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ENGINEERS, INC.

September 9, 2013 PND 092072.05

Glorianne Wollen
Harbormaster
Petersburg Borough
P.O. Box 329
Haines, Alaska 99833

Re: Petersburg Drive Down Facility
95% Design Review Submittal

Dear Ms. Wollen:

Enclosed please find twelve sets of the 95% design review submittal for the Petersburg Drive Down Facility (DDF) project for the Borough's review and comment. This submittal contains final design plans, technical specifications, geotechnical report, project schedule and an updated cost estimate at 95% design completion. These documents are intended for the Borough's final review prior to advertising for construction bids in October as originally intended.

Based on the instructions we received from the Borough at 65% design review, PND has developed the bid documents to include a Base Bid and seven additive alternates to allow the Borough award flexibility at bid time. The attached cost estimate provides the breakdown in scope for the various bid items.

PND appreciates the detailed input we have received throughout the design process to formulate a final plan and scope of improvements that best meets the community's needs while remaining within the Borough's budget. We look forward to meeting with Borough staff and the Harbor Board on September 13, 2013 to review this submittal and receive any final directions before preparing the bid ready documents.

Sincerely,
PND Engineers, Inc. | Juneau Office

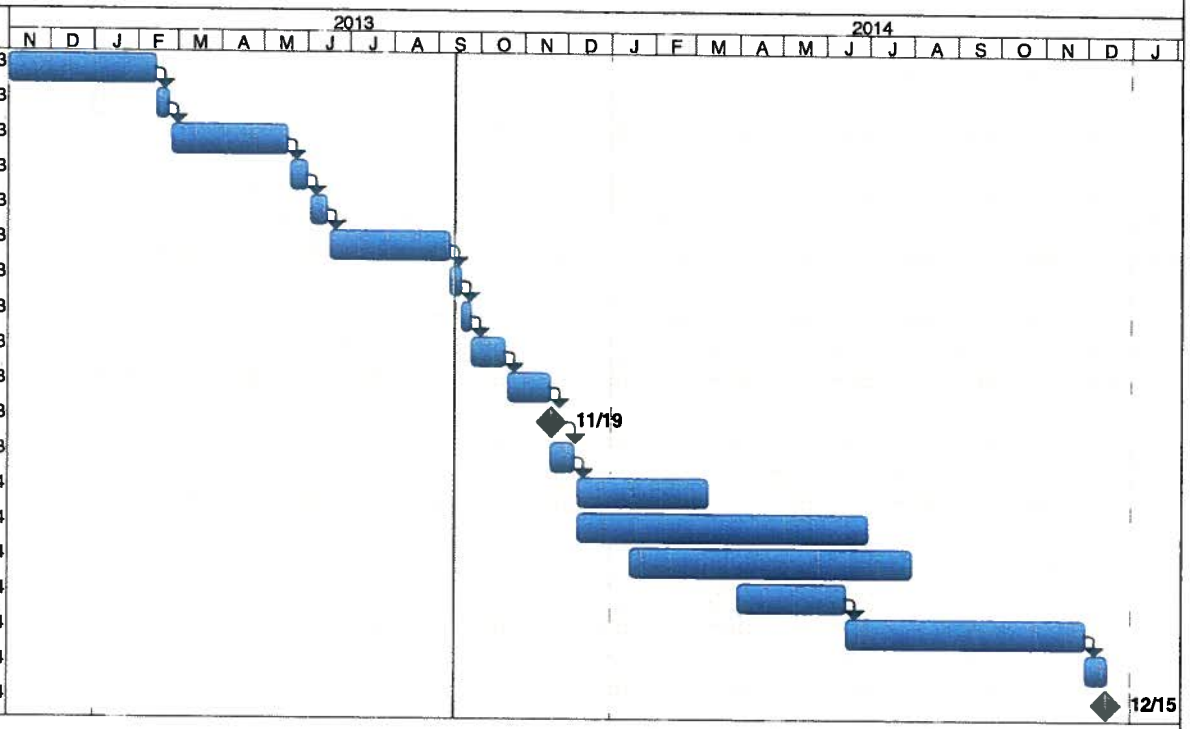
Dick Somerville, P.E.
Vice President

Enclosures

9360 GLACIER HIGHWAY, SUITE 100 · JUNEAU, ALASKA 99801 · Phone 907.586.2093 · Fax 907.586.2099

PETERSBURG DRIVE DOWN FACILITY
DESIGN & CONSTRUCTION SCHEDULE

ID	Task Name	Start	Finish
1	PND 35% Preliminary Design Submittal	Fri 11/2/12	Wed 2/13/13
2	Work Session & City Review 35% Design Submittal	Thu 2/14/13	Fri 2/22/13
3	PND 65% Design Development Submittal	Mon 2/25/13	Fri 5/17/13
4	PB Review 65% Design Submittal	Mon 5/20/13	Fri 5/31/13
5	Work Session with Harbor Board	Mon 6/3/13	Fri 6/14/13
6	PND 95% Design Submittal	Mon 6/17/13	Mon 9/9/13
7	PB Review 95% Design Submittal	Tue 9/10/13	Tue 9/17/13
8	Work Session with Harbor Board	Wed 9/18/13	Tue 9/24/13
9	Prepare Final Bid Ready Contract Docs	Wed 9/25/13	Fri 10/18/13
10	Bid Advertising Period	Mon 10/21/13	Tue 11/19/13
11	Bid Opening - Begin Construction Phase	Tue 11/19/13	Tue 11/19/13
12	Council Award, Contract & NTP	Wed 11/20/13	Fri 12/6/13
13	Submittals & Material Procurement	Mon 12/9/13	Mon 3/10/14
14	Uplands Site Development	Mon 12/9/13	Mon 6/30/14
15	Fabrication & Delivery of Floats, Bridge & Piles	Wed 1/15/14	Thu 7/31/14
16	In Water Work Restrictions	Tue 4/1/14	Sun 6/15/14
17	Construct Marine Structures	Mon 6/16/14	Sun 11/30/14
18	Punch Lists & Final Contract Completion	Mon 12/1/14	Mon 12/15/14
19	Project Complete	Mon 12/15/14	Mon 12/15/14



Proposal: PND No. 092072
September 12, 2013

Task		External Tasks		Manual Task		Finish-only	
Split		External Milestone		Duration-only		Progress	
Milestone		Inactive Task		Manual Summary Rollup		Deadline	
Summary		Inactive Milestone		Manual Summary			
Project Summary		Inactive Summary		Start-only			

PETERSBURG DRIVE DOWN FACILITY
Cost Estimate at 95% Design - September 9, 2013
PND Engineers, Inc.
Project No. 092072.05

Base Bid:

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Reqd	8.0%	$660,800
2060.1	Demolition and Disposal	LS	All Reqd	$175,000	$175,000
2200.1	Leveling Course	CY	1,200	$30	$36,000
2200.2	Geotextile Fabric	SY	6,000	$4	$24,000
2200.3	12-Inch CPEP-S Pipe Culvert	LF	100	$40	$4,000
2200.4	Oil Water Separator	EA	1	$15,000	$15,000
2200.5	Storm Drain Outlet Structure	EA	1	$15,000	$15,000
2200.6	Concrete Area Drain	EA	2	$2,000	$4,000
2200.7	Concrete Sidewalk, Curb and Gutter Replacement	LS	All Reqd	$10,000	$10,000
2202.1	Class A Shot Rock Borrow	CY	1,000	$20	$20,000
2202.2	Class B Shot Rock Borrow	CY	38,000	$15	$570,000
2205.1	Armor Rock	CY	7,000	$30	$210,000
2205.2	Shoulder Barrier Rocks	LF	710	$40	$28,400
2601.1	6 Inch DIP Water Pipe	LF	785	$65	$51,025
2603.1	Fire Hydrant	EA	1	$6,000	$6,000
2603.2	Post Hydrant Assembly	EA	1	$3,000	$3,000
2702.1	Construction Survey Measurement	LS	All Reqd	$40,000	$40,000
2718.1	Sign Assembly	LS	All Reqd	$2,500	$2,500
2726.1	Approach Dock	LS	All Reqd	$1,300,000	$1,300,000
2882.1	Silt Containment Boom	LS	All Reqd	$30,000	$30,000
2894.1	Transfer Bridge	LS	All Reqd	$850,000	$850,000
2894.2	Bridge Support Float	LS	All Reqd	$175,000	$175,000
2896.1	Float Mooring Vertical Pile, 24" Dia. X 0.500" Thick	EA	14	$18,000	$252,000
2896.2	Float Mooring Batter Pile, 24" Dia. X 0.500" Thick	EA	2	$20,000	$40,000
2896.3	Float Mooring Pile Frames	LS	All Reqd	$275,000	$275,000
2896.4	Approach Dock Vertical Pile, 16" Dia. X 0.500" Thick	EA	17	$12,000	$204,000
2896.5	Approach Dock Batter Pile, 16" Dia. X 0.500" Thick	EA	9	$13,000	$117,000
2896.6	Bridge Abutment Vertical Pile, 16" Dia. X 0.500" Thick	EA	2	$12,000	$24,000
2896.7	Bridge Abutment Batter Pile, 16" Dia. X 0.500" Thick	EA	3	$13,000	$39,000
2896.8	Bridge Abutment Assembly	LS	All Reqd	$60,000	$60,000
2897.1	Drive Down Float	LS	All Reqd	$3,550,000	$3,550,000
2902.1	Float Transition Apron	LS	All Reqd	$90,000	$90,000
3305.1	Approach Dock Backwall	LS	All Reqd	$40,000	$40,000
	ESTIMATED CONSTRUCTION BID PRICE - BASE BID				**$8,920,725**
	CONTINGENCY (5%)				**$446,036**
	SURVEY & GEOTECHNICAL INVESTIGATION				**$75,000**
	ENVIRONMENTAL PERMITS				**$75,000**
	COMPENSATORY MITIGATION				**$50,000**
	FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS				**$660,000**
	CONTRACT ADMIN & CONSTRUCTION INSPECTION (7%)				**$624,451**
	TOTAL RECOMMENDED PROJECT BUDGET - BASE BID				**$10,851,212**

Additive Alternate 1:

Item	Item Description	Units	Quantity	Unit Cost	Amount
2896.9-1	Float Corner Pile	EA	2	$35,000	$70,000
	ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 1				**$70,000**
	CONTINGENCY (5%)				**$3,500**
	CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)				**$4,900**
	TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 1				**$78,400**

Minutes from Petersburg Harbor and Ports Advisory Board Regular meeting, held Friday, September 13th at 6:30 pm in the old Library site of the Municipal Building.

1. ROLL CALL The meeting was called to order by Chairman Bangs at 6:35 pm in the old Library site. Present: Chairman Bangs; Board Members Thynes, Reid, Martin, Dolan, Quitslund. Absent: Board Member Pfundt and Assembly liason Wohlheuter.
   Guests in attendance: Jan & Kathy Paulson with Western Dock and Bridge (North Harbor Contractors) and presenters Engineers Dick Somerville with PND, Mark Morris & Brad Dybdahl with Morris Electric Group (MEG).

2. APPROVAL OF THE MINUTES Minutes of the June 12, 2013 Regular meeting were approved, as submitted.

3. AMENDMENT & APPROVAL OF MEETING AGENDA The agenda was approved with no changes.

4. VISITORS VIEWS RELATED TO AGENDA None

5. VISITORS VIEWS RELATED TO AGENDA None

6. HARBOR MASTER REPORT Harbormaster Wollen reviewed her written summer report. The report is attached and made a permanent part of these minutes.

7. UNFINISHED BUSINESS None

8. NEW BUSINESS
   A. Drive Down Facility Project: The 95% Project Review was presented by Dick Somerville (structural) and Mark Morris (electrical) that included design & construction schedule; cost estimate that included a Total Recommended Project Budget – Base Bid $10,851,212 as well as seven additive alternatives to allow the Borough award flexibility at bid time.
   They include:
   Additive Alt 1: Float Corner Pile - $78,400
   Additive Alt 2: Lighting & Electrical Conduits on Approach Dock & Bridge - $312,800
   Additive Alt 3: Electrical Power Equipment & Pedestals - $172,480
   Additive Alt 4: Seasonal Water Service to Float - $61,600
   Additive Alt 5: Lighting in the Uplands - $246,400
   Additive Alt 6: Supply & Install Anodes - $128,296
   Additive Alt 7: Increase Approach Dock width to 28 ft - $72,800

PND and Advisory Board reviewed design plans and details with no changes or modifications made. **It was by unanimous vote, the Board recommended the assembly allow PND to move the project forward in preparing final bid ready contract documents and open project for bid as schedule outlines.**

B. Crane Dock Widening Project Review: The project review was presented by Dick Somerville (structural) with PND and Mark Morris (electrical) with Morris Electric, mentioning that this project was not at the 95% review stage due to questions concerning construction schedule and Additive Alternate A – Removal and replacement of Access Ladders. PND and the Advisory Board reviewed design plans and details as well as cost estimate. Discussion occurred concerning design and construction schedule after decision was made bid this project separate from the Drive Down Facility project. Harbormaster Wollen advised the group that optimal construction time frame for this project would be October2014 to end of January 2015. Group discussion occurred considering the replacement of the access ladders with PND requesting user input on upper handrail design. The Advisory Board will work to consider the possible design style vs user activity at that facility. Mr. Somerville felt there was plenty of time as the bid ready documents will not need to be prepared until sometime later this winter.

9. COMMUNICATIONS None

10. BOARD DISCUSSION ITEMS: Harbormaster Wollen informed the Advisory Board that the Borough Assembly will discuss retaining the Harbor Advisory Board at their Oct 7th meeting. She mentioned that she will be advocating for retaining the Board and invited Board member to join in testifying as well.

11. ADJOURN The meeting adjourned at 10:20 p.m.

Date Approved _____