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Nashville, Tennessee 37203
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December 23, 2014

Mr. Paul Holzen, P.E.
City of Franklin
Engineering Department
City Hall
109 3rd Avenue South
Franklin, TN 37064

Subject: Jackson Lake Dredging Improvements
Amendment 6 Proposal for Additional Services
On-Going Construction through Project Completion

Dear Paul:

CDM Smith, Inc. (CDM Smith) is pleased to submit this proposed amendment to perform construction administration duties through completion of the Jackson Lake Dredging Improvements Project.

Background

The City of Franklin authorized CDM Smith to provide engineering services and construction services relating to the design and execution of a dredging and dewatering operation at the Jackson Lake subdivision off Mallory Station Road. The project includes hydraulic dredging of sediments in Jackson Lake, dewatering of the sediments using an adjacent property, and disposal of dry sediment. In support of these activities, the City of Franklin has asked CDM Smith to provide additional scope of services including a land survey of the geotextile bags in the dewatering area, investigation of dewatered sediment within the geotextile bags, and the drafting of a technical memorandum that describes the survey history of the project and includes recent survey and soil investigations related to finding the volume of sediment removed from Jackson Lake.

Scope of Services

CDM Smith proposes the following tasks required to perform the engineering evaluation of the sediment removal from Jackson Lake.

Task 1: Project Management

CDM Smith will perform standard project management for this project. This will include procurement of a qualified and licensed Tennessee surveyor to perform a land survey of the



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dewatering geotextile bags, procurement of a local geotechnical engineering firm to collect soil samples and perform laboratory testing of the sediment collected in the dewatering geotextile bags, and management/oversight of the work performed in the field by subconsultants. Other project coordination includes review of subcontractor data for completion, scheduling, invoicing and additional support provided to City staff as need through the life of the project.

Task 2: Meetings

CDM Smith will schedule and attend meetings as requested by the City. For purposes of this proposal, it is estimated that two progress meetings and one full day meeting will be attended by CDM Smith.

Task 3: Land Survey

CDM Smith will solicit the services of a local surveyor to perform a land survey of the dewatering geotextile bag area. The survey will include one-foot contours along with recording specific geotextile bag height for volume calculations. The land surveyor will also calculate sediment volume by using the data collected from the land survey and submit to CDM Smith along with survey files.

Task 4: Geotechnical Services

CDM Smith will solicit the services of a local geotechnical firm to collect full depth samples of the dredged sediment in the 18 geotextile bag. After collecting the samples, the geotechnical firm will complete laboratory testing that will comprise of measuring moisture content and specific gravity of said samples. Those laboratory results will be submitted to CDM Smith in order to complete volume calculations of the in-site sediment removed from Jackson Lake.

Task 5: Technical Memorandum

The drafting of a technical memorandum which will summarize the analysis from the bathymetric and land surveys throughout the history of the project which includes sediment volume calculations. It will also include sediment calculations using the soil information collected throughout the life of the project. All of this data will be gathered to show the total amount of sediment removed from Jackson Lake.



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Compensation

The level of effort and associated costs for each task are summarized in the table below. The cost shown below is separated by showing CDM Smith cost and costs paid to Outside Professional in two separate columns. The Outside Professionals cost is the cost associated to complete the work described above by teaming with subcontractors. These team members are a bathymetric surveying company and a local dredging expert.

Tasks	Description	CDM Smith Cost	Outside Professional Cost
1	Project Management	\$4,000	---
2	Meetings	\$3,740	---
3	Land Survey	---	\$1,000
4	Geotechnical Services	---	\$14,410
5	Technical Memorandum	\$2,180	---
Not-To-Exceed Total Cost		\$9,920	\$15,410

Billing will be performed monthly. All effort related to CDM Smith's cost described above will be allotted to the remaining current unbilled not-to-exceed project budget. Therefore, CDM Smith request an amendment of \$15,410 to cover the additional services provided by the subconsultant's cost and task describe above.

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On behalf of the entire CDM Smith team, I want to express our appreciation for the opportunity to continue working with the City of Franklin on this important construction project. If you have any questions about this proposal, or any aspect of the on-going project, please do not hesitate to contact Dave Mason (615) 807-7815 or myself at (615) 320-3161.

Sincerely,

A handwritten signature in blue ink that reads "Zack A. Daniel".

Zack A. Daniel, P.E.
Client Service Manager
CDM Smith, Inc.

A handwritten signature in blue ink that reads "DAM".

David Mason, P.E., D.WRE
Project Manager
CDM Smith, Inc.

CC: Ben Worley (City of Franklin)
Caleb Sanders (CDM Smith)