



April 14, 2023

192080.04

Mr. Karl Hagerman  
Utility Director  
Petersburg Borough  
P.O. Box 329  
Petersburg, Alaska 99833

**SUBJECT:** Pump Station No. 4 and Force Main Replacement, Final Design Fee Proposal

Dear Mr. Hagerman,

PND Engineers, Inc. (PND) is pleased to provide this proposal for additional engineering services for the Pump Station No. 4 and Force Main Replacement project. You requested PND provide a fee proposal to perform final design, permitting, survey and platting, and bid and construction phase engineering services based on the selected alternative identified as Alternative A.2.3 in the alternatives analysis memo dated February 15, 2023. The selected alternative includes a new electrical equipment building with a new or remodeled generator addition. The selected alternative has an estimated total project cost of approximately \$3.4M. PND will perform the following additional tasks on the project.

4. **Preliminary Site Visit.** PND and sub consultants will meet on site to confirm scope and preferences and review layout for the selected alternative. We have assumed a single day trip.
5. **Test Pit Investigation.** PB will conduct a test pit investigation and log findings. PND will provide direction on location, depth and log format. PND will provide a summary of findings memo.
6. **65% Design Development.** Submittal will include Plans and Construction Cost Estimate. Assume controls and programming design by RMC Engineering, directly for PB, under separate contract.
7. **95% Final Design.** Submittal will include Plans, Specifications and Construction Cost Estimate.
8. **Bid Ready Documents.** Bid Ready Documents including Plans, Specifications and Construction Cost Estimate in reproduction ready PDF. Assume PB will advertise the bid as appropriate.
9. **Permitting.** PND will secure required permits for the project. We have assumed a USACE nationwide permit with no mitigation.
10. **Survey and Platting.** CSS will survey and provide plat documents and recording services to establish Ramona St. ROW right of way between Lake and Augusta, subdivision and plat (as required) of the lot adjacent to the existing lift station, and additional surveying/platting as required to transfer PB land to a private Owner per PB direction.
11. **Bid Support.** PND will provide bid phase assistance including conducting the prebid conference and developing addenda as needed.
12. **Construction Support.** PND will provide construction phase engineering services. PND has assumed 2 civil site visits, 2 building special inspection site visits, 1 electrical site visit, 1 mechanical site visit and additional inspections for substantial and final completion.

Scope details and individual subtasks are identified on the enclosed fee spreadsheets.

**Fee Proposal.**

We have estimated the fees for this work as summarized in the following table. PND understands that you only intend to proceed with Tasks 1 through 10 at this time. The estimated fees have been subtotaled accordingly.

<b>Cost Summary</b>			
<b>Task</b>	<b>Description</b>	<b>Cost</b>	<b>Fee Method</b>
4	Task 4 Preliminary Site Visit	\$22,415.00	T&E
5	Task 5 Test Pit Investigation	\$3,327.50	T&E
6	Task 6 65% Design Development	\$87,825.00	T&E
7	Task 7 95% Final Design	\$80,507.00	T&E
8	Task 8 Bid Ready Documents	\$25,720.00	T&E
9	Task 9 Permitting	\$16,510.00	T&E
10	Task 10 Survey and Platting	\$9,295.00	T&E
	<b>Subtotal Tasks 1-10</b>	<b>\$245,599.50</b>	
11	Task 11 Bid Support	\$12,842.50	T&E
12	Task 12 Construction Phase	\$90,510.40	T&E
	<b>Subtotal Tasks 11 and 12</b>	<b>\$103,352.90</b>	
	<b>Total Fee Estimate</b>	<b>\$348,952.40</b>	

PND proposes to perform this work for on a time and expenses (T&E) basis. PND will not exceed this fee without written authorization. Enclosed please find a breakdown of the estimated time and fees for the described services.

**Schedule.**

PND and our subconsultants are ready to commence immediately upon receiving written Notice to Proceed. The following schedule is proposed.

<b>Task</b>	<b>Begin</b>	<b>Complete</b>
<b>NTP</b>		May 9, 2023
<b>Preliminary Site Visit</b>		May 11, 2023
<b>Test Pit Investigation</b>		May, 2023
<b>65% Design Development</b>	May 9, 2023	July 14, 2023
<b>PB Review and Meeting</b>		July 21, 2023
<b>Permitting</b>	July 14, 2023	September 15, 2023
<b>95% Final Design</b>	July 21, 2023	September 29, 2023
<b>PB Review and Meeting</b>		October 6, 2023
<b>Survey and Platting</b>	September 15, 2023	October 15, 2023
<b>Bid Ready Documents</b>	October 6, 2023	October 23, 2023
<b>Bid</b>	October 24, 2023	November 21, 2023
<b>Procurement/Construction</b>	Dec. 1, 2023	October 31, 2024

**Closing.**

PND appreciates the opportunity to continue assisting the Petersburg Borough on this important infrastructure project. We look forward to advancing this project with you.

Sincerely,

PND Engineers, Inc. | Juneau Office



Dick Somerville, P.E.  
Vice President



Tyler Bradshaw, P.E.  
Project Manager

Enclosures: PND Fee Proposal (Civil and Structural)  
MEG Fee Proposal (Electrical)  
MM Fee Proposal (Mechanical)  
MA Fee Proposal (Architectural)  
CSS Fee Proposal (Survey)



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7	Task 7 95% Final Design	\$80,507.00	T&E
8	Task 8 Bid Ready Documents	\$25,720.00	T&E
9	Task 9 Permitting	\$16,510.00	T&E
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	<b>Subtotal Tasks 1-10</b>	<b>\$245,599.50</b>	
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	<b>Subtotal Tasks 11 and 12</b>	<b>\$103,352.90</b>	
	<b>Total Fee Estimate</b>	<b>\$348,952.40</b>	



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Subtask	Description of Services	Senior Engineer VII	Senior Engineer VI	Senior Engineer V	Staff Engineer III	Staff Engineer II	Env. Scientist V	Technician VI	Technician V	CAD Designer VI	CAD Designer V	Line Total	Task Subtotal Costs
		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00		
<b>Task 4 Preliminary Site Visit</b>													
4.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	1	4						2			\$1,390	\$11,800.00
4.2	Final design preliminary coordination, scoping, meetings and fee development	1	16									\$3,755	
4.3	On site coordination and scope site visit preparation and meeting		14	14	2	2				2		\$6,655	
4.4												\$0	
4.5												\$0	
4.6												\$0	
4.7												\$0	
4.8												\$0	
4.9												\$0	
4.10												\$0	
4.11												\$0	
4.12												\$0	
4.13												\$0	
4.14												\$0	
4.15												\$0	
<b>Total Estimated Man-hours</b>		2	34	14	2	2	0	0	2	2	0		
<b>Estimated Third Party Expenses</b>													
		Description								Quantity	Unit Cost	Line Total	
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables								1	\$50	\$50		
PND Travel	Air fare, round trip, PM and Structural Engineer JNU - PSG								2	\$550	\$1,100		
PND Travel	Lodging, per night								0	\$200	\$0		
PND Travel	Vehicle Rental								0	\$125	\$0		
PND Travel	Per Diem, Days								0	\$86	\$0		
											\$0		
Administrative Fee	Expenses Markup								1	10%	\$115	\$1,265.00	
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services								1	\$4,870	\$4,870		
Millard and Assoc.	Architectural Design Services								1	\$480	\$480		
Modern Mechanical	Mechanical Engineering Services								1	\$3,150	\$3,150		
									0	\$0	\$0		
Administrative Fee	Subcontractor Markup								1	10%	\$850	\$9,350.00	
<b>Task 4 Preliminary Site Visit Total</b>												<b>\$22,415.00</b>	



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Subtask	Description of Services	Senior Engineer VII	Senior Engineer VI	Senior Engineer V	Staff Engineer III	Staff Engineer II	Env. Scientist V	Technician VI	Technician V	CAD Designer VI	CAD Designer V	Line Total	Task Subtotal Costs													
		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00															
<b>Task 5 Test Pit Investigation</b>																										
5.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	1	1						1			\$593	\$3,272.50													
5.2	Investigation preparation and Coordination with PB		6									\$1,320		\$3,272.50												
5.3	On site test pit investigation - PB performs digging											\$0			\$3,272.50											
5.4	Findings Memo		4			4						\$1,360				\$3,272.50										
5.5												\$0					\$3,272.50									
5.6												\$0						\$3,272.50								
5.7												\$0							\$3,272.50							
5.8												\$0								\$3,272.50						
5.9												\$0									\$3,272.50					
5.10												\$0										\$3,272.50				
5.11												\$0											\$3,272.50			
5.12												\$0												\$3,272.50		
5.13												\$0													\$3,272.50	
5.14												\$0														\$3,272.50
5.15												\$0														
<b>Total Estimated Man-hours</b>		1	11	0	0	4	0	0	1	0	0															
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>													
<b>Expenses</b>																										
Misc.	Reproduction and Misc. Consumables											1	\$50	\$50												
PND Travel	Air fare, round trip, Geotech Technician JNU - PSG											0	\$400	\$0												
PND Travel	Lodging, per night											0	\$200	\$0												
PND Travel	Vehicle Rental											0	\$125	\$0												
PND Travel	Per Diem, Days											0	\$86	\$0												
														\$0												
Administrative Fee	Expenses Markup											1	10%	\$5												
<b>Subcontractor Fees</b>																										
Morris Engineering Group	Electrical Engineering Services											0	\$0	\$0												
Millard and Assoc.	Architectural Design Services											0	\$0	\$0												
Modern Mechanical	Mechanical Engineering Services											0	\$0	\$0												
												0	\$0	\$0												
Administrative Fee	Subcontractor Markup											1	10%	\$0												
<b>Task 5 Test Pit Investigation Total</b>													<b>\$3,327.50</b>													



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		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00		
<b>Task 6 65% Design Development</b>													
6.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	4	14						6			\$4,845	\$54,990.00
6.2	Team and Client Meetings	1	12	4	8							\$4,715	
6.3	Demolition, disposal and materials salvage plan	1	4	10	10	4				8	6	\$6,745	
6.4	Construction sequencing plan	1	6	2	12					2		\$3,790	
6.5	Pump design, calculations and and mfr. coordination	1	4		12							\$2,675	
6.6	Pump station operations and sequencing	1	2		6					2		\$1,730	
6.7	Lift station layout and site plan		2	2	8	8				8		\$3,940	
6.8	Lift Station and wells design details	1	2		12					8		\$3,335	
6.9	Building structural design		4	16		18					20	\$8,740	
6.10	Shoring structural design	1	4	6		6					8	\$4,035	
6.11	Distribution pipes design, plans and profiles		4		16					8		\$4,060	
6.12	Material quantities computations, bid schedule and cost estimate	1	4	2	8	4				6		\$3,860	
6.13	Design Review Submittal Meeting (Teams)		2	2								\$840	
6.14	Respond to review comments		2	2								\$840	
6.15												\$840	
<b>Total Estimated Man-hours</b>		12	66	46	92	40	0	0	6	42	34		
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables									1	\$200	\$200	
PND Travel	Air fare									0	\$400	\$0	
PND Travel	Lodging, per night									0	\$200	\$0	
PND Travel	Vehicle Rental									0	\$125	\$0	
PND Travel	Per Diem, Days									0	\$86	\$0	
												\$0	
Administrative Fee	Expenses Markup									1	10%	\$20	\$220.00
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services									1	\$19,310	\$19,310	
Millard and Assoc.	Architectural Design Services									1	\$2,320	\$2,320	
Modern Mechanical	Mechanical Engineering Services									1	\$8,020	\$8,020	
										0	\$0	\$0	
Administrative Fee	Subcontractor Markup									1	10%	\$2,965	\$32,615.00
<b>Task 6 65% Design Development Total</b>													<b>\$87,825.00</b>



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		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00		
<b>Task 7 95% Final Design</b>													
7.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	4	14						6			\$4,845	\$52,615.00
7.2	Team and Client Meetings	1	12	4	10	2						\$5,215	
7.3	Demolition, disposal and materials salvage plan		2	4	6	6				2	2	\$3,265	
7.4	Construction sequencing plan	1	6	2	6					4		\$3,285	
7.5	Pump design, calculations and and mfr. coordination		2		4							\$960	
7.6	Pump station operations and sequencing	1	2		4					2		\$1,470	
7.7	Lift station layout and site plan		2		8					6		\$2,305	
7.8	Lift Station and wells design details		2		8					6		\$2,305	
7.9	Building structural design		2	10		12					16	\$5,880	
7.10	Shoring structural design	1	2	4		4					6	\$2,705	
7.11	Distribution pipes design, plans and profiles		2		10					8		\$2,840	
7.12	Material quantities computations, bid schedule and cost estimate		2	2	6	4				6	2	\$3,175	
7.13	Special provisions and technical specifications	2	8	6	10	8						\$5,690	
7.14	On site design review submittal meeting		18	18								\$7,560	
7.15	Respond to review comments		2	2						2		\$1,115	
<b>Total Estimated Man-hours</b>		10	78	52	72	36	0	0	6	36	26		
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables									1	\$200	\$200	\$1,189.50
PND Travel	Air fare									1	\$400	\$400	
PND Travel	Lodging, per night									1	\$200	\$200	
PND Travel	Vehicle Rental									1	\$125	\$125	
PND Travel	Per Diem, Days									2	\$86	\$172	
												\$0	
Administrative Fee	Expenses Markup									1	10%	\$93	
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services									1	\$14,145	\$14,145	\$26,702.50
Millard and Assoc.	Architectural Design Services									1	\$1,740	\$1,740	
Modern Mechanical	Mechanical Engineering Services									1	\$8,390	\$8,390	
										0	\$0	\$0	
Administrative Fee	Subcontractor Markup									1	10%	\$2,428	
<b>Task 7 95% Final Design Total</b>												<b>\$80,507.00</b>	





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Subtask	Description of Services	Senior Engineer VII	Senior Engineer VI	Senior Engineer V	Staff Engineer III	Staff Engineer II	Env. Scientist V	Technician VI	Technician V	CAD Designer VI	CAD Designer V	Line Total	Task Subtotal Costs
		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00		
<b>Task 8 Bid Ready Documents</b>													
8.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	2	2						2			\$1,185	\$15,600.00
8.2	Address all final review comments.		6	4	12	6				12	4	\$6,550	
8.3	Conduct Internal QA Design Audit - plans, specs, calculations, cost estimate, schedule, bid documents, independent final reviews	10	10	2	2	2				2		\$5,725	
8.4	Prepare final stamped bid ready documents		2	2	2	2				4	2	\$2,140	
8.5												\$0	
8.6												\$0	
8.7												\$0	
8.8												\$0	
8.9												\$0	
8.10												\$0	
8.11												\$0	
8.12												\$0	
8.13												\$0	
8.14												\$0	
8.15												\$0	
<b>Total Estimated Man-hours</b>		12	20	8	16	10	0	0	2	18	6		
<b>Estimated Third Party Expenses</b>		Description								Quantity	Unit Cost	Line Total	
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables								1	\$200	\$200		
PND Travel	Air fare								0	\$400	\$0		
PND Travel	Lodging, per night								0	\$200	\$0		
PND Travel	Vehicle Rental								0	\$125	\$0		
PND Travel	Per Diem, Days								0	\$86	\$0		
											\$0		
Administrative Fee	Expenses Markup								1	10%	\$20	\$220.00	
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services								1	\$5,570	\$5,570		
Millard and Assoc.	Architectural Design Services								1	\$750	\$750		
Modern Mechanical	Mechanical Engineering Services								1	\$2,680	\$2,680		
									0	\$0	\$0		
Administrative Fee	Subcontractor Markup								1	10%	\$900	\$9,900.00	
<b>Task 8 Bid Ready Documents Total</b>												<b>\$25,720.00</b>	



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<b>Task 9 Permitting</b>													
9.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	1	4						2			\$1,390	
9.2	USACE Nationwide Permit with PCN, assume no mitigation required	1	8				12			4		\$4,705	
9.3	ADEC Wastewater Authorization to Construct		8		20	4	4			8		\$6,660	
9.4	ADEC Wastewater Authorization to Operate		4		4		2					\$1,760	
9.5	Support ADEC Loan EA upon request		4		2		2			2		\$1,775	
9.6												\$0	
9.7												\$0	
9.8												\$0	
9.9												\$0	
9.10												\$0	
9.11												\$0	
9.12												\$0	
9.13												\$0	
9.14												\$0	
9.15												\$0	\$16,290.00
<b>Total Estimated Man-hours</b>		2	28	0	26	4	20	0	2	14	0		
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables									1	\$200	\$200	
PND Travel	Air fare									0	\$400	\$0	
PND Travel	Lodging, per night									0	\$200	\$0	
PND Travel	Vehicle Rental									0	\$125	\$0	
PND Travel	Per Diem, Days									0	\$86	\$0	
												\$0	
Administrative Fee	Expenses Markup									1	10%	\$20	\$220.00
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services									1	\$0	\$0	
Millard and Assoc.	Architectural Design Services									1	\$0	\$0	
Modern Mechanical	Mechanical Engineering Services									1	\$0	\$0	
										0	\$0	\$0	
Administrative Fee	Subcontractor Markup									1	10%	\$0	\$0.00
<b>Task 9 Permitting Total</b>													<b>\$16,510.00</b>



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		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00			
<b>Task 10 Survey and Platting</b>														
10.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.		4						2			\$1,155	\$2,585.00	
10.2	Coordinate Survey and Platting		4							4		\$1,430		
10.3												\$0		
10.4												\$0		
10.5												\$0		
10.6												\$0		
10.7												\$0		
10.8												\$0		
10.9												\$0		
10.10												\$0		
10.11												\$0		
10.12												\$0		
10.13												\$0		
10.14												\$0		
10.15												\$0		
<b>Total Estimated Man-hours</b>		0	8	0	0	0	0	0	2	4	0			
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>	
<b>Expenses</b>														
Misc.	Reproduction and Misc. Consumables									1	\$100	\$100		
PND Travel	Air fare									0	\$400	\$0		
PND Travel	Lodging, per night									0	\$200	\$0		
PND Travel	Vehicle Rental									0	\$125	\$0		
PND Travel	Per Diem, Days									0	\$86	\$0		
												\$0		
Administrative Fee	Expenses Markup									1	10%	\$10	\$110.00	
<b>Subcontractor Fees</b>														
Morris Engineering Group	Electrical Engineering Services									1	\$0	\$0		
Millard and Assoc.	Architectural Design Services									1	\$0	\$0		
Modern Mechanical	Mechanical Engineering Services									1	\$0	\$0		
Central Southeast Surveyors	Survey and Platting									1	\$6,000	\$6,000		
Administrative Fee	Subcontractor Markup									1	10%	\$600	\$6,600.00	
<b>Task 10 Survey and Platting Total</b>													<b>\$9,295.00</b>	



**PND Engineers, Inc.**  
**Petersburg Borough**  
**Pump Station 4 Final Design, Bid and CA**  
**Engineering Services Fee Proposal**  
**April 14, 2023**

Subtask	Description of Services	Senior Engineer VII	Senior Engineer VI	Senior Engineer V	Staff Engineer III	Staff Engineer II	Env. Scientist V	Technician VI	Technician V	CAD Designer VI	CAD Designer V	Line Total	Task Subtotal Costs
		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00		
<b>Task 11 Bid Support</b>													
11.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	1	1									\$455	\$7,865.00
11.2	Conduct prebid video conference - prepare agenda and minutes		3		4							\$1,180	
11.3	Address bidder questions and prepare addenda responses		4	1	4	1				2	1	\$2,120	
11.4	Prepare stamped, conformed documents.		2	1	2					4	1	\$1,575	
11.5	Final Submittals Preparation: Bind CAD Files, organize specification docs, prepare organize and deliver files.		2	1	2	1				2	1	\$1,420	
11.6	Prepare bid recommendation and bid tabs	1	4									\$1,115	
11.7												\$0	
11.8												\$0	
11.9												\$0	
11.10												\$0	
11.11												\$0	
11.12												\$0	
11.13												\$0	
11.14												\$0	
11.15												\$0	
<b>Total Estimated Man-hours</b>		2	16	3	12	2	0	0	0	8	3		
<b>Estimated Third Party Expenses</b>													
		Description									Quantity	Unit Cost	Line Total
<b>Expenses</b>													
Misc.	Reproduction and Misc. Consumables									1	\$200	\$200	
PND Travel	Air fare									0	\$400	\$0	
PND Travel	Lodging, per night									0	\$200	\$0	
PND Travel	Vehicle Rental									0	\$125	\$0	
PND Travel	Per Diem, Days									0	\$86	\$0	
												\$0	
Administrative Fee	Expenses Markup									1	10%	\$20	\$220.00
<b>Subcontractor Fees</b>													
Morris Engineering Group	Electrical Engineering Services									1	\$1,720	\$1,720	
Millard and Assoc.	Architectural Design Services									1	\$325	\$325	
Modern Mechanical	Mechanical Engineering Services									1	\$2,280	\$2,280	
										0	\$0	\$0	
Administrative Fee	Subcontractor Markup									1	10%	\$433	\$4,757.50
<b>Task 11 Bid Support Total</b>												<b>\$12,842.50</b>	



**PND Engineers, Inc.**  
**Petersburg Borough**  
**Pump Station 4 Final Design, Bid and CA**  
**Engineering Services Fee Proposal**  
**April 14, 2023**

Subtask	Description of Services	Senior Engineer VII	Senior Engineer VI	Senior Engineer V	Staff Engineer III	Staff Engineer II	Env. Scientist V	Technician VI	Technician V	CAD Designer VI	CAD Designer V	Line Total	Task Subtotal Costs	
		\$235.00	\$220.00	\$200.00	\$130.00	\$120.00	\$180.00	\$157.50	\$137.50	\$137.50	\$125.00			
<b>Task 12 Construction Phase</b>														
12.1	Project Management: Team Management, correspondence, scheduling, budget controls, invoicing, reports, contract management, clerical.	4	12						2			\$3,855	\$56,285.00	
12.2	Attend Preconstruction Meeting (Teams) Prepare, Agenda and Minutes		4	2	2							\$1,540		
12.3	Progress Meetings, Agendas, Minutes		12	6	22							\$6,700		
12.4	Review Submittals		8	4	20	8						\$6,120		
12.5	Respond to RFIs and DC/VRs	1	8	2	6	4				2	2	\$4,180		
12.6	Field design assistance/modifications and COs		8	1	4	1				4	2	\$3,400		
12.7	Construction Observations and Reporting - Assume 4 site visits 2 civil and 2 building special inspections		18	18	18			18				\$12,735		
12.8	Onsite Substantial and Final Inspections		36	18								\$11,520		
12.9	Punch lists and project close out.		6	2	10	2						\$3,260		
12.10	Record Drawings		4		4					6	6	\$2,975		
12.11												\$0		
12.12												\$0		
12.13												\$0		
12.14												\$0		
12.15												\$0		
<b>Total Estimated Man-hours</b>		5	116	53	86	15	0	18	2	12	10			
<b>Estimated Third Party Expenses</b>		<b>Description</b>									<b>Quantity</b>	<b>Unit Cost</b>	<b>Line Total</b>	
<b>Expenses</b>														
Misc.	Reproduction and Misc. Consumables									1	\$200	\$200		
PND Travel	Air fare									7	\$400	\$2,800		
PND Travel	Lodging, per night									7	\$200	\$1,400		
PND Travel	Vehicle Rental									6	\$125	\$750		
PND Travel	Per Diem, Days									14	\$86	\$1,204		
												\$0		
Administrative Fee	Expenses Markup									1	10%	\$635	\$6,989.40	
<b>Subcontractor Fees</b>														
Morris Engineering Group	Electrical Engineering Services									1	\$17,975	\$17,975		
Millard and Assoc.	Architectural Design Services									1	\$905	\$905		
Modern Mechanical	Mechanical Engineering Services									1	\$5,880	\$5,880		
										0	\$0	\$0		
Administrative Fee	Subcontractor Markup									1	10%	\$2,476	\$27,236.00	
<b>Task 12 Construction Phase Total</b>													<b>\$90,510.40</b>	



PO Box 210049, Auke Bay, Alaska 99821, 907-789-3350,  
email: mark@morrisengineeringgroup.com

## Fee Estimate

4/14/2023

### Petersburg Lift Station 4 - Professional Services

Scope of Services: 65%, 95%, and Final Design Drawings and Specs for Lift Station.  
Consists of site visits, meeting with City of Petersburg Wastewater, construction cost estimate, bid phase support, contract administration, submittal reviews, inspection services, and closeout services including as-builts.

<u>Task</u>	<u>Engineer (hrs)</u>	<u>Tech/CAD (hrs)</u>	<u>Expenses</u>
<b>Preliminary Site Visit - 2 Engineers</b>	18		\$1,000
Hourly Rate	\$215	\$135	
Fees	\$3,870	\$0	\$1,000
<b>Subtotal - Preliminary Site Visit</b>	<b>\$4,870</b>		
<b>65% Design for Lift Station</b>			
<b>Services</b>			
Coordination with Utility	1		
Site Plan	4	2	
Rack Elevation with service, genset receptacle	4	2	
Fault Current Calculations	2		
<b>Building Addition</b>			
Wall Elevations	4	2	
Floor Plan	4	2	
<b>Power</b>			
Size pump VFDs	2		
Single Line Diagrams	4	2	
Elevation View of Lift Station	4	2	
<b>Underground Power to Wet Well</b>			
Wet Well Elevation View	4	2	
Conduit & Cable selection & routing	4	2	
Trench Detail	1	1	
<b>Riser Diagrams</b>	4	2	
<b>Project Meetings</b>	4		
<b>Coordination w/ Control Panel Designer</b>	8		
<b>Specifications</b>	8		
<b>Estimate</b>	8		
<b>65% Submittal</b>	4	2	
<b>65% Review Meeting &amp; Changes</b>	2	1	
Hour Totals	76	22	
Hourly Rate	\$215	\$135	
Fees	\$16,340	\$2,970	\$0
<b>Subtotal Fee - 65% Design</b>	<b>\$19,310</b>		

Petersburg LS4 Design

<u>Task</u>	<u>Engineer (hrs)</u>	<u>Tech/CAD (hrs)</u>	<u>Expenses</u>
<b>95% Design for Lift Station</b>			
<b>Services</b>			
Site Plan	3	2	
Rack Elevation with service, genset receptacle	3	2	
Fault Current Calculations	1		
<b>Building Addition</b>			
Wall Elevations	2	1	
Floor Plan	2	1	
<b>Power</b>			
Single Line Diagrams	3	2	
Elevation View of Lift Station	3	2	
<b>Underground Power to Wet Well</b>			
Wet Well Elevation View	1	1	
Conduit & Cable selection & routing	1	1	
Trench Detail	1	1	
<b>Riser Diagrams</b>	3	1	
<b>Project Meetings</b>	2		
<b>Coordination w/ Control Panel Designer</b>	4		
<b>Specifications</b>	4		
<b>Estimate</b>	4		
<b>95% Drawing Submittal</b>	4	2	
Site Visit and Meeting w/ Client	8		\$750
<b>95% Review Meeting &amp; Changes</b>	2	2	
<hr/>			
Hour Totals	51	18	
Hourly Rate	<u>\$215</u>	<u>\$135</u>	
Fees	\$10,965	\$2,430	\$750
<b>Subtotal Fee - 95% Design</b>		<b>\$14,145</b>	
<b>Final Bid Ready Documents for Lift Station</b>			
<b>Services</b>			
Site Plan	1	1	
Rack Elevation with service, genset receptacle	1	1	
<b>Building Addition</b>			
Wall Elevations	1	1	
Floor Plan	1	1	
<b>Power</b>			
Single Line Diagrams	1	1	
Elevation View of Lift Station	1	1	
<b>Underground Power to Wet Well</b>			
Wet Well Elevation View	1	1	
Conduit & Cable selection & routing	1	1	
<b>Riser Diagrams</b>	1	1	
<b>Project Meetings</b>	2		
<b>Coordination w/ Control Panel Designer</b>	2		
<b>Specifications</b>	2		
<b>Estimate</b>	2		
<b>Final Bid Ready Documents Submittal</b>	2	2	
<hr/>			
Hour Totals	19	11	
Hourly Rate	<u>\$215</u>	<u>\$135</u>	
Fees	\$4,085	\$1,485	\$0
<b>Subtotal Fee - Final Bid Ready Documents</b>		<b>\$5,570</b>	

Petersburg LS4 Design

<u>Task</u>	<u>Engineer (hrs)</u>	<u>Tech/CAD (hrs)</u>	<u>Expenses</u>
<b>Bid Phase Assistance</b>	8		
Hourly Rate	<u>\$215</u>	<u>\$135</u>	
Fees	\$1,720	\$0	\$0
<b>Subtotal Fee - Bid Phase Assistance</b>	<b>\$1,720</b>		
<b>Construction Services</b>			
<b>Submittal Reviews</b>	16		
<b>Answering Contractor RFIs</b>	8		
<b>Milestone Inspections Onsite</b>			
Construction	8		\$750
Report	4		
Substantial Completion	8		\$750
Report	4		
Final Completion	8		\$750
Report	4		
<b>As-Built Drawings</b>	10	5	
Hour Totals	70	5	
Hourly Rate	<u>\$215</u>	<u>\$135</u>	
Fees	\$15,050	\$675	\$2,250
<b>Subtotal Fee - Construction Services</b>	<b>\$17,975</b>		
<b>Grand Total Fee - Design &amp; Construction Services</b>	<b>\$63,590</b>		



**Morris Engineering Group**

P.O. Box 210049  
 Auke Bay, Alaska 99821  
 907 789-3350

**MODERN MECHANICAL**

11001 Black Bear Road  
 Juneau, AK 99801  
 cell: 723-9320

MECHANICAL ENGINEERING FEE ESTIMATE for the:

**Petersburg Lift Station 4**

Scope Services: 65%, 95%, and Final Design Drawings and specs for lift station.

March 24,2022

Cosists of site visit, meetings, construction cost estimate, bid phase support, C/A, submittal reviews and as-builts.

Hourly rates are: Principal \$200/hr, Mechanical Engineer \$135/hr, Clerical Drafter \$100/hr

<b>Preliminary Site Visit/As-Builts</b>	<b>PRINCIPAL</b>	<b>MECHANICAL/ ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Initial Meeting to Review Requirements	12.0	0.0		\$750	3,150
	<b>12.0</b>	<b>0.0</b>	<b>0.0</b>	<b>\$750</b>	<b>\$3,150</b>

**65% Construction Documents**

<b>65% Construction Documents</b>	<b>PRINCIPAL</b>	<b>MECHANICAL/ ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Coordination with Utility - Petersburg	1.0	1.0			335
Coordination with Morris	1.0	2.0			470
Integrate necessary codes into design	1.0	2.0			470
On-site as-builts (Basic not in depth)	2.0	4.0	2.0		1,140
Equipment design layout	2.0	4.0	1.0		1,040
Mechanical equipment	1.0	4.0	1.0		840
Relocate or replace louvers	2.0	4.0	1.0		1,040
Remove and reinstall generator with cooling	4.0	4.0	1.0		1,440
Preliminary Cost Estimate	1.0	4.0			740
Coordination	1.0	1.0			335
Print/PDF65% documents			1.0	70	170
	<b>16.0</b>	<b>30.0</b>	<b>7.0</b>	<b>\$70</b>	<b>\$8,020</b>

**95% Construction Documents**

<b>CONSTRUCTION DOCUMENTS</b>	<b>PRINCIPAL</b>	<b>MECHANICAL/ ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Incorporate 65% review comments	1.0	4.0	2.0		940
Coordination with Disciplines	1.0	2.0			470
Update Drawing format changes	1.0	2.0	1.0		570
Modify design layout	2.0	4.0	1.0		1,040
Sections or diagrams	1.0	4.0	1.0		840
Louver replacement or duct mods	1.0	2.0	1.0		570
Heat Pumps (alternate or base bid?)	1.0	2.0			470
Equipment Schedule	1.0	2.0	1.0		570
Interface/controls/electrical	1.0	2.0			470
Estimate or cost review	2.0	2.0			670
Basic specifications (on drawing)	2.0	4.0	2.0		1,140
Coordination	1.0	2.0			470
Print/PDF95% documents			1.0	70	170
	<b>15.0</b>	<b>32.0</b>	<b>10.0</b>	<b>70.0</b>	<b>\$8,390</b>

## 100% Construction Documents

<b>100% Construction Documents</b>	<b>MECHANICAL/ ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Changes from 95% Incorporated	2.0	4.0	2.0	1,140
Coordination with disciplines and Owner	1.0	2.0		470
Final Specifications Revisions	1.0	1.0	1.0	435
Prepare final documents	2.0	1.0	1.0	635
	<b>6.0</b>	<b>8.0</b>	<b>4.0</b>	<b>\$0</b>
<b>Total CD Project Hours and Fee</b>	<b>49.0</b>	<b>70.0</b>	<b>21.0</b>	<b>890.0</b>

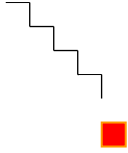
## Bidding Phase (estimate)

<b>BIDDING</b>	<b>PRINCIPAL</b>	<b>ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Bidding assistance	2.0	4.0			940
Bidding evaluation	4.0	4.0			1,340
	<b>6.0</b>	<b>8.0</b>	<b>0.0</b>	<b>\$0</b>	<b>\$2,280</b>

## Phase 4: Construction Administration

<b>CONSTRUCTION SERVICES</b>	<b>PRINCIPAL</b>	<b>ENGINEER</b>	<b>CLERICAL/ DRAFTING</b>	<b>EXPENSE</b>	<b>TOTAL (\$)</b>
Submittal review	1.0	4.0	1.0		840
Construction coordination	1.0	4.0			740
Meetings with Client and Disciplines	2.0	2.0			670
Final Inspection and report	8.0	2.0	1.0	750	2,720
As-built drawings	1.0	4.0	1.0	70	910
	<b>13.0</b>	<b>16.0</b>	<b>3.0</b>	<b>\$820</b>	<b>\$5,880</b>
<b>Total CA Project Hours and Fee</b>	<b>19.0</b>	<b>24.0</b>	<b>3.0</b>	<b>\$820</b>	<b>\$8,160</b>

**MILLARD +  
ASSOCIATES  
ARCHITECTS LLC**



March 20, 2023

Tyler Bradshaw  
PND Engineers, Inc.  
9360 Glacier Highway, Suite 100  
Juneau, AK 99801

RE: Petersburg Lift Station – Architectural Design Services

Dear Tyler,

Thank you for the opportunity to provide you with a fee proposal for architectural design services for a new addition and the renovation or replacement of the existing 200 sf lift station building and shelter on Nordic Drive in Petersburg, Alaska. The goal of the project is to design a functional, easily maintained building that's appearance is in character with the residential neighborhood where it is located. The project will be constructed in two phases with the addition completed first, followed by the renovation or replacement of the existing building that houses the generator. The design will be carefully coordinated with you to meet the project requirements and will meet the 2021 International Building Code as adopted by the State of Alaska and other associated applicable codes. The architectural scope of work includes the following:

- Preliminary site visit and review of existing documents and project requirements.
- 65% design development drawing submittal.
- 95% construction drawing and specification submittal.
- 100% construction documents and permitting assistance if requested.
- Bid assistance if requested.
- Construction services (submittal review, answering contractor questions, and substantial completion inspection)

For design through construction services we propose working on an hourly basis for up to \$6,520 for the architectural tasks noted above. A detailed spreadsheet of estimated hours is attached. You will be billed each month only for time expended on the project. If the proposed services are more or less than are required for the project, please let me know and we can modify the scope of work to meet your budget. Feel free to contact me with any questions you may have regarding this proposal.

Sincerely,

Linda Millard, AIA,  
Principal, Millard + Associates Architects LLC

**Petersburg Pump Station No. 4  
Building Addition & Renovation**

Millard + Associates Architects LLC, Ketchikan  
Architectural Services Fee Proposal 3.20.2023

**Architectural Services- Design & Construction**

1. Preliminary Site Visit, Code Analysis, Project Requirements

Architect	\$ 120.00	4	\$ 480.00
Tech/Cad	\$ 85.00	0	\$ -
Clerical/Res	\$ 60.00	0	\$ -

2. Design Development Drawings 65% CD & Coordination

Architect	\$ 120.00	8	\$ 960.00
Tech/Cad	\$ 85.00	16	\$ 1,360.00
Clerical/Res	\$ 60.00	0	\$ -

3. 95% CD Construction Drawings & Specifications

Architect	\$ 120.00	6	\$ 720.00
Tech/Cad	\$ 85.00	12	\$ 1,020.00
Clerical/Res	\$ 60.00	0	\$ -

4. 100% CD Construction Documents & Permitting

Architect	\$ 120.00	2	\$ 240.00
Tech/Cad	\$ 85.00	6	\$ 510.00
Clerical/Res	\$ 60.00	0	\$ -

5. Bidding & Construction Services

Architect	\$ 120.00	6	\$ 720.00
Tech/Cad	\$ 85.00	6	\$ 510.00
Clerical/Res	\$ 60.00	0	\$ -

**\$ 6,520.00 Total**

**Total Architectural Services : \$ 6,520.00**

**Central Southeast Surveyors**  
David C. Thynes, Alaska R.P.L.S. 10390, Owner  
P.O. Box 533  
Petersburg, Alaska  
99833-0533



February 13, 2023

Tyler Bradshaw, P.E. P.N.D. Senior Engineer

Re: Pump station 4 project - lot 10 block, 234 and lots 3 & 8, block 264 minor subdivision costs proposal.

Tyler,

In regard to our email conversation last week, I have put together this cost proposal.

The following represents lump sum costs for creating the minor subdivisions of lots 10, block 234 of U.S. Survey 1252-A and lots 3 & 8, block 264 of the Northeast Subdivision Plat #69-179, Psg Rec. Dist. as shown on the attachment to the PND email sent 2/9/23.

**Lot 10 Minor Subdivision-**

**Field Work:**

- C.S.S. agrees to install four - 2" aluminum cap monuments on 36"x5/8" diam. rebar at each of the exterior corners of existing lot 10 as required by local code and two additional similar monuments marking the line separating proposed lot 10A from the remainder of the existing lot 10.
- C.S.S. anticipates 6 hours of field work for PLS in charge with one survey tech. Much of the control work is in place, this field work constitutes monument preparation and installation with some additional traversing to verify bearing base alignment.

Total Lump Sum Field Component: \$1,320.00

**Office/Admin. Work:**

C.S.S. anticipates 10 hours of office time for PLS in charge for drafting and deliverables submission, possible P&Z minor subdivision review meeting, borough and state filing. (All borough & state filing/recording/public notice fees. included.)

Total Lump Sum Office Component: \$1,697.00

**Lot 10 Minor Subdivision Lump Sum Total:** **\$3,017.00**

**Lots 3 & 8 Minor Subdivision-**

**Field Work:**

- C.S.S. agrees to install six 2” aluminum cap monuments on 36”x5/8” diam. rebar at each of the exterior corners of existing lots 3 & 8 as required by local code and three additional monuments marking the lines of subdivision of the respective lots as required by local code.
- C.S.S. anticipates 10 hours of field work for PLS in charge with one survey tech. Much of the control work is in place, this field work constitutes chainsaw brush clearing, monument preparation and installation with some additional traversing to verify bearing base alignment and stake-out control in the forested sections of the lots.

Total Lump Sum Field Component: \$2,200.00

**Office/Admin. Work:**

C.S.S. anticipates 10 hours of office time for PLS in charge for drafting and deliverables submission, possible P&Z minor subdivision review meeting, borough and state filing. (All borough & state filing/recording/public notice fees. included.)

Total Lump Sum Office Component: \$1,697.00

**Lots 3 & 8 Minor Subdivision Lump Sum Total:** **\$3,897.00**

*Note: If the Petersburg Borough opts to take care of the local filing fees and/or the District Recorder’s filing fees, C.S.S. agrees to subtract the total of those fees from this cost proposal.*

Best Regards,

Dave Thynes R.P.L.S. #10390  
Central Southeast Surveyors