

## MEMORANDUM

**To:** Programs, Projects, and Operations Subcommittee  
**From:** Amanda Grint, Water Resources Engineer  
**Date:** December 1, 2021  
**Re:** WP2 Water Quality Basin and Sanitary Sewer Project Construction Bids

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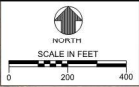
On November 30, 2021, bids were opened for the construction of the Water Quality Basin and Sanitary Sewer at WP2 project. A copy of the bid tabulation along with the recommendation letter from FYRA Engineering is attached.

The water quality basin and sanitary sewer are being constructed prior to the main dam and recreation features because of the timing of the sewer and adjacent development. The attached map shows the WP2 project and the work area.

Three bids were received, and the range of bids was \$398,410.39 to \$519,682.50. The engineer's estimate was \$236,345.00.

The low base bid of \$398,410.39, was provided by Valley Corp. FYRA has reviewed the bids and verified that Valley Corp is able to construct the project according to specifications. The District has worked with Valley Corp on several projects recently. The work is expected to begin as soon as possible and be substantially complete by April 30, 2022.

**Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute a contract with Valley Corp. for the construction of the Water Quality Basin and Sanitary Sewer at WP2 Project for the total bid amount of \$398,410.39, subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.**



**FYRA**  
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**WATER QUALITY BASIN AND SANITARY SEWER AT WP-2**  
PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT  
SARPY COUNTY, NEBRASKA  
2021

ENGINEER'S SEAL



REVISIONS	
NO.	DATE

DESIGNED BY: SEM  
DRAWN BY: RAR  
QA / QC BY: MKS  
PROJECT NO.: 201-17-01  
DATE: NOVEMBER 2021

**TITLE**  
**SITE ACCESS PLAN**

SHEET  
**A.3**





1 December 2021

Amanda Grint, P.E.  
Papio-Missouri River NRD  
8901 S. 154<sup>th</sup> Street  
Omaha, NE 68138

Re: Regional Detention Basins WP-2 Water Quality Basin – Engineer's Recommendation

Dear Amanda:

The bid opening for the above-referenced project was held at the P-MRNRD on 30 November 2021. The low bid of \$398,410.39 was received from Valley Corporation was above the engineer's estimate of \$236,345.00 by \$162,065.39. Two other bids were submitted by MC Wells and Bauer Underground which were \$493,648.50 and \$519,682.50 respectively and can be viewed on the attached bid tabulations.

It is my opinion that a few of the bid items are unreasonably high, even in this competitive climate. The Mobilization, Handling of Water and SWPPP costs are very high, given the anticipated effort for each.

Unfortunately, the schedule for this project is tight and the project needs to be completed by the end of April, 2022 to meet the needs of the developer who is paying for the sanitary sewer installation. If the project fits within the NRD's budget, my recommendation is to award the project to Valley Corporation and begin the contracting process upon Board approval. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael K. Sotak', with a stylized flourish at the end.

Michael K. Sotak, P.E., D.WRE

**Project:** WP-2 Water Quality Basin  
**Owner:** Papio-Missouri River Natural Resources District  
**Date:** 30 November 2021  
**FYRA Project Number:** 001-17-01

Item Number	Item Description	Quantity	Unit	ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS		VALLEY CORP		MC WELLS		BAUER UNDERGROUND	
				Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
1	MOBILIZATION	1	LS	\$ 17,200.00	\$ 17,200.00	\$ 33,666.79	\$ 33,666.79	\$ 49,000.00	\$ 49,000.00	\$ 45,000.00	\$ 45,000.00
2	CLEARING AND GRUBBING	1	LS	\$ 30,000.00	\$ 30,000.00	\$ 100,891.34	\$ 100,891.34	\$ 39,000.00	\$ 39,000.00	\$ 28,000.00	\$ 28,000.00
3	HANDLING OF WATER	1	LS	\$ 3,000.00	\$ 3,000.00	\$ 45,702.71	\$ 45,702.71	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
4	EROSION CONTROL (SWPPP)	1	LS	\$ 6,000.00	\$ 6,000.00	\$ 23,194.08	\$ 23,194.08	\$ 32,000.00	\$ 32,000.00	\$ 15,000.00	\$ 15,000.00
5	SEEDING - TURF MIX	1.4	AC	\$ 2,500.00	\$ 3,500.00	\$ 1,306.80	\$ 1,829.52	\$ 5,000.00	\$ 7,000.00	\$ 10,000.00	\$ 14,000.00
6	COVER CROP	4.2	AC	\$ 1,000.00	\$ 4,200.00	\$ 504.90	\$ 2,120.58	\$ 550.00	\$ 2,310.00	\$ 1,000.00	\$ 4,200.00
7	EROSION CONTROL MATTING	6555	SY	\$ 2.00	\$ 13,110.00	\$ 1.54	\$ 10,094.70	\$ 2.00	\$ 13,110.00	\$ 3.00	\$ 19,665.00
8	REMOVE BARBED-WIRE FENCE	962	LF	\$ 1.00	\$ 962.00	\$ 3.85	\$ 3,703.70	\$ 7.00	\$ 6,734.00	\$ 10.50	\$ 10,101.00
9	EARTHEN EMBANKMENT	7885	CY	\$ 3.50	\$ 27,597.50	\$ 4.37	\$ 34,457.45	\$ 17.00	\$ 134,045.00	\$ 13.00	\$ 102,505.00
10	STRIP, STOCKPILE, REPLACE/WASTE TOPSOIL	1116	CY	\$ 6.00	\$ 6,696.00	\$ 6.85	\$ 7,644.60	\$ 7.00	\$ 7,812.00	\$ 25.00	\$ 27,900.00
11	COMMON EXCAVATION	1153	CY	\$ 4.00	\$ 4,612.00	\$ 3.50	\$ 4,035.50	\$ 8.00	\$ 9,224.00	\$ 18.00	\$ 20,754.00
12	36" CLASS IV RCP	104	LF	\$ 300.00	\$ 31,200.00	\$ 182.25	\$ 18,954.00	\$ 250.00	\$ 26,000.00	\$ 200.00	\$ 20,800.00
13	36" RCP FLARED END SECTIONS	2	EA	\$ 3,000.00	\$ 6,000.00	\$ 2,677.68	\$ 5,355.36	\$ 3,000.00	\$ 6,000.00	\$ 2,500.00	\$ 5,000.00
14	FORMED CONCRETE - INLET STRUCTURE	9.1	CY	\$ 1,100.00	\$ 10,010.00	\$ 3,633.57	\$ 33,065.49	\$ 2,800.00	\$ 25,480.00	\$ 2,500.00	\$ 22,750.00
15	STEEL REINFORCEMENT - INLET STRUCTURE	2007.5	LBS	\$ 3.00	\$ 6,022.50	\$ 3.35	\$ 6,725.13	\$ 5.00	\$ 10,037.50	\$ 3.00	\$ 6,022.50
16	TYPE "B" ROCK RIPRAP	23	TN	\$ 90.00	\$ 2,070.00	\$ 81.99	\$ 1,885.77	\$ 129.00	\$ 2,967.00	\$ 130.00	\$ 2,990.00
17	TYPE "C" ROCK RIPRAP	151	TN	\$ 90.00	\$ 13,590.00	\$ 81.68	\$ 12,333.68	\$ 129.00	\$ 19,479.00	\$ 95.00	\$ 14,345.00
18	CONSTRUCT 8" SANITARY SEWER PIPE	643	LF	\$ 50.00	\$ 32,150.00	\$ 58.85	\$ 37,840.55	\$ 70.00	\$ 45,010.00	\$ 150.00	\$ 96,450.00
19	CONSTRUCT 54" I.D. SANITARY MANHOLE (2)	18	VF	\$ 400.00	\$ 7,200.00	\$ 165.09	\$ 2,971.62	\$ 1,000.00	\$ 18,000.00	\$ 1,200.00	\$ 21,600.00
20	CONSTRUCT SANITARY SEWER MANHOLE TAP	1	EA	\$ 1,000.00	\$ 1,000.00	\$ 1,657.57	\$ 1,657.57	\$ 1,400.00	\$ 1,400.00	\$ 500.00	\$ 500.00
21	INSTALL EXTERNAL FRAME SEAL	2	EA	\$ 500.00	\$ 1,000.00	\$ 451.57	\$ 903.14	\$ 1,000.00	\$ 2,000.00	\$ 1,250.00	\$ 2,500.00
22	CONSTRUCT AGGREGATE BEDDING FOR TRENCH STABILIZATION	40	TN	\$ 40.00	\$ 1,600.00	\$ 46.52	\$ 1,860.80	\$ 55.00	\$ 2,200.00	\$ 60.00	\$ 2,400.00
23	INSTALL GEOTEXTILE FABRIC FOR TRENCH STABILIZATION	150	SY	\$ 4.00	\$ 600.00	\$ 3.84	\$ 576.00	\$ 4.00	\$ 600.00	\$ 15.00	\$ 2,250.00
24	CONSTRUCT TYPE "B" RIP-RAP FOR TRENCH STABILIZATION	60	TN	\$ 80.00	\$ 4,800.00	\$ 81.99	\$ 4,919.40	\$ 129.00	\$ 7,740.00	\$ 95.00	\$ 5,700.00
25	INSTALL BX1100 GEOGRID FOR TRENCH STABILIZATION	30	SY	\$ 7.50	\$ 225.00	\$ 6.88	\$ 206.40	\$ 10.00	\$ 300.00	\$ 65.00	\$ 1,950.00
26	INSTALL BOLTED WATERTIGHT MANHOLE COVER	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 907.26	\$ 1,814.52	\$ 600.00	\$ 1,200.00	\$ 1,150.00	\$ 2,300.00
				<b>Subtotal</b>	\$ 236,345.00	<b>TOTAL</b>	\$ 398,410.39	<b>TOTAL</b>	\$ 493,648.50	<b>TOTAL</b>	\$ 519,682.50
					-	EOPCC	\$ 236,345.00	EOPCC	\$ 236,345.00	EOPCC	\$ 236,345.00
				<b>TOTAL</b>	\$ 236,345.00	DIFFERENCE	\$ 162,065.39	DIFFERENCE	\$ 257,303.50	DIFFERENCE	\$ 283,337.50