**Pacific Surveying & Engineering, Inc**
**land surveying • civil engineering • consulting • environmental • gis**
**909 Squalicum Way #111, Bellingham, WA 98225**
Phone 360.671.7387 Facsimile 360.671.4685 Email info@psesurvey.com

February 26, 2025

City of Lynden
Public Works Department
300 4th Street
Lynden, Washington 98264

**Attn: Mark Sandal, Programs Manager**
**Re: Proposal for Civil Engineering, Land Surveying, and Environmental Services**
**Riverview Road Extension – Hannegan Road to Hampton Road**

Dear Mr. Sandal:

Pacific Surveying and Engineering (PSE) is pleased to present our proposal to provide you with professional consulting services related to a potential project to extend Riverview Road from Hannegan Road to Hampton Road.

We understand that the City of Lynden (CITY) is exploring the possibility of extending Riverview Road east to Hampton Road. The City of Lynden is asking us to determine the general permitting feasibility of doing this work. We also understand that this roadway extension will occur outside of the City Limits in Whatcom County jurisdiction.

This proposal recommends a scope of services to study the feasibility of permitting, designing, and constructing this roadway extension. While the roadway connection would be located outside of the City of Lynden corporate limits, we have not included any coordination with Whatcom County for this scope of work. We assume that any coordination or correspondence with the County will be managed by the City of Lynden.

***SCOPE OF SERVICES***
*LAND SURVEYING*
Our land surveying department will prepare a base map to be used for feasibility and early design work. The base map will include a UAS (Unmanned Aerial System or drone) based high resolution digital ortho-mosaic (aerial photo), publicly available LiDAR data, approximate parcel lines, and surveyed right of way boundaries for Hannegan and Hampton Roads. The survey will be completed on City of Lynden datum (NAD 83/91 and NGVD 29).

This scope of work also includes acquiring title reports for all possibly impacted properties. The title reports will be used to help us determine the legal title ownership of all lands between Hannegan Road and Hampton Road where Riverview Road may be extended. We have assumed for the purposes of this proposal that no more than 8 properties will be included in the review area.

Note that portions of the former Nooksack River are known to have existed in this area. Title ownership of such areas may not be determinable. In such cases, the map will indicate that title has not been clearly determined, and it should be assumed for feasibility purposes that those properties may require Federal or State title acquisition.

*ENVIRONMENTAL CONSULTING*
*(SUBCONSULTANT: NORTHWEST ECOLOGICAL SERVICES)*
Our environmental consulting subconsultant, Northwest Ecological Services, will work with us to determine the following:

1. Probable Location of Wetlands and Buffers
2. Probable Wetland Rating
3. Probable Environmental Permit Process
4. Confirm or Reject Need for Mitigation

We assume that the City of Lynden will coordinate right of entry for us to perform the field reconnaissance necessary to determine the location of possible critical areas.

*PRELIMINARY FLOOD STUDY*
*(SUBCONSULTANT: WATERSHED SCIENCE AND ENGINEERING)*
Our subconsultant, Watershed Science and Engineering (WSE), will provide us with a preliminary review of how the project will interact with the flood hazard areas. WSE will use a previously prepared two-dimensional hydraulic model of the Nooksack River basin to determine if the project will likely adversely impact the flood hazard areas. This may include model evaluation of alternative roadway alignments and grading (fill height). WSE will also assist us with narratives regarding the permit process.

*CIVIL ENGINEERING*
Our civil engineering department will prepare a channelization plan for the roadway extension. The channelization plan will be based on the base map previously described. The channelization plan will be used to determine if right-of-way acquisition is necessary and if impacts to critical areas are likely. Our findings will be presented to the City of Lynden in a technical letter describing the permit process. In addition, we will prepare a rough order of magnitude construction cost estimate to assist the City of Lynden with project budgeting.

*COUNTY COORDINATION*
Our civil engineering department will meet with the CITY and Whatcom County (COUNTY) personnel to review the project and determine permitting requirements, lead agency, and review design standards. This scope of work assumes and initial and follow up meeting with the COUNTY.

***SCHEDULE, TERMS AND BUDGET***
We are prepared to begin our services upon your authorization to proceed. We propose to accomplish our services on time and materials, not-to-exceed basis according to the attached scope and budget spreadsheet. It should be noted that all UAS (Unmanned Aerial System) work performed as part of this project is subject to adverse weather conditions (high winds, rain, snow, hail, sleet, fog, thunder and/or lightning) and may be cause for potential delays in project timelines.

We appreciate the opportunity to submit this proposal and look forward to working closely with you on this project. Please call if you have questions regarding this proposal.

Thank you again for your consideration.

Sincerely,
Pacific Surveying and Engineering, Inc.

Jeff Vander Yacht, P.E.
Engineering Manager and Principal

I accept the proposed scope of work and cost estimate provided in this proposal (attached).

_____ by_____
*Organization* **Signature*

_____ by_____
*Date* *Name (printed)*

*Individual with contracting authority and responsibility for payment to Pacific Surveying and Engineering Services.

Proprietary Notice: The contents of this document are proprietary to Pacific Surveying and Engineering Services and intended solely for use by our clients to evaluate Pacific Surveying and Engineering Services' capabilities and understanding of project requirements as they relate to performing the services proposed for a specific project. Copies of this document or its contents may not be disclosed to any other parties without the written consent of Pacific Surveying and Engineering Services. In the event of any inconsistency with this outline and the General Provisions of the contract, the General Provisions shall control.

**CITY OF LYNDEN**
**RIVERVIEW ROAD EXTENSION**

February 14, 2025

Prepared by:
***Pacific Surveying and Engineering, Inc.***
909 Squalicum Way #111
Bellingham, Washington 98225
Phone: (360) 671-7387
Fax: (360) 671-4685

Prepared for:
***City of Lynden***
300 4th Street
Lynden, WA 98264

| | **Pacific Surveying and Engineering** | | | | | | | **WSE** | | **NWES** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TASK ITEM** | Principal Surveyor $210 | 2-Person Crew $260 | Senior CAD $155 | UAV Pilot $205 | Principal Engineer $210 | Senior Engineer $190 | Engineer Technician $135 | Senior Eng. 1 $275 | Staff Engineer $181 | Princ. Ecologist $176 | Senior Ecologist $148 | **BUDGET** |
| **LAND SURVEYING** | | | | | | | | | | | | |
| Boundary Research | 12 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $5,000 |
| Easement and RW Research | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $1,460 |
| Field Surveying | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $3,020 |
| Drone Flight / Planning | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $2,460 |
| UAS Ortho Processing | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $615 |
| Map Drafting | 12 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $6,240 |
| PLS Review | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $840 |
| ***Subtotal*** | | | | | | | | | | | | ***$19,635*** |
| **ENVIRONMENTAL CONSULTING** | | | | | | | | | | | | |
| Meetings and Correspondence | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | $1,056 |
| Site Visit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | $2,240 |
| Agency Coordination | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | $176 |
| Code Review | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | $528 |
| Findings and Recommendations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | $1,620 |
| ***Subtotal*** | | | | | | | | | | | | ***$5,620*** |
| **FLOOD HAZARD CONSULTING** | | | | | | | | | | | | |
| Meetings and Correspondence | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | $1,462 |
| Hydraulic Model Review | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 10 | 0 | 0 | $7,310 |
| Findings and Recommendations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 0 | 0 | $2,924 |
| ***Subtotal*** | | | | | | | | | | | | ***$11,696*** |
| **CIVIL ENGINEERING** | | | | | | | | | | | | |
| Meetings and Correspondence | 0 | 0 | 0 | 0 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | $4,120 |
| Site Visit | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | $420 |
| Channelization Plan | 0 | 0 | 0 | 0 | 4 | 16 | 0 | 0 | 0 | 0 | 0 | $3,880 |
| Cost Estimate | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | $1,600 |
| Technical Letter | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | $2,400 |
| ***Subtotal*** | | | | | | | | | | | | ***$12,420*** |
| **INCIDENTAL EXPENSES** | | | | | | | | | | | | |
| Title Reports | | | | | | | | | | | | $4,000 |
| ***Subtotal*** | | | | | | | | | | | | ***$4,000*** |

## TOTAL BUDGET **$53,371**

Note: NWES/WSE Rates include 10% PSE markup.