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**WATER POLLUTION CONTROL****MEMORANDUM**

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director  
Fran Donelson, Secretary

From: Jon Koch, WPCP Director

Date: August 20, 2014

Re: Harbor Dredge Mad Creek Bridge Pipe Extension

**INTRODUCTION:** The harbor dredge pipe needs to be a permanent pipe to avoid the unsafe and costly work of laying the pipe from shore to shore across Mad Creek twice every year. A pipe will be suspended on the downstream side of the bike path bridge and run beneath the bike path and railroad tracks to the dewatering area. Stanley Consultants is proposing a Professional Services Agreement (PSA) for engineering of the project for \$15,850. \$90,000 has been budgeted for this project.

**BACKGROUND:** The current job of running the dredging pipe through Mad Creek twice every year is getting more and more dangerous as the slope of the creek increases. Several large equipment movers are required to do this and have almost been lost into Mad Creek on several occasions. The pipe connections are strained when heavy flow down Mad Creek occurs and if broken would cause a reportable environmental spill. The bridge manufacturer has been contacted and engineering confirms that the bridge is able to handle the loading. They have provided drawings for the required supports and instructions for installation on their bridge. The material used will match the existing metal to weather the same so that the pipe and support structures will look like part of the bridge.

**RECOMMENDATION/RATIONALE:** Staff recommends approval of the PSA with Stanley Consultants, Inc. in the amount of \$15,850 for engineering and design of the Harbor Dredge Mad Creek Pipe Extension Project.

**BACKUP INFORMATION:****1. Scope of Work Agreement**

**"I remember Muscatine for its sunsets. I have never seen any  
on either side of the ocean that equaled them" — Mark Twain**



## EXHIBIT 1

### SCOPE OF SERVICES

#### Background

The Client desires to extend the existing harbor dredge pipeline from its terminus south of the railroad at Mad Creek beneath the railroad over Mad Creek via suspension from the bike path bridge across Mad Creek and then beneath the bike path to the existing dredge spoils dewatering area. The proposed project will eliminate temporary laying the pipe on the bottom of Mad Creek.

#### Basic Services

1. Tour site with Client and discuss alignment.
2. Perform a visual condition assessment of the major bridge members for evidence of severe corrosion that could compromise the bridge capacity. The visual condition assessment will be documented with photographs in a written report.
3. Coordinate review of bridge capacity by Continental Bridge to verify pipeline load can be supported from the bridge.
4. Coordinate pipe supports connection details to the bridge with Continental Bridge.
5. Coordinate pipe enclosure with Continental Bridge.
6. Prepare Fifteen (15) sets of design drawings suitable for use by the Client to obtain quotes for installation. Anticipated drawings include
  - a. Cover
  - b. Legend/Abbreviations
  - c. Site Plan
  - d. Section and Miscellaneous Details
7. Assist Client in obtaining railroad easement agreement.
8. Assist Client in obtaining floodplain permit. Floodplain permitting services are based on the improvements located within the floodplain but not in the floodway. Stream hydraulic modeling services should not be required for permitting of improvements in the floodplain outside of the floodway and are not included in the Basic Services.

#### Additional Services

1. Other permitting services.
2. Field measurements of bridge.
3. Land surveying.
4. Bidding phase assistance.
5. Construction phase assistance.

#### Conditions of Service

1. Client will provide bridge abutment and gabion design drawings and information.
2. Client will provide GIS information showing property boundaries, topographic information, and aerial imagery.
3. Client will prepare construction form of contract and general specifications.
4. Client will obtain contractor quotes and select contractor.
5. Client will administer and oversee the construction contract.



## EXHIBIT 2 COMPENSATION

### 1. Compensation for Basic Services:

Client shall compensate Consultant a Lump Sum amount of Fifteen-Thousand Eight-Hundred Fifty Dollars (\$15,850) for Basic Services described in Exhibit 1 – Scope of Services.

### 2. Compensation for Additional Services:

Additional Services performed by the Consultant at Client's direction, shall be compensated on an Hourly basis for Direct Labor, Plus Reimbursable Expenses in accordance with the attached current "Hourly Fees and Charges 2014-2015" (Form BC\_C 14-15).