



MEMORANDUM

TO: Kabetogama Town Board Members

FROM: Sara Lindberg & Colin Marcusen
Project Engineers

DATE: July 19, 2013

RE: Puck's Point SSD Engineering Updates
SEH No. KABET 119468 14

This memo shall serve to provide you with updates on the PPSSD engineering items for the regular meeting on July 2, 2013 which has been postponed till July 23, 2013.

Project Costs

Discussion:

The overall estimate of project costs is \$2,366,100, not including land acquisition costs. Although the DNR has given us estimates of leasing amounts for the land needed for dispersal, they could not give us a final cost on the land at this time. The land that the DNR controls in that area is trust fund land, and therefore the land cannot actually be sold. It has to be either auctioned or leased. The current design requires roughly 12 acres of the land controlled by the DNR. The DNR has an obligation to the trustees to maximize the value of the land. Right now, that means that the land can be leased annually for no less than 7.25% of the land value. If we assume the land value to be \$3,000/acre, the lease will be \$2610 annually or approximately \$50,000 over 20 years. They said that if we are looking at grant funds or a low interest loan, the 20 years of lease payments could be made up front, which is great news for us. Once the mound designs have progressed further, land acquisition discussions will continue with the DNR. These discussions have been scheduled to continue.

Funding

Discussion:

The PFA Point Source Program application was submitted and it secured \$245,000 in grant money. A \$389,211 loan at 1% over 20 years and a \$1,531,889 grant was secured through the Small Communities Program. The numbers have been given to the project's financial advisor, Scott Harder, who is preparing the new funding and rate structure analysis.

Schedule

Discussion:

As agreed upon by council, once over half of the project expenses have been secured the project would then advance into the bidding and construction phases. Please see the attached Preliminary Project Schedule for the timeframe of the project.

Recommendations:

Accept the Preliminary Project Schedule.

If you have any questions regarding these items, please do not hesitate to contact either of us.

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Cc: Mary Manninen, Township Clerk and Jill Kiner, Township Treasurer
Enc: Probable Costs, Preliminary Project Schedule



Opinion of Probable Cost

NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	CAPITAL COST
STEP COLLECTION SYSTEM					
1	STEP SYSTEM 1000 Gallon	EA	12	\$8,000.00	\$96,000.00
2	STEP SYSTEM 1500 Gallon	EA	12	\$10,000.00	\$120,000.00
3	LATERAL ASSEMBLY	EA	24	\$1,000.00	\$24,000.00
4	RESIDENTIAL LIFT STATION	EA	5	\$2,500.00	\$12,500.00
5	3" INSULATED FORCEMAIN PIPE (6' DEPTH)	LF	1450	\$30.00	\$43,500.00
6	3" INSULATED FORCEMAIN PIPE (3' DEPTH)	LF	810	\$30.00	\$24,300.00
7	1 1/2" PE FORCE MAIN (INSULATED 1'-2' DEPTH)	LF	2100	\$20.00	\$42,000.00
8	3" HDPE FORCEMAIN	LF	1550	\$20.00	\$31,000.00
9	RESIDENTIAL LIFT STATION SERVICE PIPE (TRENCHED)	LF	500	\$10.00	\$5,000.00
10	4" PVC GRAVITY SERVICE PIPE	LF	750	\$18.00	\$13,500.00
11	1 1/4" HDPE SERVICE (DIRECTIONALLY DRILLED - SOIL)	LF	840	\$20.00	\$16,800.00
12	1 1/4" HDPE SERVICE (DIRECTIONALLY DRILLED - ROCK)	LF	1125	\$130.00	\$146,250.00
13	FORCE MAIN FLUSHING CONNECTION	EA	4	\$1,200.00	\$4,800.00
14	AIR RELEASE MANHOLE	EA	2	\$5,000.00	\$10,000.00
15	STREET RESTORATION - GRAVEL	CY	800	\$30.00	\$24,000.00
16	ROCK EXCAVATION (STEP) (EV)	CY	825	\$120.00	\$99,000.00
17	ROCK EXCAVATION (PIPE) (EV)	CY	450	\$100.00	\$45,000.00
18	COMMON BORROW	CY	2073	\$8.00	\$16,584.00
19	EROSION CONTROL AND TURF RESTORATION	LS	1	\$20,000.00	\$20,000.00
WASTEWATER TREATMENT AND DISPERSAL SYSTEM					
20	MOBILIZATION	LS	1	\$50,000.00	\$50,000.00
21	CLEAR AND GRUB	AC	2	\$10,000.00	\$20,000.00
22	PRECAST EQUALIZATION AND TREATMENT TANKS	LS	1	\$200,000.00	\$200,000.00
23	AEROBIC TREATMENT AND NITROGEN REMOVAL EQUIP.	LS	1	\$320,000.00	\$320,000.00
24	CHEMICAL AND CONTROL BUILDING	EA	1	\$25,000.00	\$25,000.00
25	ROCK EXCAVATION FOR TREATMENT TANKS	CY	500	\$120.00	\$60,000.00
26	ACCESS ROAD AND PARKING AREA - GRAVEL	CY	200	\$30.00	\$6,000.00
27	FLOW METERING MANHOLE - INCLUDES METER	EA	1	\$12,000.00	\$12,000.00
28	SITE FENCING - 6-FOOT CHAIN LINK	LF	500	\$25.00	\$12,500.00
29	SITE ELECTRICAL SERVICE	LS	1	\$5,000.00	\$5,000.00
30	3" INSULATED DISTRIBUTION FORCEMAIN - 3' DEPTH	LF	2650	\$30.00	\$79,500.00
31	2" DISTRIBUTION PIPING	LF	2250	\$8.00	\$18,000.00
32	MOUND DISTRIBUTION CHAMBERS	EA	225	\$28.00	\$6,300.00
33	GRANULAR BORROW - MOUNDS	CY	3500	\$18.00	\$63,000.00
34	TOPSOIL BORROW - MOUNDS	CY	1000	\$15.00	\$15,000.00
35	EROSION CONTROL AND TURF ESTABLISHMENT	SY	9000	\$2.50	\$22,500.00
Subtotal					\$1,709,100.00
Contingency (10%):					\$171,000.00
Engineering (Design, Bidding):					\$248,000.00
Engineering (Construction Admin):					\$170,000.00
Legal and Administrative (2%):					\$34,000.00
Bonding and Insurance (2%):					\$34,000.00
TOTAL:					\$2,366,100.00

NOTE: LAND ACQUISITION COSTS NOT INCLUDED

