Agenda Item: 6.

## **MEMORANDUM**

**To**: Programs, Projects and Operations Subcommittee

From: Amanda Grint, Water Resources Engineer

**Date**: January 29, 2018

**Re**: Review and Recommendation of Construction Bids for Zorinsky Basin 2 Project

On January 26, 2018, bids were opened for the construction of the Zorinsky Basin 2 project. The last of the planned water quality basins for Zorinsky Lake. A copy of the bid tabulation is attached along with the recommendation letter from HDR Engineering, Inc.

The ZB2 project is a water quality project located near 204<sup>th</sup> and F Streets in Douglas County. The project includes the construction of an earthen embankment with concrete weir structure and associated work.

Five bids were received and the range of bids was \$4,254,983.97 to \$6,518,740.55. The engineers estimate for the construction of ZB2 and associated improvements is \$3,807,700. HDR has reviewed the work history for the contractor and subcontractors and has verified that they are able to construct the project according to specifications. The tree clearing is expected to begin on or before March 1, 2018 and the completion is scheduled for December 2019.

Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute a contract with Valley Corporation Inc., for the construction of the ZB2 project for the bid amount of \$4,254,983.97, subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.



BID TABULATION Zorinsky Water Quality Basin No. 2 Dam Project Papio-Missouri River NRD Douglas County, NE



Bid Opening: January 26, 2018

Page 1 of 1

															Page 1 of 1
		Engineer's Estimate		Valley Corporation		Blade Masters		Sibbernsen		Hawkins		McArdle Grading			
Item No	ITEM	UNIT	QTY.	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
1	Mobilization/Demobilization	1	LS	\$325,000.00	\$325,000.00	\$194,877.26	\$194,877.26	\$330,000.00	\$330,000.00	\$150,000.00	\$150,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.0
2	Construction Survey	1	LS	\$35,000.00	\$35,000.00	\$12,892.32	\$12,892.32	\$65,000.00	\$65,000.00	\$100,000.00	\$100,000.00	\$61,599.78	\$61,599.78	\$50,000.00	\$50,000.0
3	Construction Quality Control Material Testing	1	LS	\$40,000.00	\$40,000.00	\$23,797.94	\$23,797.94	\$50,000.00	\$50,000.00	\$100,000.00	\$100,000.00	\$52,915.30	\$52,915.30	\$50,000.00	\$50,000.0
4	Erosion Control Measures	1	LS	\$71,000.00	\$71,000.00	\$66,728.52	\$66,728.52	\$80,000.00	\$80,000.00	\$50,000.00	\$50,000.00	\$63,298.83	\$63,298.83	\$163,320.80	\$163,320.8
5	Site Clearing	1	LS	\$93,750.00	\$93,750.00	\$108,037.67	\$108,037.67	\$180,000.00	\$180,000.00	\$300,000.00	\$300,000.00	\$273,854.61	\$273,854.61	\$375,000.00	\$375,000.0
6	Water Management Control	1	LS	\$63,900.00	\$63,900.00	\$25,332.30	\$25,332.30	\$160,000.00	\$160,000.00	\$100,000.00	\$100,000.00	\$33,961.50	\$33,961.50	\$25,000.00	\$25,000.0
7	Bank Excavations	1	LS	\$551,129.00	\$551,129.00	\$577,393.42	\$577,393.42	\$880,812.50	\$880,812.50	\$400,000.00	\$400,000.00	\$770,881.72	\$770,881.72	\$518,260.00	\$518,260.0
8	Additional Excavation in Dam Overexcavations	1000	CY	\$12.50	\$12,500.00	\$11.30	\$11,300.00	\$14.00	\$14,000.00	\$8.00	\$8,000.00	\$17.33	\$17,330.00	\$6.00	\$6,000.00
9	NOT USED						\$0.00		\$0.00		\$0.00		\$0.00		\$0.0
10	Water Quality Basin Dam Embankment	1	LS	\$751,543.00	\$751,543.00	\$1,531,265.84	\$1,531,265.84	\$1,094,212.00	\$1,094,212.00	\$1,400,000.00	\$1,400,000.00	\$1,954,859.85	\$1,954,859.85	\$2,328,075.00	\$2,328,075.00
11	Labyrinth Weir and Baffled Chute Spillway	1	LS	\$930,188.00	\$930,188.00	\$979,126.56	\$979,126.56	\$1,160,000.00	\$1,160,000.00	\$1,700,000.00	\$1,700,000.00	\$1,272,786.03	\$1,272,786.03	\$1,596,517.00	\$1,596,517.00
12	Permanent Access Drives	1	LS	\$38,312.00	\$38,312.00	\$74,889.02	\$74,889.02	\$74,378.00	\$74,378.00	\$50,000.00	\$50,000.00	\$80,062.35	\$80,062.35	\$80,000.00	\$80,000.00
13	Shoreline Rock Riprap	2400	TONS	\$80.00	\$192,000.00	\$64.94	\$155,856.00	\$72.00	\$172,800.00	\$72.00	\$172,800.00	\$86.90	\$208,560.00	\$76.50	\$183,600.00
14	NDOT Type B Rock Riprap	3000	TONS	\$80.00	\$240,000.00	\$67.99	\$203,970.00	\$72.00	\$216,000.00	\$65.00	\$195,000.00	\$85.05	\$255,150.00	\$76.50	\$229,500.00
15	Rock Check Structures	11	EA	\$20,034.00	\$220,374.00	\$2,656.94	\$29,226.34	\$5,500.00	\$60,500.00	\$5,000.00	\$55,000.00	\$4,773.69	\$52,510.59	\$2,350.00	\$25,850.00
16	15-IN Storm Sewer	1	LS	\$17,500.00	\$17,500.00	\$21,790.02	\$21,790.02	\$28,174.00	\$28,174.00	\$50,000.00	\$50,000.00	\$24,582.19	\$24,582.19	\$42,076.00	\$42,076.00
17	Right-of-Way Fence	16425	LF	\$4.00	\$65,700.00	\$5.53	\$90,830.25	\$8.00	\$131,400.00	\$6.20	\$101,835.00	\$4.70	\$77,197.50	\$6.35	\$104,298.75
18	Seeding, Type 'A' Upland Mix	21	AC	\$1,000.00	\$21,000.00	\$653.81	\$13,730.01	\$3,300.00	\$69,300.00	\$1,300.00	\$27,300.00	\$1,134.00	\$23,814.00	\$665.00	\$13,965.00
19	Seeding, Type 'B' Wetland Mix	11.5	AC	\$1,500.00	\$17,250.00	\$1,111.48	\$12,782.02	\$3,300.00	\$37,950.00		\$12,650.00	\$871.50	\$10,022.25	\$1,140.00	\$13,110.00
20	Seeding, Type 'C' Wetland Mix	7	AC	\$1,500.00	\$10,500.00	\$3,878.49	\$27,149.43	\$3,300.00	\$23,100.00	\$3,200.00	\$22,400.00	\$1,722.00	\$12,054.00	\$3,875.00	\$27,125.00
21	Forested Wetland Tree Mitigation	2.92	AC	\$18,414.00	\$53,768.88	\$14,098.61	\$41,167.94	\$11,330.00	\$33,083.60	\$9,000.00	\$26,280.00	\$9,241.46	\$26,985.06	\$12,000.00	\$35,040.00
22	Willow Planting with NDOT Type B Rock Riprap	2190	SF	\$22.60	\$49,494.00	\$11.03	\$24,155.70		\$24,090.00		\$13,140.00	\$23.77	\$52,056.30	\$13.70	\$30,003.00
23	All Other Work Not Covered by A Bid Item	1	LS	\$5,250.00	\$5,250.00	\$26,106.95	\$26,106.95		\$0.00		\$405,595.00	\$33,501.22	\$33,501.22	\$120,000.00	\$120,000.00
24	Bird Surveys	1	LS	\$3,000.00	\$3,000.00	\$2,578.46	\$2,578.46	\$18,000.00	\$18,000.00	\$10,000.00	\$10,000.00	\$2,625.01	\$2,625.01	\$2,000.00	\$2,000.00
	TOTAL DID.				#2 000 4F0 00		£4.054.002.07		£4.000.000.40		¢5 450 000 00		<b>\$5,000,000,00</b>		ФС 540 740 F
	TOTAL BID:				\$3,808,158.88	<u> </u>	\$4,254,983.97		\$4,902,800.10		\$5,450,000.00		\$5,860,608.09		\$6,518,740.55
	Addendum No. 1:			1		Ye	es	Ye	es	Ye	es	Y	es	Ye	es
	Addendum No. 2:					Ye	es	Ye	es	Ye	es	Y	es	Ye	es
	Site Visit/Pre-bid Meeting Attendance:					Υe	es .	Ye	es	Ye	es	Y	es	Ye	es
	List Subcontractors:														
	Surveyor:					Snyder & A		E&A Consu	Ilting Group				gineering	Lamp Rynerson/C	
	Testing Lab: Tree Removal					Olsson & A	ssociates					I niele (	Geotech	Terracon/Thi Huges Tre	
	Earthwork											Hei		nuges ne	e Service
	Structural (Concrete)							TR Cons	struction			11011	1103	Hawkins/M.E. 0	Collins/Neuvirth
	Fencing					Midwest Fence	& Guard Rail	American Fer				Midwes	st Fence	Elkhorn Fence	
	Erosion Control								' '			Next Phase B	Environmental	Commercia	al Seeding
Tree Planting			•	Great Plair	s Nursery					Next Phase I	Environmental	Jensen (	Gardens		
	Piping							S and S 1	Trenching						
	Seeding					Commercia	al Seeding								
														Fabric: ASP Enterp	
														Rock: L.G. Everis	
	Other													Sand: Lyman-Rich	
	Remarks:							Math error on big						Math error on bid p	
								Item 15 (+\$5,500 price. Bid Form t						17 (-\$30) and 24 (- unit price. Bid Forr	
								\$4,897,300.10	Uldi					unit price. Bid Forr \$6,518,707.55	II IUIdI
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Sent Electronically on January 31, 2018

January 31, 2018

Ms. Amanda Grint, Water Resources Engineer Papio-Missouri River Natural Resources District 8901 South 154th Street Omaha, NE 68138-3621

RE: Zorinsky Water Quality Basin No. 2 Dam Project Recommendation of Contractor Award

Dear Ms. Grint:

Bids were received for the construction of Zorinsky Water Quality Basin No. 2 (ZB-2) on January 26, 2018. Per the attached bid tabulation, five (5) bidders submitted bids which ranged from \$4,254,983.97 to \$6,518,740.55. All bids were above the Engineer's opinion of probable construction cost of \$3,808,158.88. A summary of the bids are attached.

Bids were evaluated based on the lowest and responsive bidder. The apparent low bid was submitted by Valley Corporation for \$4,254,983.97. This bid is \$647,816.13 lower than the next lowest bidder. In evaluating the bids, four (4) bid items were substantially lower than the next lowest bidder: Bid Item No. 1 Mobilization/Demobilization; Bid Item No. 6 Water Management Control; Bid Item 7 Bank Excavation; and Bid Item No. 11 Labyrinth Weir and Baffled Chute Spillway. Valley's bid price for mobilization/demobilization is \$135,123 lower than the next lowest bidder. Valley's bid price for water management is \$134,668 lower than the next lowest bidder. Bank Excavation was \$303,419.08 lower than the next lowest bidder and the construction of the labyrinth weir and spillway was \$180,873 lower than the next lowest bidder. One bid item, Bid Item 10 Water Quality Basin Dam Embankment, was \$437,053.84 higher than the next lowest bidder, but was \$130,416.70 below the average bid price for that item.

Differences in the mobilization/demobilization was attributed to the total bid price, as the maximum bid price was limited to no more than 10 percent of the total bid price less the price for mobilization/demobilization. The reasons for the variations in some of the other bid items will not be available until the selected contractor submits his schedule of values following notice of award. In discussions with several of the bidders, several factors affected the bid proposals:

- current bidding environment with robust residential and commercial development activity;
- off-site borrow and off-site disposal of unsuitable material requirements; and
- restricted construction work area due to neighboring development and its effect on

Letter to Ms. Grint January 31, 2018 Page 2 of 2

workflow of earth moving activities.

In accordance with the requirements in Specification Section 00 41 00 Bid Form, all bidders were responsive and acknowledged receipt of the addendums and attached the necessary documents to the bid. Valley Corporation provided the required bid security and list of subcontractors. Valley representatives also attended the mandatory pre-bid/site showing.

Valley Corporation is a respected, regional construction firm with its roots in Valley. Valley Corporation is a pre-qualified contractor for Work Class List 10 or "General" work by the Nebraska Department of Transportation (NDOT) (published 1/24/2018). A list of references provided by Valley Corporation is attached. Valley Corporation was the General Contractor on several recent P-MRNRD projects including the following:

- Hell Creek Channel Stabilization Repair of Railroad Weir
- Thompson Creek Sanitary Sewer
- Union Dike Replacement Trench Drain
- West Papillion Creek Trail Giles Road to Q Street

Valley Corporation will be self-performing the earthwork and concrete work. The list of its subcontractors included Snyder & Associates for surveying, Olsson & Associates for material testing, Midwest Fence Company-Guardrail Systems, Inc. for fencing, Great Plains Nursery for tree planting and Commercial Seeding for seeding. Midwest Fence is a pre-qualified contractor by the NDOT. All of the subcontractors are known entities in the Omaha area.

Based on the available information, we recommend a construction contract be awarded to Valley Corporation in the total of amount of \$4,254,983.97 for construction of Zorinsky Water Quality Basin No. 2 Dam Project.

If you have any questions do not hesitate to contact me at (402) 926-7110.

Very truly yours, HDR ENGINEERING, INC.

John J. Engel, P.E. Project Manager

**Enclosure** 



BID TABULATION Zorinsky Water Quality Basin No. 2 Dam Project Papio-Missouri River NRD Douglas County, NE



Bid Opening: January 26, 2018

Page 1 of 1

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		Engineer's Estimate		Valley Corporation		Blade Masters		Sibbernsen		Hawkins		McArdle Grading			
Item No	ITEM	UNIT	QTY.	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION	UNIT PRICE	EXTENSION
1	Mobilization/Demobilization	1	LS	\$325,000.00	\$325,000.00	\$194,877.26	\$194,877.26	\$330,000.00	\$330,000.00	\$150,000.00	\$150,000.00	\$500,000.00	\$500,000.00	\$500,000.00	\$500,000.0
2	Construction Survey	1	LS	\$35,000.00	\$35,000.00	\$12,892.32	\$12,892.32	\$65,000.00	\$65,000.00	\$100,000.00	\$100,000.00	\$61,599.78	\$61,599.78	\$50,000.00	\$50,000.0
3	Construction Quality Control Material Testing	1	LS	\$40,000.00	\$40,000.00	\$23,797.94	\$23,797.94	\$50,000.00	\$50,000.00	\$100,000.00	\$100,000.00	\$52,915.30	\$52,915.30	\$50,000.00	\$50,000.0
4	Erosion Control Measures	1	LS	\$71,000.00	\$71,000.00	\$66,728.52	\$66,728.52	\$80,000.00	\$80,000.00	\$50,000.00	\$50,000.00	\$63,298.83	\$63,298.83	\$163,320.80	\$163,320.8
5	Site Clearing	1	LS	\$93,750.00	\$93,750.00	\$108,037.67	\$108,037.67	\$180,000.00	\$180,000.00	\$300,000.00	\$300,000.00	\$273,854.61	\$273,854.61	\$375,000.00	\$375,000.0
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12	Permanent Access Drives	1	LS	\$38,312.00	\$38,312.00	\$74,889.02	\$74,889.02	\$74,378.00	\$74,378.00	\$50,000.00	\$50,000.00	\$80,062.35	\$80,062.35	\$80,000.00	\$80,000.0
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19	Seeding, Type 'B' Wetland Mix	11.5	AC	\$1,500.00	\$17,250.00	\$1,111.48	\$12,782.02	\$3,300.00	\$37,950.00		\$12,650.00	\$871.50	\$10,022.25	\$1,140.00	\$13,110.0
20	Seeding, Type 'C' Wetland Mix	7	AC	\$1,500.00	\$10,500.00	\$3,878.49	\$27,149.43	\$3,300.00	\$23,100.00	\$3,200.00	\$22,400.00	\$1,722.00	\$12,054.00	\$3,875.00	\$27,125.0
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23	All Other Work Not Covered by A Bid Item	1	LS	\$5,250.00	\$5,250.00	\$26,106.95	\$26,106.95		\$0.00		\$405,595.00	\$33,501.22		\$120,000.00	\$120,000.0
24	Bird Surveys	1	LS	\$3,000.00	\$3,000.00	\$2,578.46	\$2,578.46	\$18,000.00	\$18,000.00	\$10,000.00	\$10,000.00	\$2,625.01	\$2,625.01	\$2,000.00	\$2,000.0
	TOTAL BID:				\$3,808,158.88		\$4,254,983.97		\$4,902,800.10		\$5,450,000.00		\$5,860,608.09		¢¢ 540 740 5
	TOTAL BID:			<u> </u>	\$3,000,130.00	<u> </u>	\$4,254,965.9 <i>1</i>	<u> </u>	\$ <del>4</del> ,902,000.10	'	\$5,450,000.00	<u> </u>	\$5,000,000.09		\$6,518,740.5
	Addendum No. 1:					Ye	es .	Ye	es		es	Y	es	Ye	es
	Addendum No. 2:					Υe		Ye			es		es	Ye	
	Site Visit/Pre-bid Meeting Attendance:					Υe	es .	Ye	es	Y	es	Y	es	Ye	es
	List Subcontractors:					Couder 9 /	annointen	E&A Consu	Iting Croup			DW Fac	zin o o rin a	Lama Dunaraan/C	Nacan Associate
	Surveyor: Testing Lab:					Snyder & A Olsson & A		E&A CONSU	illing Group				gineering Geotech	Lamp Rynerson/C Terracon/Thi	
	Tree Removal					OISSUII & F	1550Clates					Hei		Hughes Tr	
	Earthwork											Hei		riagnoo ri	00 0011100
	Structural (Concrete)							TR Cons	struction	M.E. (	Collins			Hawkins/M.E. 0	Collins/Neuvirth
	Fencing					Midwest Fence	& Guard Rail	American Fer	nce Company	America	n Fence	Midwes	st Fence	Elkhorn Fence	/Safety Guard
Erosion Control								Next Phase Environmental		Next Phase Environmental		Commercial Seeding			
Tree Planting				Great Plair	s Nursery			Next Phase E	Environmental	Next Phase I	Environmental	Jensen (	Gardens		
	Piping					0	al Candin :	S and S 1	Trenching						
	Seeding					Commercia	al Seeding								
										Rock: L.G. Ever				Fabric: ASP Enter	
	0.1									Marietta; Drainfil	l Mallard Sand,			Rock: L.G. Everis	
	Other									Core & Main				Sand: Lyman-Rich	
	Remarks:							Math error on bid						Math error on bid p	
								Item 15 (+\$5,500 price. Bid Form t						17 (-\$30) and 24 (- unit price. Bid Forr	
								\$4,897,300.10	Uldi					\$6,518,707.55	ii iUlai
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Valley Corporation - Major Projects Completed in last 5 years

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Job Number	Job	Owner	Project Amount	Completion Date	Contact	Phone	Project Scope	Project Details
1595	Oak Brook	City of Omaha	\$721,563	December 2017	Jason Hughes	402-301-5445	Stabilization of Stream Bank with Concrete Impact Basin and Sheet Pile Rock Rip Rap Drop Structures	Excavation on Site and Borrow - 5,500 CY, 54 LF 60" RCP, Concrete Impact Basin 71 CY, 4,985 lbs Reinforcing, 236 Ea 3'x 2 'Lime Stone Block, 54 LF, 36" RCP Storm Pipe, Clearing & Grubbing Trees
1422	Hell Creek	Papio-Missouri NRD	\$754,653	January 2017	Dave Lampe (FHU Engineer)	402-651-4446	Site Grading, Concrete Removals, Sheetpile, Cast in place Concrete	Flow Management, Removal of 200 SY Pavement, Removal of existing sheetpile wall and timber piles, 2200 CY earthwork, 330 SY Cast in place concrete slab, Construct 6318 SF sheepile
1309	Giles Road - Box Culvert	Sarpy County Public Works	\$211,079	1/6/2017	Pat Douse	402-488-1590	Box Culvert	Box Culvert - 8' x 10' x 113 LF, Wing Walls, Energy Dissipator, Concrete 136 CY, 200 SF Sheet Piling,
1292	Ruff Road - Structure	Sarpy County Public Works	\$178,403	7/8/2016	Pat Douse	402-488-1590	Box Culvert Extension	Concrete Box Culvert - 4,936 Lbs Reinforcing , Concrete Box and Wings 60 CY, Rock Rip Rap and Base Course 232 Tons,
1144	Rivers Edge	City of Council Bluffs	\$3,231,745	9/30/2016	Chris, Cain / HDR	402-926-7029	Demolition, Removals, Grading, Storm, and Sanitary Sewer	Topsoil Strip and Spread 47,000 SY, Earthwork-Excavation 18,000 CY, Earthwork-Borrow 47,500 CY, Dewatering, Tree Removal, 18" RCP 956 LF, 24" & 36" RCP 155 LF, 60" RCP 465 LF, 48" MH 25 VF, 60" MH 13 VF, 96" MH 39 VF, 8" Sanitary 2,715 LF, 48" MH 120 VF. Formed Concrete Structure MH Structure -
1003	NDOR - N-31 Buffalo Road	Valley Corporation	\$772,589	12/2014	Derek Torczon	402-595-2534 Ext 282	Improvements and repair of highway location	Project consisted of 5,504 CY embankment earthwork, 1,718 SY topsoil salvage and replacement, 1,165 SY filter fabric, with 109,778 uniaxial geogrid and 6,944 biaxial geogrid. It also included 1,206 SF of steel sheet piling, 10 CY of granualar backfill, 3,685 SY Class 1D and 1,870 SY Class 2A erosion control. One thousand LF of temporary silt check and temporary silt fence were also required.