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March 3, 2021

Mr. Tom Johnson
Senior Engineer, City of Duluth
Public Works and Utilities
411 W First Street #240
Duluth, MN 55802

**Subject: Outfalls Rehabilitation, Congdon Boulevard
City of Duluth Contract L 30210
TRC Proposal 401728.9990.0000_Ammended**

Dear Mr. Johnson:

We are pleased to submit this revised proposal for Professional Services for the City of Duluth Bin-Wall Outfall located at 7428 Congdon Boulevard.

This proposal was prepared in response to the reported unforeseen site conditions resulting in project redesign and increased periodic construction administration services.

We appreciate the opportunity to submit this revised proposal. Please let us know if you have any questions.

Sincerely,

Dan Veriotti, PE

A handwritten signature in blue ink, appearing to read 'D. Veriotti'.

Chicago Office Principal Engineer
312.800.5916

1.0 Project Scope

The TRC Team has prepared design plans and specifications for the outfall site and performed construction observations. Unexpected highly fractured bedrock resulted in changing the design from rebar anchors to micro-piles; this also increased the construction timeframe, contractor's means and methods, and our construction administration efforts.

Scope of Work

1. Bottom of Bin Wall & Bedrock Excavation Inspections

Additional site visits were required to investigate the Contractor's work, the bedrock conditions, and the attempted rock drilling techniques. The bedrock was found to be highly fractured and less competent than anticipated.

2. Additional Design Work

As a result of the weak and fractured bedrock encountered, our project team performed a new analysis and created additional design details for the installation of micro-piles to serve as the new bedrock anchors. We worked closely with the Contractor to produce constructible designs utilizing the Contractor's equipment available.

3. Reviewing Change Orders and Producing Engineering Proposal Requests

We have issued several engineering proposal requests and reviewed multiple iterations of change orders from the Contractor. We have negotiated all change orders on behalf of the City to ensure fair change order pricing.

4. Remaining Construction Administration Services

We will complete the remainder of construction administration services for this project, which will include meetings, RFIs, ESIs, Change Orders, Pay Applications, Site Inspections, and Final Walkthrough and Punchlist. We have included four additional site visits, two contractor pay applications, and one Change Order. As-built plans are not included in our scope.

2.0 Fees

Our team will complete all services described in this proposal for a lump sum cost of **\$17,339.00**, including all direct work and associated expenses. The TRC team will complete the work on a Lump Sum (LSUM) basis, in accordance with our approved Standard Terms and Conditions Agreement. The budgets identified in the table above will not be exceeded without CLIENT approval.

A copy of the detailed team cost spreadsheet is attached.

Attachment 2 Work Authorization



Acceptance of TRC Proposal No. 401728.9990.0000

The signature below, by a duly authorized representative of the City of Duluth, indicates acceptance of the above-referenced proposal without exception. Acceptance is limited to the terms stated in this Agreement, and any additional or different terms are rejected unless expressly agreed to in writing by TRC.

Approved and accepted as of the date shown below:

TRC

City of Duluth

By:



Signature

Dan Veriotti, PE

Printed Name

Chicago Office Principal Engineer

Title

3/3/2021

Date

By:



Signature

Tom Johnson

Printed Name

Senior Engineer

Title

3/29/2021

Date

City of Duluth
7428 Congdon Blvd (Bin Wall)
TRC Project #: 347747.00000
Additional Effort Required 7428 Congdon Blvd

Task	Cost
Bottom Bin Wall & Bedrock Excavation Inspections	\$ 1,394.25
Additional Design Work	\$ 5,780.75
Reviewing Change Orders & Producing EPRs	\$ 4,778.00
Installation of Micropiles	\$ 5,386.00
Total:	\$ 17,339.00

Bottom of Bin Wall & Bedrock Site Inspections							
Date	Hours Site	Hours in Office Admin/travel	Resource	Type	Bill Rate	Total	Notes
9/30/2020	1.5	2.25	Kristi Mehrman	Engineer I	\$ 126.50	\$ 474.38	
10/1/2020	1	0.5	Kristi Mehrman	Engineer I	\$ 126.50	\$ 189.75	
10/7/2020	1	1	Zac Morris	Engineer II	\$ 159.50	\$ 319.00	
11/17/2020	1.25	2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 411.13	
Total:						\$ 1,394.25	

Additional Design Work							
Date	Hours Site	Hours in Office Admin/travel	Resource	Type	Bill Rate	Total	Notes
11/18/2020		1.75	Kristi Mehrman	Engineer I	\$ 126.50	\$ 221.38	
11/19/2020		5.75	Kristi Mehrman	Engineer I	\$ 126.50	\$ 727.38	
11/20/2020		6	Kristi Mehrman	Engineer I	\$ 126.50	\$ 759.00	
		4	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	Design Checks
		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	Submittal Review (Micropiles)
		2	Zac Morris	Engineer II	\$ 159.50	\$ 319.00	Design Checks
		2	Chase Dewhrist	Engineer III	\$ 159.50	\$ 319.00	Design Checks
		4	Zac Morris	Engineer II	\$ 159.50	\$ 638.00	Design Checks
		8	Dan Veriotti	Manager	\$ 175.00	\$ 1,400.00	Design Checks
		4	Chase Dewhrist	Engineer III	\$ 159.50	\$ 638.00	Design Checks
Total:						\$ 5,780.75	

Additional Work Reviewing Change Order/EPR Development							
Date	Hours Site	Hours in Office Admin/travel	Resource	Type	Bill Rate	Total	Notes
11/24/2020		0.75	Kristi Mehrman	Engineer I	\$ 126.50	\$ 94.88	
11/25/2020		1	Kristi Mehrman	Engineer I	\$ 126.50	\$ 126.50	
11/30/2020		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	
12/1/2020		0.75	Kristi Mehrman	Engineer I	\$ 126.50	\$ 94.88	
12/2/2020		1.75	Kristi Mehrman	Engineer I	\$ 126.50	\$ 221.38	
12/3/2020		1	Kristi Mehrman	Engineer I	\$ 126.50	\$ 126.50	
12/4/2020		4	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	
12/7/2020		2.25	Kristi Mehrman	Engineer I	\$ 126.50	\$ 284.63	
12/8/2020		0.5	Kristi Mehrman	Engineer I	\$ 126.50	\$ 63.25	
		4	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	
		4	Zac Morris	Engineer II	\$ 159.50	\$ 638.00	Project coordination & review
		7	Dan Veriotti	Manager	\$ 175.00	\$ 1,225.00	Project coordination & review
		4	Chase Dewhirst	Engineer III	\$ 159.50	\$ 638.00	Project coordination & review
Total:						\$ 4,778.00	

Remaining Construction Administration Services (or work that was recently completed)							
Description	Hours Site	Hours in Office Admin/travel	Resource	Type	Bill Rate	Total	Notes
Change Order Review		4	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	
Meeting/Meeting Minutes	2	2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	
RFIs		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	
ESIs		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	
Change Order Review		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	
Pay Application Review		4	Kristi Mehrman	Engineer I	\$ 126.50	\$ 506.00	
Site Inspections	12		Kristi Mehrman	Engineer I	\$ 126.50	\$ 1,518.00	6 Concrete Pours 3 hrs& Micropiles
Final Inspection Walk/Punchlist		2	Kristi Mehrman	Engineer I	\$ 126.50	\$ 253.00	
Change Order Review		1	Zac Morris	Engineer II	\$ 159.50	\$ 159.50	
Pay Application Review		1	Zac Morris	Engineer II	\$ 159.50	\$ 159.50	
Review, Inspection		4	Dan Veriotti	Manager	\$ 175.00	\$ 700.00	
Final Inspection Walk /Punchlist	1	1	Zac Morris	Engineer II	\$ 159.50	\$ 319.00	
Total:						\$ 5,386.00	

Total for all Additional Services: \$ 17,339.00