Agenda Item: 11.

MEMORANDUM

TO:

Programs, Projects and Operations Subcommittee

FROM:

Martin P. Cleveland, Construction Engineer

SUBJECT:

Whitted Creek Refinement Project

DATE:

June 30, 2016

The Whitted Creek Refinement Project is located in Sarpy County, Nebraska, southeast of 25th Street and Capehart Rd, as shown on the enclosed location map. The Whitted Creek Project between 25th Street and Papio Creek Confluence was rehabilitated in 2009 and utilized bioengineering and installation of 14 cross vane structures with about 2 ft. of vertical drop per location to slowly transition the grade of the previously severely degraded streambed in order to protect the integrity of the Whitted Creek Levee located adjacent to the creek. As a result of high water events and creek erosion since 2009, there is a need to repair 3 locations. The Refinement Project consists of replacing 120 linear feet of eroded soil riprap and repairing two cross vanes that have deteriorated due to erosion.

On June 30 2016, the District opened bids for the Whitted Creek Refinement Project. The two bids ranged from \$70,331.33 to \$85,110. The apparent low bid of \$70,331.33 was submitted by Valley Corporation, Inc. Enclosed is a bid summary.

The Engineer's cost estimate for the Whitted Creek Refinement Project, prepared by CH2M Engineering, is \$43,530.64. Enclosed is the engineer's bid recommendation letter.

Management recommends that the Programs, Projects and Operations Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a contract with Valley Corporation, Inc. for the amount of \$70,331.33 for the construction of the Whitted Creek Refinement Project.

Whitted creek refinement project - PPO memo June 2016 file 529

Summary of Bid Proposals

Project: Opening Date:

Whitted Creek Refinement Project June 30, 2016

NRD Project No. 529 Opening Time: 10:00 a.m.

	BIDDERS:			Niew Const	Niewohner Construction	Valley	Valley Corp.	Engineer'	Engineer's Estimate
Item No.	Description	Estimated Quantity	Unit	Bid Unit Price	Extended Unit Price	Bid Unit Price	Extended Unit Price	Bid Unit Price	Extended Unit Price
-	MOBILIZATION/DEMOBILIZATION, BONDS, AND INSURANCE		LS	12000	12000	6998.58	6998.58	2590	2590
2	STREAM FLOW TEMPORARY BY-PASS PUMPING AND DEWATERING	-	LS	4000	4000	15980.56	15980.56	6370	6370
3	CONSTRUCT GROUTED TYPE C RIP-RAP (CROSS VANE INFILL)	79	TON	250	19750	163.61	12925.19	62.79	4960.41
4	CONSTRUCT SOIL RIP-RAP (TYPE B)	09	LF	150	0006	110.25	6615.00	105.70	6341.79
5	CONSTRUCT SOIL RIP-RAP (TYPE C)	09	LF	150	0006	126.77	7606.20	188.69	11321.30
9	INSTALL COIR WOVEN FABRIC	423	SY	18.00	7614	96.8	3790.08	7.58	3206.34
7	INSTALL ROLLED EROSION CONTROL	673	SY	8.00	5384	3.51	2362.23	2.73	1837.29
∞	INSTALL COIR LOG	150	LF	12.50	1875	8.96	1344.00	14.06	2109.00
6	INSTALL NATIVE GRASS SEED – WETLAND MIX	196	SY	10.00	1960	7.47	1464.12	1.75	343.00
10	INSTALL NATIVE GRASS SEED MIX – LEVEE SEED MIX	387	SY	9.00	3483	5.97	2310.39	1.75	677.25
11	EXCAVATION HAUL-OFF	73	CY	28.00	2044	15.58	1137.34	21.69	1583.37
12	IMPORTED FILL PROCUREMENT	0	CY	25.00	¥	18.56	0	24.26	i
13	REMOVE & CONSTRUCT CONCRETE CREST STONE	1	rs	0006	9000	7797.64	7797.64	2190.89	2190.89
14	BID BOND (Y OR N)			Y		Y			
15	ADDENDUM #1 (Y OR N)			Y		Ā			
3				TOTAL	85,110		70,331.33		43,530.64

**Management Recommendation: Valley Corporation MC:pb file 529 Reach 8-22



CH2M HILL 222 South 15th Street Suite 1402 S Ornaha, NE 68102 Tel 402-609-7530

July 6, 2016

Mr. Martin Cleveland Construction Engineer Papio-Missouri River Natural Resources District 8901 South 154th Street Omaha, Nebraska 68138

Subject: Whitted Creek Refinement Project - Bid Proposal Recommendation

Dear Mr. Cleveland:

The two bid proposals received from Niewohner and Valley Corporation associated with the Whitted Creek Refinement Project were both greater the Engineers estimate of \$43,531 (Niewohner Construction - \$85,110; Valley Corporation - \$70,331). The disparity in the bid proposals compared to the engineer's estimate appear to be associated to several factors including the small scale of the project, elevated risk of doing work in a perennial stream and controlling flows, and the current construction market. These factors exist when estimating costs for any project, however can be magnified with smaller construction projects.

Upon review of the bid proposals and discussions with local contractors it is my recommendation that Valley Corporation be awarded the Whitted Creek Refinement Project. This recommendation is based upon on the fact that the proposed project includes maintenance and repair along previously restored Whitted Creek in which the NRD has invested time and money to stabilize, and timely repair of these proposed areas, along with monitoring of the creek, can prevent more costly repairs in the future. It is acknowledged that the project could be delayed to potentially save costs, however given the current construction market, scale of the project, and risk associated with doing stream work the proposed bids appear to be fair market value.

We at CH2M are excited about the opportunity to continue to contribute to the Whitted Creek Project. Should you have questions regarding the details of our recommendation, please do not hesitate to contact me at 402-609-7538 or Emily Holtzclaw at 402-609-7510.

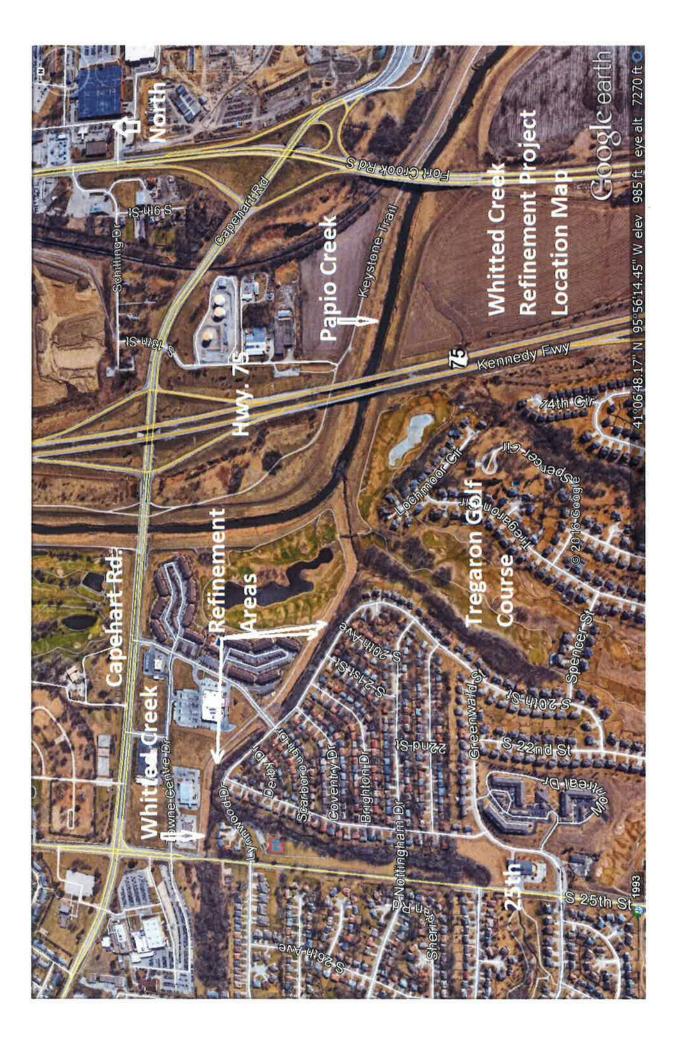
Sincerely.

Nick Sutko, P.E.

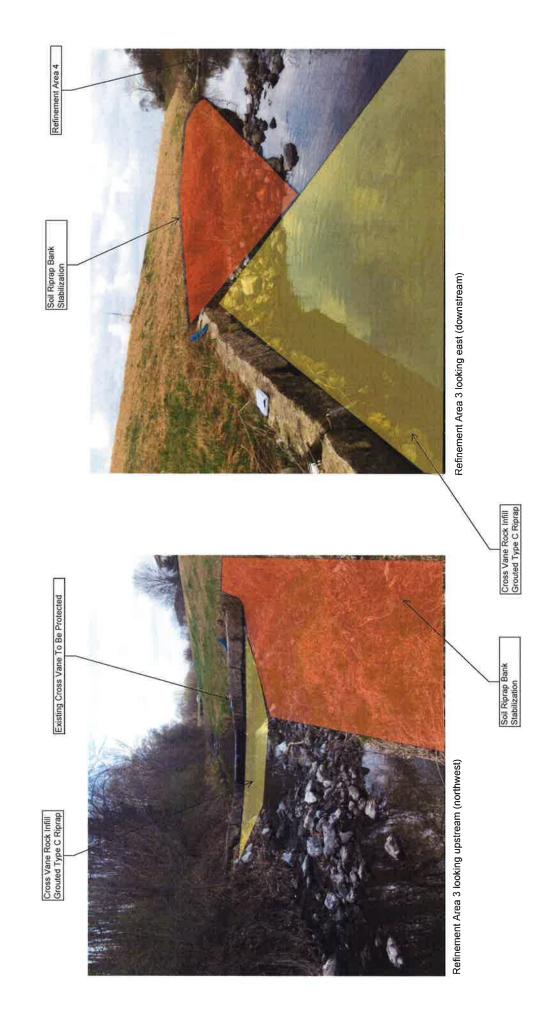
Mid Sutter

Attachment - Summary of Bid Proposals

JUL - 6 2016











Remove Existing Crest Stones and Construct Concrete Cap

Refinement Area 4 looking southwest

