

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

FROM: Martin P. Cleveland, Construction Engineer

SUBJECT: Little Papillion Creek Channel Stabilization Project
(W. Center Rd and 68th Street) Change Order No. 1 and
Contract Amendment No. 1

DATE: March 3, 2016

The Little Papillion Creek Channel Stabilization Project (Project) is located near W. Center Road and 68th Street on the right bank of the creek. Enclosed is a location map. The project involves repairing a slough area with rock filled key trenches and toe revetment. On February 16, 2016, the District's contractor, Bayshore Contractors, LLC commenced work on the project. On February 17, 2016, during a site visit it was noticed that a small vertical scarp had developed immediately downstream of the project area. Based on the observed site conditions and experience in the area, this slough is likely a southward extension of the existing slope movement and independent of the construction activity. Enclosed is a site photograph. The scarp is about 75 ft. long and is anticipated to worsen with time.

The contract for the referenced project has a length of 269 feet and a lump sum cost of \$173,780. The Project was bid to construct 23 trenches spaced 12.5 feet on center. The spacing was modified to construct 20 trenches spaced on 15 feet center. During construction of the first three trenches, the contractor encountered buried riprap, which was an unforeseen site condition. This required additional work effort to install the trenches. The deduction (or credit) for construction of 20 trenches instead of 23, less the cost associated with the unforeseen site condition for the first three trenches, is \$9,470.

In order to repair the 75 foot long scarp, it will require the installation of 5 additional rock filled trenches and expansion of the project rock toe revetment. The cost is \$55,396, which amounts to a 32% increase in the project construction cost and as such requires Board approval (copy of change order is enclosed). The cost reflects the uncertainty of the extent of the buried revetment south of the first three trenches constructed as part of the original project. In addition, there will be added engineering (design and inspection) needed for the project amounting to \$12,730 beyond the original HDR Engineering contract of \$134,754, which will require a contract amendment (copy of amendment is enclosed).

The District's engineering consultant and Management have concluded that it makes sense to repair the new scarp/slough at this time rather than mobilizing a contractor later and preparing a separate design, contract, etc.

It is Management's recommendation that the Subcommittee recommend to the Board of Directors, that the General Manager be authorized to execute proposed Change Order No. 1 in the amount of \$45,926 (\$55,396 - \$9,470) to the contract with Bayshore Contractors LLC, bringing the total construction contract amount to \$219,706; and also execute proposed Amendment No. 1 in the amount of \$12,730 to the contract with HDR Engineering Inc. bringing the total professional services contract not to exceed amount to \$147,484, all for the Little Papillion Creek Channel Stabilization Project located near 68th and West Center Road.



Project Name:
Little Papillion Creek Channel Stabilization
Project Owner:
PMNRD
CM/Project Contractor:
Bayshore Contractors, LLC

Change Order: 1

HDR Project No :
283423

Owner's Project No:
532 A

Date of Issuance:
3/3/2016

Date of Contract:
1/29/2016

Contract Period:
0



It is agreed to modify the Contract referred to above as follows:

CPR #	Item and Description of Changes	Change In Contract Price	Change In Contract Time
1	Revised Sheet 3 of 4 (Issue 3)	\$45,926.00	1
	Difference Net	\$45,926.00	1

Summary: It is agreed to modify the Contract referred to above as follows:

Contract Price prior to this Change Order	Contract Time prior to this Change Order
\$173,780.00	0
Net Increase (Decrease) of this Change Order	Net Increase (decrease) of this Change Order
\$45,926.00	1
Revised Contract Price with all approved Change Orders	Revised Contract Time with all approved Change Orders
\$219,706.00	1

The change included in this Change Order are to be accomplished in accordance with the terms, stipulations and conditions of the original contract as though included therein.


Accepted for Contractor by

Recommended for Approval By (HDR Engineering, Inc.)

3-3-2016

Date:
03/03/2016

Approved for Owner by:

Date:

Approved: (Other - when Required):

Date:



Change Proposal Request No: 1

(Not a Change Order)

Project Name:

Little Papillion Creek Channel Stabilization

HDR Project No:

263423

Contractor:

Bayshore Contractors, LLC

Project Owner:

PMNRD

Owner's Project No. (If applicable):

532 A

Regulatory Agency Project No. (If applicable):**Initiated by**☒ Engineer ☐ CM/Contractor**Date:**

2/25/2016

Attention:

The following change in the contract on this project is proposed. Please provide your proposed price for the cost of this change.

- 1) A breakdown of cost SHALL be provided upon request by the Owner or Engineer.
- 2) Work shall not commence until authorized by the Owner.

Description of Proposed Change :

Remove and replace Sheet 3 of 4 (Issue 2) to reflect the revised number and spacing of the rock-filled trenches. Excluding the test rock-filled trench, this revision (Issue 3) requires the construction of 20 rock-filled trenches instead of 23 (Issue 2). Provide cost for credit associated with the reduction of 3 trenches. In addition, provide cost for extending the rock riprap at the toe of slope to Station 285+96, and construction of 5 additional rock-filled trenches as shown on Sheet 3 of 4 (Issue 3). Costs to include materials, labor, and incidentals necessary to fully complete the additional rock-filled trenches.

Amend Section 00500 - Agreement, Article 3.1 to "All Work, with the exception of the seeding, erosion control, and top soiling, will be substantially completed by March 21, 2016. Seeding, erosion control, and top soiling will be completed by April 1, 2016, and ready for final payment in accordance with the General Conditions, as amended by the Supplementary Conditions, for total Bid Items."

Section # Filter:**File Attachments:**

20160225_Revised Plan Sheet 3 of 4.pdf

By



Change Proposal Request No: 1

(Not a Change Order)

Project Name:

Little Papillion Creek Channel Stabilization

HDR Project No:

263423

Contractor:

Bayshore Contractors, LLC

Project Owner:

PMNRD

Owner's Project No. (If applicable):

532 A

Regulatory Agency Project No. (If applicable):

Initiated by

☒ Engineer ☐ CM/Contractor

Date:

2/25/2016

All work shall be in accordance with the terms, stipulations, and conditions of the original Contract Documents. If the work herein provided for is Approved by Change Order, the time of completion will be:

☒ Increased ☐ Decreased ☐ Unchangedby 20 calendar days.This change will: ☒ Add ☐ Deduct ☐ Not Change

\$45,926.00

General Contractor

3-3-2016

Date

HDR Recommendation:

☒ Recommend Acceptance☐ Do Not Recommend Acceptance

By: HDR Engineering, Inc.

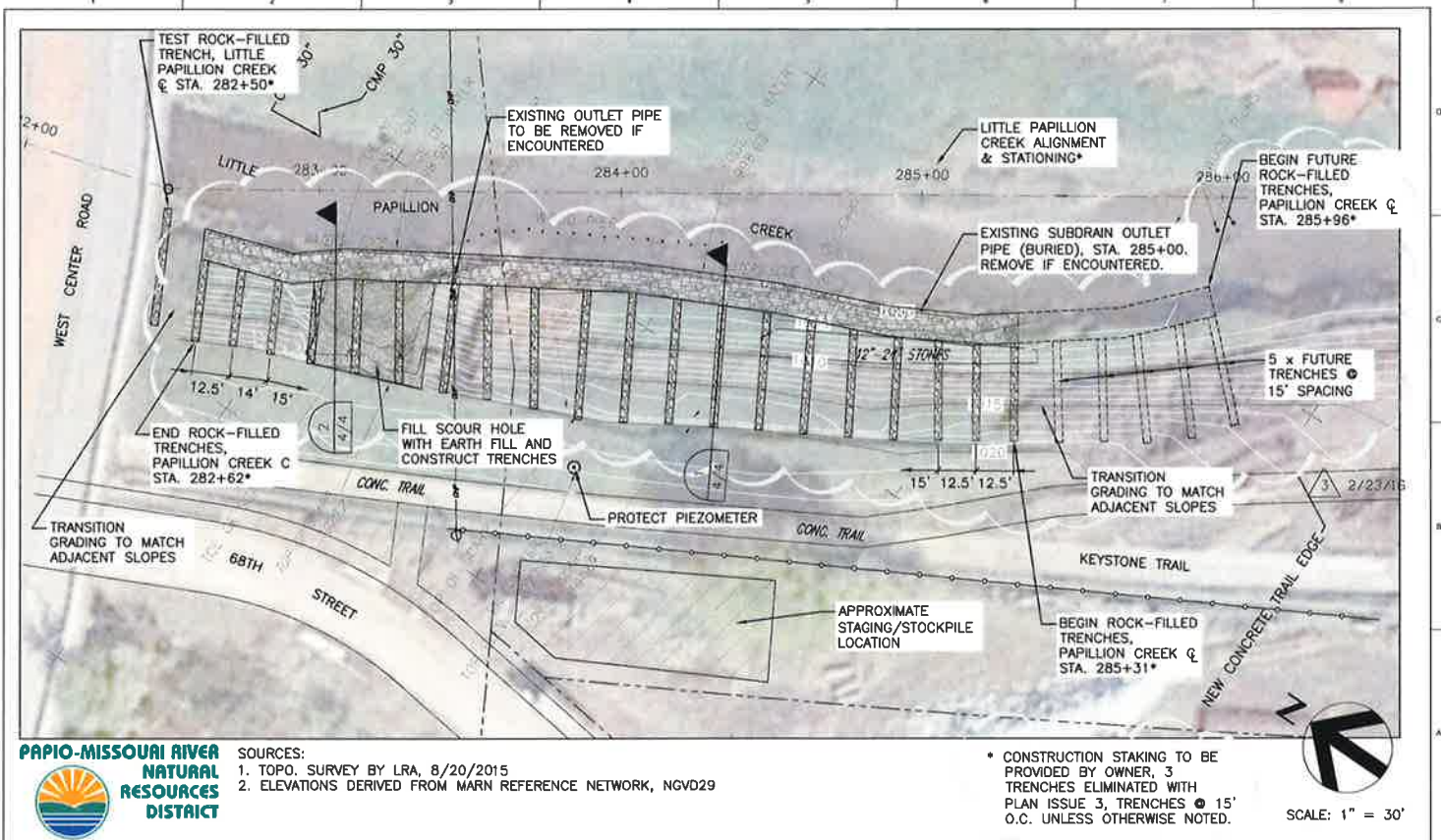
Date 03/03/2016

Owner's Action:

☐ Accepted ☐ Not Accepted

By: Owner

Date



NO.	DATE	DESCRIPTION	PROJECT NUMBER	CONTRACT NUMBER
1	08/20/2015	TOPO. SURVEY BY LRA		
2	08/20/2015	ELEVATIONS DERIVED FROM MARN REFERENCE NETWORK, NGVD29		

LITTLE PAPILLION CREEK
CHANNEL STABILIZATION
PLAN



3 OF 4

BAYSHORE CONTRACTORS LLC

3568 Dodge Street
Omaha NE 6818 Dodge Street, Suite 200
Omaha NE 68131

March 2, 2016

ATTN: Martin Cleveland

Papio-Missouri River Natural Resources District

8901 South 154th Street
Omaha, Nebraska 68138

Dear Mr. Cleveland,

In response for your request that Bayshore Contractors LLC provide a quote regarding extra work on the Little Papillion Creek Channel Stabilization Project (Project No. 532A). Please see below Bayshore's proposal to perform the proposed 75 feet of extra bank stabilization directly south of the existing site work.

*Please note: Line Item #1, Project Incidentals, refers to replacing the extra length of bike path, removing and replacing chain link fence, anticipated extra time required to excavate and re-compact finger trenches due to saturated/silty material.

*Bayshore Contractors LLC anticipates this extra work to be completed in 30 days (weather permitting).

CHANGE ORDER #1

Date : **3/2/2016**

TO: Papio-Missouri River Natural
Resources District

Proposal # **1**

Att: Martin Cleveland

Job: Little Papillion Creek Channel
Stabilization Project
Project #532A

BayShore

Contractors LLC

Small Business ☒
 8(a) Certified Joint Ventures ☒
 HUBZone ☒
 African American ☒
 ESB Certified ☒

Item	Description	Quantity	Unit	Unit Price	Price
1	Project Incidentals	1	LS	\$ 5,000.00	\$ 5,000.00
2	Earthwork Embankment	1	LS	\$ 4,200.00	\$ 4,200.00
3	NDOR Type C RipRap	133	LS	\$ 87.00	\$ 11,571.00
4	Geotextile	1250	SY	\$ 5.00	\$ 6,250.00
5	Rock Filled Trench	125	CY	\$ 135.00	\$ 16,875.00
6	Earthwork Haul Off	250	EA	\$ 16.00	\$ 4,000.00
7	Seeding	1	LS	\$ 1,000.00	\$ 1,000.00
8	Erosion Control Fabric	1	LS	\$ 1,500.00	\$ 1,500.00
9	Demobilization	1	LS	\$ 5,000.00	\$ 5,000.00
10	CREDIT FOR 3 ROCK FINGERS FROM ORIGINAL CONTRACT	1	LS	\$ (9,470.00)	\$ (9,470.00)
				Proposed Total	\$ 45,926.00

Respectfully Submitted By
 Brian Armbrust
 Project Manager

Bayshore Contractors LLC
 Cell (402)980-7394
 Office (402)504-3966
 Fax (402)345-6404
barmbrust@bayshoreusa.com



March 3, 2016

Mr. Marlin Peterman, P.E.
Papio-Missouri River Natural Resources District
8901 South 154th Street
Omaha, NE 68138-3621

RE: Little Papillion Creek Right Bank Channel Stabilization

Dear Marlin:

Enclosed please find two signed copies of the contract amendment for the Little Papillion Creek Right Bank Channel Stabilization Project. Please sign both copies, retain one for your files, and return the other for our files.

We appreciate the opportunity to work with the District. If you have any questions do not hesitate to contact me at (402) 399-4917.

Sincerely,
HDR Engineering, Inc.

A handwritten signature in blue ink, reading 'Patrick J. Engelbert'.

Patrick J. Engelbert
Project Manager

This is **EXHIBIT J**, consisting of 1 page, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated June 30, 2015.

AMENDMENT TO OWNER-ENGINEER AGREEMENT
Amendment No. 1

1. *Background Data:*

- a. Effective Date of Owner-Engineer Agreement: June 30, 2015
- b. Owner: Papio-Missouri River Natural Resources District
- c. Engineer: HDR Engineering, Inc.
- d. Project: Little Papillion Creek South of West Center Road Channel Right Bank Channel Stabilization

2. *Description of Modifications:*

- a. Engineer shall perform or furnish the following Additional Services:

3. Agreement Summary (Reference only)

a. Original Agreement amount:	\$ <u>134,754.00</u>
b. Net change for prior amendments:	\$ <u>0.00</u>
c. This amendment amount:	\$ <u>12,730.00</u>
d. Adjusted Agreement amount:	\$ <u>147,484.00</u>

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement, including those set forth in Exhibit C.

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. The Effective Date of this Amendment is _____.

OWNER:
Papio-Missouri River Natural Resources
District

ENGINEER:
HDR ENGINEERING, INC.



By: John Winkler

By: Matthew Tondl

Title: General Manager

Title: Sr. Vice President

Date
Signed: _____

Date Signed: 3/3/16

Engineer's Services

Article 1 of the Agreement is supplemented to include the following agreement of the parties.

Engineer shall provide Basic and Additional Services as set forth below.

PART 1 – BASIC SERVICES

**For Papio-Missouri River Natural Resources District
Little Papillion Creek South of West Center Road
Right Bank Channel Stabilization
Douglas County, NE**



ENGINEERING PROPOSAL

BACKGROUND AND BASIS OF PROPOSAL

The purpose of this effort is to amend the contract to provide final design services, obtain permits, contract document specifications and drawing development, and provide construction observation and administration for the Little Papillion Creek Right Bank Channel Stabilization Project (Project). The stabilization effort will be extended south of the existing Project limit from Little Papillion Creek Station 285+31 R to 285+96 R.

SCOPE OF SERVICES – Little Papillion Creek Right Bank Channel Stabilization

The objective of this Project is to provide professional services to the P-MRNRD. The scope of work is segmented into four (4) task series:

Task Series 100 – Project Management
Task Series 200 – Stabilization Design
Task Series 300 – Bidding Assistance
Task Series 400 – Construction Contract Administration

The HDR Team shall provide the following professional services.

TASK SERIES 100 – PROJECT MANAGEMENT

Task Objectives: Coordinate work effort, administer contract, and provide quality control.

HDR Activities: **Task 110 Project Management.** Conduct general project management tasks. Includes development of project initiation forms including the development of a project guide, monthly invoicing, monthly progress reports, project close out activities and other administration project activities.

Task 120 Meetings. Conduct one construction coordination meetings to discuss Project status.

Task Deliverables:

- Monthly invoices and progress reports

Key Understandings:

- Coordination Meeting will be held at the Project site.

TASK SERIES 200 – DESIGN OF CHANNEL STABILIZATION

Task Objectives: HDR will develop final design details of the proposed stabilization extension and perform Section 404 and 408 permit coordination.

HDR Activities:

Task 220 Permitting. Coordinate with regulatory agencies and prepare documentation.

Subtask 220.2 Section 404 Documentation. Coordinate with USACE Project Manager and prepare coordination letter for the Project file.

Subtask 220.3 Section 408 Documentation. Coordinate with USACE Project Office and prepare coordination letter for the Project file.

Task 230 Design. Conduct design modification.

Subtask 230.2 Final Design. Update plan sheet 3 of 4 to reflect additional toe revetment and rock filled trenches

Deliverables:

- Section 404 Coordination Letter
- Section 408 Coordination Letter
- Final Design – updated Sheet 3 of 4

Key Understandings:

- It is assumed that a City of Omaha Post Construction Stormwater Management Plan permit is not required.
- It is assumed that the total area disturbed by grading is less than 1 acre and will not require an NPDES permit or City of Omaha grading permit.

TASK SERIES 400 – CONSTRUCTION ADMINISTRATION

Task Objectives: Provide full-time on-site observation and document construction activities.

HDR Activities:

Task 430 Construction Observation. HDR to conduct full-time on-site observation of work in progress to determine if work is generally proceeding in accordance with the Contract Documents. Anticipated duration of construction is 5 working days from contractor re-mobilization. The level of construction observation effort included in this scope equates to 50 hours (9-hour days for 5 days) for a full-time resident project representative (RPR) for the anticipated duration. Reasonable variations in work days and schedules are anticipated, but no protracted overtime, work stoppages or extended work schedules are anticipated. If the construction schedule exceeds the estimated effort, all parties agree that the contract will be adjusted.

The following activities are to be conducted:

- HDR to provide clarifications and interpretations of Contract Documents to Contractor.
- HDR to assist in negotiating change orders.
- HDR to maintain files for correspondence, shop drawings and samples, change orders and other project related documents.
- HDR to maintain log book to record working days; weather conditions; weekly activities; decisions; and general observations.
- HDR to review and verify applications for payment with Contractor. HDR will provide a recommendation and forward payment application to P-MRNRD.
- HDR to conduct a substantial completion inspection and submit a list of observed items requiring completion or correction. After items on list have been completed or corrected, HDR to issue Certificate of Substantial Completion.
- HDR to conduct a final inspection and submit a list of observed items requiring completion or correction. After items on list have been completed or corrected, HDR to review final payment application.

Task 440 Construction Closeout. HDR to compile construction documentation and prepare record drawing, which will be the final record drawings, corrected to reflect field conditions observed and changes documented by the contractor during the construction period. An addendum to the Operations and Maintenance (O&M) Manual for the Little Papillion Channel

Improvement Project will be prepared and submitted by HDR following approval by P-MRNRD to USACE.

Task Deliverables:

- Construction documentation
- Record drawings
- Addendum to O&M Manual

Key Understandings:

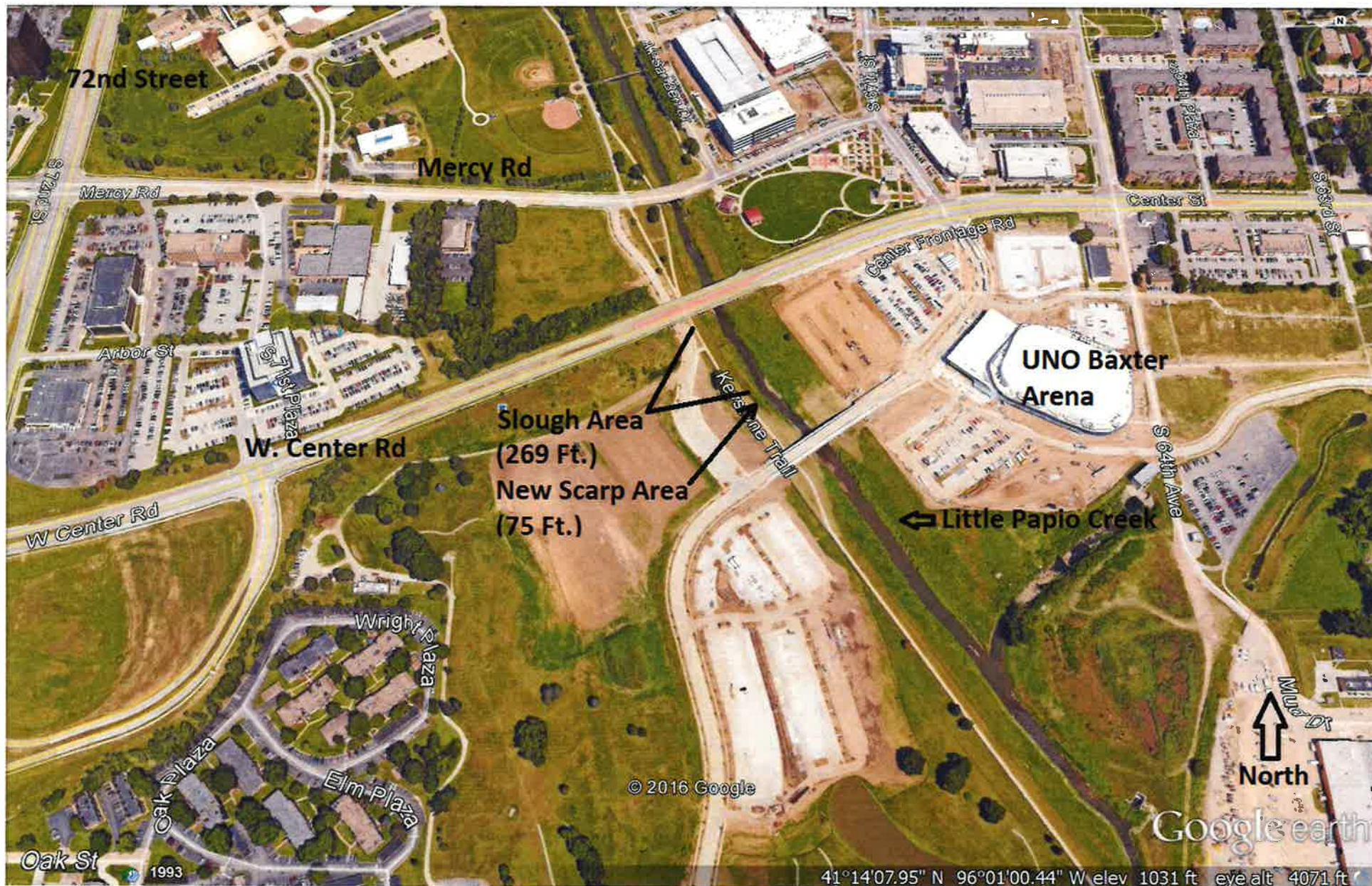
- The Contractor will be responsible for marking up a set of Drawings as changes are identified. Upon completion of construction, the marked-up drawings will be used by HDR in making “record” revisions to the original drawings.

**PAPIO - MISSOURI RIVER NATURAL RESOURCES DISTRICT
LITTLE PAPILLION CREEK RIGHT BANK CHANNEL STABILIZATION SOUTH OF WEST CENTER ROAD
AMENDMENT 1 FEE ESTIMATE**

TASKS		Labor								Expenses				Subconsultants (LRA, Donovan, Thiele)	Est. Total Cost
		Project Manager	Sr Engr/ Technical	Project Engineer/ Scientist	Technical Support	Clerical	Total Hours	Total Labor Cost	Tech. Fee	Printing	Travel	Misc.	Total Expenses		
TASK SERIES 100 – PROJECT MANAGEMENT															
Task 110	Project Management	2				1	3	\$548	\$11				\$11		\$559
Task 120	Meetings														
Subtask 120.1	Coordination Meetings (1 meetings)	2	1	1			4	\$807	\$15		\$47		\$62		\$869
	Estimated Task Hours Subtotal	4	1	1	0	1	7								
	Estimated Task Cost Subtotal	\$868	\$221	\$152	\$0	\$114		\$1,355	\$26	\$0	\$47	\$0	\$73	\$0	\$1,428
TASK SERIES 200 – DESIGN OF CHANNEL STABILIZATION															
Task 210	Geotechnical Investigation														
Subtask 210.1	Laboratory Testing					0	0	\$0	\$0				\$0		\$0
Task 220	Permitting														
Subtask 220.1	Agency Coordination	1				0	0	\$0	\$0				\$0		\$0
Subtask 220.2	Section 404 Documentation	1		1	2	1	5	\$665	\$19		\$13		\$31		\$696
Subtask 220.3	Section 408 Documentation					0	0	\$0	\$0				\$0		\$0
Task 230	Design														
Subtask 230.1	Preliminary Design	1	1	2	2		6	\$924	\$22	\$110			\$132		\$1,056
Subtask 230.2	Final Design														
	Estimated Task Hours Subtotal	2	1	3	4	1	11								
	Estimated Task Cost Subtotal	\$434	\$221	\$456	\$364	\$114		\$1,589	\$41	\$110	\$13	\$0	\$163	\$0	\$1,752
TASK SERIES 300 – BIDDING ASSISTANCE															
Task 310	Bld Modifications					0	0	\$0	\$0				\$0		\$0
Task 320	Pre-Bld Meeting					0	0	\$0	\$0				\$0		\$0
Task 330	Bld Opening					0	0	\$0	\$0				\$0		\$0
	Estimated Task Hours Subtotal	0	0	0	0	0	0								
	Estimated Task Cost Subtotal	\$0	\$0	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TASK SERIES 400 – CONSTRUCTION CONTRACT ADMINISTRATION															
Task 410	Preconstruction Meeting					0	0	\$0	\$0				\$0		\$0
Task 420	Shop Drawing Review					0	0	\$0	\$0				\$0		\$0
Task 430	Construction Observation	4	4	16	40	1	65	\$7,938	\$241		\$63		\$304		\$8,242
Task 440	Construction Closeout	2	2		2	1	7	\$1,172	\$26	\$110			\$136		\$1,308
	Estimated Task Hours Subtotal	6	6	16	42	2	72								
	Estimated Task Cost Subtotal	\$1,302	\$1,326	\$2,432	\$3,822	\$226		\$9,110	\$268	\$110	\$63	\$0	\$440	\$0	\$9,550
TOTAL HOURS		12	8	20	46	4	90								
TOTAL COST		\$ 2,604	\$ 1,768	\$ 3,040	\$ 4,166	\$ 456		\$12,054	\$333	\$220	\$123	\$0	\$678	\$0	\$12,730

Reimbursable Expenses Markup (excludes Tech. Fee)

10%



**Little Papillion Creek Channel Stabilization Project
(W. Center Rd. to Grover Street - Rt. Bank)
Looking Upstream**



**Little Papillion Creek Channel Stabilization
W. Center Rd. to Grover
Looking West**

W. Center Rd.

Riprap Revetment



Rock filled trench installation

Feb. 22, 2016

Little Papillion Creek





**Little Papillion Creek Channel Stabilization
(Grover to W. Center Rd - Rt. Bank)**

02.27.2016