

Memorandum

To: Programs, Projects, and Operations Subcommittee
From: Lori Ann Laster, Stormwater Management Engineer
Date: April 4, 2023
RE: Contract Amendment 4 with HDR for WP4

In May 2017, the Board selected HDR Engineering, Inc. (HDR) for the preliminary design of West Papillion Regional Basin Number 4 (WP-4), Dam Site 19 (DS19), and Dam Site 12 (DS12) Projects. Preliminary design was completed in 2018. The contract has since been amended to provide final design, design adjustments, bidding services, and construction administration services.

This proposed contract amendment includes additional bidding services for rebidding the project in December 2023, which included some modifications to the design plans, and additional right-of-way services for platting the land acquisition as required by the City of Gretna.

The proposed amendment, cost estimate and schedule are attached. HDR will provide the professional services on an hourly basis not to exceed the amount of \$64,872 bringing the total contract amount to \$3,663,826.

Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute Amendment #4 with HDR Engineering, Inc. for Professional Engineering Services for modifications to the Final Design of the WP4 Project in an amount not to exceed \$64,872, bringing the total contract amount to \$3,663,826 subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.

This is **EXHIBIT K**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated May 22, 2017.

AMENDMENT TO OWNER-ENGINEER AGREEMENT
Amendment No. 4

The Effective Date of this Amendment is: _____, 2023.

Background Data

Effective Date of Owner-Engineer Agreement: May 22, 2017

Owner: Papio-Missouri River Natural Resources District (P-MRNPD)

Engineer: HDR Engineering, Inc. (HDR)

Project: Preliminary Design of Dam Site 12, Dam Site 19, and Regional Detention Basin WP-4.

Nature of Amendment: [Check those that are applicable and delete those that are inapplicable.]

- ☒ Additional Services to be performed by Engineer
- ☒ Modifications to services of Engineer
- ☐ Modifications to responsibilities of Owner
- ☒ Modifications of payment to Engineer
- ☐ Modifications to time(s) for rendering services
- ☐ Modifications to other terms and conditions of the Agreement

Description of Modifications:

- a. Modify Article 7 – Definitions, 7.01.A.24 Maximum Amount. Remove “three million, five hundred ninety-eight thousand, nine hundred and fifty four dollars (\$3,598,954.00).” and replace with “three million, six hundred sixty-three thousand, eight hundred and twenty-six dollars (\$3,663,826.00).”
- b. The Scope of Services currently authorized to be performed by Engineer in accordance with the Agreement and previous amendments, if any, is modified as follows:
 - 1) Exhibit A, “Engineer’s Services”, shall be amended to include Exhibit A-4, Engineer’s Services for Amendment No. 4 and Attachment 1 to Exhibit A-4.
 - 2) Exhibit C, “Payments to Engineer for Services and Reimbursable Expenses” shall be amended to include Appendix 2 to Exhibit C-4.

Agreement Summary:

Original agreement amount: \$ 2,043,823
Dam Site 12 \$707,140
Dam Site 19 \$717,403
Basin WP-4 \$619,280

Net contract change for Amendment No. 1: \$ 1,434,813
WP-4 Phases II and III Services: \$ 1,498,745
WP-4 Credit for Remaining Phase I Services: -\$ 63,932

Amendment No. 2:
Phase II Services: \$ 68,972

Amendment No. 3:
Phase II Services: \$ 51,346

Amendment No. 4:
Phase II Services: \$ 64,872

Adjusted Agreement amount: \$ 3,663,826

Change in time for services (days or date, as applicable): Seven months.

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement, including those set forth in Exhibits C, C-1, C-2, C-3 and C-4.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect.

OWNER:

Papio-Missouri River Natural Resources District

By: _____

Print

Name: John Winkler

Title: General Manager

Date Signed: _____

ENGINEER:

HDR Engineering, Inc.

By: _____

Print

Name: Matthew Tondl, P.E.

Title: Senior Vice President

Date Signed: _____

AMENDMENT NO. 4

Engineer's Services for Amendment No. 4

PART 1 – BASIC SERVICES

Papio-Missouri River Natural Resources District
Final Design and Construction Services for WP-4
Papillion Creek Watershed, Sarpy County, NE



ENGINEERING PROPOSAL

BACKGROUND AND BASIS OF PROPOSAL

This Scope of Services is to document professional services to the P-MRNRD for a final design and construction of regional detention basin WP-4 (Project). The scope is divided into Phase II – Final Design and Phase III – Construction Management Services.

The purposes of Amendment No. 4 is to modify the existing Agreement in order to reflect additional time and effort related to the re-bidding of the Project and Kindbeiter property platting activities.

Final Design and Construction Phases

Amendment No. 4 addresses modifications to the following task series included in Phase II and III:

- Task Series 100 – Project Management
- Task Series 300 – Geotechnical Investigation and Design
- Task Series 400 – Main Dam Design
- Task Series 500 – General and Site Civil Design
- Task Series 800 – Non-Technical Specifications
- Task Series 900 – Contract Document Submittals
- Task Series 1000 – Survey & ROW
- Task Series 1100 – Bidding Services

The Team proposes to provide the following design phase professional services within 5 additional months of the previously anticipated 35-months. The construction phase of 22 months is unchanged.

TASK SERIES 100 – PROJECT MANAGEMENT

Modify:

Task 110 Project Management.

- Additional project management tasks related to five additional months of design & bidding services.
- Re-bid strategy meetings & conferences
- Develop rendering for FEMA press conference.

Task 120 Coordination Meetings.

- Coordination & strategy meetings with Dewatering Contractor

MODIFIED VERSION of

February 2023

Attachment 1 to Exhibit A-4 – Proposed Scope of Services for Amendment No. 4

TASK SERIES 300 – GEOTECHNICAL INVESTIGATION AND DESIGN

Modify:

Task 340 Technical Specifications

- Revise dewatering specifications.

TASK SERIES 400 – MAIN DAM DESIGN

Modify:

Task 450 Contract Document Preparation

- Re-bid strategy meetings & conferences
- Revise plan sheets to reflect a unit price contract instead of lump sum.
- Revise specifications to reflect a unit price contract instead of lump sum.
- Revise plan sheets based on final DNR Dam Safety comments.
- Revise opinion of probable construction cost based upon current bidding climate and previous bids received.

TASK SERIES 500 – GENERAL AND SITE CIVIL DESIGN

Modify:

Task 530 Utilities and Sanitary Sewer Improvements

- Revise plan and specifications to include mixer basin in lift station at request of City of Gretna.

TASK SERIES 800 – NON-TECHNICAL SPECIFICATIONS

Modify:

Task 820 Division 01 – General Requirements

- Revise front-end specifications to reflect a unit price contract instead of lump sum, including, but not limited to, Measurement and Payment and Bid Form.

TASK SERIES 900 – CONTRACT DOCUMENT SUBMITTALS

Modify:

Task 920 Final Submittal – Issue for Bid

- Compile re-bid package.

TASK SERIES 1000 – SURVEY & ROW

Modify:

Task 1030 Acquisition and ROW

- Develop platting documents for Kindbeiter property.
- Attend City of Gretna Planning Commission meeting.
- Facilitate signatures for mylars.

TASK SERIES 1100 – BIDDING SERVICES

Modify: **Task 1110 Prepare Bid Documents**

- Provide electronic copy of re-bid document package to, and coordinate with, Issuing Agency.

Modify: **Task 1120 Pre-Bid/Site Showing**

- Facilitate and attend pre-bid conference, including preparation of agenda, meeting notes, and question responses.

Modify: **Task 1130 Bidding Assistance**

- Answer design/construction questions during re-bidding phase. Prepare addenda to bid package and coordinate with Issuing Agency for distribution to Contractors.

Modify: **Task 1140 Bid Opening and Award Recommendation**

- Attend the re-bid opening. Tabulate bidder's costs, review bids, and prepare recommendation of award letter.

Draft - For Review

JEO CONSULTING GROUP INC - ESTIMATED HOURS/COSTS PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT Amendment #4 FEE ESTIMATE - December 2022									
JEO Consulting Group Inc. Estimated Hours/Costs									Est. Total Cost
TASKS	Project Manager	Sr. PE and QC	PE	EIT	CAD/GIS	Surveyor	Admin/ Clerical	Total Hours	Totals
2022	\$ 210.00	\$ 220.00	\$ 165.00	\$ 130.00	\$ 145.00	\$ 110.00	\$ 85.00		
TASK SERIES 100 DESIGN/BIDDING PROJECT MANAGEMENT									
Task 110	Project Management (+5 Months)	12			8	10		28	\$4,750
	Estimated Task Hours Subtotal	12	0	0	6	10	0	28	
	Estimated Task Cost Subtotal	\$2,520	\$0	\$0	\$780	\$1,450	\$0	\$4,750	\$4,750
TASK SERIES 400 MAIN DAM DESIGN									
Task 410	Hydrology and Hydraulic Modeling							0	\$0
Task 420	Embankment and Spillways Design							0	\$0
Task 430	Structural Design							0	\$0
Task 440	Basis of Design Report							0	\$0
Task 450	Progress Contract Document Preparation							0	\$0
Subtask 450.1	Drawing Preparation	8			16	8		108	\$15,040
Subtask 450.2	Technical Specifications	6			16			22	\$3,340
Subtask 450.3	Opinion of Probable Construction Cost	1			1			2	\$340
Task 460	Quality Control		2					2	\$440
	Estimated Task Hours Subtotal	15	2	0	33	84	0	134	
	Estimated Task Cost Subtotal	\$3,150	\$440	\$0	\$4,290	\$12,180	\$0	\$20,060	\$20,060
TASK SERIES 500 GENERAL AND SITE CIVIL DESIGN									
Task 530	Utilities and Sanitary Sewer Improvements								
Subtask 530.2	New Schram Lift Station		10	15		18		43	\$7,285
	Estimated Task Hours Subtotal	0	10	15	0	18	0	43	
	Estimated Task Cost Subtotal	\$0	\$2,200	\$2,475	\$0	\$2,610	\$0	\$7,285	\$7,285
TASK SERIES 800 NON-TECHNICAL SPECIFICATIONS									
Task 810	Division 00 - Procurement							0	\$0
Task 820	Division 01 - General Requirements				10			12	\$1,720
	Estimated Task Hours Subtotal	2	0	0	10	0	0	12	
	Estimated Task Cost Subtotal	\$420	\$0	\$0	\$1,300	\$0	\$0	\$1,720	\$1,720
TASK SERIES 900 CONTRACT DOCUMENT SUBMITTALS									
Task 910	Draft Final Submittal								
Subtask 910.1	Compile Submittal							0	\$0
Subtask 910.2	Pre-Final Design Review Meeting							0	\$0
Task 920	Final Submittal - Issue for Bid				4			10	\$1,680
	Estimated Task Hours Subtotal	6	0	0	4	0	0	10	
	Estimated Task Cost Subtotal	\$1,260	\$0	\$0	\$520	\$0	\$0	\$1,780	\$1,680
TASK SERIES 1000 SURVEY AND RIGHT-OF-WAY									
Task 1010	Update Base Map Elements							0	\$0
Task 1020	Supplemental Topographic Survey							0	\$0
Task 1030	Acquisition and ROW	5			10	2	30	47	\$5,940
Task 1040	Section 404 Baseline Surveys							0	\$0
	Estimated Task Hours Subtotal	5	0	0	10	2	30	47	
	Estimated Task Cost Subtotal	\$1,050	\$0	\$0	\$1,300	\$290	\$3,300	\$5,940	\$5,940
TASK SERIES 1100 BIDDING SERVICES									
Task 1110	Prepare Documents for Distribution	4			2			6	\$1,100
Task 1120	Pre-Bid/Site Showing	4	3		8			15	\$2,540
Task 1130	Bidding Assistance	4			8	4		16	\$2,480
Task 1140	Bid Opening and Award Recommendation	2						2	\$420
	Estimated Task Hours Subtotal	14	3	0	18	4	0	39	
	Estimated Task Cost Subtotal	\$2,940	\$660	\$0	\$2,340	\$580	\$0	\$6,520	\$6,520
	TOTAL HOURS	54	15	15	71	118	30	301	
	TOTAL COST (ROUNDED)	\$ 11,340	\$ 3,300	\$ 2,475	\$ 10,530	\$ 17,110	\$ 3,300	\$ 48,055	\$ 47,955
Total Amendment #2									\$47,955

MODIFIED VERSION of

February 2023

Attachment 1 to Exhibit A-4 – Proposed Scope of Services for Amendment No. 4

Fee Schedule

APPENDIX 2 PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT PHASE II: FINAL DESIGN AND PHASE III: CONSTRUCTION CONTRACT ADMINISTRATION OF WP-4 FEE ESTIMATE - AMENDMENT NO. 4 - FEBRUARY 2023																		
HDR Engineering, Inc. Estimated Hours/Costs															Subconsultants			Est. Total Cost
TASKS	Project Manager	Specialist	Principal Staff	Senior Staff	Technical Staff	Tech Support	Admin/ Clerical	Total Hours	Total Labor Cost	Printing	Travel	Misc.	Total Expenses	Totals	JEO	Thiele Geotech	Total Sub-Consult.	
Design Phase 2021	\$ 259.00	\$ 280.00	\$ 255.00	\$ 215.00	\$ 132.00	\$ 106.00	\$ 95.00											
Bidding & Construction 2022/2023	\$ 272.00	\$ 294.00	\$ 268.00	\$ 228.00	\$ 140.00	\$ 110.00	\$ 100.00											
TASK SERIES 100 DESIGN/BIDDING PROJECT MANAGEMENT																		
Task 110	Project Management (5 months)	1			4		2		\$1,384				\$0	\$1,384	\$4,750		\$4,750	\$6,134
Task 120	Coordination Meetings (5)	4			8	4			\$3,284				\$0	\$3,284			\$0	\$3,284
Estimated Task Hours Subtotal		5	0	0	12	4	2	23										
Estimated Task Cost Subtotal		\$1,360	\$0	\$0	\$2,736	\$560	\$200		\$4,668	\$0	\$0	\$0	\$0	\$4,668	\$4,750	\$0	\$4,750	\$9,418
TASK SERIES 300 GEOTECHNICAL INVESTIGATION AND DESIGN																		
Task 340	Technical Specifications	2			4	16		22	\$3,696				\$0	\$3,696			\$0	\$3,696
Estimated Task Hours Subtotal		2	0	0	4	16	0	22										
Estimated Task Cost Subtotal		\$544	\$0	\$0	\$912	\$2,240	\$0		\$3,696	\$0	\$0	\$0	\$0	\$3,696	\$0	\$0	\$0	\$3,696
TASK SERIES 400 MAIN DAM DESIGN																		
Task 450	Progress Contract Document Preparation																	
Subtask 450.1	Drawing Preparation							0	\$0				\$0	\$0	\$15,940		\$15,940	\$15,940
Subtask 450.2	Technical Specifications							0	\$0				\$0	\$0	\$3,340		\$3,340	\$3,340
Subtask 450.3	Opinion of Probable Construction Cost							0	\$0				\$0	\$0	\$340		\$340	\$340
Task 460	Quality Control							0	\$0				\$0	\$0	\$440		\$440	\$440
Estimated Task Hours Subtotal		0	0	0	0	0	0	0										
Estimated Task Cost Subtotal		\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$20,060	\$0	\$20,060	\$20,060
TASK SERIES 500 GENERAL AND SITE CIVIL DESIGN																		
Task 530	Utilities and Sanitary Sewer Improvements							0	\$0				\$0	\$0	\$7,285		\$7,285	\$7,285
Subtask 530.2	New Schram Lift Station							0	\$0				\$0	\$0	\$7,285		\$7,285	\$7,285
Estimated Task Hours Subtotal		0	0	0	0	0	0	0										
Estimated Task Cost Subtotal		\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$7,285	\$0	\$7,285	\$7,285
TASK SERIES 800 NON-TECHNICAL SPECIFICATIONS																		
Task 820	Division 01 – General Requirements				6			6	\$1,368				\$0	\$1,368	\$1,720		\$1,720	\$3,088
Estimated Task Hours Subtotal		0	0	0	6	0	0	6										
Estimated Task Cost Subtotal		\$0	\$0	\$0	\$1,368	\$0	\$0		\$1,368	\$0	\$0	\$0	\$0	\$1,368	\$1,720	\$0	\$1,720	\$3,088
TASK SERIES 900 CONTRACT DOCUMENT SUBMITTALS																		
Task 920	Final Submittal - Issue for Bid				4			4	\$912				\$0	\$912	\$1,680		\$1,680	\$2,592
Estimated Task Hours Subtotal		0	0	0	4	0	0	4										
Estimated Task Cost Subtotal		\$0	\$0	\$0	\$912	\$0	\$0		\$912	\$0	\$0	\$0	\$0	\$912	\$1,680	\$0	\$1,680	\$2,592
TASK SERIES 1000 SURVEY AND RIGHT-OF-WAY																		
Task 1030	Acquisition and ROW							0	\$0				\$0	\$0	\$5,940		\$5,940	\$5,940
Estimated Task Hours Subtotal		0	0	0	0	0	0	0										
Estimated Task Cost Subtotal		\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$5,940	\$0	\$5,940	\$5,940
TASK SERIES 1100 BIDDING SERVICES																		
Task 1110	Prepare Documents for Distribution				4			4	\$912				\$0	\$912	\$1,100		\$1,100	\$2,012
Task 1120	Pre-Bid/Site Showing				4			6	\$1,448	\$50	\$44		\$94	\$1,542	\$2,540		\$2,540	\$4,082
Task 1130	Bidding Assistance				8		4	14	\$2,800				\$0	\$2,800	\$2,460		\$2,460	\$5,260
Task 1140	Bid Opening and Award Recommendation				2			4	\$992	\$10	\$17		\$27	\$1,019	\$420		\$420	\$1,439
Estimated Task Hours Subtotal		0	0	6	18	0	4	28										
Estimated Task Cost Subtotal		\$0	\$0	\$1,608	\$4,104	\$0	\$440		\$6,152	\$60	\$61	\$0	\$121	\$6,273	\$6,520	\$0	\$6,520	\$12,793
Estimated Task Hours Subtotal		7	0	6	44	20	4	83										
Estimated Task Cost Subtotal		\$1,904	\$0	\$1,608	\$10,032	\$2,800	\$440		\$16,796	\$60	\$61	\$0	\$121	\$16,917	\$47,955		\$47,955	\$64,872

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Appendix 2 to Exhibit C-4 – Engineer’s Fee Estimate for Amendment No. 3