

# Harai & Associates, Inc.

Consulting Civil Engineers & Land Surveyors

P.O. Box 625 Petersburg, Alaska 99833  
Telephone & Fax (907) 772-9216

January 4, 2018

Glo Wollen  
Harbor Master  
Petersburg Borough  
P.O. Box 1047  
Petersburg, Alaska 99833

Re: Design Plans & Specification Update  
Contract Administration & Inspection Proposal  
New Dock Project, Adjacent to Harbor Office

Glo,

I would like to offer my engineering services for the Design Plans & Specification Update, Contract Administration & Inspection for the New Dock Project, Adjacent to Harbor Office.

This proposal has changed from the original dated August 13, 2015. The change has to do with fact that the existing plans that were done in 2015 and need to be updated with new information. I know that one of the Borough furnished steel beams to be used in the design is gone. I believe it was used by another Borough department. The existing plans have to be redesigned with a different steel beam. The Borough supplied materials will have to be inventoried to verify they are still available. The specifications and contract documents have to be updated to reflect new dates and current information. In other words, I need to spend some engineering time to bring the plans, specifications, and bid documents up to date. I would estimate an additional 40 hours of engineering time to do this. This will be shown in the cost below. This will be the only change from the original 8/13/15 proposal for Contract Administration & Inspection.

This proposal will provide for the updating of the existing plans, specifications, and bid documents that were done in 2015. The engineering services will also provide all the administration required for the pre-bid, bidding, construction, and contract closeout necessary for successfully completion of the construction project. The inspection services will provide all of the on ground and office work necessary to have good quality control and final product oversight necessary for this construction project.

Throughout the different phases of this construction project I will keep you in the communication loop along with updates on the pace of the project as well as where in the cycle of completion the project is.

-----  
Costs for these engineering services are estimated as follows:

Updating of the existing plans, specifications, and bid documents  
Professional Engineer:  
40 hrs @ \$115/hr = \$4,600.00

Pre-bid contract administration phase

Professional Engineer:

15 hrs @ \$115/hr = \$1,725.00

Contract bidding & awarding phase

Professional Engineer

10 hrs @ \$115/hr = \$1,150.00

Contract inspection phase

Professional Engineer

45 hrs @ \$115/hr = \$5,175.00

Contract closeout phase

Professional Engineer

15 hrs @ \$115/hr = \$1,725.00

**Design Plan Update, Contract Administration**

**& Inspection Proposal Total ..... \$14,375.00**

These engineering services for the plan update, contract administration and inspection for the "New Dock Project, Adjacent to Harbor Office" total is \$14,375.00. This total does not include the cost of bid advertisements, copies of contracts, mailing cost or other miscellaneous cost associated with the bidding process. These additional costs will be billed directly to the Borough.

If you have questions or I can be of further help, please call me. Thank you, for considering my engineering services.



Alan Murph, PE/LS  
Harai & Associates, Inc.

# ENGINEER'S ESTIMATE

## PETERSBURG BOROUGH NEW DOCK PROJECT, ADJACENT TO HARBOR OFFICE ~ 2015

PROJECT SCOPE: DEMOLISH EXISTING TIMBER DOCK. CONSTRUCT A NEW DOCK USING RECYCLED CONSTRUCTION MATERIALS FURNISHED BY PETERSBURG BOROUGH & NEW MATERIAL FURNISHED BY CONTRACTOR. (1600 S.F. DOCK)

Item No.	Pay Item Description	Pay Unit	Approx. Quantity	Unit Price	Amount
				Dollars	Dollars
1505.1	Mobilization	LS	All Req'd	Lump Sum	\$40,000
2140.1	Demolition of Existing Timber Dock	LS	All Req'd	Lump Sum	\$45,000
2150.1	Recycled Material Preparation & Transportation To Site	LS	All Req'd	Lump Sum	\$15,700
2201.1	Construction Surveying	LS	All Req'd	Lump Sum	\$2,500
2301.1	Excavation, Embankment & Riprap	LS	All Req'd	Lump Sum	\$12,000
2401.1	Install Steel Piles	LS	All Req'd	Lump Sum	\$50,000
2501.1	Install Steel Pile Caps	LS	All Req'd	Lump Sum	\$32,000
2601.1	Install Wood Deck Beams	LS	All Req'd	Lump Sum	\$10,200
2701.1	Furnish & Install Timber Decking	LS	All Req'd	Lump Sum	\$45,500
2702.1	Furnish & Install Timber Bull & Guard Rail	LS	All Req'd	Lump Sum	\$24,900
3101.1	Install Concrete Sidewalk & Ramp	LS	All Req'd	Lump Sum	\$9,000
<b>TOTAL ENGINEER ESTIMATE AMOUNT . . . .</b>					<b>\$286,800</b>

Additional project cost not included in this Engineer's Estimate.

- 1) Project administration and inspection estimated at \$10,000.
- 2) Project contingency of approximately 15% of project cost, this covers any unforeseen change orders. Estimated at \$43,000. These monies may not be used if project construction goes perfectly.

Prepared by Alan J Murph, PE/LS  
10 August 2015  
Harai & Associates, Inc.