, and acknowledged the foregoing instrument to be his voluntary act and deed. Before me: tary Public for Oregon OFFICIAL SEAL JANET L LEASE NOTARY PUBLIC-OREGON STATE OF OREGON COMMISSION NO. 437751 MY COMMISSION EXPIRES MAY 25, 2013) ss. County of Tillamook anuary 30, 2010. Personally appeared the above named Vern Scovell, individually, and acknowledged the foregoing instrument to be his voluntary act and deed. Before me:

y Public for Oregon

OFFICIAL SEAL

JANET L LEASE
NOTARY PUBLIC-OREGON
COMMISSION NO. 437751
MY COMMISSION EXPIRES MAY 25, 2013

EXHIBIT A

Riverview Meadows Phase 1 subdivision located in Tillamook County, Oregon, described as follows:

COMMENCING AT A FOUND THREE INCH BRASS DISC COMMON TO SECTIONS 14, 15, 22 AND 23, TOWNSHIP 3 NORTH, RANGE 10 WEST OF THE WILLAMETTE MERIDIAN; THENCE, SOUTH 01°03'16" EAST ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF SECTION 23 ALSO THE WEST LINE OF THAT TRACT OF LAND FOUND IN BOOK 203, PAGE 253, TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 990.70 FEET TO A FOUND 5/8 INCH IRON ROD AT THE SOUTHWEST CORNER OF SAID TRACT OF LAND FOUND IN BOOK 203, PAGE 253; THENCE, SOUTH 88°34'29" EAST ALONG THE SOUTH LINE OF SAID TRACT OF LAND FOUND IN BOOK 203, PAGE 253, A DISTANCE OF 605.46 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351", SAID POINT BEING THE INITIAL POINT AND THE POINT OF BEGINNING; THENCE, SOUTH 21°14'48" EAST, A DISTANCE OF 104.78 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE SOUTH 28°36'50" EAST, A DISTANCE OF 239.81 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE SOUTH 36°55'01" EAST, A DISTANCE OF 177.89 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENGE, SOUTH 16°45'30" EAST, A DISTANCE OF 313.23 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, SOUTH 15°49'59" EAST, A DISTANCE OF 262.73 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351" AT THE MOST WESTERLY CORNER OF THAT TRACT OF LAND FOUND IN BOOK 614, PAGE 807, TILLAMOOK COUNTY DEED RECORDS; THENCE, NORTH 19°12'43" EAST ALONG THE NORTH LINE OF SAID BOOK 614, PAGE 807, A DISTANCE OF 39,77 FEET TO A FOUND 3/4 INCH IRON PIPE; THENCE, NORTH 80°3404" EAST ALONG SAID NORTH LINE, A DISTANCE OF 238.43 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, NORTH 75°38'04" EAST ALONG SAID NORTH LINE A DISTANCE OF 116.76 FEET TO A FOUND 1/2 INCH IRON PIPE; THENCE, SOUTH 71°12'17" EAST ALONG SAID NORTH LINE, A DISTANCE OF 146.57 FEET TO A FOUND 1/2 INCH IRON PIPE AT THE NORTHEAST CORNER OF SAID BOOK 614, PAGE 807, ALSO THE NORTHWEST CORNER OF A TRACT OF LAND FOUND IN BOOK 356, PAGE 435, TILLAMOOK COUNTY DEED RECORDS; THENCE, NORTH 74°16'15" EAST ALONG THE NORTH LINE OF SAID BOOK 356, PAGE 435, A DISTANCE OF 93.46 FEET TO A FOUND 1/2 INCH IRON PIPE; THENCE, NORTH 74°25'07" EAST ALONG SAID NORTH LINE, A DISTANCE OF 15.95 FEET TO A FOUND 5/8 INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "HLB INC"; THENCE, SOUTH 47°28'10" EAST ALONG SAID NORTH LINE, A DISTANCE OF 44.90 FEET TO A FOUND 1/2 INCH IRON PIPE; THENCE, SOUTH 47°28'10" EAST ALONG SAID NORTH LINE, A DISTANCE OF 51.70 FEET TO A FOUND

5/8 INCH IRON ROD WITH AN ILLEGIBLE YELLOW PLASTIC CAP; THENCE, NORTH 83°25'29" WEST ALONG SAID NORTH LINE, A DISTANCE OF 41.96 FEET TO A FOUND 5/8 INCH IRON ROD; THENCE, SOUTH 07°04'58" WEST ALONG SAID NORTH LINE, A DISTANCE OF 110.20 FEET TO A FOUND 5/8 INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "PLS 2351" ON THE NORTH LINE OF PARCEL 3, PARTITION PLAT 1993-46, TILLAMOOK COUNTY PLAT RECORDS; THENCE, SOUTH 68°36'58" EAST ALONG SAID NORTH LINE, A DISTANCE OF 112.89 FEET TO A FOUND 5/8 INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "HLB INC"; THENCE, NORTH 21°36'13" EAST ALONG SAID NORTH LINE, A DISTANCE OF 88.16 FEET TO A NON-TANGENT 120.00 FOOT RADIUS CURVE TO THE LEFT; THENCE, 25.27 FEET ALONG SAID NON-TANGENT CURVE, THROUGH AN INTERNAL ANGLE OF 12°03'52", THE CHORD OF WHICH BEARS SOUTH 75°24'03" EAST 25.22 FEET; THENCE, SOUTH 21°37'18" WEST ALONG THE EAST LINE OF SAID PARTITION PLAT, A DISTANCE OF 152.44 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "HLB INC"; THENCE, SOUTH 16°35'20" EAST ALONG SAID EAST LINE, A DISTANCE OF 165.14 FEET TO THE NORTH LINE OF NORTH FORK COUNTY ROAD AND THE SOUTHEAST CORNER OF PARCEL 1 OF SAID PARTITION PLAT; THENCE, ALONG A 328.10 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT, THROUGH AN INTERNAL ANGLE OF 4°52'13", THE LONG CHORD OF WHICH BEARS NORTH 75°40'49" EAST 27.88 FEET, A LENGTH OF 27.89 FEET ALONG THE NORTH LINE OF SAID NORTH FORK COUNTY ROAD; THENCE, NORTH 73°14'42" EAST ALONG SAID NORTH LINE OF NORTH FORK COUNTY ROAD, A DISTANCE OF 98.34 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351" AT THE SOUTH CORNER OF PARCEL 2 OF PARTITION PLAT 1999-38, TILLAMOOK COUNTY PLAT RECORDS; THENCE, NORTH 18°47'00" WEST ALONG THE WEST LINE OF SAID PARCEL 2, A DISTANCE OF 47.50 FEET TO A FOUND 1/2 INCH IRON PIPE; THENCE, NORTH 23°21'56" WEST ALONG THE WEST LINE OF THAT TRACT OF LAND FOUND IN BOOK 140, PAGE 98, TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 110.08 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, NORTH 21°32'12" EAST ALONG SAID WEST LINE, A DISTANCE OF 262.71 FEET TO A FOUND 3/4 INCH IRON PIPE; THENCE, NORTH 21°22'37" EAST ALONG SAID WEST LINE, A DISTANCE OF 88.69 FEET TO A FOUND 1/2 INCH IRON PIPE AT THE NORTHWEST CORNER OF SAID TRACT OF LAND FOUND IN BOOK 140, PAGE 98, ALSO THE SOUTHWEST CORNER OF THAT TRACT OF LAND FOUND IN BOOK 383, PAGE 513, TILLAMOOK COUNTY DEED RECORDS; THENCE, NORTH 15°53'25" EAST ALONG THE WEST LINE OF SAID BOOK 383, PAGE 513, A DISTANCE OF 185.86 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC STAMPED "PLS 2351"; THENCE, NORTH 74°50'00" EAST ALONG SAID WEST LINE, A DISTANCE OF 46.37 FEET TO A FOUND 5/8 INCH IRON PIPE WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351" ON THE WEST LINE OF SAID NORTH FORK COUNTY ROAD AND AN 848.51 FOOT RADIUS CURVE; THENCE, 51.28 FEET ALONG SAID CURVE TO THE RIGHT, WITH AN INTERNAL ANGLE OF 3°27'46", THE CHORD OF WHICH BEARS NORTH 02°22'26" WEST 51.27 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, SOUTH 74°50'00" WEST, A DISTANCE OF 85.98 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP

STAMPED "PLS 2351"; THENCE, SOUTH 15°53'25" WEST ALONG THE EAST LINE OF THAT TRACT OF LAND FOUND IN BOOK 345, PAGE 264, TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 211.72 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, SOUTH 21°22'37" WEST ALONG SAID EAST LINE, A DISTANCE OF 86.45 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 1205"; THENCE, NORTH 21°54'58" WEST ALONG THE WEST LINE OF SAID TRACT OF LAND FOUND IN BOOK 345, PAGE 264, A DISTANCE OF 103.87 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, NORTH 11°34'37" EAST ALONG SAID WEST LINE, A DISTANCE OF 66.30 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 1205"; THENCE, NORTH 10°27'18" EAST ALONG SAID WEST LINE, A DISTANCE OF 45.08 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 1205"; THENCE, NORTH 21°10'46" EAST ALONG SAID WEST LINE, A DISTANCE OF 118.36 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 1205"; THENCE, NORTH 05°06'03" EAST ALONG THE WEST LINE OF THOSE TRACTS OF LAND FOUND IN BOOK 359, PAGE 431, TILLAMOOK COUNTY DEED RECORDS, AND BOOK 369, PAGE 459, TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 681.37 FEET TO A FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, NORTH 23°06'19" WEST ALONG THE WEST LINE OF THAT TRACT OF LAND FOUND IN INSTRUMENT NUMBER 2000-388797. TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 953.20 FEET TO A FOUND 5/8" IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS 2351"; THENCE, NORTH 88°34'19" WEST ALONG THE SOUTH LINE OF SAID INSTRUMENT, ALSO BEING THE NORTH LINE OF SAID SECTION 23, A DISTANCE OF 328.04 FEET TO A 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "HLB INC"; THENCE SOUTH 01°17'07" EAST ALONG THE EAST LINE OF THAT TRACT OF LAND FOUND IN BOOK 203, PAGE 253, TILLAMOOK COUNTY DEED RECORDS, A DISTANCE OF 990.84 FEET TO A 5/8 INCH IRON ROD WITH AN ILLEGIBLE YELLOW PLASTIC CAP; THENCE, NORTH 88°34'29" WEST ALONG THE SOUTH LINE OF SAID TRACT OF LAND FOUND IN BOOK 203, PAGE 253, A DISTANCE OF 714.57 FEET TO THE INITIAL POINT AND THE POINT OF BEGINNING.



Nehalem Bay Wastewater Agency SEWER AVAILABILITY

Date:	: November 7, 2022				
To:	Tillamook County Building Department (Fax#503-842-				
From:	Nehalem Bay Wastewater Agency				
RE:	: Sewer Availability				
		ay Wastewater Agency, I confirm that sewer is			
	e to the following lo	ay Wastewater Agency, I confirm that sewer is of within our service area boundary: 10 23B TL3600			
available	e to the following lo	ot within our service area boundary: 10 23B TL3600			
available Owner o	e to the following lo	ot within our service area boundary:			

This letter shall not create a liability on the part of Nehalem Bay Wastewater Agency, or by an agent, or employee thereof, for the services described

Keri Scott, Executive Assistant Nehalem Bay Wastewater Agency

above.



Tillamook People's Utility District

Directors

David L. Burt Valerie S. Folkema Harry E. Hewitt Douglas S. Olson Barbara A. Trout

A Customer-Owned Electric Utility

Office: 503.842.2535 * Toll-free: 800.422.2535 * Fax: 503.842.4161

www.tpud.org

Todd Simmons GENERAL MANAGER

November 8, 2022

Riverview Meadows Development, LLC 23765 SE HWY 212 Damascus, OR 97089

RE:

Work Order No. 151514

Property Located at Riverview Meadows Subdivision, Phases 1, 2 and 3

Dear Representative:

This letter is to certify that the Tillamook People's Utility District will extend electrical service to the above referenced facility in accordance with PUD Policy 4-2 which is in effect at the time service is extended.

Sincerely,

TILLAMOOK PEOPLE'S UTILITY DISTRICT

Zachary Hudspeth

Engineering Supervisor, Distribution

503-815-8629

ZH:ja

Enclosure

Nehalem Bay Fire & Rescue District Building Review & Approval Form

36375 Hwy 101 N. Nehalem, OR 97131 Office 503-368-7592 Fax 503-368-7580

This form must be completed and signed by the Fire District prior to applying for a Building Permit or Manufactured Dwelling Placement Permit. Township Range Section 1/4 Sect 1/16 Sect Tax Lot# (00500) **Property Address:** 3N 3600 Tract B of Riverview Meadows Subdivision Legal Property Owner(s): Property Owner's(s') Mailing Address: Riverview Meadows Development, LLC. 23765 SE Hwy 212 Damascus, OR 970 Form Requested by: Requestor's Relationship to Property: Requestor's phone # and email: Prini Lee McCord Junior Partner 971.808.7611 / PriniLee@JPLinvestme Proposed Develoment/Construction Water Source: Water District: Water District -Residential Nehalem -Fire District to Complete Information Below-1. Does access road comply with Tillamook County Fire Defense Board Access Guidelines? Yes, it complies. No, it does not comply. See comments section below 2. Is there a hydrant within 1000' of the property? Yes, approximate GPM Hydrant # No, Fire District water shuttle operation is needed The current fire access road will become the new primary access and meets Comments: the TCFDB Guidelines. All roads created within the development must comply with these guidelines as they are improved. A copy of the guidelines has been provided to developer 3. Action Taken: I have reviewed the information regarding the poperty listed above and approve. I have reviewed the information regarding the property listed above and do not approve for the following reason(s): Captain Frank Knight III Printed Name: Date: 12/7/22 Signature: Frank Knight III



Date:	11/08/2022				
To:	TILLAMOOK COUNTY BUILDING DEPARTMENT				
Re:	WATER SERVICE AVAILABILITY				
Attn:	Building Department				
govern Service develo subject service	rm that the property listed below is within the City's water service area, and may ved water through the City's Water System under the Terms and Conditions ed by the latest version of the City's Water Ordinance. Please note: This Water Availability letter does not certify, approve or acknowledge any specific pment plans, water or other utility installations that may be necessary for the transfer to actually physically connect to the City's water system to receive the This letter only certifies that the subject property may receive (or may already water from the City's Water System.				
SITUS	SHIP 3N RANGE 10 SECTION 23B TAX LOT(S) 03600 ADDRESS: Tract B of Riverview Meadows Subdivision Phase 1 Riverview Meadows Development, LLC PHONE, 503 453 5599				
	FHONE:				
WAILI	NG ADDRESS: 23765 SE Hwy 212				
	Damascus, OR 97089				
Single	Family Other				
Comm	ents: For proposed Phase 3, 36-lot subdivision. Subject to City's conditions of				
approv	al set forth in County's tentative plat approval for Phase 2, #851-21-000415-PLNC				
Signe	i: Mulisse Shagen King City Manager Name Title				
	Name Title				

City of Nehalem • 35900 8th Street • PO Box 143 • Nehalem, Oregon 97131 • (503) 368-5627



PriniLee K. McCord <prinilee@trevallygroup.us>

Riverview Meadows 2

4 messages

Wendie Kellington <wk@klgpc.com>
To: Sarah Absher <sabsher@co.tillamook.or.us>
Cc: Carey Sheldon <careysheldon17@yahoo.com>, PriniLee McCord <prinilee@trevallygroup.us>

Sun, Oct 9, 2022 at 3:11 PM

Hi Sarah,

As you know, we represent Sheldon Development and Carey Sheldon (SD) in their effort to receive approval of the next phases of the residential subdivision known as Riverview Meadows(RVM) – a housing development proposal on land in the UGB zoned for residential use in which residences are uses permitted outright. Please include this email and its attachment in the record of that RVM2 matter. As you know, because we are talking about the development of housing, only clear and objective approval standards may be applied and the standards have to be clear and objective on their face. ORS 215.416(4)(b) and (8) (b). To the extent that commentors wish to have subjective value laden or ambiguous standards be applied, that is inappropriate as you know. Nieto v. City of Talent, ____ Or LUBA ___ (LUBA No. 2020-100, March 10, 2021); Walter v. City of Eugene, 73 Or LUBA 356, 360-64 (2016). Also, as you know, the standards that are applied to the subdivision must be codified in the county (or city's as appropriate) code. ORS 215.416(8)(a); Waveseer v. Deschutes County, 308 Or App 494 (2021); Nehmzow v. Deschutes County, 308 Or App 533 (2021); Jones v. Clackamas County, 307 Or App 502, 514 (2020).

RVM2, composed of 38 residential lots, is currently pending before the county for approval, with a planning commission hearing next week. SD intends to submit the application for RVM3 (36 more residential lots) following approval of RVM2. In total, there will ultimately be 74 lots in the combined RVM2 and 3 residential subdivision developments. But for now, pending before the county is an application for a 38-lot residential subdivision for RVM2.

There have been some issues raised, that would benefit from response. Because ORS 197.522(2) requires the county to approve the application if it meets all clear and objective standards for approval, and ORS 197.522(3) authorizes the applicant to submit proposed conditions of approval as needed to demonstrate such compliance, the following is a suggested conditions of approval that ensure the proposal (RVM2) complies with relevant standards, addresses concerns and so can be approved.

The suggested condition regards water service. The City of Nehalem has raised concerns about whether the water system for the proposed subdivision will provide adequate water to ensure that fire flow of 1000 gmp in an hour and 20psi is maintained. As explained in the attached correspondence between project engineer Ray Moore and city engineer Kyle Ayers (please also include those attachments in the record), the water system that is proposed for RVM2 (and ultimately RVM3 as well), ensures that water delivery provide 1000 gpm fire flow over an hour and 20 psi. Earlier, transmitted to you was the water distribution plan appended to an August 9, 2022 letter from engineer Jason Moore (also attached), which is what Mr. Moore discusses and proves up on, in the attached correspondence with the city's engineer.

As you know, its been a process to show the city that the proposed water system for RVM2 and ultimately RVM3, meets all standards that can be applied to RVM2. For a long time, as you know, the city demanded not only that RVM2 meet all water standards that applied to that subdivision, but also demanded that RVM's owner solve other problems in the city's water distribution infrastructure elsewhere, which of course sought an unconstitutional condition lacking any connection to a relevant approval standard for RVM2 and lacking any rough proportionality between the impacts of RVM2 and the wished for exaction. As you know both federal authorities and state authorities have unequivocally held that any local standard that itself requires or is interpreted to require exactions that do not meet the "Nollan" test of an essential nexus to a relevant approval standard and the "Dolan" requirement for rough proportionality, simply cannot be applied. Hill v. City of Portland, 293 Or App 283 (2018) has a good explanation of these principles. Further, the city made resolution of its city-wide solution and unlawful exaction demand challenging for SD, because the city refused to share its city-wide water model so RVM's owner had no way to even understand the city's larger concern.

However, SD persevered and the city is now satisfied that the water delivery system for RVM2 meets relevant standards (1000 gpm per 1 hour fire flow and 20 psi) and, at least so far as we know, the city's concerns are resolved as outlined in Mr. Moore's attached confirming email to the city engineer. We understand that the city has now abandoned its demand for unconstitutional conditions/exactions and is satisfied with the proposed water delivery system. However, because of that controversy, SD wishes the approval of RVM2 and ultimately RVM3 to provide assurance to the city that those subdivisions will meet the applicable approval standards. Therefore, the following condition is requested and will ensure that the RV2 (and ultimately the RV3 subdivision, if and when it is approved), will meet all relevant standards:

1. Applicant shall install a water distribution system to serve RVM2 that substantially complies with the narrative dated August 9, 2022 and its attached plan entitled "Riverview Meadows Phase 2 Tentative Plan" dated May 12, 2022 and updated "7/24/22 Add WL Feeder, Tank, Pump, PRVS" (called in this condition for simplicity "Water Plan"), authored by engineer, Jason Morgan. No certificates of occupancy for RVM2 shall be issued until that infrastructure shown on the Water Plan is installed in substantial conformity with that Water Plan. The water system shown on the Water Plan shall also serve RVM3 substantially as it is shown on the Water Plan if and when RVM3 is approved and developed and, similarly, no certificates of occupancy for RVM3 shall issue unless and until that infrastructure shown on the Water Plan is installed in substantial conformity with the Water Plan. This condition does not imply that RVM3 must be approved. Such implication cannot be drawn because no application for RVM3 has been submitted. Rather, this condition is designed to respond to, and assuage, city concerns that a water distribution system substantially complying with the Water Plan will be installed for RVM 2 and ultimately 3 and so provide the agreed-upon adequate water service capacity to serve the entire 74-lot subdivision that is contemplated for the RVM 2 and 3 property.

There was also a concern raised about access. As you know, RVM1 abuts the subject property and is approved for 20 lots and largely is developed with houses. RVM1 has existing public access that serves it and can serve proposed RVM2. A traffic study (TIA) was prepared by Ard Engineering, Mike Ard, to analyze traffic impacts of the proposed development which abuts RVM1 and then some – specifically the project's TIA evaluates traffic impacts from a total of 74 lots for RVM phases 2 and 3. The conclusion is that the LOS resulting from the proposal's addition to the transportation system maintains a LOS A – the best there is.

The Ard TIA estimates and, in fact nearly doubles and overestimates, the traffic impacts from RVM2's 38 lots. As such there can be no dispute that the Ard TIA is adequate to estimate the impacts of the RVM2 38-lot subdivision.

The Ard TIA assumes, but does not require, a full public secondary access being developed from a driveway that intersects to the south with McDonald Rd. His TIA makes reasonably clear that the secondary full public access is a "nice to have" and not a "need to have" under any standard. In that regard, to clarify matters, Mr. Ard is writing a supplemental letter for the record, explaining that no applicable traffic standard requires a secondary full public access in fact, that the existing full public access and emergency access to be provided via the existing emergency access easement is adequate to meet all applicable standards. While the public works director in his July 25, 2022 comments asked for a secondary access, the basis for the same was a citation to "(LDO Section 160(4): Street Improvements, Dead End Streets", however, that provision does not require a full public secondary access and we are unaware of any standard that does. Regardless, please know that SD is working to obtain an easement for a full public access at the secondary access location — the south McDonald Driveway because SD believes if it can be obtained, it improves the subdivision. Toward that end, SD has offered \$50,000 to the grantor for the privilege of converting that existing emergency access easement to a full public access easement and understands that the grantor (the Dillard's – the mayor of Nehalem's family) will be willing to expand that existing easement from emergency, to full public, access. But SD cannot control whether the Dillard's are in fact willing to do so. And should the Dillard's decline to allow the existing emergency access easement to be converted to a full public access easement, such cannot be a basis to deny the proposal. Because, again, the proposal can only be denied if it does not meet clear and objective standards that are codified in the applicable code and, at least so far as we can tell, there is no such standard requiring a second full public access. If you aware of a standard otherwise, please do l

Thank you, Sarah for your time and courtesies. Please feel free to email ro call to discuss any of these concerns/suggestions. All the best, Wendie



Wendie L. KeilingtoniAttorney at Law.
Please note our firm's NEW MAILING ADDRESS:

P.O. Box 2209

Lake Oswego, OR 97035

Please note our firms new PHYSICAL ADDRESS

4500 Kruse Way, #340

Lake Oswego Or 97035

(503) 636-0069 office (503) 636-0102 fax wk@klgpc.com www.wkellington.com

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Subject: RE: Water Model - Meeting



raym@allcountysurveyors.com <raym@allcountysurveyors.com> to Kyle Ayers, Jason Morgan

You are viewing an attached message. Tervally Group, LLC Mail can't verify the authenticity of attached messages.

Hi Kyle, thanks for meeting with Jason and I yesterday. I have put together the attached exhibit documenting the results of our modeling.

As you can see the new 80,000 gallon reservoir and piping will increase the fire flow that is available at node 22, from 560 gpm to 1,500 gpm. I see this project as a win win for the City ar

With the new reservoir and booster pump, the Riverview Meadows phase 1 (38 lots) and the future phases (74 lots) can be developed to meet the City standards and should not be part or

Please let me know if you have any questions. Thanks again for your help. Have a good weekend.

Thanks.

Ray Moore, PE, PLS.
All County Surveyors & Planners, Inc.
PO Box 955, Sandy, OR 97055
Phone: 503-668-3151

email: raym@allcountysurveyors.com

From: raym@allcountysurveyors.com <raym@allcountysurveyors.com>

Sent: Wednesday, October 5, 2022 11:33 AM

To: 'Kyle Ayers' < kyle@nccivil.com >; 'Jason Morgan' < jason@morgancivil.com >

Subject: RE: Water Model - Meeting

Why do you need to strip out anything in the model? If you are not going to share the model, then just build onto the one you have.

You will have a much better feel for how the new reservoir will interact with the existing system. It will be important to see how the fire flow will affect all of the nodes in the City with the pro-

Ray Moore, PE, PLS.
All County Surveyors & Planners, Inc.
PO Box 955, Sandy, OR 97055
Phone: 503-668-3151

email: raym@allcountysurveyors.com

From: Kyle Ayers < kyle@nccivil.com>
Sent: Wednesday, October 5, 2022 11:26 AM

To: raym@allcountysurveyors.com; 'Jason Morgan' <jason@morgancivil.com>

Subject: RE: Water Model - Meeting

Correct, we're not using the NC Civil model. As mentioned in the last meeting, it's quicker to start a new model than strip out the other water systems.

Also, with attorneys involved, this is the only path forward.

Thank you, Kyle Ayers

KYLE AYERS, PE Principal-in-Charge North Coast Civil Design, LLC

503.812.3732 503.440.1088 kyle@nccivil.com www.nccivil.com

35240 Tohl Ave, Nehalem, OR 97131

From: raym@allcountysurveyors.com <raym@allcountysurveyors.com>

Sent: Wednesday, October 5, 2022 11:20 AM

To: Kyle Ayers <kyle@nccivil.com>; 'Jason Morgan' <jason@morgancivil.com>

Subject: RE: Water Model - Meeting

So, we are not going to use the model you have already started?

Why not just build on to the existing model?

Ray Moore, PE, PLS.
All County Surveyors & Planners, Inc.
PO Box 955, Sandy, OR 97055
Phone: 503-668-3151

From: Kyle Ayers < kyle@nccivil.com>
Sent: Wednesday, October 5, 2022 11:18 AM

To: raym@allcountysurveyors.com; 'Jason Morgan' <jason@morgancivil.com>

Subject: RE: Water Model - Meeting

The purpose of tomorrow's meeting is to assemble the water model. We will start with a blank model and I'll have the water system drawing inserted as the background, to scale.

Thank you, Kyle Ayers

KYLE AYERS, PE Principal-in-Charge North Coast Civil Design, LLC

503.812.3732 503.440.1088 kyle@nccivil.com www.nccivil.com

35240 Tohl Ave, Nehalem, OR 97131

From: raym@allcountysurveyors.com <raym@allcountysurveyors.com>

Sent: Wednesday, October 5, 2022 11:09 AM

To: 'Jason Morgan' <jason@morgancivil.com'>; Kyle Ayers <kyle@nccivil.com'>

Subject: RE: Water Model - Meeting

Hi Kyle, can you please send me the model now and I can update it with the proposed reservoir. Then we can discuss the results at our meeting tomorrow.

Thanks,

Ray Moore, PE, PLS. All County Surveyors & Planners, Inc. PO Box 955, Sandy, OR 97055 Phone: 503-668-3151

email: raym@allcountysurveyors.com

From: Jason Morgan < <u>Jason@morgancivil.com</u>>
Sent: Monday, October 3, 2022 11:51 AM

To: Kyle Ayers < kyle@nccivil.com >; Ray < raym@allcountysurveyors.com >

Subject: RE: Water Model - Meeting

Wednesday does not work for me at all. Late Thursday is okay, like 1pm.

Friday, I am open during those times.

Jason Morgan, PE Morgan Civil Engineering, inc. 503-801-6016

From: Kyle Ayers < kyle@nccivil.com>
Sent: Monday, October 3, 2022 11:47 AM

To: Jason Morgan <jason@morgancivil.com>; Ray <raym@allcountysurveyors.com>

Subject: Water Model - Meeting

Gentlemen,

Is there a time that will work for the both of you to sit down and assemble the water model for RVM? We likely don't need to more than 1 or 2 hours to start it and then we can meet again

This week, I have the following availability:

- · Wednesday 1pm 4pm
- Thursday 10am 2pm
- Friday 10am 1pm

Please let me know your availability.

Thank you, Kyle

KYLE AYERS, PE Principal-in-Charge North Coast Civil Design, LLC

503.812.3732 503.440.1088 kyle@nccivil.com www.nccivil.com

35240 Tohl Ave, Nehalem, OR 97131

EXHIBIT C



April 5, 2023

To: Tillamook County Community Development Department

Sarah Absher, CFM, Director

Re: Riverview Meadows Phase 3 – County File #851-23-000009 PLNG

Dear Ms. Absher:

The City of Nehalem offers the following comments on the above-referenced application.

Domestic water service extension improvements can be approved if they are "adequate to serve the subdivision." Nehalem City Code 51.09(B)(1). An evaluation for "adequacy" requires, among other things, a finding that water system expansion improvements will "maintain a pressure of at least 20 pounds per square inch (psi) at all service connections at all times." OAR 333-061-0025. In addition, the fire flow availability serving each of the new single-family dwellings must meet or exceed 1000 gallons per minute. 2019 Oregon Fire Code, Appendix B; NCC 51.10(F)(1); Water Master Plan.

Based on the City Engineer Kyle Ayers review of the Riverview Meadows 3 Utility Layout Plan set forth at Sheet 6, dated January 6, 2023, it appears that the applicant's proposed tentative plan for the provision of water improvements necessary to serve the RVM3 development are the same as those identified to serve RVM2. As a result, the City has determined that with periodic testing throughout the construction project, these improvements are likely to satisfy the City water pressure and fire flow standards subject to the following conditions:

Applicant shall install a water distribution system to serve Riverview Meadows Phase 2 "RVM2" and Riverview Meadows Phase 3 "RVM3" that substantially complies with the narrative dated August 9, 2022 and its attached plan entitled "Riverview Meadows Phase 2 Tentative Plan" dated May 12, 2022 and updated "7/24/22 Add WL Feeder, Tank, Pump, PRVS" (called in this condition for simplicity "Riverview Water Plan"), and as depicted on the RVM3 Utility Layout Plan, authored by engineer, Jason Morgan.

- a. Coupled with submission of its Schematic Design plans, the applicant shall submit a predesign report for the reservoir, pump station and components for the high pressure zone indicating that all connections will maintain adequate pressure.
- b. Prior to completing any road paving, the new water infrastructure shall be tested to verify that improvements comply with the City's requirements and standards and where those standards are not met, pipelines shall be repaired or replaced, and tested. These findings shall be provided to the City Engineer.

- c. Prior to recording the final plat for RVM3, the Applicant shall secure the City's acceptance for the water distribution improvements in substantial conformity with that Riverview Water Plan.
- d. Similarly, prior to recording the final plat for RVM3, the Applicant shall install to City standards and secure the City's acceptance for the water distribution improvements in substantial conformity with that Riverview Water Plan, subject to periodic testing during installation and so provide the agreed-upon adequate water service capacity to serve the entire 74-lot subdivision that is contemplated for the RVM 2 and the RVM3 development.
- e. The Applicant, its principles and its subsequent owners in interest, shall not make any applications for new water service for RVM2 or RVM3 until the Riverview Water Plan improvements have been accepted by the City.

In addition, the City Engineer has not completed reviewing the detailed schematic drawings included in this RVM3 application for the placement of utility lines within various roadways. If the City has any concerns or additional recommendations for conditions of approval in response, the City will make such a request in writing in advance of the hearing before the Planning Commission.

Thank you for the opportunity to comment on this application.

Sincerely,

Melissa Thompson-Kiefer

Melisia Thompson Kiefe

City Manager



Tillamook County Public Works

503 Marolf Loop Road, Tillamook, OR 97141 County Road Phone: 503-842-3419 Solid Waste Phone: 503-815-3975

Fax: 503-842-6473

Email: pubwks@co.tillamook.or.us TTY Oregon Relay Service

March 30, 2023

To: Sarah Absher, CBO, CFM, Director Tillamook County Community Development Department 1510-B 3rd Street Tillamook, OR 97141

From: Chris Laity, PE, Director Tillamook County Public Works

Subject: Riverview Meadows Phase 3 Plan Review Status

Dear Sarah

Tillamook County Public Works provides the following as current status of project review for the proposed Phase III construction of Riverview Meadows planned development.

At the project status meeting of December, 2022, Public Works provided a detailed list of plan review comments for the then current proposed construction plans. Public Works followed-up the meeting providing a written list describing in sufficient detail, changes and/or improvements to be made to the plan set and identifying description of supporting documentation required prior to any further formal review by Public Works.

Following the meeting, and written comments provided to the developer, the *Project Progress Tracking Spreadsheet* was updated to reflect requirements identified by Public Works. Since that time, there have been limited updates to the tracking spreadsheet and the combination of plan sheets and supporting documentation.

Public Works has been contacted by the developer requesting approvals to proceed with portions of the initial construction required to advance development of Phase III. In all cases Public Works has indicated that formal review followed by comment or approval will not take place until documentation supporting a complete construction plan set and appropriate supporting documents have been received and reviewed.

As of the date of this writing, having not received complete plans or supporting documentation, Public Works cannot provide final comments to the project.

Thank you,

Chris Laity, PE, Director

Tillamook County Public Works

51.70

cc: Kyle Ayers, PE, City of Nehalem

Mar 28, 2023

Tillamook County Department of Community Development Building, Planning and On-Site Sanitation Section 1510-B Third Street Tillamook, Oregon 19141

Dear Chairperson and Planning Commission,

We are writing in response to your notification of #851-23-000009-PLNG letter, dated Mar 16, 2023. We would request that this letter and exhibits be recorded into the minutes of the meeting planned for Thursday, Apr 13,2023 at 7pm.

We own, in full, and reside at 14145 Riverview Meadows Ln, TL 1100, for 25 years and have seen a decrease in the quality of life in our neighborhood caused by over development and poor design. Our concerns are listed below with accompanying exhibits.

Exhibit A: Road Approach Ordinance #44, dated Nov 30, 2011, order #011-089 line Item F, states.. "minimum road width for Riverview Meadows Ln (private road) be 20 feet". This road is 18 ft wide and 17 % grade incline (see exhibits B, C and D-1).

Exhibit B: Letter by Kyle Ayers, Nehalem City Engineer, dated Oct 13, 2022 indicates that Riverview Meadows Ln "fails AASHTO requirements "as outlined. He considers "the safety of exiting residents" and finds "the necessity for a fully developed secondary access to serve the new development".

Exhibit C: Letter by Ronald Newton, County Engineer Tech III, dated Oct 13, 2022, confirms the inadequacy of the existing roadway (see exhibit C-1) and "is not acceptable to place additional traffic on this road" (see exhibit C-2). "...County public works will require that a fully developed, two lane road built to county standards shall be a requirement for approval of a future buildout...." (see exhibit C-2) Riverview Meadows Ln, built prior to the development of Phase I, did not meet county requirements, according to Exhibit A.

Exhibit D: Traffic Impact Study (TIS) by ARD Engineering, dated Aug 12, 2022, reveals inadequacy to existing roadway (se exhibit D-1 and exhibit F-1)and projects 870-1000 vehicles per day to enter and exit at the only intersection with North Fork Road (see exhibit D-2 and exhibit D-3). Presently, a minimum of 200 cars travel on this road. These include residents, visitors, commercial deliveries, diesel and gasoline construction vehicles (concrete, flat beds, propane, septic, etc) for products and personal contractors.

Exhibit E: Photos show continuing traffic of lengthy vehicles that have damaged personal property, as well as county roads (see exhibit E, exhibit E-1, exhibit I). Posted signs and road controls have not hindered excessive downhill speed on a 17 % grade (too steep) while exiting Riverview Meadows Ln (see exhibit D-1 of TIS)

Exhibit F: In recorded "Declarations of Conditions and Restrictions" dated Jan 21, 2010 for Riverview Meadow Development, Phase I, items 1, 8, 12, are in breach of compliance. (se exhibit, E-1, E-2, E-3, E-4) CCR's have never been created or enforced during Phase I and has been approved for Phase II. We don't see how this will work for Phase III. (See photos labeled exhibit F-5 and exhibit F-6 for noncompliance)

County map 56-23 shows 5 tax lots...501, 502, 700, 902, 903. Exhibit G: Tillamook county has these tax lots listed as " situs North Fork Road" (see exhibit G-1).

This road is not identified with signage- name or stop ((see exhibit G-2). Nehalem Bay Fire and Rescue calls this road "fire access road" in letter dated Dec 12, 2022 (see exhibit G-3).

Morgan Engineering in their layout datedJan 6, 2023, call it Riverview Meadows Drive (see exhibit G-4).

ARD Engineering in letter dated Aug 12, 2022 calls it "South Access Road" (see exhibit G-5).

Exhibit H: Riverview Meadow Development, Phase III layout, by Morgan Civl Engineering, dated Jan 6, 2023, shows a new set of street names since their original plan of May 12, 2022.

Roads from Phase 1, Phase II and Phase III are all leaving and arriving on one single lane, incorrectly built, Riverview Meadows Ln (see exhibit H-1)

Riverview Meadows Ln is the entrance to the Tsunami Evacuation Route. Exhibit I: What will happen to the county establishment when this area will be fully developed?

In conclusion, it is our hope that the development of the "access road" to Riverview Meadows Development become the primary approach, and be the initial construction before any other development in Phase II and Phase III begins or becomes approved. Any future traffic should be rerouted from Riverview Meadows Ln with proper signage, prohibiting or restricting limited use of River Meadows Ln at North Fork Road.

Thank you in advance for acknowledging the present conditions and plight that we and our surrounding neighbors have to contend.

Dan Koniuck Dan Koniuck Naury 13/28/2023

EXHIELT "A"

Koad approach ordinares # 44 Updated Nov 30, 2011 Ordert 011-089

B. <u>Sight Distance</u>. A vehicle using the road approach must have the following sight distance both directions from the road approach:

	RECOMMENDED	MINIMUM
MD A DETC	STOPPING	STOPPING
TRAFFIC	SIGHT	SIGHT
SPEED	DISTANCE	DISTANCE *
(MPH)	(FEET)	(FEET)
20 25	125 150	107 139
30	200	177
35	250	218
40	325	267
45	400	319
50	475	376
55	550	432

- * Paved Road approach required
- C. <u>Clearance fromIntersections.</u> No road approach shall be constructed within 50 feet of the intersection radius or curb return. This provision does not apply to intersections with alleys.
- D. <u>Standard Profile.</u> The road approach shall be constructed in accordance with the standard profile drawing in Appendix "A".
- E. <u>Drainage</u>. The drainage at the road approach shall be constructed to be compatible with existing and future drainage facilities within the roadway.
- ★ F. Width _-Minimum. The minimum road approach width for individual private residences approaches shall be 12 feet. The minimum road approach width for private road or commercial road approaches shall be 20 feet.
 - G. WidthMaximum. The maximum road approach width for residential road approaches shall be 20 feet except for a residential road approach onto a low traffic volume residential street where the maximum width shall be 30 feet. The maximum road approach width for private roads or commercial road approaches shall be 35 feet.
 - H. Number of Road Approaches (Residential). Only two road approaches will be permitted for a residential parcel; and the second road approach will be allowed only if the parcel has over 50 feet of frontage.
 - I. Number of Road Approaches (Commercial). Only one road approach will be permitted unless there is over 50 feet of frontage. If all other road approach standards are met, additional road approaches will be allowed for a parcel with

EXHIBIT "B"

Lynn Tone

From:

Sarah Absher

Sent:

Thursday, October 13, 2022 2:39 PM

To:

Lynn Tone

Subject:

RE: Riverview Meadows PC Packet

From: Kyle Ayers <kyle@nccivil.com>
Sent: Thursday, October 13, 2022 2:37 PM

To: Sarah Absher <sabsher@co.tillamook.or.us>; Ron Newton <rnewton@co.tillamook.or.us>

Cc: Melissa Thompson-Kiefer <mthompson@nehalem.gov> **Subject:** EXTERNAL: RE: Riverview Meadows PC Packet

[NOTICE: This message originated outside of Tillamook County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Good Afternoon Sarah,

My input, as the Engineer of Record for the City of Nehalem, has been requested regarding the need for a secondary access for the proposed Riverview Meadows Phase 2.

Upon review of the stated requirements set forth by Tillamook County, specified in your Wednesday, 7/20/2022, email, I am in full agreement with Tillamook County's findings and requirements for the necessity of a fully developed, secondary access to serve the new development. My findings are based upon the requirements set forth in the City and County development standards along with analysis of the existing access. The existing access from Northfork Road fails to meet AASHTO intersection requirements for vehicular turning angles, transition grades, overall geometry and most importantly, sight distance along Northfork Road.

Also, based upon antecedent testimony and eyewitness, construction vehicles have damaged adjacent private property and stop signs attempting to maneuver the intersection. We must consider, not only the safety of the new residents of Riverview Meadows, but also the safety of the existing residents with driveways that would have to contend with the vehicles from the 74 new homes.

Please feel free to contact me with any questions.

Thank you, Kyle Ayers, PE, Nehalem City Engineer

KYLE AYERS, Professional Engineer
Principal-in-Charge
North Coast Civil Design, LLC
503.812.3732 503.440.1088
kyle@nccivil.com www.nccivil.com
35240 Tohl Ave, Nehalem, OR 97131

EXHIBIT"C"



Tillamook County Public Works

503 Marolf Loop Road, Tillamook, OR 97141 County Road Phone: 503-842-3419 Solid Waste Phone: 503-815-3975

Fax: 503-842-6473

Email: pubwks@co.tillamook.or.us TTY Oregon Relay Service

Trees, Cheese, and Ocean Breeze

October 13, 2022

To: Sarah Absher, Planning Department Director

Tillamook County Planning Department

From: Ronald E. Newton, Engineering Technician III

Tillamook County Public Works

Subject: Partition Request #851-21-000415-PLNG

Sheldon Development, Inc.

Sarah.

Recently received correspondence from counsel advising Riverview Meadows Inc. indicates some question of authority to require a fully functional secondary access road to support future development of the planned unit development known as River View Meadows.

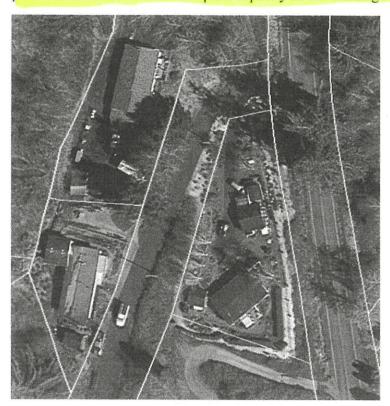
As you now, the proposed development is located outside the city limits of The City of Nehalem, but within the associated Urban Growth Boundary, (UGB). This presents the situation where city ordinance language is based on development within the grid system of the city street plan and will not provide adequate safe transportation planning to the limits of the UGB. In these situations, authority is supported by Oregon Revised Statute, (ORS) Chapter 368. ORS chapter 368.016 provides for the County Engineer to take action in regards to local city streets at times when the city consents to the action. In this case, city ordinance does not provide adequate transportation design guidance, and both city and county agree that county standards should be applied. The result is that the County Engineer's evaluation of transportation requirements becomes the controlling authority.

ORS Ch. 368.039 provides that county has the authority to require design standards that "shall supersede and prevail over any specifications and standards for roads and streets that are set forth in a uniform fire code adopted by the State Fire Marshal, a municipal fire department or a county firefighting agency." This clearly provides the County Engineer authority to require safe, effective public transportation in situations where otherwise inadequate or nonexistent options otherwise exist.

Tillamook County Ordinance #55 references the Oregon Department of Transportation Standard Specifications for Highway Construction, The American Association of State Highway Transportation Officials Manual A Policy on Geometric Design of Highways and Streets and the Federal Highway Administrations Manual on Uniform Traffic Control Devices as adopted by the Oregon Department of Transportation. These documents become the controlling standards and specifications adopted by Tillamook County.

The section of Riverview Meadows Drive adjacent to North Fork Nehalem River Road represents little more than a single lane paved alignment and fails to meet any applicable AASHTO standard for lane width, shoulder width, adjacency of immovable obstructions, etc. In

this first section of roadway there are four private residences located at the very edge of the existing Right of Way line. Please note the aerial image below to assist in viewing the limited width of the existing roadway showing a single vehicle traveling through this section. This image provides evidence of the inadequate capacity of the existing roadway.



The Traffic Impact Study, (TIS), provided by the applicants suggest that the intersection at the end of this section of roadway contains adequate carrying capacity to support the full buildout of the Riverview Meadows development. The TIS suggests that there will be times when vehicles leaving the development will queue in this same section of roadway. It is the determination of the County Engineer that this creates an unsafe point of congestion even in normal daily traffic. With commuters queued to enter the North Fork County Road, there is no safe way for vehicular movement by adjacent land owners to enter or leave the existing roadway.

Public Works finds additional issues with the TIS. Section 160(1)(a). identifies that the standard to be used is "A Policy on Geometric Design on Highway and Streets" (referred hereinafter as the Green Book). The "Riverview Meadows Traffic Impact Study" dated August 12, 2022 (hereinafter referred to as the Study) used these standards. The Intersection Sight Distance section of the report identifies that the standards are not met.

The Study reported "... a minimum of 500 ft of intersection sight distance is generally desired in each direction for each point of access. However, horizontal curves in the site vicinity limit both the available sight lines and the approach speeds of vehicles at the limits of sight distance." The 500 ft distance listed is published sight distance using a Design Speed of 45 mph and passenger cars.

Per the Study: "For the existing site access on River View Meadows Lane, the available intersection sight distance was measured to be 428 feet to the north and 378 feet to the south."

The study uses a speed study to lower the acceptable sight distance. Please note the following excerpts from the Green Book:

determined by measuring the speeds of a sizeable sample of vehicles." drivers. Instead, such limits are usually set to approximate the 85^{th} percentile speed of traffic as "Posted speed limits, as a matter of policy, are not the highest speeds that might be used by

with a particular location or geometric feature." frequently used measure of the operaing speed associated with a particular speed associated free-flow conditions. The 85th percentile of the distribution of observed speeds is the most Britab solvider violit gripped as violet are observed operating their vehicles during

". ynwagia operating speed, topography, the adjacent land use, and the functional classification of the the roadway. The selected design speed should be a logical one with respect to the anticipated "Design speed is the selected speed used to determine the various geometric design features of

The Study states "Typically, the 85th percentile speed is used for design." is not correct.

the intersection sight distance standard and uses stopping sight distance and the 85th percentile distance was less than the desired intersection distance." The Study then deviates from utilizing speed did not produce an acceptable sight distance. "Again, the available intersection sight However, the Study did identify that reducing the design speeds to match the 85th percentile

it for single unit trucks. 500-ft is based on a Design Speed of 45 mph and passenger cars. The distance increases to 630-The proposed project does not meet the standard for Intersection Sight Distance. Please note

issues in the vicinity of North Fork Road is not acceptable. The combination of the lack of sight distance and the above-described vehicle maneuvering place additional traffic on this road as the risk of collision increases. View Meadows Lane for maneuvering in the vicinity of North Fork Road." It is not acceptable to that "... single-unit trucks, garbage trucks, and fire apparatus... require the full width of River In the River View Meadows Lane - Roadway Geometry section, the Study identifies

Based on the above, and in concurrence with the City of Mehalem, Tillamook County Public

development. be a requirement for approval of any future buildout of the Riverview Meadows residential Works will require that a full developed, two-lane roadway built to county road standards shall

Please feel free to contact we directly with any questions.

Thank you,

Eng. Tech. III, Tillamook County Public Works Ronald E. Newton, LSI

- tenst 3 Dans

EXHIBIT "D"



RIVERVIEW MEADOWS TRAFFIC IMPACT STUDY

TILLAMOOK COUNTY, OREGON



PREPARED FOR: Riverview Meadows, LLC

PREPARED BY: Michael Ard, PE Ard Engineering

DATE:

August 12, 2022



(approximately 1.5 percent of exiting vehicles would be expected to turn onto Northfork Road while a vehicle is approaching and may be subject to delay.

Based on the negligible calculated induced delays of 3 seconds per day, any requirement for mitigation for the limited sight distance would be expected to result in costs exceeding the resulting benefits. Accordingly, the available intersection sight distance is adequate for the River View Meadows Lane approach to Northfork Road and no operational or safety mitigations are recommended.

RIVER VIEW MEADOWS LANE - ROADWAY GEOMETRY

In addition to examination of sight distance for the intersection of Northfork Nehalem River Road at River View Meadows Lane, the roadway geometry was evaluated to determine how the narrow cross-section and steep grades may impact operation and capacity of the roadway and intersection.

River View Meadows Lane has an initial width of approximately 20 feet in the immediate vicinity of Northfork Road; however, it narrows to a width of approximately 18 feet as it extends up the hill. Roadway grades on River View Meadows Lane were measured to be up to 17 percent in the immediate vicinity of the intersection.

A 20-foot width is commonly used as a minimum width for roadways, primarily in response to fire code requirements. Although a roadway can function with lesser width, the carrying capacity of the roadway is reduced both for passenger cars and for larger vehicles.

In particular, tractor-trailer vehicles and large trucks may have difficulty navigating the roadway and are likely to need to cross the roadway centerline on curves. Based on an AutoTurn analysis, large interstate trucks (WB-67) would not be expected to be able to stay within the paved roadway width even when taking both travel lanes. These vehicles would be expected to trailer outside the road surface, crossing through the area where a stop sign is located. Evidence that such trailering has previously occurred was present at the intersection upon our site visit, since the stop sign post was snapped off and a temporary stop sign on an A-frame stand was deployed at the intersection.

An analysis of other vehicle types also demonstrated that:

- WB-40 tractor-trailer trucks, SU-40 single-unit trucks, garbage trucks and fire apparatus can stay within the paved road surface area, but require the full width of River View Meadows Lane for maneuvering in the vicinity of Northfork Road;
- The roadway width can accommodate continuous two-way travel of passenger vehicles provided that the drivers pull to the side and drive slowly.

Diagrams showing the swept path of these vehicles are included in the technical appendix.

It should be noted that due to the narrow width of the roadway, it is expected to function in a manner similar to a residential queuing street. These streets generally have a width of up to 28 feet but are narrowed by on-street parking on one or both sides. Where drivers must pass parked vehicles, the roadway only has sufficient width for one travel direction at a time, so drivers must proceed with caution and yield to oncoming traffic. Although passenger vehicles can continuously travel in both

EXHIBIT "D".1



directions, the narrow width of this roadway may require similar slowing and yielding behavior at times. Accordingly, the carrying capacity of this roadway is expected to be similar to that of a residential queuing street, at approximately 1,000 vehicles per day. With completion of the proposed development, it is projected that the roadway will carry approximately 870 vehicles per day, which is within the capacity of the roadway.

It is anticipated that the new south access roadway will be constructed in a manner intended to attract site trips in lieu of River View Meadows Lane through the use of monumentation signage and a wider, more accommodating road design. This may reduce the traffic levels on River View Meadows Lane. Regardless, larger trucks should be directed to use the new south site access roadway.

Riverview Meadows - Traffic Impact Study

20

EXHIBIT D-3"



CONCLUSIONS

Based on the operational analysis, the study intersections currently operate acceptably and are projected to continue to operate acceptably under year 2025 traffic conditions either with or without the addition of site trips from the proposed development.

The most recent five years of crash history on Northfork Road showed no crashes at the study intersections. No significant safety hazards are evident based on the crash history.

Based on the detailed warrant analysis, no new traffic signals or turn lanes are recommended in conjunction with the proposed development.

Although intersection sight distances are limited by horizontal curves in the vicinity of the site access locations, a detailed analysis shows that the available sight distances are adequate to ensure safe operation of the area intersections, and the delays to through traffic that slows to avoid conflicts will be negligible. Accordingly, no sight distance improvements are necessary or recommended in conjunction with the proposed development.

Based on the analysis of River View Meadows Lane's road width and geometry, large vehicles may have difficulty navigating the roadway and require both travel lanes to negotiate the curves in the vicinity of Northfork Road. Very large trucks may also trailer off the roadway surface. However, the road width is sufficient to approximately 1,000 passenger vehicles per day despite the narrow width, similar to the capacity of a residential queuing street. The projected future traffic volumes on this roadway are within this effective roadway capacity. Planned monumentation and improvements to the new south site access roadway may help further reduce traffic volumes on River View Meadows Lane. It is recommended that large trucks be directed to use the new south site access roadway.

Riverview Meadows - Traffic Impact Study

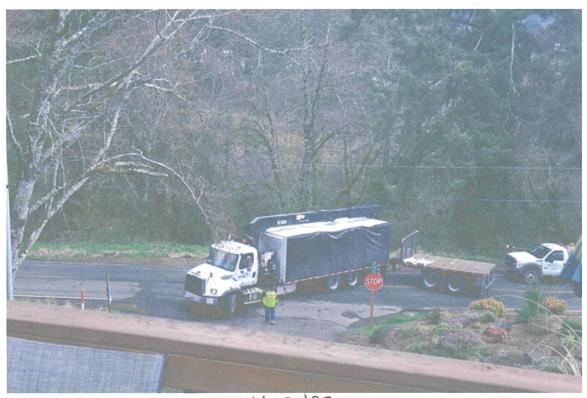
ExHIBIT "D-3







SEP . 22



MAR '23 (FAILGE ATTEMPT)

= 14181

Nehalem, OR 97131

Tillamook County, Oregon 01/21/2010 09:53:19 AM

2010-000375

DEED-CCR

\$40.00 \$11.00 \$16.00 \$10.00 - Total = \$77.00

After Recording Please Return To: I hereby certify that the within Vern Scovell Instrument was received for record and P.O. Box 151

recorded in the County of Tillamook, State of Oregon.

Tassi O'Neil, Tillamook County Clerk



DECLARATIONS OF CONDITIONS AND RESTRICTIONS AFFECTING LAND LOCATED IN TILLAMOOK COUNTY, OREGON

The undersigned (hereafter "Declarants") being the owners in fee simple of that real property located in Tillamook County, Oregon, described in the attached Exhibit A(hereafter referred to as "Riverview Meadows Phase 1") incorporated herein by reference, do hereby make the following declaration of conditions, covenants, and restrictions (hereafter "CCR's") covering the above described property, specifying that this declaration shall constitute covenants to run with all of the land and shall be binding on all persons claiming under and through them and these conditions and restrictions shall be for the benefit of and limitations upon all future owners of said real property;

Where used herein, the term "Declarants" unless specified otherwise, shall mean the undersigned, their successors, heirs and assigns. Where used herein the term "lot" shall mean one of the lots 1 through 20 of Riverview Meadows Phase 1. Where used herein the term "owner" shall mean the owner of a lot within Riverview Meadows Phase 1 whether that owner be one or more persons, trust(s), corporation(s), limited liability company(ies), similar entity, or group or combination of entities.

- USE OF LOT. No lot shall be used except for single-family residential purposes, or except for the placement of an accessory storage structure to benefit an adjoining lot in common ownership.
- HEIGHT RESTRICTIONS. Notwithstanding paragraph 17 below, Declarants expressly reserve solely to themselves the right to impose building height restrictions on any lot within Riverview Meadows Phase 1, and or such further property annexed pursuant to paragraph 14 below, for so long as Declarants, or either of them, are an owner of a lot therein. For purposes of the foregoing sentence, Declarants shall not include their heirs, successors, or assigns. Such restrictions shall be imposed by recorded declaration in the Tillamook County Clerk's office in deed records and shall specifically reference these CCR's and the Declarants' right reserved by this paragraph. For purposes of these CCR's, "height" shall mean the vertical distance of a building measured from grade to the highest point of the roof; and "grade" shall mean the average elevation of the existing ground at the centers of all walls of a building.
- SQUARE FOOTAGE. The minimum square footage of any residence on any lot shall be no less than 1200 square feet for a single level residence and no less than 1600 square feet for a multi-level residence. These square footage restrictions shall not apply to accessory structures, nor shall the square footage of any accessory structure be counted in determining the square footage of a residence.

EXHIBIT"

EXHIBIT "F-1"

- 4. TYPES OF STRUCTURES. Mobile homes, trailers, metal sheds, and pole buildings shall not be placed nor constructed on any lot. Pre-built modular and manufactured homes, as those terms are commonly used, shall be permitted. No structure erected on a lot shall possess aluminum or other metal siding. Roofing may be of wood, tile, metal, or composite material.
- 5. TIME FOR COMPLETION OF CONSTRUCTION. The construction of any residential structure shall, insofar as the exterior thereof is concerned, be completed within one (1) year from the date construction commences. All landscaping shall be completed within six months of substantial completion of any residential structure erected upon a lot.
- 6. TEMPORARY STRUCTURES. No temporary structure, excepting a recreational vehicle, shall be erected or placed upon the premises, except that a temporary structure shall be permitted on a lot during the period of construction of a single family dwelling, but such temporary structure shall be removed within thirty (30) days of completion of said dwelling house or within eighteen (18) months after the date said temporary structure was erected, whichever period expires first.
- 7. ANIMALS. No animals, livestock or poultry of any kind shall be raised, bred or kept on any lot excepting any dog, cat or household pets may be kept provided that they are not kept, bred or maintained for commercial purposes.
- 8. BUSINESS ACTIVITY. No business, trade or manufacture of any sort shall be conducted upon any of the above described property save and except for a home businesses wherein no signs, structures or other indicia of the business are apparent from outside any dwelling and such business does not result in any traffic to and from the property in excess of ordinary residential traffic. However, this paragraph shall not prohibit an owner from renting a dwelling to a third party, but under no circumstances shall such rental be for a rental term of less than 30 days. No signs shall be erected or maintained on any lot, save and except that one "for sale" or "for rent" sign not more than 24 inches high and 36 inches wide may be placed on a property on a temporary basis. The foregoing sign restrictions shall not apply to Declarants advertising lots for sale.
- 9. UPKEEP OF LOT. Each lot shall be maintained in a good and clean condition and free of hazards to the adjacent property and to the occupants thereof. All weeds and brush including but not limited to tansy, ragwort and blackberries shall be cut, poisoned or otherwise controlled and kept down. All garbage and other waste and debris shall be kept in appropriate sanitary containers for proper disposal and out of public view. Yard raking and dirt resulting from landscaping work shall not be dumped onto streets, roads, or other owner's lots. No noxious or offensive activity shall be carried on upon any lot, nor shall anything be done, grown or placed upon any lot which interferes with or jeopardizes the enjoyment of other lot owners within the property affected by these CCR's.
 - 10. FENCES. No fence or wall shall be erected or placed on any lot in the above

F:IREALPROPICCRSIScovel, VIZ009 docs/Scovel CCR.wpd

EXHIBIT Fa"

described subdivision exceeding four (4) feet in height. However, chain-link fences or similar fencing which does not completely obscure a view may be a maximum of six (6) feet in height.

- 11. UTILITIES. No outdoor overhead wire or service drop for the distribution of electric energy or for telecommunication purposes, nor any pole, tower or other structure supporting said overhead wire shall be erected within the property affected by these CCR's. All owners shall use underground wires to connect their residences and any accessory structures built upon any lots to power, television, and any other utilities.
- 12. VEHICLES. No owner shall permit any vehicle which is in a state of visible disrepair to be abandoned or to remain parked upon any lot or parcel or on any street for a period in excess of forty-eight (48) hours. All boats, trailers, motor homes, motorcycles, trucks, truck campers and like equipment shall be kept in an enclosed garage when not in actual use. Each lot shall contain parking area for at least three vehicles. Garage or accessory structure bays shall be counted fo the purposes of meeting this requirement.
- 13. MAINTENANCE AND IMPROVEMENT OF ACCESS ROAD. Access to the lots affected by these CCR's is served by private paved roads owned by Declarants over which owners have rights of ingress and egress. As a part of these conditions, covenants and restrictions, and notwithstanding the location of individual lots nor the use made by the respective owners of any lots, owners of property affected by these CCR's shall in the cost of routine maintenance and repair of said roadway and paving. Further, upon the unanimous decision of 75% of the owners of lots within the property affected by these CCR's improvements may be made to said roads, and each owner will likewise share an equal responsibility and liability for the costs of such improvement. Each owner's percentage share of the cost of maintenance, repair, and improvement, if applicable, shall be equal to the ratio which the number of lots owned by an owner bears to the total number of lots affected by these CCR's.
- 14. DRIVEWAYS. All driveways serving a residence on any property subject to this declaration shall be paved with asphalt, concrete, or stone no later than the date of completion of the construction of a residence on a lot, and the owner thereof shall keep any such driveway in good and workmanlike repair. Said driveway shall at a minimum reach from the property line of a lot to the paved edge of the road providing access to a lot and shall be a minimum of thirty (30) feet in width where it connects to the pavement on the access road, and a minimum of twenty-two (22) feet elsewhere. All driveways shall incorporate a minimum eighteen (18) inch culvert for drainage.
- 15. ANNEXATION. If, within 20 years of the recording of these CCR's, Declarants, their successors and assigns, shall develop additional land within the vicinity of the real property affected by these CCR's, such additional land may be annexed by Declarant, its successors and assigns, to the real property by filing a plat of the property(ies) to be annexed and adopting all declarations of the protective restrictions affecting Riverview Meadows Phase 1 in effect at the time and thereby making the same applicable to the annexed properties. There is no limitation on the number of additional lots, Phases, tracts, private tracts or common properties which may

EXHIBIT F-3

be created or annexed to the real property under this paragraph by Declarant, its successors or assigns.

- 16. SEVERABILITY. Invalidation of any of these covenants shall in no way affect any of the other provisions, which shall remain in full force and effect.
- 17. DURATION/AMENDMENT/REVOCATION. All of the conditions, covenants, restrictions and reservations set forth in this declaration are imposed upon the property covered hereby for the direct benefit thereof and of the owners thereof. Such conditions and restrictions shall run with the land and shall be binding upon any person who shall acquire any interest in the property covered hereby. Said conditions, covenants, restrictions and reservations shall remain in effect for a period of thirty (30) years from the date of this declaration. These conditions, covenants and restrictions may be amended or revoked by written document signed by the owners of seventy-five percent (75%) of the lots within the subdivision, but in no event may they be amended or revoked without the written consent of Declarants so long as Declarants, or either one of them, own a lot or lots affected by these CCR's. For purposes of the foregoing sentence, Declarants shall not include their heirs, successors, or assigns.
- 18. BREACH AS NUISANCE. The result of every act of omission or commission or the violation hereof, whether such condition, covenant, restriction or reservation is violated in whole or in part, is hereby declared to be and to constitute a nuisance, which may prohibited and enjoined by an injunction. Such remedy shall be deemed cumulative and not exclusive of any and every other remedy allowed by law or equity against such a nuisance, whether public or private.
- 19. INUREMENT OF BENEFIT. The provisions contained in this declaration shall inure to the benefit of and be enforceable by any owner or the owners of any portion of the property covered hereby, and each of their legal representatives, heirs, successors and assigns. Failure by any property owner or their legal representatives, heirs, successors or assigns to enforce any of said conditions, covenants or restrictions herein contained shall in no event be deemed a waiver or failure of the right to do so thereafter.
- 20. ENFORCEMENT. Should suit or action be instituted to enforce any of the foregoing restrictions or covenants after written demand for the discontinuance of a violation thereof and failure to comply, then, whether said suit be reduced to judgment or decree or not, the owners seeking to enforce or to restrain any such violation shall be entitled to have and recover from such defendants in addition to the costs and disbursements allowed by law, such sum as the court may adjudge reasonable as attorney fees in such suit or action. In the event of any appeal, such parties shall be entitled to recover from the defendants on such appeal, such further sum as the court shall adjudge reasonable attorney fees.
- 21. EFFECT OF BREACH. The breach of any of the foregoing shall not defeat or render invalid, the lien of any mortgage or deed of trust made in good faith for value as to any of the said lots, provided, however, that the breach of any of the said conditions or restrictions may

EXHIBIT F-3

EXHIBIT F-A"

be enjoined, abated or redressed by appropriate proceedings against any owner of the premises to which such violation applies, whether such ownership is acquired by purchase, foreclosure, devise, inheritance or in any other manner.

IN WITNESS WHEREOF, Declarant	s have executed this instrument this <u>&co</u> day of
RIVERVIEW MEADOWS, LLC an Oregon Limited Liability Company. By: Vern Seovell, Member DECARANT	VERN SCOVELL DECLARANT
	onally appeared the above named Vern Scovell, gon Limited Liability Company, and acknowledged act and deed. Before me:
STATE OF OREGON)) ss. County of Tillamook)	OFFICIAL SEAL JANET L LEASE NOTARY PUBLIC-OREGON COMMISSION NO. 437751 MY COMMISSION EXPIRES MAY 25, 2013
January 20, 2010. Person individually, and acknowledged the foregoing Before me: OFFICIAL SEAL JANET L LEASE NOTARY PUBLIC-OREGON COMMISSION NO. 437751 MY COMMISSION EXPIRES MAY 25, 2013	instrument to be his voluntary act and deed. Notary Public for Oregon

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EXHIBIT F-4





EXHIBIT "F"-5





DBA CONSTRUCTION CO

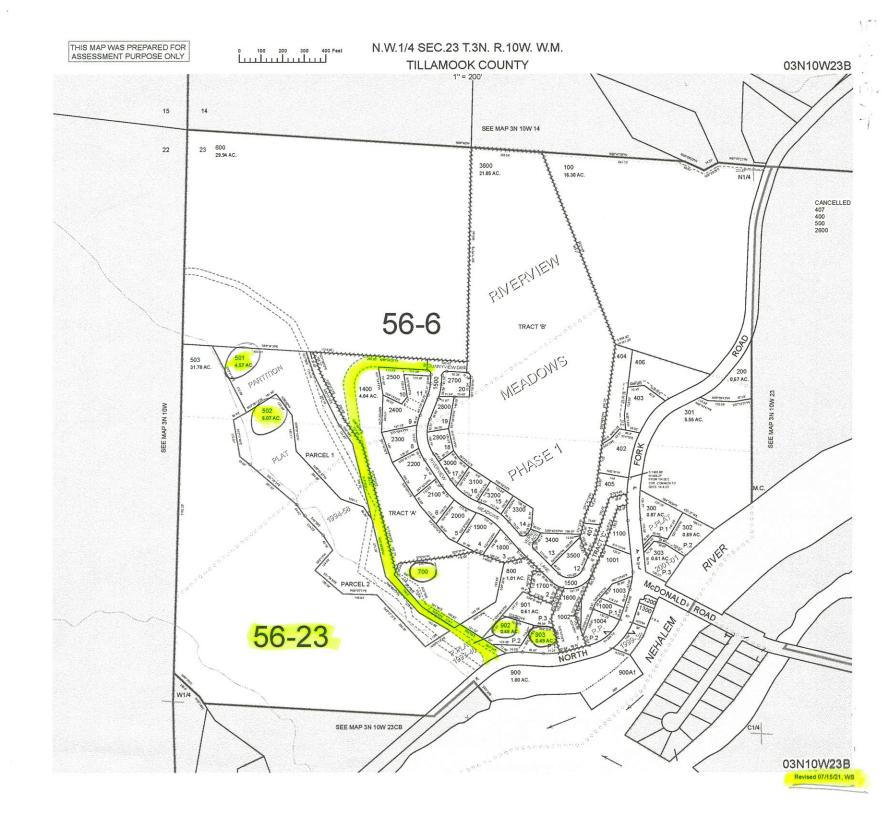


EXHIBIT 6-1

REAL PROPERTY TAX STATEMENT **JULY 1, 2022 TO JUNE 30, 2023** TILLAMOOK COUNTY, OREGON 201 LAUREL AVE **TILLAMOOK, OREGON 97141**

(503) 842-3400

PROPERTY DESCRIPTION

CODE:

5606

MAP:

3N1023B000501

ACRES:

3.84

SITUS:

38100 NORTH FORK RD COUNTY

LEGAL:

PARTITION PLAT 1994-58 PARCEL 1

III COURT OF COLUMN

REAL PROPERTY TAX STATEMENT JULY 1, 2022 TO JUNE 30, 2023 TILLAMOOK COUNTY, OREGON 201 LAUREL AVE TILLAMOOK, OREGON 97141

(503) 842-3400

PROPERTY DESCRIPTION

CODE:

5623

MAP:

3N1023B000502

ACRES:

3.70

SITUS:

38000 NORTH FORK RD COUNTY

LEGAL:

PARTITION PLAT 1994-58 PARCEL 2

REAL PROPERTY TAX STATEMENT JULY 1, 2022 TO JUNE 30, 2023 TILLAMOOK COUNTY, OREGON 201 LAUREL AVE TILLAMOOK, OREGON 97141

(503) 842-3400

PROPERTY DESCRIPTION

CODE:

5623

MAP:

3N1023B00<mark>0700</mark>

ACRES:

2.38

SITUS:

38050 NORTH FORK RD COUNTY

REAL PROPERTY TAX STATEMENT **JULY 1, 2022 TO JUNE 30, 2023** TILLAMOOK COUNTY, OREGON **201 LAUREL AVE** TILLAMOOK, OREGON 97141

(503) 842-3400

PROPERTY DESCRIPTION

CODE:

5623

MAP:

3N1023B000902

ACRES:

0.49

SITUS:

38170 NORTH FORK RD COUNTY

LEGAL:

PARTITION PLAT 1993-46 PARCEL 2

REAL PROPERTY TAX STATEMENT **JULY 1, 2022 TO JUNE 30, 2023** TILLAMOOK COUNTY, OREGON 201 LAUREL AVE TILLAMOOK, OREGON 97141 (503) 842-3400

PROPERTY DESCRIPTION

CODE:

5623

MAP:

3N1023B000903

ACRES:

0.49

LEGAL:

PARTITION PLAT 1993-46 PARCEL 1

EXHIBIT G-1





? EMERGENCY ACCESS COAD

EXHIBIT 6-2

EXHIBIT 63"

Nehalem Bay Fire & Rescue District Building Review & Approval Form

36375 Hwy 101 N. Nehalem, OR 97131 Office 503-368-7592 Fax 503-368-7580

	This form must be completed and sign Dwelling Placement Permit.	ed by the Fire District prior to ap	plying for a Building Permit or Manufactured
	Township Range Section 1/4 Sect 3N ☐ 10☐ 23 ☐ B ☐	1/16 Sect Tax Lot# (00500) 3600	Property Address: Tract B of Riverview Meadows Subdivision
	Legal Property Owner(s): Riverview Meadows Developm	nent, LLC.	Property Owner's(s') Mailing Address: 23765 SE Hwy 212 Damascus, OR 970
	Form Requested by: Prini Lee McCord	Requestor's Relationship t Junior Partner	o Property: Requestor's phone # and email: 971.808.7611 / PriniLee@JPLinvestme
:*S	Proposed Development/Construction Residential	Water Source: Water District	Water District: Nehalem
		Fire District to Complete Info	ormation Below
	 Does access road comply with Till Yes, it complies. 	15 ST 150	
	No, it does not comply. Se	ee comments section below	
	2. Is there a hydrant within 1000' of Yes, approximate GPM	the property? Hydrai	nt#
	No, Fire District water shu	attle operation is needed	
	Comments: the TCFDB with these of	Guidelines. All roads of	pecome the new primary access and meets reated within the development must comply nproved. A copy of the guidelines has been
	3. Action Taken: I have reviewed the infor	mation regarding the poperty	listed above and approve.
	I have reviewed the info	rmation regarding the propert	y listed above and <u>do not</u> approve for the following
	reason(s):		
	Printed Name: Captain Fra	ank Knight III	
	Signature: Frank Kni	ght III Date:	12/7/22

EXHIB 17 6 -3



EXHIBIT 6.5"



directions, the narrow width of this roadway may require similar slowing and yielding behavior at times. Accordingly, the carrying capacity of this roadway is expected to be similar to that of a residential queuing street, at approximately 1,000 vehicles per day. With completion of the proposed development, it is projected that the roadway will carry approximately 870 vehicles per day, which is within the capacity of the roadway.

It is anticipated that the new south access roadway will be constructed in a manner intended to attract site trips in lieu of River View Meadows Lane through the use of monumentation signage and a wider, more accommodating road design. This may reduce the traffic levels on River View Meadows Lane. Regardless, larger trucks should be directed to use the new south site access roadway.

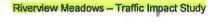


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RIVERVIEW MEADOWS PHASE 3 36 LOT SUBDIVISION

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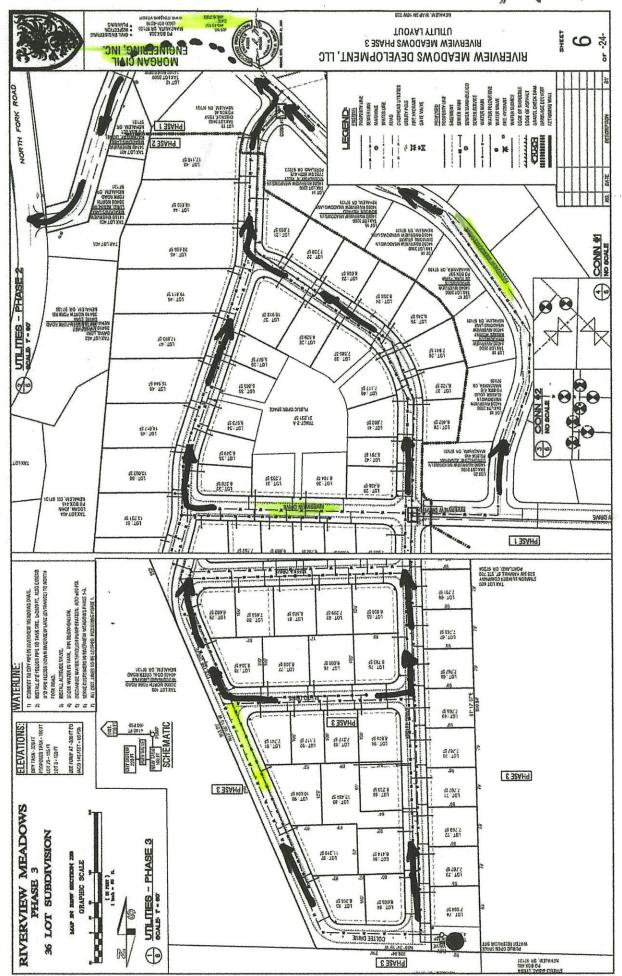




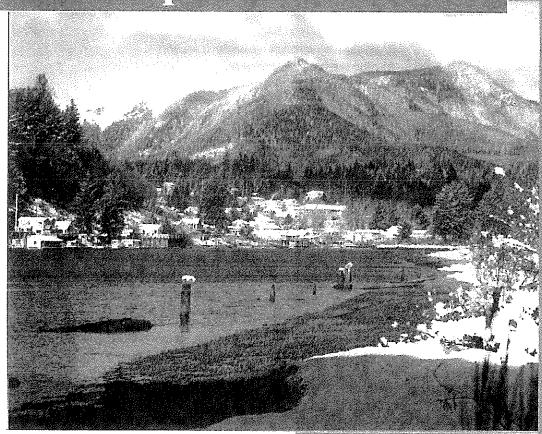


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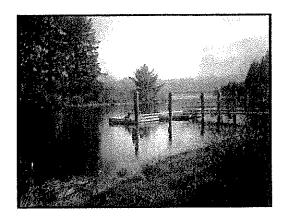
Ordinance 2019-03 "Exhibit A"

City of Nehalem Comprehensive Plan



December 9, 2019

THE CITY OF NEHALEM, OREGON COMPREHENSIVE PLAN



Article I Introduction

This is the City of Nehalem's Comprehensive Plan. Think of it as our community's map to the future. It describes:

- 1) where we are today,
- 2) where we want to be tomorrow, and
- 3) how we plan to get there.

A plan of many parts

As the term "Comprehensive" suggests, this Plan covers a wide variety of topics:

Citizen Involvement and Visioning Natural and Historic Resources Natural Hazards Public Facilities Population

Housing
Economic Development
Urban Growth
Land Use

Climate Change

Although they may seem quite different, these topics all share one thing in common: they are forces and factors that determine how our community will grow and develop.

The area covered by the Nehalem Comprehensive Plan is approximately 861 acres and includes:

- a. the Nehalem city limits; and
- b. land within the Nehalem Urban Growth Boundary (the Urban Growth Area (UGA)) outside the Nehalem city limits.

The Nehalem Comprehensive Plan consists of two parts:

- 1. The Goals, Objectives and Policies to meet each state goal; and
- 2. The Background Report consists of inventories, reports, and factual data that describe the resources and features of Nehalem.

The City of Nehalem Comprehensive Plan can influence these forces and factors to shape the community the citizens want, and thereby can grow efficiently and effectively. The City can plan and zone land for new businesses, and new residential growth, in areas free from conflicts with other land uses, other overlay districts, with good access and suitable public services like sewers and water. The City can prepare for growth and development in our community through this Plan.

In doing such planning, the City makes policy choices. It can choose to encourage new businesses in the City. It can choose to direct new businesses toward certain areas in the City. It can choose to provide appropriate infrastructure in those areas. Such choices mean the Plan is a statement of what the community wants, not a prediction or forecast of what must be but what it may potentially become. The Plan is based on the assumption that we can shape our future in relationship to the community's visions and future predictions.

"The future" covered by the City Comprehensive Plan is the period from 2020 to 2040. In this Plan certain accommodations for the future, future growth and development, are made. For example, the Urban Growth Boundary established by this Plan is designed to contain enough vacant land to accommodate the residential, commercial, and industrial development Nehalem expects over the next two decades.

It's the Law

The Comprehensive Plan was adopted as an ordinance by the City. It thus is a law, with the same force and effect as other City ordinances. It prevails and guides other ordinances like zoning ordinances.

It's more than a map

Many people think of a city's plan as just a map showing areas where different types of development may occur in the future. The Plan states Nehalem's general policies on land use, visioning, citizen involvement, community growth and development. Nehalem's Comprehensive Plan contains such a map, but there's a lot more to the plan than that. The Plan map shows how various parts of the city are designated for residential, commercial, industrial and public use. It also shows the location of the City Limits, the Urban Growth Boundary and of urbanized lands where future annexations and urban development are expected to occur. The crucial details are found in the text and policies of the plan. It therefore is essential to consider both the Comprehensive Plan Map and the Comprehensive Plan Text when making decisions about growth and development in the City of Nehalem.

Article II of the Plan reflect each of the applicable state goals. They contain several sets of statements after a narrative description, identifying the relationship of the state goal to the City's vision, and the requirements for each state goal as described by the state. Following these sets of statements is the City's goal, objectives and policies.

A goal is the broad statement of the community need, here based on each chapter. This is followed by a set of statements containing one or more "Objectives". Objectives are more specific expressions that break down the community's goals so the goals are more detailed for the subject addressed and are steps the City can take to realize its goals in that chapter. Objectives are designed to complement the next set of statements; policies. The third set of statements for each of the objectives, contains "Policies" or "Implementing Policies". These policies are specific measures for achieving each of the chapter's goals and objectives. Sometimes these are the "implementing" policies because they are the last set identified to accomplish the objectives and meet the goal. However, a fourth set, if necessary, after, each policy, contains implementing procedures or recommended actions, which describe how the City will carry out and can achieve each of the policies. The goal, objectives, implementing policies, and implementing procedures are located at the end of each chapter.

The local Comprehensive Plan's link to the state

Every city in Oregon has a comprehensive plan. State law requires it. And the state sets broad standards for those plans in the form of 19 statewide planning goals and various administrative rules and statutes. All local plans, including this one, are reviewed under those state standards by Oregon's Land Conservation and Development Commission (LCDC) or the commission's staff, the Department of Land Conservation and Development (DLCD). Nehalem's plan thus is the product of a state-local partnership. It reflects both local and state interests.

After a plan has been reviewed and found to meet state standards, it is said to be "acknowledged," or "in compliance with Oregon's statewide planning goals." Acknowledgment is important, because it means Nehalem's acknowledged Comprehensive Plan - not state law - is the controlling document for all land use decisions made within the City's jurisdiction. The answers to land use questions are determined by the provisions of Nehalem's acknowledged Comprehensive Plan and the implementing ordinances of the plan, such as the Zoning Ordinance. All actions such as zoning, subdivisions, public facility extensions, and annexations must be in conformance with the plan. The comprehensive plan guides a community's land use, conservation of natural resources, economic development, and public facilities.

In the process of updating the Nehalem City Comprehensive Plan each State goal was analyzed as to its applicability to the community. The goals represent State laws, which are flexible in nature to the extent that a community must interpret their validity to the local situation. These relevant statewide goals include the following: 1) Citizen Involvement, 2) Land Use Planning, 3) Agricultural Lands, 4) Forest Lands, 5) Natural Resources, Scenic and Historic Areas, and Open Spaces, 6) Air, Water, and Land Resources Quality, 7) Areas subject to Natural Disasters and Hazards, 8) Recreational Needs, 9) Economic Development, 10) Housing, 11) Public Facilities, 12) Transportation, 13) Energy Conservation, 14) Urbanization, and 16) Estuarine Resources, and 17) Coastal Shorelands, 18) Beaches and Dunes, and 19) Ocean Resources. The City has exercised the local right to prioritize the goals in order to guide the City of Nehalem in those broad land use propositions that make a good Oregon community. Adoption of the Plan commits the City to carry out each recommendation or policy statement. It further puts the City on record as having recognized the validity of the recommendations of and the decisions or actions they imply. In each section of this Plan, the pertinent State Goals shall be identified.

How plans are revised

Communities change, and as they change, their plans change, too. A plan can be changed a little or a lot, with a "plan amendment." Plan amendments can involve changes for only a few properties or one or two strategies in the plan or a major reevaluation and update - an overhaul of the entire plan. There's no set schedule for making plan amendments: they're proposed as needed. Sometimes reviews are done every five to fifteen years in a schedule determined jointly by the state Department of Land Conservation and Development and the local government.

If a reevaluation and update of this Plan is needed, a post-acknowledged plan amendment (PAPA) is required. This post-acknowledged plan amendment ensures that the City's Comprehensive Plan is kept up-to-date and consistent with the State Goals.

Plan amendments are very public processes. Citizens must be notified of any proposal to change the Plan; they must have an opportunity to comment on such a proposal in a public hearing; and the State's Department of Land Conservation and Development must be notified, as well.

As part of a public process, in 2018, the City of Nehalem adopted the Nehalem Vision Statement and Aspirations (hereinafter the Vision, as is shown below). The result of the Vision is a reorganized Comprehensive Plan.

Nehalem's Vision Statement and Aspirations

Vision Statement

In 2040, Nehalem is a livable, economically sustainable, rural coastal community, a place where people know each other and celebrate its setting of natural beauty.

Vision Aspirations

The following aspirations have been identified as the path to achieve our City's vision:

Housing

• Housing is available to meet the diverse needs of Nehalem citizens, and reflects the rural, coastal character of the community.

Social Support and Safety

Nehalem is noted for its livability for people of all ages, income levels and family sizes. It
has many avenues for making connections among neighbors including local businesses,
gardening, recreation, gathering places, and events.

Economy

 Nehalem has a strong four-season economy. Encouraging small businesses, vital goods and services, cottage industries, and home-based businesses to locate in Nehalem results in a vibrant year-round economy.

Infrastructure

 Nehalem's infrastructure of water, sewer, storm drains, streets and parks is developed to good standards for a rural community, well-maintained and renewed as needed from well-funded and well-managed reserve funds.

Open Space, Parks and Recreation

- Access to the outdoors is a key part of Nehalem's character and the community's experience of living. Open space, parks, and active and passive recreation are readily available to citizens and visitors.
- Mitigation of our contributions to climate change and adaption to likely impacts are important in protecting the livability and quality of life for our citizens and visitors.

Inclusive and Collaborative Community

 Nehalem is an inclusive and collaborative community where local governments, not-forprofit organizations, businesses, and residents work together to successfully address community issues and opportunities. The City actively promotes citizen involvement. A culture of trust and respect defines the community.

Each Aspiration is integrated into the appropriate section of the Plan, so that the goals, objectives and policies set under each section reflect the City Vision.

Purpose

With updates, amendments, and other adjustments, the purpose of the Nehalem Comprehensive Plan is to manage future growth and development within the City Limits and Urban Growth Boundary in a way that will support the City's vision and preserve the quality of natural amenities and livability that have attracted people to Nehalem. The Plan's goals and

policies will provide the guidance to both public agencies and private individuals when making decisions about the future development of the City.

The area outside the Nehalem City Limits but inside the Urban Growth Boundary is within the jurisdiction of Tillamook County. Tillamook County shall retain responsibility for land use decisions in this area, subject to Nehalem's Comprehensive Plan and Land Use Ordinances.

The entire plan should be considered as (1) a body of technical information about the City of Nehalem Area, our assessment of that and findings of fact to support what we feel from that data analysis and prioritizing of goals, (2) a statement of desired goals, objectives and policies of the Nehalem residents, and (3) a set of recommended actions to reach the goals and resolve issues and problems uncovered by the analysis, and, (4) an appendix of supporting documents.

Those who must make decisions affecting the people of Nehalem shall use the Comprehensive Plan as a basic reference and guideline.

Article II THE PLAN

GOAL 1: CITIZEN INVOLVEMENT



City Vision (Inclusive and Collaborative Community)

Nehalem is an inclusive and collaborative community where local governments, not-for-profit organizations, businesses, and residents work together to successfully address community issues and opportunities. Awareness of social and environmental justice is integral to ensuring that decisions are made that don't disproportionally affect or make more people and communities more vulnerable. Reviewing decisions around issues such as zoning, uses, hazard, and climate change adaptation through these lenses is necessary and requires transparent and open citizen involvement processes.

The City actively promotes citizen involvement. A culture of trust and respect defines the community.

State Requirements for Goal 1, Citizen Involvement:

Goal 1 calls for "the opportunity for citizens to be involved in all phases of the planning process." It requires each city and county to have a citizen involvement program containing six components specified in the goal. It also requires local governments to have a committee for citizen involvement (CCI) to monitor and encourage public participation in planning.

Nehalem's Planning Commission and City Council are guided by the principle that citizen participation in planning and land use issues is essential. The single most important factor influencing the effectiveness of this Plan is the extent of citizen participation in its development.

Nehalem's Citizen Involvement Goal

1. To provide all city and Urban Growth Area residents an opportunity to be involved in all phases of the planning process.

Objectives

- 1. All people of the community shall be represented.
- 2. Hearings and changes to plans and codes shall be properly noticed.
- 3. Citizens shall be informed of meetings and heard.

Policies

- 1. The Planning Commission shall represent the people in the community and shall be chosen in a fair, well-publicized manner.
- 2. City Meetings shall be well publicized. Minutes of the meetings shall be made available upon request.
- 3. The Comprehensive Plan, Zoning Ordinance, Subdivision Ordinance, and other City Ordinances shall be available at City Hall at a nominal cost.
- 4. The City Council and Planning Commission shall respond to citizens' concerns and comments through direct response at meetings, by letter, or through the meeting minutes.
- 5. Comprehensive Plan Changes shall be made only after adequate public discussion and notifications, of interested and affected districts and agencies such as the Nehalem Bay Wastewater Agency, Neah-Kah-Nie School District, and Tillamook County.
- 6. Plan changes will only be adopted after well-advertised public hearings have been held by the Planning Commission and City Council.
- 7. The Planning Commission is the citizen involvement committee for the community.

GOAL 2: LAND USE PLANNING

History of Land Use in the City of Nehalem

Nehalem was named for the Nehalem Indians.

First Incorporated by an Act of the Legislature in 1899, the City "...where the people live..." sits on the western bank of the Nehalem River and along the Nehalem Bay in Tillamook County. It is equal distance from both the Cities of Tillamook and Seaside, and 70 miles from the Portland metro area. Each year thousands of visitors discover what long-time residents have always known - Nehalem is the place to live, work and play.

Nehalem was once a thriving logging community. The city used to stretch over the river on log planks, where a lumber mill cut logs that came down a railroad track on the Nehalem River. Wood pilings that held up this track can be found in the North Fork Nehalem River.

Existing Land Use in the City of Nehalem

One of the most important pieces in planning for future land use is identifying the amount, type, and location of existing land use. The location of existing residential, commercial, industrial, public, and open space areas provides a basis for understanding present conditions and for making projections for future land use patterns. The Comprehensive Plan Map and Zoning Map for the City of Nehalem reflect zones and planned land uses within the City's Urban Growth Boundary. In this chapter, each land use will be discussed with a description of the goals, objectives and policies for the different uses after each.

Land Use Designated Areas

The City of Nehalem Comprehensive Plan and Zoning Map shows the zone designations for land in the City and the Urban Growth Boundary (UGB), including residentially zoned areas of both low and medium density, commercial areas, industrial areas, public lands, agriculture, forestry and recreation areas. The Map shows how land use in Nehalem will look as the goals, objectives, policies and recommendations are implemented.

State Requirements for State Goal 2, Land Use Planning:

Goal 2 outlines the basic procedures of Oregon's statewide planning program. It says that land use decisions are to be made in accordance with a comprehensive plan and that suitable "implementation ordinances" to put the plan's policies into effect must be adopted. It requires that plans be based on "factual information"; that local plans are coordinated with those of other jurisdictions and agencies; and that plans be reviewed periodically and amended as needed. Goal 2 also contains standards for taking exceptions to statewide goals. An exception may be taken when a statewide goal cannot or should not be applied to a particular area or situation.

Nehalem's Land Use Goal:

To establish a land use planning process and policy framework as a basis for all decisions and actions related to use of land and to assure an adequate factual base for such decisions and actions; to encourage development outside of natural hazard areas including climate-related hazards; and to encourage the use of construction materials and standards that limit greenhouse gas emissions during building use.

Residential

Residential uses include lands used for single-family, duplex and multi-family development. There are essentially two levels of residential development: lower-density development and medium-density development.

(1) Low-Density Residential

Intent/Objective

1. To provide for low-intensity urban residential development in areas that have physical limitations or unique natural values.

Policies

- 1. The density of low-density residential development shall not include Marsh and tideland areas in calculating the land area of a parcel of land.
- 2. Cluster or planned-unit developments are strongly encouraged.
- 3. Special policies for development of Nehalem Point.
 - a. Use of developable land within the UGB above ten-foot elevation.
 - i. These land above ten-foot elevation may be developed for uses consistent with the Low-Density Residential zoning and any additional uses allowed by the planned-development provision.
 - ii. Structures on Nehalem Point shall be designed and sited to maintain the visual integrity of the Nehalem Point skyline and its shore lands.
 - b. Use of land outside the Urban Growth Boundary below ten (10) foot elevation.
 - i. Lands below ten (10) feet in elevation which are within the estuary boundary are designated "EN" (Estuary Natural).
 - Other lands below ten (10) feet in elevation are designated as "RM" (Recreation Management).
 - These lands shall be reserved for uses such as mitigation for new estuary development projects, estuary enhancement or restoration, outdoor recreation without intensive development and open space in conjunction with planned development uses.

(2) Medium Density Residential

Intent/Objective

1. To provide for moderate intensity residential development in areas that have already been subdivided or where there are few physical constraints on development.

Policies

1. The permitted density may be reduced where a site investigation report by a qualified expert indicates that such a density reduction is required to ensure creation of build able sites.

(3) Marine Residential

Intent/Objective

1. To provide for a mixture of residential and marine commercial uses.

Policies

- 1. New marinas or an expansion of existing facilities are an appropriate use where it can be shown that the proposal is:
 - a. Consistent with the City's Estuarine Resources policies; and
 - b. Compatible with adjacent residential uses.
- 2. New individual, single purpose piers and mooring facilities shall be discouraged in favor of public or private community facilities, while the maintenance of existing individual piers and moorage facilities is strongly supported.

(4) Commercial

The lands currently in commercial use and designated for commercial use are identified in commercial areas on the zoning map and is categorized by the designation of downtown (Town Center), highway-oriented (Other), and neighborhood uses.

(5) Town Center Commercial

Intent/Objective

 To provide for a wide range of retail and personal service uses to serve both City residents and tourists, and Multi-family dwellings.

Policies

- 1. The City will continue to work with the City merchants to achieve an equitable long-term solution to the problem of flooding in the Downtown.
- 2. Commercial uses which are consistent with the development of a compact, landintensive City Center that facilitates pedestrian movement are encouraged.
- 3. Multi-family housing is encouraged.
 - a. Housing, in conjunction with a commercial use shall also be encouraged.
- 4. The existing vegetative cover on Deer Island should be maintained.

(6) Other Commercial

Policies

1. Commercial development between Nehalem and Manzanita should be clustered.

(7) Industrial Land

The industrial uses in the City include the area in the northeast area of the UGA, as designated on the Map.

(8) Public Areas

Public areas include lands designed for public buildings, public utilities, schools, playgrounds, churches, meeting halls, and other similar uses which are considered public facilities. The purpose of the public district is to recognize existing public facility land use and areas for those uses, which generate large public gatherings, and to provide for the development of public facility services and other public-oriented uses.

Intent/Objective

1. Recognize certain lands to be designated for public use and recreational activities.

(9) Overlay Zones

The City of Nehalem has a number of overlay zones as described in the Zoning Ordinance that are located in special areas of the City and are applicable in addition to the underlying base zone districts. Properties within the overlay zones are subject to the requirements of the underlying base zone district and additionally the overlay zone district.

Additional Policies:

- 1. In conjunction with affected regional, state, and federal agencies, the City agrees to assume cooperative responsibility for land use planning
- The City shall cooperate with the school district to ensure that growth of the City does
 not outstrip the district's ability to provide facilities. Subdivisions or other major
 developments that could generate large enrollment increases shall be permitted only
 after consideration of their impact on schools.

GOAL 3: AGRICULTURAL LANDS

Nehalem does not include agricultural lands but supports the community's need to provide food for itself. Supporting local and sustainable agriculture in the region is strongly encouraged by the community and will continue to be a priority into the foreseeable future.

State Goal 3, "To preserve and maintain agricultural lands."

State Requirements for Goal 3:

Oregon Statewide Planning Goal 3 Agricultural Lands does not apply within the Urban Growth Boundary and Nehalem does not have agricultural zoned lands within its boundaries.

Nehalem City Goal: Although this State Goal does not apply to the City, the City supports preservation and maintenance of the agricultural lands.

GOAL 4: FOREST LANDS

The City supports efforts to preserve forest lands with the City's Forest Management Plan approved by the State of Oregon.

State Goal 4, "To conserve forest lands by maintaining the forest land base and to protect the state's forest economy by making possible economically efficient forest practices that assure the continuous growing and harvesting of forest tree species as the leading use on forest land consistent with sound management of soil, air, water, and fish and wildlife resources and to provide for recreational opportunities and agriculture."

State Requirements for Goal 4, Forest Lands:

Oregon Statewide Planning Goal 4 Forest Lands does not apply within the Urban Growth Boundary.

<u>Nehalem City Goal</u>: Although this State Goal does not apply to the City, the City supports preservation and maintenance of forest lands.

GOAL 5: NATURAL FEATURES, NATURAL RESOURCES, SCENIC AND HISTORIC AREAS, AND OPEN SPACES

The City of Nehalem is surrounded by active and passive recreational areas and natural resources that include the downtown waterfront and shoreland, wetlands, estuaries, flood plains, agricultural lands, and forestlands on the surrounding hillsides. A rich geographic setting of natural resources therefore surrounds the urbanized area of the City.

With recognized climate change, the temperature of the earth's surface is warming, and a changing environment is occurring inside and outside of the city. Snowpack is declining, summer stream flow is lowering, wildfire activity is increasing, sea level is rising, and coastal waters are acidifying. The consequences of these climate change are expected to continue for decades to come. This places an impact on natural features, natural resources, and makes it more important to preserve scenic and historic areas, open spaces, and the natural environment.

The City is aware that climate change may greatly affect the community, and the natural features and the natural resources in the community.

Maintaining and providing access to this natural environment that surrounds the City is important. Therefore, minimizing the adverse impacts and protecting the natural environment are important in the growth and development of Nehalem.

City Vision (Open Space, Parks and Recreation)

Access to the outdoors is a key part of Nehalem's character and the community's experience of living. Open space, parks, and active and passive recreation are readily available to citizens and visitors.

State Requirements for Goal 5, Open Spaces, Scenic and Historic Areas and Natural Resources: Goal 5 covers more than a dozen natural and cultural resources such as wildlife habitats and wetlands. It establishes a process for each resource to be

inventoried and evaluated. If a resource or site is found to be significant, a local government has three policy choices: preserve the resource, allow proposed uses that conflict with it, or strike some sort of balance between the resource and the uses that would conflict with it.

Nehalem City Goal

1. To foster high-quality development consistent with the natural environment.

Objectives

- 1. It is the intent of the City to monitor development to minimize adverse impacts to the natural environment.
- 2. It is the intent of the City to monitor cluster development to protect the natural environment.
- 3. Riparian areas shall be preserved.
- 4. Scenic views are an important part of the City's environment.
- 5. It is the intent of the City to encourage the idea of Deer Island as a park or land trust, if the island becomes available for purchase.
- 6. The City encourages open space in developments.

Policies

- 1. The density of development in a planned-unit development or a cluster subdivision shall be consistent with the density permitted in the zone in which it is developed.
 - a. Increases in density may be permitted where the development provides facilities or areas which help meet community objectives.
 - b. Any density increase shall be compatible with the site and adjacent areas.
- 2. Land-use management practices and non-structural solutions to problems of erosion are preferred to structural solutions.
 - a. Where shown to be necessary, erosion control structures must be approved by the State and shall be designed to minimize adverse impacts on water currents, erosion and accretion patterns, and on adjacent property.
- 3. Riparian vegetation shall be maintained, and where appropriate, restored and enhanced consistent with water-dependent uses.
- 4. Scenic views should be used and protected in the development of land.
- 5. Developments shall include measures to control erosion and minimize sedimentation during construction.
- 6. Developments, especially those adjacent to the Nehalem River and Bay, where permitted by FEMA, shall consider the impact on wildlife resources.
 - a. Projects shall be designed to minimize their impact on areas identified as having riparian vegetation.
- 7. Climate change has the potential to change natural features and as a result the City intends to embrace opportunities to reduce emissions of greenhouse gases, foster sequestration of carbon, and adapt to unavoidable changes.
- 8. The City recognizes that climate change stresses the forested watersheds upon which the City depends, and that human activity in these watersheds exacerbates these stresses by increasing the potential for wildfire, introduction of pathogens, and spread of invasive species. Furthermore, mature forests are more resilient to climate induces stress. The City intends to manage its watersheds to minimize forest stress due to climate change and will continue to not allow public access to the watershed.

GOAL 6: AIR, WATER AND LAND RESOURCES QUALITY

Air, water and land resources are important factors in the City of Nehalem.

Air quality within the planning area is generally very good. Air pollution from automobiles is not a significant problem even with high volumes of summer tourist traffic going through town. A prevailing wind usually blows in Nehalem and clears the air quickly. Water quality within the area is generally excellent. Rains and tidal actions constantly change the level and velocity of the Nehalem River.

The City recognizes climate change as an issue that may greatly affect air and water quality as well as land resources.

The City of Nehalem vigilantly safeguards its water supply to provide safe drinking water for our community. The City owns 90% of our watershed, with the remaining portion owned by one private timber company.

The Lower Nehalem Watershed Council, while not affiliated with the City of Nehalem's watershed, works on preservation and enhancement of the lower Nehalem River. The Watershed Council is dedicated to the protection, preservation, and enhancement of the lower Nehalem watershed through leadership, cooperation and education.

Significant Water Quality within the UGB depends in part on protecting designated significant wetlands and riparian corridors. The City will ensure that future development occur in a manner that protects all significant wetlands and riparian corridors within the Nehalem UGB.

State Requirements for Goal 6, Air, Water and Land Resources Quality:

This goal requires local comprehensive plans and implementing measures to be consistent with state and federal regulations on matters such as ground water pollution.

City Goal

1. To maintain, and where necessary, improve the City's air and water resources.

Objectives

1. To ensure the continued quality of air, water and land resources within the City and the UGB.

Policies

- 1. The City will ensure that the actions it takes are consistent with appropriate state and federal environmental quality standards, statutes, programs and policies, including those for water quality, air quality and noise.
- 2. The City will control sedimentation and erosion resulting from urban development through its Subdivision Ordinance.
- 3. The State Department of Forestry should monitor the use of herbicides in the Nehalem area, particularly around the City's Watershed.
 - a. Persons or organizations using herbicides shall notify the City and public prior to use, and in no instances shall herbicides be used in the City's Watershed. Or on land affecting the City's Watershed, without City approval.
- 4. The City will encourage actions that limit emission of greenhouse gases.
- 5. The City will continue implementing the City of Nehalem Master Water Plan.

6.	6. All waste and process discharges from future development is not to violate applicate state or federal environmental quality statutes, rules and standards.		

GOAL 7: AREAS SUBJECT TO NATURAL HAZARDS

The most significant natural hazards in Nehalem are landslides and flooding. In addition, climate change has the potential to make these natural hazards more frequent and severe, and to bring new natural hazards, identified in the Oregon Natural Hazards Mitigation Plan, that haven't typically been experienced.

Landslides occur on steep slopes. Flooding is a condition of partial to complete inundation of normally dry areas from the overflow of inland or tidal water and/or the unusual and rapid accumulation of runoff or surface waters from any source. The city of Nehalem lies within the geomorphic floodplain of the Nehalem River. In Nehalem, there are two types of areas where flooding generally occurs — the floodplain and



the floodway – both are part of the Flood Hazard Area.

The floodplain is the area adjoining a stream, river, or lake that is subject to regional flooding. It represents the largest flood which has a one percent chance of occurring in any one year in an area because of periods of higher than normal rainfall or stream flows, high winds, rapid snow melt, natural stream blockages, or combinations thereof.

The Floodway is the channel of a watercourse that must be kept free of any encroachments so that the 1% annual chance flood can be discharged without cumulatively or substantially increasing the water surface elevation and flood height. Generally, the City's Floodway matches the location of the Nehalem River, and includes the island north of the City.

State Requirements for Goal 7, Areas Subject to Natural Disasters and Hazards:
Goal 7 deals with development in places subject to natural hazards such as floods and landslides. It requires that jurisdictions apply "appropriate safeguards" (floodplain zoning, for example) when planning for development there.

City Goal

To reduce risk to people and property from natural hazards

Objectives

1. The City intends to protect people and property from harm caused by natural hazards.

- 1. The City shall adopt maps, plans, inventories, policies, and implementing measures that reduce risk to people and property from natural hazards.
- 2. The City shall give special attention to emergency access and evacuation when making development decisions.
- The City shall seek to devote natural hazard areas as open space or other low intensity uses in so far as such measures will mitigate natural hazards and will maintain public safety and welfare.
- 4. The City shall maintain and coordinate their local Natural Hazard Mitigation Plan with local, state, and federal agencies.

- 5. The City shall coordinate with regional planning efforts for emergency preparedness, response, recovery and mitigation.
- 6. The City shall respond to new hazard inventory information within 36 months if notified to take such action by the Oregon Department of Land Conservation and Development (DLCD) unless such time to respond is extended by DLCD.
- 7. The physical capabilities and limitations of the land shall be utilized in establishing the type and density of development that can occur.
- 8. Flexible development approaches such as planned-unit developments and cluster subdivisions are encouraged, particularly in areas where development constraints such as flood hazards or steep slopes exist.
- 9. Developers of large properties with varied terrain are encouraged to cluster structures on the least steep portions of the site and to leave steep slope areas undisturbed.

Geologic Hazard Policies

- 10. For the purpose of identifying and mitigating geologic hazards the City shall require geologic site investigation reports prepared by appropriately qualified professionals that evaluate the risk to the site as well as the risk the proposed development may pose to other properties.
- 11. Site-specific geologic studies and investigations by a qualified expert may be required in areas suspected of being subject to landslide hazard when appropriate to assure safe development consistent with local, state, and federal criteria:
 - a. For all proposals for divisions of land;
 - b. When required by the building official;
 - c. When required by the City to assure public safety and welfare;
 - d. For grading, excavation, and/or the placement of fill in the development of streets and public rights-of-way;
 - e. For the construction of utilities;
 - f. Where ground disturbing activities are proposed; and
 - g. As required in the current Nehalem Zoning Ordinance.
 - When a site report is required, construction shall occur only if the investigation indicates that development is feasible, and construction shall be in conformance with the site report. Where necessary, an engineer approved foundation may also be required.
- 12. When a geologic site investigation report is required, the report shall be prepared at the subject property owner's expense by an appropriately qualified professional engineer and certified engineering geologist licensed to work in the State of Oregon.
- 13. The geologic site investigation report shall be provided prior to permit approvals and prior to project commencement and shall be required as a condition of approval for public hearings where a geologic site investigation report will be required for the project.
- 14. The geologic site investigation report shall provide stormwater drainage management recommendations consistent with the current Nehalem Storm Water Drainage Master Plan.
- 15. The density of development allowed by the City within a zone shall be supported by the recommendations of the geologic site investigation report.
- 16. The City encourages site design which utilizes the natural topography and vegetation including but not limited to the following techniques:
 - a. Flexible development approaches such as planned developments; and

- b. Efforts shall be made to maintain streams in their natural state; and
- c. Access roads and driveways should follow natural slopes and contours and need not be constructed in block patterns; and
- d. In cases of undeveloped platted lands, the City supports property line adjustments and the replotting of existing lot lines and/or public right-of-way consistent with natural features.
- 17. Grading should be minimized in areas with a slope greater than 15%.

Flood Hazard Policies

- 18. Within the Nehalem Special Flood Hazard Area (SFHA) designated by the National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM):
 - a. The City shall ensure that all development is documented by the property owner as consistent with the requirements of the NFIP; and
 - b. The property owner shall submit with any development application evidence that the proposed development will not increase flood hazards on adjacent property or create any adverse impacts to adjacent property.
- 19. All development inside the City Limits shall be consistent with the City's Flood Hazard Overlay Zone requirements.
 - a. All development inside the Urban Growth Boundary but outside the City's Limits shall be consistent with the City's Flood Hazard Overlay Zone requirements.

Other Natural Hazard Policies

- 20. The City identifies and plans for its natural hazards such as windstorms, winter storms, coastal and riverine floods, landslides, earthquakes and earthquake related hazards, tsunami, erosion, and wildfires. The City may identify and plan for additional hazards.
- 21. The City plans for resilience, response, and recovery regarding hazards including and not limited to the anticipated and historically cyclical Tsunami Hazard initiated by a Cascadia Subduction Zone earthquake.
- 22. The City is aware that climate change may affect the natural hazards in the community and encourages mitigation measures to deal with these and increasing occurrence of natural hazards.
- 23. The City intends that staff are sufficiently trained to take advantage of Federal and State natural hazard mitigation programs.
- 24. The City shall utilize the best available information about climate related hazards from the Oregon State Climate Change Research Institute and other related resources.

GOAL 8: RECREATIONAL NEEDS

Nehalem's Urban Growth Boundary is surrounded by forest, estuarine and river areas, and rolling hills. Nehalem Bay State Park, at 34600 Garey Street, is located to the south of town and Oswald West State Park and Short Sands Beach are located to the north of town. Although Nehalem is a small community, it has an abundant amount of recreational opportunities. Maintaining and providing access to this natural environment that surrounds the City and the downtown waterfront and shoreland of the Nehalem River, is important.

Trails

Trails support access to parks, through parks and other recreational opportunities. Nehalem has the opportunity to become the 'connecting hub' between the Oregon Coast Trail and Salmonberry Trail. A water trail along the Nehalem River, the Tillamook County Water Trail, is a nationally recognized recreation trail.

Parks and other Recreational Amenities

The City boasts public parks and boat docks that offer excellent views of the City and a chance to take in the natural beauty of the surrounding area. The Port of Nehalem provides areas alongside the river for fishing.

The parks and recreational areas in the City of Nehalem consists of the following.

Nehalem City Park



Nehalem City Park, at 12705 Hugo Street, offers residents and visitors alike unique views of the Nehalem Bay and the inter-coastal mountain range. The tranquil and natural setting has hosted many family gatherings, community picnics and even weddings. The park boasts excellent playground equipment for ages 2 through 12, several picnic tables and barbeques, along with a restroom facility.

Neil M. Walker Veteran's Park



The Neil M. Walker VFW Veteran's Park, at 35005 Riverside Drive, welcomes travelers along Highway 101 as they head north off from the Nehalem River Bridge. This Memorial Park offers unsurpassed views of the Nehalem River, Valley and Coastal Mountain range, and serves as a reminder of the many sacrifices made by so many for their service to our Country.

Nehalem Boat Docks



The City's two public docks, both located in downtown Nehalem, allow direct access to the Nehalem River. The Lower Dock is located at the end of Tohls Street in Harwood Square, while the Upper Dock is located at the end of H Street, just one block north. Both docks are open to the public and are free to use.

While the Lower Dock is best suited for transient tie-up by the myriad of fishermen and women that take advantage of the excellent steelhead and chinook fishing, the Upper Dock is the best place to launch a kayak from in order to truly explore the natural beauty of the Nehalem River and Bay.

North County Recreation District



The North County Recreation District (NCRD), at 36155 9th Street, offers many activities for people of all ages - from youth programs to senior services, NCRD boasts many amenities including an indoor heated pool, fitness center, skate ramp and a performing arts center.

Parks and recreation areas encourage passive and active recreational activities and preserve open space, wildlife habitat, and historical and cultural resources. Parks serve aesthetic purposes and create gathering spaces for public activities and events. Parks and recreation areas also provide a number of health and psychological benefits to residents of a community.

Parks are spaces where people can participate in active, outdoor, recreational pursuits, which encourage increased movement and can help reduce the risks of health problems. The trees and plants in the park help clean the air and soil of environmental contaminants, decreasing potential harm to residents. A well-designed park encourages people to leave the solitude of their homes and make more social connections.

Parks provide opportunities for residents of different generations and social classes to mix, strengthening community bonds. Preservation of open space has been shown to enhance a community's livability and character.

Parks can also improve property values. Studies have shown that there is a statistically significant link between location of parks and property values. In summary, parks provide a broad range of community benefits.

City Vision

Open Space, Parks and Recreation

Access to the outdoors is a key part of Nehalem's character and the community's experience of living. Open space, parks, and active and passive recreation are readily available to citizens and visitors.

State Requirements for Goal 8, Recreational Needs:

This goal calls for each community to evaluate its areas and facilities for recreation and develop plans to deal with the projected demand for them. It also sets forth detailed standards for expedited siting of destination resorts.

To satisfy park and recreational needs and demands, with input from residents, City employees and other stakeholders, the City will need to implement the following:

City Goal

1. To provide for park facilities and open space.

Objectives

1. Open space, parks, and active and passive recreation are readily available to citizens and visitors.

Policies

- 1. Subdivisions and planned developments shall, where appropriate, make provisions for a suitable amount of open space or park and recreation facilities.
- 2. The involvement of local individuals and groups in the donation of land, labor, funds or equipment for the improvements of recreation facilities is encouraged.
- 3. Improved public access to the river and bay is encouraged, provided that private property rights, public safety and the shoreline are not adversely affected.
- 4. Subdivisions or planned-unit developments are encouraged to provide public pedestrian access.
- 5. Remaining Publicly owned street ends which abut the shoreline shall be retained.
 - a. When appropriate, parks, or trails and public access, should be developed to facilitate public shoreline recreational use.
- 6. Development along year-round streams, the Nehalem River and Nehalem Bay are required to preserve natural stream bank vegetation or provide appropriate replanting.
- 7. The City and County will continue working with the State Department of Forestry to encourage strict enforcement of the Oregon Forest Practices Act to reduce erosion resulting from logging practices in the vicinity of the City's Watershed.
- 8. The City will coordinate its parks and recreation planning with appropriate local state and federal agencies and the private sector.

Recommendations

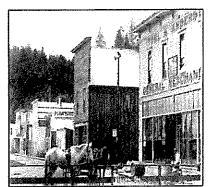
- 1. The City might consider the establishment of a park and recreation reserve fund to accumulate matching funds for state or federal programs.
- To reduce conflicts with bicycle and pedestrian use, the State Department of Transportation should continue to improve the Coastal Bike Route along Highway 101 by widening the Highway's shoulders, or where feasible, constructing separate bike lanes.

GOAL 9: ECONOMIC DEVELOPMENT

The City of Nehalem was the first center of culture, commerce and politics in the lower Nehalem River Valley. The Native Americans – the Nehalem People - occupied the region until the mid-1800's. The Nehalem people were reliant on fish trapping in estuaries, hunting, and shellfish gathering. They also devoted time and energy to the development of fine arts and crafts and to religious and social ceremonies.

In the Age of Discovery, in the late 16th century, Sir Francis Drake made a landing in Nehalem Bay. Nehalem Indian tales recount strangers and the discovery of items uncommon to the Pacific Coast. At that time, the Nehalem Tribe welcomed the arrival of Europeans, for the increased trading opportunities.

As time progressed, Nehalem became a commercial and social center with homesteaders who focused on dairies and other agricultural pursuits. Farmers used boats to bring milk to the cheese and butter factories.



When the City was chartered in 1899 by an Act of the State Legislature, it already had a post office, church, general store, school, sawmill and tavern. During the first ten years of the 20th Century it added a bank, high school, telephone exchange, fish cannery and hotel.

The new railroad across the river brought tourists and supplies from Portland and took local produce to distant markets. Boosters had asked the Army Corps of Engineers for jetties at the end of the Nehalem Bay since 1876. In

1909, local leaders formed the Port of Nehalem, then persuaded federal officials to pay half the cost of the construction of the two jetties.

With Nehalem's ideal location, coupled with the rapid development of nearby areas, the economy flourished. The city used to stretch over the river on log planks, where a lumber mill cut logs that came down a railroad track on the Nehalem River. Wood pilings that held up this track can be found in the North Fork Nehalem River.

In the 1920s, the community built a new elementary and high school. They convinced county officials to build a bridge and causeway across the Nehalem River to provide road access to the railroad. During that period of time, the automobile transformed the local economy.

A movie theater, dance hall and restaurant attracted the area's loggers, dairymen, fishermen and families from all of the surrounding hills and valleys. However, as the once-thriving logging industry slowed during the mid-twentieth century, the city's economy also cooled.

Prior to the dedication and construction of Highway 101, State officials saw the highway route through Wheeler and Nehalem as only temporary. The plan, at that time, for the highway was to move it along the Nehalem Spit, offering a longer view of Nehalem Bay and the Pacific Ocean. In the late 1960s the backlash from the two towns was so intense that officials decided to leave the highway in its existing layout.

In the 1990s, leadership from the City helped create a new Recreational District based in the old elementary school that had closed in 1986. Keeping Highway 101 as the City's "main street" and maintaining the community activities and services offered in the old elementary school preserved the City's place as the center of north Tillamook County.

As identified in the 2018 Visioning meetings, Nehalem wants to continue to 'Encourage Small Business & Craft Industry and Stability'.

City Vision

Nehalem has a strong four-season economy. Encouraging small businesses, vital goods and services, cottage industries, and home-based businesses to locate in Nehalem results in a vibrant year-round economy.

State Requirements for Goal 9, Economic Resources:

Goal 9 calls for diversification and improvement of the economy. It asks communities to inventory commercial and industrial lands, project future needs for such lands, and to plan and zone enough lands to meet those needs.

City Goal 1 for Economic Development

1. Improve the Economic Base of the Community

Objectives

1. Develop efforts to improve the economic base of the community and support local businesses and regional economic development organizations.

Policies

- 1. Support efforts to improve the economy of the area, including the maintenance of a viable agriculture industry.
- 2. Encourage commercial outdoor recreational opportunities that develop a sense of stewardship for the area.
- 3. Support the restoration economy that impacts infrastructure, clean water, and healthy fish and wildlife populations.
- 4. Actively participate in the region's key economic development activities and organizations.
- 5. Participate in and support regional economic development plans/programs.
- Seek the input of local businesses and carefully consider the economic impacts of proposed programs, regulations and decisions related to implementing the community's Comprehensive Plan.
- 7. Maintain active working relationships with key economic development players including Col-Pac, EDD, Nehalem Bay Merchants, Nehalem Bay Watershed Council, North Coast Recreation District, NW Oregon Economic Alliance, NW Oregon Regional Partnership, Port of Nehalem, Tillamook Estuaries Partnership (TEP); and attend partnership/stakeholder meetings as often as possible.

City Goal 2 for Economic Development

2. Encourage Successful Home-Based Businesses

Objective

1. It is the intent of the City to allow for home-based businesses.

Policies

1. Allow home-based businesses that are low impact and don't disrupt residential neighborhood character.

City Goal 3 for Economic Development

3. Retain, Strengthen and Expand the Existing Business Base.

Objective

1. To support and provide areas for the growth of a diversity of new and existing businesses.

Policies

- 1. Zoning for commercial uses should provide areas large enough to accommodate future growth requirements, but not so large as to substantially affect adjacent residential properties.
- 2. Encourage new and existing businesses and encourage family-wage jobs.

City Goal 4 for Economic Development

4. Strengthen and Enhance a Strong Commercial Core or Downtown Business District within Nehalem.

Objective

1. To support business development and improving the downtown environment.

- Maintain and enhance all public infrastructure to create a pleasant and convenient business environment (from signage and pocket parks to sidewalks and parking lots).
 - 2. Encourage small business and infill development in the core and not on the edges of the community.
 - 3. Promote upper story/high-density housing in the downtown.
 - 4. Protect historic resources such as downtown buildings to maintain local character and attract visitors.

GOAL 10: HOUSING

Nehalem's Current Supply of Housing

This chapter's information on current housing stock comes from the 2019 Nehalem Housing Needs Analysis.

Nehalem is a small community marked by a population of small households with incomes above the county average. The household size and composition show that households in Nehalem, at 2.1 persons per household, are smaller than Tillamook County's average household size and the statewide average. About 33% of these households in Nehalem have children. The median income of Nehalem residents is higher than the Tillamook County average but lower than the state average. In Nehalem housing prices are generally consistent with affordability for both rent-paying and mortgage paying households. This relatively prosperous situation creates stability and helps define directions for the future.

Trends in Nehalem's Housing Mix

- Nehalem's Housing stock is predominantly single-family detached housing;
- Nehalem's housing mix focuses on owner-occupied dwellings;
- Single-family detached and attached housing have accounted for the new housing growth in Nehalem between 2000 and 2017.

The housing types that Nehalem has a relatively low inventory of include:

- Apartment,
- Duplexes,
- Tri- and quad-plexes,
- Manufactured housing, and
- Smaller single-family detached and attached housing.

Nehalem's official forecast and projections for population growth show that the City will grow by 326 new residents over the next 20 years. This new population will result in a need for 162 new dwelling units over the 20-year planning period.

The mix of projected new housing needed include:

- About 80% will be single-family detached housing with 130 new detached single-family homes needed;
- Nearly 15% will be single-family attached housing with 24 additional townhouses needed;
- About 5% will be multi-family housing with 8 dwellings in multi-family structures needed.

After reviewing the city's existing land base and zoning, the City will be able to accommodate all needed residential growth based on the projected population increases and housing needs in the City's current urban growth boundary.

City Vision

Housing is available to meet the diverse needs of Nehalem citizens, and reflects the rural, coastal character of the community.

State Requirements for Goal 10, Housing:

This goal specifies that each city must plan for and accommodate needed housing types, such as multifamily and manufactured housing. It requires each city to inventory its buildable residential lands, project future needs for such lands, and plan and zone enough buildable land to meet those needs. It also prohibits local plans from discriminating against needed housing types.

City Goal for Housing

1. To provide for housing which will meet the needs of a variety of age and income groups.

Objectives

To support housing development that meets the needs of the City's residents.

- The City recognizes and supports identified future housing needs for a broad range of housing types, including single-family attached and detached homes, manufactured homes, duplexes and multi-family dwellings.
- 2. The City supports the efforts of the Oregon Housing Authority and the Northwest Oregon Housing Association and other mechanisms that help reduce the cost of or leverage other monies to provide affordable low and moderate income housing for area residents, and continues to provide opportunities for development of the housing needs identified in the Housing Needs Analysis.
- 3. The City supports the efficient development of housing and land to minimize environmental impacts and provide public services in a cost-effective manner.
- 4. The City recommends the use of sustainable development and building materials including the use of energy efficient materials and design principles.
- 5. The City will allow for and encourage and support the development of housing units in conjunction with commercial development (e.g., housing located above commercial uses) with mixed use buildings to provide diversity and security in commercial areas and a range of housing options.
- The City will ensure compliance with federal and state fair housing laws which affirm access to housing opportunities for all people in Nehalem.
- 7. The City may allow for accessory dwelling units (ADU's) in certain residential zones.
- 8. The City's inventory of buildable land and the City's housing needs analysis should be regularly updated as needed and used to both identify housing development opportunities and assess the ability to meet future housing needs.
- 9. The Housing Needs Analysis shall be adopted as part of the Comprehensive Plan.

GOAL 11: PUBLIC FACILITIES AND SERVICES

A full range of urban services are provided within the City of Nehalem. These services include water, sanitary sewer, storm sewer, solid waste collection, fire protection, and police protection. This section summarizes those services and lists the city's objectives, policies and implementing procedures for maintaining and improving them.

City Vision

Nehalem's infrastructure of water, storm drains, streets and parks is developed to good standards for a rural community, well-maintained and renewed as needed from well-funded and well-managed reserve funds.

Nehalem Bay Wastewater provides sewer for Nehalem and is a separate Taxing District.

State Requirements for Goal 11, Public Utilities and Services:

Goal 11 calls for efficient planning of public services such as sewers, water, law enforcement, and fire protection. The goal's central concept is that public services should be planned in accordance with a community's needs and capacities rather than be forced to respond to development as it occurs.

City Goal

1. Continue to plan and develop orderly and efficient system of public facilities and services.

Objectives

The City should maintain an adequate, orderly and efficient system of public facilities that supports the land uses and densities and necessary extensions throughout the city.

- 1. Land uses and densities in the Urban Growth Boundary area shall be consistent with the capacity of existing public facilities or the long-range expansion plans for key public facilities, such as sanitary sewers and water.
- 2. Public facilities and services shall be extended in an orderly and efficient manner.
- 3. The cost of public services or facilities shall be distributed equitably among those residents or land developments creating a need for such services.
- 4. Adequate storm drainage facilities shall be part of all subdivisions, planned-unit developments or other developments which may impact storm drainage patterns.
 - a. Developers shall also make adequate provisions for handling the storm water that leaves their site.
- 5. The policies of the Nehalem Bay Wastewater Agency shall apply to sewer installations in their Urban Service Area.
- 6. The City of Nehalem has adopted a system development charge capable of maintaining and improving the water since 2010.
 - a. Review and update system development charges on a regular basis to keep pace with costs.
- Large developments or heavy water users should make equitable contributions to the improvement of the water system and shall pay all costs associated with the extension of water lines.

- 8. Water lines within a proposed development shall be adequately sized to meet future needs at the projected density or usage, including fire flow requirements.
- 9. Fire hydrants shall be installed by developers to the satisfaction of the City of Nehalem and the Nehalem Bay Fire & Rescue District.
- 10. The City of Nehalem cooperates with Tillamook County in establishing a solid waste program for Tillamook County that meets the Department of Environmental Quality's standards.
- 11. The City of Nehalem will continue to provide water service to areas and developments outside its Urban Growth Boundary, consistent with its ability to provide such service.
- a. The density of new developments for which water service is provided shall be at rural density to be established by the City of Nehalem.
- 12. School District #56 should coordinate its facility planning activities with the City of Nehalem.

GOAL 12: TRANSPORTATION

Streets, roads, and highways have profound effects on land use. Many forms of development, for example, need to be easy to find, readily seen from a car, and convenient to reach by foot or automobile. A fundamental relationship in planning is land use affecting streets, and streets affecting land use. That relationship is a subject of importance in this chapter of the Comprehensive Plan. The City has addressed that subject by adopting the Nehalem Downtown Transportation Plan.

The three cities of Nehalem, Manzanita and Wheeler may work together to develop a regional transportation system plan (TSP).

The Plan's goals are:

- Improve mobility, safety and accessibility for all travel modes
- > Improve pedestrian and bicycle circulation and facilities
- Provide for improvements that can be implemented and comply with applicable standards

Weather Said

Beyond Nehalem's limits lie the Salmonberry Trail to the east and the Oregon Coast Trail to the west. The Tillamook County Water Trail lies along the Nehalem River. Nehalem has the opportunity to become the 'connecting hub' between the Oregon Coast Trail and Salmonberry Trail. Nehalem has the potential to provide the linkage between these trails.

City Vision

Nehalem's infrastructure of water, sewer, storm drains, streets and parks is developed to good standards for a rural community, well-maintained and renewed as needed from well-funded and well-managed reserved funds.

State Requirements for Goal 12, Transportation:

The goal aims to provide "a safe, convenient, and economic transportation system." It asks for communities to address the needs of the "transportation disadvantaged."

City Goal

1. To provide and encourage a safe, convenient and economic transportation system.

Objectives

The City shall support a safe, convenient, accessible and economic transportation system for all modes of transportation.

<u>Policies</u>

- 1. Street patterns shall minimize the need for cutting and filling.
- 2. The City may permit narrower street widths in steep slope areas consistent with traffic safety and emergency vehicle access.
- 3. The City shall accept private streets as public streets only after they have been improved to City standards.
- 4. The City, County, and the State Department of Transportation shall discourage new access points onto Highway 101.

- a. Wherever possible, new residential development shall not have a direct access to Highway 101.
- b. New commercial and multi-family uses should be clustered with access being provided by a consolidated access point, preferably not directly onto Highway 101.
- 5. Alternative uses of City rights-of-way should be considered where they are not needed as streets.
 - a. These uses may include trails, small parks or natural areas.
- 6. The City shall be notified prior to the installation of any underground utility in a City right- of-way.
 - a. The City will require reasonable efforts to improve or restore the road after construction.
- 7. The City supports efforts such as bus service, to provide transportation for people with limited transportation opportunity, and supports the Tillamook County Transit District to maintain bus stops and shelters as described in the Downtown Transportation Plan.
- 8. The City will work to incorporate (as resources allow) streetscape elements for pedestrian and bicycle friendly street design as illustrated in the Downtown Transportation Plan.
- 9. The City will encourage (as resources allow) an interpretive trail that provides access to the wetlands and river.
- 10. Street design standards are contained within the City's Subdivision Ordinance.
- 11. The City will work with ODOT to improve the design and safety of the U.S. 101/7th Street intersection.
- 12. The City will work with ODOT to provide pedestrian safety improvements and traffic calming measures and safe routes to school and encourage all types of transportation that limit greenhouse gas emissions.
- 13. The City recognizes the importance of and encourages a link between the Oregon Coast Trail and the Salmonberry Trail, and the Tillamook County Water Trail.

GOAL 13: ENERGY CONSERVATION

Protecting the environment, livability, and natural beauty of Nehalem is an important piece of the City's Comprehensive Plan. Therefore, encouragement of energy conservation and use of alternative sources of energy in the long-term planning for development is important.

State Requirements for Goal 13, Energy Conservation:

Goal 13 declared that "land and uses developed on the land shall be managed and controlled so as to maximize the conservation of all forms of energy, based upon sound economic principles."

City Goal

1. To conserve energy.

Objective

The City supports and will encourage efforts of energy conservation.

- 1. The City will encourage the use of domestic energy conservation efforts as applicable.
- 2. The City will encourage energy conservation in building construction.
- 3. The City supports the efforts of organizations, such as the Area Agency on Aging, to weatherize and insulate homes of low-income persons, particularly the elderly.

GOAL 14: URBANIZATION URBAN GROWTH BOUNDARY AND URBAN GROWTH AREA

City Limits

The City Limits is the boundary line that defines the City of Nehalem proper. Within these limits the properties receive all City services (water, sewer, police). The City Limits can be expanded through the process of annexations of land within the Urban Growth Boundary.

City Urban Growth Boundary and Urban Growth Area

The Urban Growth Boundary (also known as the UGB) is the boundary line beyond the City Limits that indicates the outermost limit of the City of Nehalem's planned expansion. The boundary is designed to indicate the planned extent of Nehalem's growth over a period of time. The Urban Growth Area (also known as the UGA) includes the land that is inside the UGB but outside the City Limits. It is the area for future urban development and growth, served by urban services.

In both the City Limits and the Urban Growth Area, a majority of the land is zoned for residential uses. About ¼ of the land is zoned for commercial uses, and even smaller proportions are zoned for industrial, public and open space. A portion of this area is used for the streets and rights-of-ways with the City Limits and Urban Growth Boundary.

The area within the Nehalem Urban Growth Boundary is committed to urban development. The Nehalem Bay Wastewater Agency has the ability to expand its system to meet the anticipated growth within Nehalem. The Urban Growth Boundary generally coincides with the boundary of the Nehalem Bay Wastewater Agency. However, several small areas are included in the Urban Growth Boundary are outside the Wastewater Agency's boundary.

The following are distinct areas in the City's Urban Growth Area, outside the City Limits.

A. Bayside Gardens

This area contains 192 parcels of which 171 are in separate ownerships, with almost all the parcels less than 5 acres in size. The area is committed to urban development because of the nature of existing development and parcel sizes and is served by sewer and water. It is directly abutted on the west by the Urban Growth Boundary of the City of Manzanita.

Alder Creek Farm owned by The Lower Nehalem Community Trust, will require buffering to separate urban uses from agricultural uses and provide an enhanced degree of compatibility with the agricultural activity on the Lower Nehalem Community Trust property.

B. Nehalem Point

The northern portion of Nehalem Point abuts a major Wastewater Agency trunk line. It is an isolated parcel with no other forest production lands adjacent to it. The City requires that any development on Nehalem Point be a Planned-Unit Development that is designed to maintain the visual character of the Point.

C. North Fork Nehalem River

This property is surrounded by County zoned farmland.

State Requirements for Goal 14, Urbanization:

This goal requires cities to estimate future growth and needs for land and then plan and zone enough land to meet those needs. It calls for each city to establish an "urban growth boundary" (UGB) to "identify and separate urban land from rural land." It specifies seven factors that must be considered in drawing up a UGB. It also lists four criteria to be applied when undeveloped land within a UGB is to be converted to urban uses.

City Goal

1. Coordinate land-use, development and annexation strategies with Tillamook County.

- The lands within the Nehalem Urban Growth Area, but outside the Nehalem City Limits, are within the jurisdiction of Tillamook County. However, the City of Nehalem's Comprehensive Plan, Zoning Ordinance and Subdivision Ordinance must be followed by the County.
 - a. It shall be the responsibility of the agency or jurisdiction initiating the action to notify and involve the other jurisdictions conforming to the City of Nehalem's Subdivision Ordinance.
- 2. The extension of water service shall be consistent with the City's Master Water Plan.
- 3. Changes in the Urban Growth Boundary shall be carried out with the knowledge and participation of Tillamook County, Nehalem Bay Wastewater Agency, State of Oregon and affected property owners.
 - a. Changes in the Urban Growth Boundary shall be based on adequate findings of fact and in full compliance of all state laws and procedures.
- 4. Undeveloped land within the Urban Growth Boundary shall be converted to urban purposes only where a finding is made by the City that there exists:
 - a. Orderly and economic extension of public facilities and services,
 - b. A need for land for various uses, and
 - c. Encouragement of development within urban areas before conversion of undeveloped areas,
 - d. Compatibility with State Goals and the City's acknowledged Comprehensive Plan.
- 5. Annexations within the Urban Growth Boundary and development of land in the City and within the Boundary shall be based on findings of fact which state that:
 - a. The annexation or development represents an orderly, logical extension of public services; and
 - b. Development is encouraged within or adjacent to urban areas prior to development of more remote land.
- The remainder of the Urban Growth Area abutting the north and west sides of the Lower Nehalem Community Trust, will require buffering to separate urban from agricultural uses.
- 7. Continued development on Nehalem Point will be a Planned-Unit Development that is designed to maintain the visual character of the Point.

GOAL 15: WILLAMETTE RIVER GREENWAY

State Requirements for Goal 15, Willamette River Greenway:

Oregon Statewide Planning Goal 15 does not apply within the Urban Growth Boundary since Nehalem is not adjacent to the Greenway within its boundaries.

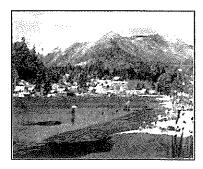
The City supports efforts to implement policies consistent with Oregon Statewide Planning Goal 15.

GOAL 16: ESTUARINE RESOURCES

Nehalem is surrounded by active and passive recreational areas and natural resources that include wetlands, estuaries, flood plains, agricultural lands, and forestlands on the surrounding hillsides. The Nehalem Bay area also has a rich and diverse estuarine environment and its protection is prioritized. This rich geographic setting of natural resources surrounds the urbanized area of the City.

For some of these areas, possible effects of climate change, are sea level rise along with increasing extreme storms. These forces can be a detriment to estuarine resources.

Tillamook County, in co-operation with Nehalem, Wheeler, the Port of Nehalem and state and federal agencies, has prepared and adopted a management plan for the Nehalem River Estuary as part of the Tillamook County Comprehensive Plan. Nehalem adopted the Tillamook County Estuary Management Plan and Policies as they apply to estuary management units and zones within the City of Nehalem's City Limits and Urban Growth Boundary.



State Requirements for Goal 16, Estuarine Resources:

This goal requires local governments to classify Oregon's 22 major estuaries into four categories: natural, conservation, shallow-draft development, and deep-draft development. It then describes types of land uses and activities that are permissible in those "management units".

Nehalem City Goal

To conserve, protect the unique environmental, economic and social values of local estuarine resources, where appropriate, recognizing their value for the protection and maintenance of water quality, fish and wildlife habitat, and water dependent uses.

Objective

To recognize, protect, and maintain, the unique environmental, economic and social values of the designated estuaries.

- 1. Within the "EC-1" Zone and management unit, the City of Nehalem, individual site-specific determinations as to existing non-estuarine portions of that zone which may be developed in accordance with the regulations of the "MR" Zone north of "B" Street and the "C" Zone south of "B" Street.
- The City recommends that State and federal agencies should use their management authority to improve water quality and reduce man-induced sedimentation in estuaries.
- 3. The City intends to work with Tillamook County and other partners to preserve estuarine and shoreline migration zones.
- 4. The City intends to adhere to Statewide Planning Goal 16 and all applicable buffers that manage development within those areas.

GOAL 17: COASTAL SHORELANDS

The State Coastal Shorelands goal manages the resources and benefits of all coastal shorelands. It recognizes the protection and maintenance of water quality, fish and wildlife habitat, water-dependent uses, economic resources, recreation and aesthetics.

The management of these shoreland areas must remain compatible with the characteristics of the adjacent coastal waters and reduce the hazard to human life, property. And carefully manage the adverse effects upon water quality, fish and wildlife habitat, resulting from the use and enjoyment of these coastal shorelands. It also specifies how certain types of land and resources in the shorelands are to be managed.

The City is aware that climate change may affect the community, and the surrounding shorelands

Nehalem is surrounded by natural resources that include wetlands, estuaries and tidal marshes with a rich and diverse estuarine environment in the Nehalem Bay area that is protected. The North Waterfront area, located along the Nehalem River between C Street and H Street, is an important estuary and shoreland. The Area provides access to the Nehalem River and Bay.

State Requirements for Goal 17, Coastal Shorelands:

Land use plans, implementing actions and permit reviews in the Coastal Shoreland Area shall include consideration of the critical relationships between coastal shorelands and resources of coastal waters, and of the geologic and hydrologic hazards associated with coastal shorelands. Local, state and federal agencies shall within the limit of their authorities maintain the diverse environmental, economic, and social values of coastal shorelands and water quality in coastal waters. Within those limits, they shall also minimize man-induced sedimentation in estuaries, near shore ocean waters, and coastal lakes.

Nehalem City Goal

The City of Nehalem recognizes the interdependence of shoreland and estuarine uses.

Objective

To protect shorelands and estuarine uses.

- 1. Areas identified by the U.S. Army Corps of Engineers (ACOE) Dredge Material Management and Disposal Plan for Nehalem Bay shall be protected from uses or activities which would prevent their ultimate use for dredge material disposal, through coordination with ACOE.
- 2. Areas identified to fulfill the mitigation requirement of the Estuarine Resources Goal shall be protected from uses and activities which would prevent their ultimate restoration or addition to the estuary as stated in the Nehalem Zoning Ordinance.
- 3. The City recognizes there may be impacts on the shorelands that are a result of climate change and will adhere to the Goal 17 buffers in addition to preserving where possible, landward migration zones.

GOAL 18: BEACHES AND DUNES

State Requirements for Goal 18, Beaches and Dunes:

Oregon Statewide Planning Goal 18 identifies planning standards for development on various types of dunes and therefore does not apply within the Urban Growth Boundary since Nehalem is not adjacent to the Beaches and Dunes within its boundaries.

The City supports efforts to implement policies consistent with Oregon Statewide Planning Goal 18.

GOAL 19: OCEAN RESOURCES

State Requirements for Goal 19, Ocean Resources:

Oregon Statewide Planning Goal 19 deals with matters such as dumping of dredge spoils and discharging of waste products into the open sea, with its main requirements for state agencies rather than cities, and therefore does not apply within the Urban Growth Boundary since Nehalem is not adjacent to the Ocean Resources within its boundaries.

The City supports efforts to implement policies consistent with Oregon Statewide Planning Goal 19, "to conserve the long-term values, benefits, and natural resources of the near shore ocean and the continental shelf."

Article III Plan Implementation.

<u>Implementation</u>

The Comprehensive Plan revision is only an initial step in implementing a planning process in Nehalem. Specific actions must be undertaken to realize the plan. The Comprehensive Plan sets forth goals, policies, proposals and recommendations to guide the physical development of the community. This section describes ways in which the Comprehensive Plan may be implemented.

The means by which community plans are implemented are many and varied.

Advice and consultation on the part of the Planning Commission, City staff and other City officials can be a very effective tool of implementation. In the course of conducting day-to-day business, individuals can be made aware of the importance of the comprehensive plan and a number of alternatives presented to guide development.

The city implements the Comprehensive Plan through regulatory controls such as zoning and subdivision ordinances, through the timely placement of public facilities and establishment of public programs.

Regulatory Controls

Zoning:

Zoning is the cornerstone of the effectiveness of the Comprehensive Plan. It implements the land use part of the Comprehensive Plan. Zoning divides the community into residential, commercial, industrial and other use types in conformance with the Comprehensive Plan. Those zones are shown on the City Comprehensive Plan and Zoning Map.

State laws and some Oregon Supreme Court decisions have given better definition to the role of zoning and comprehensive plans. Oregon Law (ORS Chapter 197) not only requires cities and counties to adopt comprehensive plans, it also requires that their zoning ordinance conform to the comprehensive plan. This requirement is further amplified by the "Baker vs. City of Milwaukie" court decision. In this decision, the court ruled that in the event of a conflict between a City's zoning ordinance and comprehensive plan, the comprehensive plan shall be the guiding document. Therefore, when the City has adopted its comprehensive plan it must provide, within a reasonable time, amendments to its zoning ordinance to conform to the comprehensive plan. Furthermore, another court decision, "Fasano vs. Washington County", has ruled among other things that all zone changes must conform to the comprehensive plan. Thus, once the City has amended its zoning ordinance to conform to the adopted City Comprehensive Plan, any subsequent zone change in non-conformity with the Comprehensive Plan Map must first be preceded by a change to the City Comprehensive Plan. Changes to the City Comprehensive Plan should be based on special studies or other factual information, which establish public need and justify the particular change.

The City Zoning Ordinance establishes uniform regulations within each zone as to use, maximum building height, lot size, setbacks and other similar requirements. The Zoning Ordinance also establishes the criteria and requirements for the City's overlay districts, site and general development, partitioning, signs, off-street parking and loading, conditional uses, special uses, non-conforming uses, and variances to the criteria.

Subdivision Ordinance and Streets Standards:

The subdivision ordinance provides standards for the development of vacant land. It establishes minimum standards for street, block and lot size and lists improvements to be provided by the land developer. It enables the City to insure the provision of adequate rights-of-way, street improvements and water facilities. Close coordination between the City and Tillamook County is necessary to ensure the extension of logical street and utility systems when subdivision occurs outside city limits.

Building Codes:

The Building codes are managed at the County level. Building construction codes establish minimum standards for new buildings, additions, rehabilitation and changes of use. These codes include fire and life safety, plumbing, mechanical, and electrical and are extensions of national or state uniform standards. These codes help to ensure the safety and welfare of the public, but have little effect in preventing or reversing blight in built-up older neighborhoods.

Article IV City of Nehalem Community Growth Management Report

Urban Growth Management and Urban Service Area Policies and Implementation Guidelines
The unincorporated land within the Urban Growth Boundary requires a coordinated set of
policies between the City and the County. These policies relate to zone management and
urbanization.

Article V City of Nehalem Buildable Lands Inventory and Housing Needs Analysis

Buildable Lands Inventory Adoption.

The 2017 Buildable Lands Inventory is adopted and made a part of Article V, hereto.

Housing Needs Analysis Adoption.

The 2019 Housing Needs Analysis is adopted and made a part of Article V, hereto.

In compliance with state land-use law, the City will update this inventory of buildable land and housing needs every Twenty Years and use it to both identify housing development opportunities and assess the ability to meet future housing needs within the City's Urban Growth Boundary.

<u>Summary and Conclusion of the Buildable Lands Inventory Report and Housing Needs</u> Analysis

In summary of the 2017 Buildable Lands Inventory Report and the 2019 Housing Needs Analysis, the forecast population and the household size for Nehalem has been identified to reflect the number of households needed to accommodate growth over the next 20 years.

The forecast in the 2017 Report shows projected growth for the Nehalem UGB of 326 new residents, from a current population of 1,240 to a forecast population of 1,566. Using the average household size of 2.1 (based on Figure 14 in the 2017 Report), the 326 new residents will require 162 new housing units.

There is a total of 261 total buildable lots in the UGB. Those 261 buildable lots exceed the required 162 buildable lots needed, meaning that there is enough land for residential development over the next 18 years. There may be enough land within the Nehalem Urban Growth Boundary (UGB) to accommodate 20 years of residential growth.

The goals, policies and strategies contained within the 2017 Buildable Lands Inventory, as adopted, shall replace any other goals, policies and strategies adopted in the past Buildable Lands Inventory.

In summary of 2019 Housing Needs Analysis, the household size and composition show that the household size in Nehalem, at 2.1 persons per household, is smaller than Tillamook County's average household size and the statewide average.

Nehalem's current housing stock is predominantly single-family detached housing, with a relatively low inventory of apartment, duplexes, tri- and quad-plexes, manufactured housing, and smaller single-family detached and attached housing.

Nehalem's official forecast and projections for population growth show that the City will grow by 326 new residents over the next 20 years. This new population will result in a need for 162 new dwelling units over the 20-year planning period.

New housing needed in Nehalem include:

- 130 new detached single-family homes needed;
- 24 additional townhouses needed; and
- 8 dwellings in multi-family structures needed.

After reviewing the city's existing land base and zoning, the City will be able to accommodate all needed residential growth based on the projected population increases and housing needs.

The goals, policies and strategies contained within the 2019 Housing Needs Analysis, as adopted, shall replace the goals, policies and strategies relating to Housing Needs.

EXHIBIT E

of the subdivision.

	Subdivision of Land Q ② 💆 🔲				
156. Initi	015 al submission.	Q	Q	Ę,	
shall be the City division	vies of a tentative plan consistent with §§ 156.018 through submitted to the City Manager/Recorder at least 30 days. Planning Commission or formal declaration of applicability process; together with a fee in the amount as listed in the le of fees, charges and monetary penalties. (Ord. 80-3, passe	prior t y of e city's	to the xpedi	e meeti ited lar t up-to	ng of id
156. Preli	016 minary review.	Q,	0	, M Company	
Manage	on receipt of a completed application accompanied with fi er/ Recorder shall transmit copies of the tentative plan to t ssion, City Council and other agencies such as the county a	he Cit	y Plar	ning	
	The City Manager/Recorder shall prepare a report on the City Planning Commission.	plan	for su	ıbmiss	ion to
(2)	The report shall include:				
	(a) Information on the Comprehensive Plan;				
	(b) Comprehensive Plan background report;				
	(c) Zoning;				
	(d) Adjoining streets and property;				
	(e) Existing sewers, water mains, culverts, electric conducommunity facilities in addition to features of the propose				
	(f) Any other data pertinent to the review of the plan.				
	e City Manager/Recorder shall provide adequate public not	ice of	at le	ast ten	days

(2) In addition, at least ten days in advance of a public hearing a notice of the public hearing shall be published in a newspaper of general circulation within the affected area.

(1) Individual notices shall be mailed to all owners of parcels of land within 250 feet

- (D) In the event of a request for an expedited land division, the City Manager/Recorder of his or her designate shall review the application by the following criteria:
 - (1) Be within the urban growth boundary;
 - (2) Be used solely for residential purposes; including recreational or open space used accessory to residential uses;
 - (3) Not allow dwellings or accessory buildings to be located on land that is specially mapped and designated in the Comprehensive Plan and land use regulations for hill or partial protection of open spaces, scenic and historic areas and natural resources; or the Willamette River greenway, coastal shorelands or beaches and dunes; and
 - (4) Satisfy minimum street or other right-of-way standards established by the acknowledged land use plan or, if such standards are not contained in the applicable regulations, as required by the statewide planning goals; and propose development at a density equal to at least 80% of the maximum density permitted by the zoning designation of the site, if the proposal will create four or more parcels. (This density requirement does not apply to proposals that will create three or fewer parcels.) (Ord. 80-3, passed 04/12/2004)

156.017

Information in the tentative plan.

Q @ Z D

The tentative plan shall contain the following information:

- (A) Proposed name, date, north-point and scale of drawing;
- (B) Tentative plans shall be to a scale of one inch equals 50 feet or better, except tracts over ten acres which may be to a scale of one inch equals 100 feet and shall be clearly and legibly produced;
- (C) Location of the subdivision sufficient to define its location and boundaries, and a legal description as well;
- (D) Name and address of the owner and/or authorized agent;
- (E) Appropriate identification of the drawing as a tentative plan;
- (F) Names, business address and number of the registered engineer and licensed surveyor who prepared the plan of the proposed subdivision;
- (G) Location of natural features; such as streams, trees and rock outcroppings;
- (H) Contour lines at 20-foot contour intervals;
- (I) The locations, names, widths, approximate radii of the curves and grades of all existing and proposed streets and easements in the proposed subdivision and along the boundaries thereof, and the names of adjoining platted subdivisions and portions of the subdivisions as shall be necessary to show the alignment of the streets and alleys therein with the streets and alleys in the proposed subdivision;
- (J) Names of the record owners of all contiguous land;
- (K) The approximate location and character of all existing and proposed easements and public utility facilities including water and sewer lines in the subdivision or adjacent thereto, storm water drainage facilities and utility lines;
- (L) The location and approximate dimensions of each lot, with each lot numbered;
- (M) The outline of any existing buildings and their use showing those that will remain;
- (N) The location of at least one temporary benchmark within the subdivision boundaries;

(O) City boundary lines crossing or bounding the subdivision;							
(P) Approximate location of all areas subject to inundation of storm water overflow and location, width, known high water elevation, flood flow and direction of flow of watercourses;							
(Q) If impracticable to show on the tentative plan, a key map showing the location of the tract in relationship to section and township lines and to adjacent property and major physical features such as streets, railroads and watercourses; and							
(R) The net density of the subdivision, the total acreage of land, square footage of each lot and square footage of open areas or common open space. (Ord. 80-3, passed 04/12/2004)							
156.018 Q 💆 🗖 Partial development.							
If the subdivision proposal pertains to only part of the tract owned or controlled by the subdivider, the Planning Commission may require a sketch of a tentative layout for streets in the unsubdivided portion. (Ord. 80-3, passed 04/12/2004)							
156.019 Q 💆 🛄 Information in statement.							
(A) A general explanation of the improvements and public utilities, including water supply and sewage disposal proposed to be installed;							
(B) Requested variances;							
(C) Public areas proposed;							
(D) Open space, landscaped areas, tree planting proposed and means of maintaining such improvements;							
(E) A preliminary draft of restrictive covenants proposed, if any; and							
(F) Information showing areas to be cut or filled. (Ord. 80-3, passed 04/12/2004)							
156.020 Q 🗷 💆 🔲 Supplemental information.							
Any of the following may be required by the Planning Commission to supplement the plan of subdivision:							
(A) Approximate centerline profiles with extensions for a reasonable distance beyond the limits of the proposed subdivision showing the finished grade of streets and the nature and extent of street construction;							
(B) A plan for domestic water service lines and related water service facilities;							
C) Approval for sewage disposal, storm water drainage or flood control;							
(D) Proposals for other improvements such as electric utilities and sidewalks, fire hydrants and street lights;							
(E) An engineering geologist or soils engineering report of the stability of slopes when the average slope of created parcels is 20% or greater; and							

(F) Other information as necessary. (Ord. 80-3, passed 04/12/2004)				
156.021 Preliminary city staff/planning commission determin	-	② on.	A	
(A) The city staff shall determine whether the tentative plan, undedivision process, is in conformity with the provisions of the Compreschapter. In the event of a quasi-judicial process application, the City shall determine whether the tentative plan is in conformity with the Comprehensive Plan and this chapter.	hens Plan	ive P ining	lan an Comn	d this nission
(B) The Planning Commission may approve the tentative plan as s be modified. If the Planning Commission does not approve the plan reasons for denial.				
(C) The action of the Planning Commission shall be noted on two plan, including any conditions attached thereto. The Planning Com copy and the other returned to the subdivider.				
(D) An appeal to the City Council of a Planning Commission decisi consistent with § 156.028 of this chapter. (Ord. 80-3, passed 04/12/200		ay be	e made	!
156.022 Submission of final plat.	Q	Q	Ä	
(A) Within one year after approval of the tentative plan, the subdidivider shall cause the proposed subdivision, or any part thereof, to plat thereof prepared in conformance with the tentative plan as ap approved; unless an extension is requested in writing and granted Commission. A request for extension must be submitted prior to the year.	o be s prove by th	surve ed or e Pla	yed ar condit inning	id a cionally
(B) An original reproducible drawing and five blue-line or black-lin shall be submitted to the City Manager/Recorder. (Ord. 80-3, passed				lat
156.023 Information in the final plat.	Q	ල	,A	
The final plat, in addition to other information required by O.R.S. Cl following:	n. <u>92</u> ,	shal	l show	the
(A) The date, scale, north-point (generally pointing up), legend an	d top	ogra	phy:	
(B) Reference points of existing surveys identified, related to the pearings and referenced to a field book or map as follows:	olat b	y dis	tances	and
(1) All stakes, monuments or other evidence found on the groestablish the initial point of the subdivision boundary and to oboundaries of the subdivision;				
(2) Adjoining corners of all adjoining subdivisions;				
(3) Whenever there has been established or adopted a syster into this system but in the absence of such a system, township donation land claim lines within or adjacent to the plat;				

(4) Whenever the city has established the centerline of a street adjacent to or within

the proposed subdivision, the location of this line and monuments found or reset; and

- (5) All other monuments found or established in making the survey of the subdivision or required to be installed by the provisions of this chapter.
- (C) Tract boundary lines, right-of-way lines and centerlines of streets; and lot and block lines with dimensions, bearings or deflection angles and radii, arcs, points of curvature and tangent bearings.
 - (1) Tract boundary and street bearings shall be shown to the nearest ten seconds with basis of bearings.
 - (2) All distances shall be shown to the nearest one-hundredths of a foot.
 - (3) Error of closure shall be within the limit of one foot in 10,000 feet.
- (D) The location of additional monuments that are to be set upon completion of improvements;
- (E) The centerlines and sidelines of all streets, the width of the portion being dedicated, the width of existing rights-of-way and widths each side of the centerline.
 - (1) For streets on curvature, all curve data shall be based on the street centerline indicating thereon the radius and central angle.
 - (2) Block corner curb data is to be shown separately.
- (F) All easements are to be clearly labeled and identified and, if already of record, the recorded reference.
 - (1) If any easement is not definitely located of record, a statement of the easement.
 - (2) Easements shall be denoted by fine dotted lines.
 - (3) The widths of the easements and the lengths and bearings of the lines thereof, and sufficient ties thereto, to definitely locate the easement with respect to the subdivision must be shown.
 - (4) If the map is dedicating the easement, it shall be properly referenced in the owner's certification of dedication.
- (G) Lot numbers beginning with the number "1" in each block and numbered consecutively in a clockwise direction, unless in conflict with adjoining subdivisions;
- (H) Block numbers beginning with the number "1" and continuing consecutively without omission or duplication throughout the subdivision.
 - (1) The numbers shall be solid and of sufficient size and thickness to stand out and shall be so placed as to not obliterate any figure.
 - (2) Block numbers in an addition to a subdivision of the same name shall be a continuation of the numbering in the original subdivision.
- (I) Appropriate words, symbols or legends distinguishing lots intended for sale from land parcels dedicated for any purpose, public or private; with all dimensions, boundaries and courses clearly shown and defined in every case;
- (J) A certificate signed and acknowledged by all parties having any record title interest in the land subdivided, consenting to the preparation and recordation of the plat;
- (K) A certificate signed and acknowledged by the engineer or surveyor responsible for the survey and plat. The signature of such engineer or surveyor is to be accompanied by his or her seal; and

156.024 Information in statement.		Q 0	, A	
At the time of the submission of the fin- following:	al plat, the subdivider shall	also sub	mit the	
 (A) A preliminary title report issued by of the owner of the land showing all part in the premises; 	•			
(B) Sheets and drawings showing the	following:			
 Traverse data indicating the co ties to section corners, donation lan and showing the error of closure, if 	nd claim corners, if any, or			
(2) The computation of all distanc	es, angles and courses sho	wn on th	e final p	lat;
(3) Ties to existing monuments, processed corners and state highway stationing	•	cent subo	divisions	, street
(4) Coordinates of all block corner	s and all street center poin	ıts.		
(C) A copy of any deed restrictions app	olicable to the subdivision;	and		
(D) A list of all taxes and assessments (Ord. 80-3, passed 04/12/2004)	on the tract that have beco	ome a lier	on the	tract.
156.025 Technical review.	tyk likkytyt sakst hal astalan sakstan kan katalan sakstan sakstan sakstan sakstan sakstan sakstan sakstan sak	۹ و) 2	0
(A) Upon receipt of the final plat and a shall review the plat and documents to tentative plan and that there has been chapter.	determine that it conforms	to the p	roposed	
(B) An engineer or surveyor may exam accuracy and completeness and shall co	· · · · · · · · · · · · · · · · · · ·			
(1) He or she may make checks in correct on the ground, and he or sh				y
(2) If he or she determines that th advise the subdivider of the change subdivider an opportunity to make	es or additions that must be	e made a		
(C) If the engineer determines that ful certify and transmit the plat to the Plan				
156.026 Final approval of city planning	commission.	Q (3) A	0

(L) An additional certificates or information required by O.R.S. Ch. 92. (Ord. 80-3, passed

04/12/2004)

(A) The City Planning Commission under quasi-judicial review, or the city staff under expedited land division, shall examine the plat to determine whether it conforms with the tentative plan and with all changes permitted and all requirements imposed as a condition of its acceptance.						
(1) If the Planning Commission or the city staff does not approve the plat, they shall advise the subdivider of the changes or additions that must be made for this purpose and shall afford him or her the opportunity to make the same.						
(2) (a) If the Planning Commission or the city staff determines that the plat conforms to all requirements, it shall approve the same; but before certifying its approval thereon, it shall require the subdivider to file the agreement and bond or make the deposit required herein.						
(b) When the agreement and bond have been filed as approved and prescribed, the City Planning Commission or city staff approval shall be endorsed upon the plat by execution of the appropriate certificate as prescribed by law.						
(B) The approval of the plat does not constitute or effect an acceptance by the public of the dedication of any street or other easement shown on the plat. (Ord. 80-3, passed 04/12/2004)						
156.027 Q ② 基 [] Filing of final plat.						
(A) A subdivider shall, without delay, submit the plat for signatures of other public officials required by law.						
(B) Approval of the plat shall be null and void if the plat is not recorded within 90 days after the date that the last required approving signature has been obtained. (Ord. 80-3, passed 04/12/2004)						
156.028 Q 🗷 🗍 Appeal.						
(A) A person may appeal to the City Council a decision or requirement of the Planning Commission.						
(1) Written notice of the appeal must be filed with the city within ten days after the decision or requirement is made.						
(2) The notice of appeal shall state the nature of the decision or requirement and the grounds for the appeal.						
(B) The City Council shall hold a public hearing on the appeal within 40 days from the time the appeal is filed.						
(1) The city may continue the hearing for good cause.						
(2) The Council may uphold, modify or overrule the decision of by Planning Commission.						
(C) In the event of an appeal of an expedited land division decision, the city shall direct the hearings referee to review the application and report on the matter within 43 days. (Ord. 80-3, passed 04/12/2004)						

The Nehalem City Code is current through Ordinance 2021-01, passed January 11, 2021.

Disclaimer. The City Recorder's Office has the official version of the Nehalem City Code. Users should contact the City Recorder's Office for ordinances passed subsequent to the ordinance cited above.

City Website: www.nehalem.gov

Code Publishing Company

EXHIBIT F

	street frontage, whichever is less. (Ord. 80-2, passed	06/14/201	0)		
	7.273 parian vegetation, small streams.	Q	. Q		
	Riparian vegetation along small streams shall be prote e for all creeks.	cted by a	15-fc	ot ripa	arian
	Limited removal of vegetation may be made to provide er cases after review by the Planning Commission.	walkway	s or t	rails, c	or in
	Replacement of riparian vegetation may also be requirential mission. (Ord. 80-2, passed 06/14/2010)	ed by the	Plan	ning	
	57.274 uffers required adjacent to Exclusive Farm U	•	⊘) zor		
the deve	Where development is proposed on lands adjacent to E city shall require that a buffer of not less than 50 feet be elopment and the EFU boundary in order to protect the empatible uses or activities.	required	betv	veen ti	he
(B)	Such a buffer shall be in addition to any required setba	ck for str	uctur	es or u	uses.
	Buffers may include, if the Planning Commission requireds, fencing or other separation. (Ord. 80-2, passed 06/14/2		nainte	nance	of tree
	57.275 ccessory dwelling units.	Q	(2)	Ą	
und	ere permitted, an accessory dwelling unit may be sited o er-construction single-family home, shall conform to all uirements, and shall meet the following use and develop	building	code		ng or
dista	Location. The accessory dwelling unit, if freestanding, so rear yard and physically separated from the primary ance of six feet. A covered walkway which contains no his two buildings without violation of the setback requirements.	residenc abitable s	e by a	a minir	mum
(B)	Number. Only one accessory dwelling unit shall be perr	mitted pe	r lot (or parc	el.
	Design. All accessory dwelling units shall be set on a condition; have any wheels, tongues, and running gear releastic sewer and water. A separate address may be required.	moved; a	nd be	e conn	
exis: area	Area. The floor area of a detached accessory dwelling uting residence to add an accessory dwelling unit shall not of the primary residence or 800 square feet, whichever elling unit created by a remodel of an existing residence	ot exceed is less. A	1009 n acc	% of th	e floor /

one floor of the residence regardless of size.

(d) No more than one drive-up, drive-in or drive-through facility shall be permitted on one block, or for a distance of 300 linear feet along the same