

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee

FROM: Ian Ghanavati, Water Resources Engineer

SUBJECT: WP2 Construction Bids

DATE: October 10, 2023

The West Papillion Regional Basin 2 (WP2) is located at approximately 180th Street and Giles Road in Sarpy County. This multi-purpose project consists of the construction of a flood control reservoir, basic recreation amenities, and fisheries enhancements. A water quality basin and sanitary sewer realignment were completed for the project in 2022.

Portions the WP2 project will be funded by the Nebraska Natural Resources Commission through the Water Sustainability Fund (WSF). WP2 is eligible for reimbursement of up to \$4,171,204 through WSF. The current engineer's estimate for construction of the project is \$7,208,957.50.

Bids for the WP2 project were opened on October 3, 2023. Three bids were received from Valley Corporation, General Excavating, and Graham Construction; the bid totals ranged from \$7,117,243.80 to \$12,880,153.70 without alternate and \$7,183,643.80 to \$13,620,153.70 with alternate, which includes additional fisheries excavation. Valley Corporation provided the lowest bid and meets all requirements. Houston Engineering has evaluated the bids and recommend the contract be awarded to Valley Corporation in the attached letter.

GENERAL CONTRACTOR	BID	BID ALTERNATE 1
Valley Corporation	\$7,117,243.80	\$7,183,643.80
General Excavating	\$9,740,310.12	\$9,806,310.12
Graham Construction	\$12,880,153.70	\$13,620,153.70

Management recommends that the Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a construction contract with Valley Corporation for the West Papillion Regional Basin 2 (WP2) project in an amount not to exceed \$7,117,243.80, subject to such other terms and conditions as the General Manager deems necessary and District Legal Counsel approves as to form.



4 October 2023

Amanda Grint
Assistant General Manager
Papio-Missouri River NRD
8901 S. 154th Street
Omaha, NE 68138

Re: Regional Detention Basin WP-2 – Engineer’s Recommendation

Amanda:

The bid opening for the above-referenced project was held at the P-MRNRD on 3 October 2023. The low base bid of \$7,117,243.80 was received from Valley Corporation was below the engineer’s estimate of 7,208,957.50 by \$91,713.70. Two other bids were submitted by General Excavating and Graham Construction which were \$9,740,310.12 and \$12,880,153.70 respectively and can be viewed on the attached bid tabulations. A bid alternate was included in the bid form but at this time we are recommending proceeding with the base bid.

It is my opinion that Valley Corporation provided reasonable unit costs in the current bidding climate resulting in a fair bid price. Valley Corporation won and completed the water quality basin at WP-2 in late 2021. The project was completed on time and according to construction documents without difficulty. Houston Engineering staff have worked with Valley Corporation on several projects in the past, and they have always performed good quality work and have reliable communication. They have provided the attached equipment list and indicated they would begin mobilization efforts upon approval at the P-MRNRD October board meeting.

It is 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 blue ink, appearing to read 'Sara Mechtenberg', is written over a light blue horizontal line.

Sara Mechtenberg, P.E.

Regional Detention Basin WP-2
Bid Tab

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	Engineer's Estimate		Valley Corp.			General Excavating			Graham	
				Estimated Bid Price	Estimate	BID UNIT PRICE	BID PRICE	Difference from EOPC	BID UNIT PRICE	BID PRICE	Difference from EOPC	BID UNIT PRICE	BID PRICE
GENERAL													
1	MOBILIZATION	LS	1	\$655,400.00	\$655,400.00	\$ 398,941.61	\$ 398,941.61	\$ 256,458.39	\$ 1,495,784.08	\$ 1,495,784.08	\$ (840,384.08)	\$ 750,000.00	\$ 750,000.00
2	CLEARING AND GRUBBING	LS	1	\$50,000.00	\$50,000.00	\$ 50,060.90	\$ 50,060.90	\$ (60.90)	\$ 200,000.00	\$ 200,000.00	\$ (150,000.00)	\$ 99,918.00	\$ 99,918.00
3	HANDLING OF WATER	LS	1	\$60,000.00	\$60,000.00	\$ 48,298.96	\$ 48,298.96	\$ 11,701.04	\$ 75,000.00	\$ 75,000.00	\$ (15,000.00)	\$ 292,600.00	\$ 292,600.00
4	EROSION CONTROL (SWPPP)	LS	1	\$40,000.00	\$40,000.00	\$ 75,225.08	\$ 75,225.08	\$ (35,225.08)	\$ 65,000.00	\$ 65,000.00	\$ (25,000.00)	\$ 16,000.00	\$ 16,000.00
5	EROSION CONTROL MATTING	SY	63,540	\$2.50	\$158,850.00	\$ 1.31	\$ 83,237.40	\$ 158,848.69	\$ 1.20	\$ 76,248.00	\$ 82,602.00	\$ 1.50	\$ 95,310.00
6	INSTALL SEEDING - TURF MIX	AC	4	\$2,500.00	\$10,000.00	\$ 3,374.98	\$ 13,499.92	\$ 6,625.02	\$ 2,598.65	\$ 10,394.60	\$ (394.60)	\$ 3,300.00	\$ 13,200.00
7	INSTALL SEEDING - UPLAND SEED MIX	AC	60	\$3,200.00	\$192,000.00	\$ 1,972.73	\$ 118,363.80	\$ 190,027.27	\$ 1,391.35	\$ 83,481.00	\$ 108,519.00	\$ 1,850.00	\$ 111,000.00
8	INSTALL SEEDING - CONSERVATION BUFFER SEED MIX	AC	7	\$3,800.00	\$26,600.00	\$ 2,139.61	\$ 14,977.27	\$ 24,460.39	\$ 1,958.75	\$ 13,711.25	\$ 12,888.75	\$ 2,500.00	\$ 17,500.00
9	SURVEY AND STAKING	LS	1	\$60,000.00	\$60,000.00	\$ 58,058.99	\$ 58,058.99	\$ 1,941.01	\$ 75,000.00	\$ 75,000.00	\$ (15,000.00)	\$ 72,000.00	\$ 72,000.00
MAIN DAM													
10	INSTRUMENTATION	LS	1	\$60,000.00	\$60,000.00	\$ 121,582.12	\$ 121,582.12	\$ (61,582.12)	\$ 175,000.00	\$ 175,000.00	\$ (115,000.00)	\$ 116,000.00	\$ 116,000.00
11	EARTHEN EMBANKMENT	CY	114,240	\$7.00	\$799,680.00	\$ 3.38	\$ 386,131.20	\$ 799,676.62	\$ 6.95	\$ 793,968.00	\$ 5,712.00	\$ 15.00	\$ 1,713,600.00
12	COMMON EXCAVATION	CY	39,810	\$5.00	\$199,050.00	\$ 3.14	\$ 125,003.40	\$ 199,046.86	\$ 7.40	\$ 294,594.00	\$ (95,544.00)	\$ 18.50	\$ 736,485.00
13	STRIP, STOCKPILE, REPLACE/WASTE TOPSOIL	CY	39,581	\$10.00	\$395,810.00	\$ 6.67	\$ 264,005.27	\$ 395,803.33	\$ 3.00	\$ 118,743.00	\$ 277,067.00	\$ 5.50	\$ 217,695.50
14	REMOVE 36" DIA. CMP	LF	58	\$50.00	\$2,900.00	\$ 26.30	\$ 1,525.40	\$ 2,873.70	\$ 49.15	\$ 2,850.70	\$ 49.30	\$ 115.00	\$ 6,670.00
15	REMOVE EXISTING RISER, TRASH RACK, AND PIPE SUPPORT	LS	1	\$1,000.00	\$1,000.00	\$ 2,854.98	\$ 2,854.98	\$ (1,854.98)	\$ 1,309.50	\$ 1,309.50	\$ (309.50)	\$ 3,250.00	\$ 3,250.00
16	REMOVE CATHODIC PROTECTION SYSTEM BOXES	LS	1	\$1,000.00	\$1,000.00	\$ 627.80	\$ 627.80	\$ 372.20	\$ 436.50	\$ 436.50	\$ 563.50	\$ 1,200.00	\$ 1,200.00
17	REMOVE AND STOCKPILE/RE-USE RIPRAP	TN	1,089	\$40.00	\$43,560.00	\$ 23.83	\$ 25,950.87	\$ 43,536.17	\$ 49.11	\$ 53,480.79	\$ (9,920.79)	\$ 15.00	\$ 16,335.00
18	REMOVE ABANDONED SANITARY SEWER MANHOLE	EA	1	\$1,500.00	\$1,500.00	\$ 2,388.09	\$ 2,388.09	\$ (888.09)	\$ 2,728.18	\$ 2,728.18	\$ (1,228.18)	\$ 1,450.00	\$ 1,450.00
19	REMOVE ABANDONED SANITARY SEWER LINE	LF	643	\$100.00	\$64,300.00	\$ 66.58	\$ 42,810.94	\$ 64,233.42	\$ 106.25	\$ 68,318.75	\$ (4,018.75)	\$ 52.00	\$ 33,436.00
20	REPLACE MANHOLE COVERS WITH BOLTED WATER TIGHT COVERS	EA	11	\$1,500.00	\$16,500.00	\$ 1,745.65	\$ 19,202.15	\$ 14,754.35	\$ 1,527.75	\$ 16,805.25	\$ (305.25)	\$ 1,000.00	\$ 11,000.00
21	PRINCIPAL SPILLWAY PIPE - 48"	LF	180	\$800.00	\$144,000.00	\$ 1,412.76	\$ 254,296.80	\$ 142,587.24	\$ 2,303.05	\$ 414,549.00	\$ (270,549.00)	\$ 3,425.00	\$ 616,500.00
22	24" PVC - DRAWDOWN PIPE	LF	163	\$100.00	\$16,300.00	\$ 212.66	\$ 34,663.58	\$ 16,087.34	\$ 477.98	\$ 77,910.74	\$ (61,610.74)	\$ 560.00	\$ 91,280.00
23	FORMED CONCRETE	CY	150.1	\$1,300.00	\$195,130.00	\$ 1,669.71	\$ 250,623.47	\$ 193,460.29	\$ 1,862.35	\$ 279,538.74	\$ (84,408.74)	\$ 2,820.00	\$ 423,282.00
24	STEEL REINFORCEMENT - FORMED CONCRETE	LBS	26,947.0	\$2.50	\$67,367.50	\$ 2.49	\$ 67,098.03	\$ 67,365.01	\$ 3.10	\$ 83,535.70	\$ (16,168.20)	\$ 3.10	\$ 83,535.70
25	METAL FABRICATION - IMPACT BASIN	LS	1	\$15,000.00	\$15,000.00	\$ 28,409.38	\$ 28,409.38	\$ (13,409.38)	\$ 55,000.00	\$ 55,000.00	\$ (40,000.00)	\$ 17,900.00	\$ 17,900.00
26	METAL FABRICATION - RISER STRUCTURE	LS	1	\$20,000.00	\$20,000.00	\$ 31,463.70	\$ 31,463.70	\$ (11,463.70)	\$ 45,000.00	\$ 45,000.00	\$ (25,000.00)	\$ 15,400.00	\$ 15,400.00
27	KNIFE GATE AND APPURTENANCES - RISER STRUCTURE	EA	1	\$18,000.00	\$18,000.00	\$ 53,293.08	\$ 53,293.08	\$ (35,293.08)	\$ 80,000.00	\$ 80,000.00	\$ (62,000.00)	\$ 64,000.00	\$ 64,000.00
28	SLIDE GATE AND APPURTENANCES - RISER STRUCTURE	EA	1	\$20,000.00	\$20,000.00	\$ 38,986.92	\$ 38,986.92	\$ (18,986.92)	\$ 60,000.00	\$ 60,000.00	\$ (40,000.00)	\$ 48,000.00	\$ 48,000.00
29	UNFORMED CONCRETE - PRINCIPAL SPILLWAY BEDDING	CY	26	\$350.00	\$9,100.00	\$ 473.46	\$ 12,309.96	\$ 8,626.54	\$ 3,021.20	\$ 78,551.20	\$ (69,451.20)	\$ 775.00	\$ 20,150.00
30	FINE SAND	CY	3,621	\$55.00	\$199,155.00	\$ 43.06	\$ 155,920.26	\$ 199,111.94	\$ 56.30	\$ 203,862.30	\$ (4,707.30)	\$ 42.00	\$ 152,082.00
31	ROCK RIPRAP TYPE "A"	TN	2,566	\$95.00	\$243,770.00	\$ 119.48	\$ 306,585.68	\$ 243,650.52	\$ 123.70	\$ 317,414.20	\$ (73,644.20)	\$ 111.00	\$ 284,826.00
32	ROCK RIPRAP TYPE "B"	TN	2,827	\$95.00	\$268,565.00	\$ 84.38	\$ 238,542.26	\$ 268,480.62	\$ 86.25	\$ 243,828.75	\$ 24,736.25	\$ 111.00	\$ 313,797.00
33	ROCK RIPRAP TYPE "C"	TN	2,601	\$95.00	\$247,095.00	\$ 84.38	\$ 219,472.38	\$ 247,010.62	\$ 86.25	\$ 224,336.25	\$ 22,758.75	\$ 111.00	\$ 288,711.00
34	GEOTEXTILE FILTER FABRIC	SY	18,231	\$2.50	\$45,577.50	\$ 2.67	\$ 48,676.77	\$ 45,574.83	\$ 2.50	\$ 45,577.50	\$ -	\$ 4.00	\$ 72,924.00
35	AGGREGATE EMBANKMENT	CY	12,641	\$45.00	\$568,845.00	\$ 44.32	\$ 560,249.12	\$ 568,800.68	\$ 54.75	\$ 692,094.75	\$ (123,249.75)	\$ 86.00	\$ 1,087,126.00
36	STONE FILTER	CY	5,387	\$70.00	\$377,090.00	\$ 92.05	\$ 495,873.35	\$ 376,997.95	\$ 166.44	\$ 896,612.28	\$ (519,522.28)	\$ 134.00	\$ 721,858.00
37	AGGREGATE SURFACING	TN	371	\$45.00	\$16,695.00	\$ 67.49	\$ 25,038.79	\$ 16,627.51	\$ 43.65	\$ 16,194.15	\$ 500.85	\$ 81.00	\$ 30,051.00
38	INTERNAL DRAINAGE PIPE - 8" PVC SOLID WALL	LF	716	\$15.00	\$10,740.00	\$ 41.15	\$ 29,463.40	\$ 10,698.85	\$ 22.65	\$ 16,217.40	\$ (5,477.40)	\$ 112.00	\$ 80,192.00
39	INTERNAL DRAINAGE PIPE - 8" PVC SLOTTED WALL	LF	593	\$13.00	\$7,709.00	\$ 42.08	\$ 24,953.44	\$ 7,666.92	\$ 21.05	\$ 12,482.65	\$ (4,773.65)	\$ 120.00	\$ 71,160.00
40	INTERNAL DRAINAGE PIPE - 12" PVC SLOTTED WALL	LF	850	\$20.00	\$17,000.00	\$ 72.60	\$ 61,710.00	\$ 16,927.40	\$ 39.05	\$ 33,192.50	\$ (16,192.50)	\$ 146.00	\$ 124,100.00
41	COBBLES	TN	12	\$150.00	\$1,800.00	\$ 163.22	\$ 1,958.64	\$ 1,636.78	\$ 191.00	\$ 2,292.00	\$ (492.00)	\$ 343.00	\$ 4,116.00
PARKING LOT AND RECREATION													
42	CONSTRUCT 7" PAVEMENT (TYPE L65)	SY	2,574	\$60.00	\$154,440.00	\$ 69.33	\$ 178,455.42	\$ 154,370.67	\$ 85.15	\$ 219,176.10	\$ (64,736.10)	\$ 75.00	\$ 193,050.00
43	CONSTRUCT 6" PCC RECREATIONAL TRAIL	SF	61,670	\$7.50	\$462,525.00	\$ 8.86	\$ 546,396.20	\$ 462,516.14	\$ 8.00	\$ 493,360.00	\$ (30,835.00)	\$ 7.75	\$ 477,942.50
44	CONSTRUCT 5" PCC SIDEWALK	SF	2,802	\$6.00	\$16,812.00	\$ 7.67	\$ 21,491.34	\$ 16,804.33	\$ 12.00	\$ 33,624.00	\$ (16,812.00)	\$ 6.75	\$ 18,913.50
45	CONSTRUCT CURB RAMP	SF	84	\$9.00	\$756.00	\$ 52.42	\$ 4,403.28	\$ 703.58	\$ 32.96	\$ 2,768.64	\$ (2,012.64)	\$ 37.00	\$ 3,108.00
46	SAW CUT AND REMOVE CURB	LF	74	\$5.00	\$370.00	\$ 16.92	\$ 1,252.08	\$ 353.08	\$ 20.85	\$ 1,542.90	\$ (1,172.90)	\$ 13.75	\$ 1,017.50
47	PERMANENT PAINT MARKING - 24" WHITE	LF	30	\$3.00	\$90.00	\$ 17.88	\$ 536.40	\$ 72.12	\$ 54.60	\$ 1,638.00	\$ (1,548.00)	\$ 57.00	\$ 1,710.00
48	PERMANENT PAINT MARKING - 4" WHITE	LF	400	\$1.00	\$400.00	\$ 2.68	\$ 1,072.00	\$ 397.32	\$ 5.50	\$ 2,200.00	\$ (1,800.00)	\$ 5.75	\$ 2,300.00
49	PERMANENT PAINT MARKING SYMBOL - TYPE HANDICAPPED SYMBOL, WHITE	EA	2	\$300.00	\$600.00	\$ 154.96	\$ 309.92	\$ 445.04	\$ 272.85	\$ 545.70	\$ 54.30	\$ 286.00	\$ 572.00
50	INSTALL HANDICAPPED PARKING SIGN AND POST	EA	2	\$300.00	\$600.00	\$ 393.35	\$ 786.70	\$ 206.65	\$ 381.95	\$ 763.90	\$ (163.90)	\$ 400.00	\$ 800.00
51	INSTALL BOLLARD	EA	1	\$1,000.00	\$1,000.00	\$ 1,793.93	\$ 1,793.93	\$ (793.93)	\$ 1,636.85	\$ 1,636.85	\$ (636.85)	\$ 1,715.00	\$ 1,715.00
52	INSTALL STOP SIGN	EA	1	\$200.00	\$200.00	\$ 476.79	\$ 476.79	\$ (276.79)	\$ 381.95	\$ 381.95	\$ (181.95)	\$ 400.00	\$ 400.00
53	INSTALL 4" AGGREGATE TRAIL SURFACING	SY	495	\$3.00	\$1,485.00	\$ 36.41	\$ 18,022.95	\$ 1,448.59	\$ 29.40	\$ 14,553.00	\$ (13,068.00)	\$ 19.00	\$ 9,405.00
54	CONSTRUCT 18" CMP	LF	186	\$100.00	\$18,600.00	\$ 41.52	\$ 7,722.72	\$ 18,558.48	\$ 94.95	\$ 17,660.70	\$ 939.30	\$ 188.00	\$ 34,968.00
55	CONSTRUCT 18" CMP FLARED END SECTION	EA	7	\$500.00	\$3,500.00	\$ 680.91	\$ 4,766.37	\$ 2,819.09	\$ 390.95	\$ 2,736.65	\$ 763.35	\$ 1,356.00	\$ 9,492.00
56	CONSTRUCT 18" NYLOPLAST BASIN	EA	3	\$2,500.00	\$7,500.00	\$ 3,681.89	\$ 11,045.67	\$ 3,818.11	\$ 5,456.15	\$ 16,368.45	\$ (8,868.45)	\$ 4,855.00	\$ 14,565.00
57	CONSTRUCT 30" CMP	LF	36	\$150.00	\$5,400.00	\$ 74.88	\$ 2,695.68	\$ 5,325.12	\$ 152.80	\$ 5,500.80	\$ (100.80)	\$ 252.00	\$ 9,072.00
58	CONSTRUCT 30" CMP FLARED END SECTION	EA	2	\$950.00	\$1,900.00	\$ 865.86	\$ 1,731.72	\$ 1,034.14	\$ 775.35	\$ 1,550.70	\$ 349.30	\$ 1,577.00	\$ 3,154.00
59	CONSTRUCT 42" CMP	LF	269	\$200.00	\$53,800.00	\$ 114.27	\$ 30,738.63	\$ 53,685.73	\$ 170.51	\$ 45,867.19	\$ 7,932.81	\$ 416.00	\$ 111,904.00
60	CONSTRUCT 42" CMP FLARED END SECTION	EA	10	\$2,400.00	\$24,000.00	\$ 1,357.09	\$ 13,570.90	\$ 22,642.91	\$ 1,521.20	\$ 15,212.00	\$ 8,788.00	\$ 4,110.00	\$ 41,100.00
61	INSTALL CLASS A/B BLEND RIP RAP	TON	339	\$95.00	\$32,205.00	\$ 78.27	\$ 26,533.53	\$ 32,126.73	\$ 142.96	\$ 48,463.44	\$ (16,258.44)	\$ 172.00	\$ 58,308.00
62	CONSTRUCT GEOWEB SERVICE BOAT RAMP	EA	1	\$25,000.00	\$25,000.00	\$ 29,201.41	\$ 29,201.41	\$ (4,201.41)	\$ 36,576.05	\$ 36,576.05	\$ (11,576.05)	\$ 19,620.00	\$ 19,620.00
63	CONSTRUCT GEOWEB SHORE LAUNCH RAMP	EA	1	\$12,000.00	\$12,000.00	\$ 28,789.08	\$ 28,789.08	\$ (16,789.08)	\$ 22,735.00	\$ 22,735.00</			