

April 5, 2018

PND 162089

Chris Cotta Assistant Public Works Director Petersburg Borough P.O. Box 329 Petersburg, AK 99833

Subject: Upper Petersburg Dam Rehabilitation

Additional Services: Permitting, Design and Construction Phase

Engineering Services Fee Proposal (Revised)

Dear Chris,

Per our discussions PND Engineers Inc. (PND) is pleased to provide this proposal for additional permitting and design services as well as construction phase engineering services.

Additional permitting services were provided to respond to the questions and requests for information that the Alaska Department of Natural Resources (DNR) Dam Safety Engineer required. The permit to construct is now in-hand and other than reporting to DNR the permitting process should be complete.

Additional design was needed as the replacement of the top spillway wall was found in poor condition and Petersburg Borough asked that it be replaced. PND provided that additional design service.

Construction phase services are to include:

- 1) Attending the pre-construction meeting,
- 2) Training Petersburg Borough inspector for concrete sampling and testing,
- 3) Reviewing submittals,
- 4) Responding to contractor requests for information,
- 5) Performing milestone inspections including substantial completion,
- 6) Reviewing pay requests, and
- 7) Preparing record as-built drawings.

PND is to work with the Petersburg Borough on-site inspector who will be performing daily inspections at the dam site per the DNR permits. The Borough inspector will be taking concrete samples and sending concrete to a lab for testing. Sampling and testing costs are not included in PND's proposal.

Upper Petersburg Dam Rehabilitation Additional Services: Permitting, Design and Construction Phase Engineering Services Fee Proposal (Revised) April 5, 2018

PND proposes to provide all the above outlined services on a time and expenses basis. We estimate our time fees to be as follows:

Additional Design \$ 2,140 Additional Permitting Services \$ 4,480 Construction Services \$29,996

Detailed breakdowns of this amounts are attached. We will invoice our time monthly in accordance with our attached rate schedule and our expenses at cost plus 10 percent.

Hopefully, this suits your needs. If you have questions or need additional information, please feel free to contact me.

Sincerely,

PND Engineers Inc. | Juneau Office

Chris Gianotti, P.E.

Senior Engineer, Vice President

Chris Frank

### February 21, 2018

# PND Engineers, Inc.

Petersburg Upper Dam Concrete Spillway Rehabilitation Additional Services - Permitting and Design (Revised) PND Project No. 162089.02

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	Engineer	Engineer Engineer VI Engineer I	Engineer I	>	Engineer V	V Engineer V Engineer IV Designer V	Designer V	>	Costs	Costs
	\$190.00	\$175.00	\$120.00	5115	6115.00	6110.00	640200	6445.00		
	000000	OWNELLS.	00.0219	2115.00	9113.00	\$110.00	\$105.00	3115.00		
ANTICI	ANTICIPATED TASKS	KS.								
1. Additional Design	2			8			∞	-	\$2,140	\$2,140
2. Additional Permitting	12					20			\$4 480	S4 480
Total Estimated Manhours	14			-00		20	00			
Estimated Third Party Expenses										
Administrative Fee	10% admin n	10% admin markup on third party expenses	party expense							
			The second second							

\$6,620

Total Additional Engineering Design and Permitting Fees

# Petersburg Upper Dam Concrete Spillway Rehabilitation Construction Phase Services PND Project No. 162089.02

PND Engineers, Inc.



Eligence	Scope of Services	PND Senior	- PND Sonior		DND Toch	DNID Smff	DNID Conff	CAD	DAILY TELL	1 1.	
ANTICIPATED TASKS    16		Engineer VII	Engineer VI		Λ	Engineer V	Engineer IV	Designer V	V V	Costs	Lask Subtotal Costs
ANTICIPATED TASKS    16		\$190.00	\$165.00	\$130.00	\$110.00	\$115.00	6110.00	6405.00	6445.00		
ANTICIPATED TASKS    16		000000	410000	OVEREN	9110.00	00.6115	9110.00	\$105.00	00.011\$		
16   18   18   18   18   18   18   18		ANTICIPATED TA	SKS								
S   S   S   S   S   S   S   S   S   S	1. Preconstruction Meeting	16								83.040	83.040
1   18   2   2   5420   1   1   19   19   2   5420   1   1   19   19   2   5420   1   1   19   19   19   19   19   19	2. Weekly Progress Meetings by Telephone	80								\$1.500	010600
1   2   2   5420   1   4   4   5650   1   1   4   5650   1   1   4   5650   1   1   4   5650   1   1   4   5650   1   1   4   5650   1   1   7   7   7   7   7   7   7   7	3. Concrete Inspector Training			- 18						077.16	
1   2   2   5420   1   1   1   2   5420   1   1   1   1   5   5   5   5   5   5	4. Submittal Reviews										
1   1   4   5   5   5   5   5   5   5   5   5	Construction Schedule	1				0				0013	
1   1   1   1   1   1   1   1   1   1	Erosion and Sediment Control					1 4				0246	
1   1   2   550	Work Pad and By Pass Plan	1				4				0505	
1   1   4   4   8   8   8   8   8   8   8   8	Concrete Mix Design	1				c				\$420	
1   1   2   8430   2   8430   8   8   8   8430   8   8   8   8430   9   8430   16   16   81,760   16   16   81,760   17   18   18   14   12   81,400   17   18   18   14   14   15   81,400   17   18   18   18   18   18   18   18	Concrete Reinforcment	-				1 4				0278	
1   1   2   2   54200   2   1   6   6   6   54300   3   3   3   6   6   6   6   6   6   6	Curved Concrete Formwork	-				1				0505	
Sample   S	Structural Steel Shop Drawings	-								OCAS	020 63
removal started	5. Responding to Contractor Requests for Information	000				1 1				3420	000,00
16   16   16   17,00	6. Milestone Inspections									nortee	
16   16   16   15   17,00     16   16   16   17,00     17   16   17   17     18   14   12   14     19   18   14   15     19   19   19   19     19   19   19	By Pass and Work Pad in Place - Concrete removal started				16					61 760	
crete placement         16         8         17,00           placement         16         8         17,00           4         8         24         84,160           51,000         8         24         84,160           61         18         74         42         82,00           7 RT at         \$415         per trip         \$2,905           13 days @         \$200         per day         \$1,400           13 days @         \$14         per day         \$1,400           10% admin markup on third party expenses         \$700         \$700	Concrete removal complete, concrete rebar embedment in progress				16					\$1,760	
16   16   16   17   18   19   19   19   19   19   19   19	Face Matt in place - initial spillway face concrete placment				16					\$1,760	
16   2   4   8   51,060     4   8   74   42   54,160     5   13 days @ \$200   per day   \$1,400     13 days @ \$200   per day   \$1,400     14   18   74   42   24   \$1,400     15 days @ \$200   per day   \$1,400     15 days @ \$14   per day   \$1,400     16 days @ \$14   per day   \$1,400     17 days @ \$14   per day   \$1,400     18 days @ \$14   per day   \$1,400     19 days @ \$14   per day   \$1,400     10 days @ \$14   per day   \$1,400     11 days @ \$14   per day   \$1,400     12 days @ \$14   per day   \$1,400     13 days @ \$14   per day   \$1,400     14   per day   \$1,400     15 days @ \$14   per day   \$1,400     16 days @ \$16   per day   \$1,400     17 days @ \$16   per day   \$1,400     18 days @ \$16   per day   \$1,400     19 days @ \$16   per day   \$1,400     10 days @ \$16   per day   \$1,400     11 days @ \$16   per day   \$1,400     12 days @ \$16   per day   \$1,400     13 days @ \$16   per day   \$1,400     14 days @ \$16   per day   \$1,400     15 days @ \$16   per day   \$1,400     16 days @ \$16   per day   \$1,400     17 days @ \$17   per day   \$1,400     18 days @ \$17   per day   \$1,400     19 days @ \$17   per day   \$1,400     10 days @ \$17   per day   \$1,400     10 days @ \$10   per day   \$1,400     10 days @ \$1,400   per day   \$1,400	Spillway top wall reinforcment and concrete placement				16					\$1.760	\$7,040
2   4   8   4   54,160	7. Substantial Completion Inspection	16								83.040	\$3,040
4   8   24   84,100     61   18   74   42   24   84,100     7 RT at \$415 per trip   \$2,905     13 days @ \$200 per day   \$1,400     13 days @ \$200 per day   \$1,400     14   54,100   \$1,400     15 days @ \$200 per day   \$1,400     15 days @ \$14 per day   \$1,400     16 days @ \$14 per day   \$1,812     16 days @ \$14 per day   \$1,812     17 days @ \$14 per day   \$1,812     18 days @ \$14 per day   \$1,812     19 days @ \$14 per day   \$1,812     10 days @	8. Pay Request Review	5			2	4				\$1,060	\$1,040
61   18   74   42   24     \$2,905	9. As Built Plans - Recod Documents	+			80			24		\$4,160	\$4.160
61   18   74   42   24   S2,005     7   RT at											
7 RT at     \$415 per trip     \$2,905       13 days @     \$200 per day     \$2,600       7 days @     \$20 per day     \$1,400       13 days @     \$14 per day     \$182       10% admin markup on third party expenses     \$700	Total Estimated Manhours	19		18	74	42		24			
7 RT at     \$415 per tap     \$2,905       13 days @     \$200 per day     \$2,600       7 days @     \$200 per day     \$1,400       13 days @     \$14 per day     \$1,82       10% admin markup on third party expenses     \$700	Estimated Third Party Expenses										
13 days @ \$200 per day \$2,500 7 days @ \$200 per day \$1,400 13 days @ \$14 per day \$1,400 10% admin markup on third party expenses	Airfare		7 RT at	\$415	nerton					200 03	
13 days @ \$200 per day \$2,600 13 days @ \$14 per day \$1,400 10% admin markup on third party expenses	Car Rental	13	dome @	0003	1					\$2,900	
13 days @ \$200 per day \$1,400 13 days @ \$14 per day \$182		100	nays (a)	9200	per day					\$2,600	
13 days @ \$14 per day \$182	Perdiem		days @	\$200	per day					\$1,400	
10% admin markup on third party expenses	Airport Parking	13	days @	\$14	per day					\$182	
10% admin markup on third party expenses											
10% admin markup on third party expenses	Concrete Sampling and Testing: Not included										
	Administrative Fee	10% admin r	narkup on third	party expenses	00					8700	962 28

Total Construction Phase Engineering Fees

\$29,996



## PND ENGINEERS, INC. STANDARD RATE SCHEDULE EFFECTIVE MAY 2017 EFFECTIVE UNTIL MAY 2018

		Hourly Rate
Professional:	Senior Engineer VII	\$190.00
M	Senior Engineer VI	\$175.00
	Senior Engineer V	\$160.00
	Senior Engineer IV	\$150.00
	Senior Engineer III	\$140.00
	Senior Engineer II	\$130.00
	Senior Engineer I	\$120.00
	Staff Engineer V	\$115.00
	Staff Engineer IV	\$110.00
	Staff Engineer III	\$105.00
	Staff Engineer II	\$95.00
	Staff Engineer I	\$90.00
	Environmental Scientist VI	\$170.00
	Environmental Scientist V	\$155.00
	Environmental Scientist IV	\$140.00
	Environmental Scientist III	\$125.00
	Environmental Scientist II	\$110.00
	Environmental Scientist I	\$95.00
	GIS Specialist	\$95.00
Surveyors:	Senior Land Surveyor III	\$125.00
	Senior Land Surveyor II	\$115.00
	Senior Land Surveyor I	\$105.00
Technicians:	Technician VI	\$130.00
	Technician V	\$115.00
	Technician IV	\$95.00
	Technician III	\$85.00
	Technician II	\$75.00
	Technician I	\$50.00
	CAD Designer VI	\$115.00
	CAD Designer V	\$105.00
	CAD Designer IV	\$90.00
	CAD Designer III	\$75.00