



Pacific Surveying & Engineering, Inc

land surveying • civil engineering • consulting • environmental • gis
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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
Hannegan – Riverview Left Turn Lane

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 construct a northbound left-turn lane on Hannegan Road at Riverview Road.

BACKGROUND

During the initial design of Riverview Road, the City of Lynden (CITY) explored the potential for a northbound left-turn lane on Hannegan Road at Riverview Road. At that time, the CITY consulted Whatcom County. Whatcom County was going to require the CITY to widen Hannegan Road to accommodate the left-turn lane and maintain Whatcom County standard shoulder widths. That work fell outside of the original Riverview Road scope of work and pursuit of a left-turn lane was abandoned at that time. For this scope of work, it is assumed that Whatcom County will have the same requirements as initially investigated during the Riverview Road design.

We understand that the CITY wants revisit the addition of a left-turn lane to allow for left-turning vehicles to queue in a dedicated left-turn lane instead of queueing in the Hannegan Road northbound travel lane. The CITY is asking PSE to determine the general permitting feasibility of doing this work.

This proposal recommends a scope of services necessary to provide the CITY with a technical letter report that will summarize our findings and recommendations related to the permit process to complete this project. In addition to the technical letter, we will also provide a channelization plan detailing the work required and a rough order of magnitude construction cost estimate for the project.

SCOPE OF SERVICES

LAND SURVEYING

PSE's land surveying department will prepare a base map to be used for early design work. The base map will include a UAS (Unmanned Aerial System or drone) based high resolution digital ortho-mosaic (aerial photo), public lidar data, and surveyed right of way and/or easement boundaries for Riverview and Hannegan Roads. The survey will be completed on City of Lynden/FEMA datum (NAD 83/91 and NGVD 29). Title reports and road deeds will be reviewed as a part of this exercise. Title report fees have been included in PSE's scope of work (3 properties/reports required).

ENVIRONMENTAL CONSULTING

(SUBCONSULTANT: NORTHWEST ECOLOGICAL SERVICES)

With widening necessary, there will be impacts outside of the existing improved area. Our environmental 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

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. WSE will also assist us with narratives regarding the flood certification permit process.

CIVIL ENGINEERING

Our civil engineering department will prepare a channelization plan for the proposed turn lane. 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 in a technical letter report describing the permit process, including Whatcom County permits. In addition, we will prepare a rough order of magnitude construction cost estimate to assist the CITY 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 an 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).

_____ <i>Organization</i>	by _____ <i>*Signature</i>
_____ <i>Date</i>	by _____ <i>Name (printed)</i>

*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.

February 26, 2025

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

TASK ITEM	Pacific Surveying and Engineering				WSE			NWES		BUDGET		
	Principal Surveyor	2-Person Crew	Senior CAD	UAV Pilot	Principal Engineer	Senior Engineer	Engineer Technician	Senior Eng. 1	Staff Engineer		Princ. Ecologist	Senior Ecologist
	\$210	\$260	\$155	\$205	\$210	\$190	\$135	\$275	\$181		\$176	\$148
LAND SURVEYING												
Boundary Research	2	0	8	0	0	0	0	0	0	0	0	\$1,660
Easement Research	2	0	4	0	0	0	0	0	0	0	0	\$1,040
Field Surveying (Targets, RW)	2	10	0	0	0	0	0	0	0	0	0	\$3,020
Drone Flight / Planning	0	0	0	8	0	0	0	0	0	0	0	\$1,640
UAS Ortho Processing	0	0	0	3	0	0	0	0	0	0	0	\$615
Base Map Drafting	4	0	16	0	0	0	0	0	0	0	0	\$3,320
PLS Review	2	0	0	0	0	0	0	0	0	0	0	\$420
Subtotal												\$11,715
ENVIRONMENTAL CONSULTING												
Meetings and Correspondence	0	0	0	0	0	0	0	0	0	5	0	\$880
Site Visit	0	0	0	0	0	0	0	0	0	5	7	\$1,916
Code Review	0	0	0	0	0	0	0	0	0	2	0	\$352
Findings and Recommendations	0	0	0	0	0	0	0	0	0	4	0	\$704
Subtotal												\$3,852
FLOOD HAZARD CONSULTING												
Meetings and Correspondence	0	0	0	0	0	0	0	2	1	0	0	\$731
Hydraulic Model Review	0	0	0	0	0	0	0	10	5	0	0	\$3,655
Findings and Recommendations	0	0	0	0	0	0	0	4	2	0	0	\$1,462
Subtotal												\$5,848
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 (3)												\$1,500
Subtotal												\$1,500
TOTAL BUDGET												\$35,335
Note: NWES/WSE Rates include 10% PSE markup.												