



HISTORIC  
FRANKLIN  
TENNESSEE

ITEM #34  
BOMA 01/26/10

## MEMORANDUM

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January 5, 2010

**TO:** Board of Mayor and Aldermen

**FROM:** Eric Stuckey, City Administrator  
David Parker, City Engineer/CIP Executive  
Mark Hilty, Water Management Director

**SUBJECT:** **Professional Services Agreement (PSA) with AECOM for Construction and American Recovery and Reinvestment Act of 2009 (ARRA) Administration Services for the Raw Water Reservoir Rehabilitation Project**  
**COF Contract No. 2010-0002**

### Purpose

The purpose of this memo is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) for the consideration of a PSA with AECOM for Construction and ARRA Administration Services for Franklin's Water Management Department Raw Water Reservoir Rehabilitation Project.

### Background

Earlier this year, the City of Franklin submitted to the Tennessee Department of Environment and Conservation (TDEC) for inclusion of the Raw Water Reservoir Rehabilitation Project in the ARRA Funding program through the State Revolving Loan Fund. In order to provide the attention necessary for the administration of the construction and documentation required for the project with TDEC through the ARRA Funding program, staff needs the assistance of an outside consultant. AECOM, being the design engineer of this project, is well suited to provide these services. AECOM has expertise related to dam construction (berm surrounding the reservoir) and liner installation that we do have on staff. Staff will conduct inspection services and other project oversight which allows the City to avoid \$105,400 of project cost proposed by the engineering firm.

### Financial Impact

The total project costs are approximately \$3.9 million. The not-to-exceed cost as negotiated with AECOM for two service components is as follows:

- General Construction Phase Services: \$183,600
- Detailed Construction Services: \$105,400

### Options

1. Approve the PSA as proposed,
2. Approve revised services or a portion of the proposed services,
3. Request that another firm present a proposal (negotiate with another qualified consultant), or
4. Have staff do work – this is not recommended due to time constraints of staff.

### Recommendation

It is recommended that BOMA approve a PSA with AECOM (COF Contract No. 2010-0002) for a portion of the proposed services (General Construction Services) for an amount not to exceed \$183,600 (Option 2).

**AECOM**

220 Athens Way, Suite 200, Nashville, Tennessee 37228-1352  
T 615.244.8964 F 615.244.8760 www.aecom.com

November 06, 2009

Mr. Mark Hilty, Director  
Franklin Water Management Department  
109 3<sup>rd</sup> Avenue South  
Franklin, Tennessee 37065

**RE: Franklin, Tennessee  
WTP Raw Water Reservoir Rehabilitation  
Professional Services - Construction**

Dear Mr. Hilty:

We appreciate the opportunity to submit this proposed project scope as you requested in our recent coordination meeting for bidding. This is a continuation of our firms' professional services on this referenced design project. Hereby presented are the General Construction Oversight and Detailed Construction Observation Services fee with scope proposal for the WTP Raw Water Reservoir Rehabilitation project. This letter proposal covers the two (2) basic services for bidding, award, SRF documentation assistance, and limited assistance during construction and thereafter fulltime "inspection" services during construction.

The project is for the restoration by lining and expansion for additional supply and storage of the Water Treatment Plant Raw Water Reservoir to serve Franklin. Included in the project is the removal and disposal of a substantial quantity of WTP filter backwash solids reducing the effective volume and a poor base material for the geomembrane lining. As you recall, design was completed on this project in accordance with scope and review comments in the early spring. The volume was determined by BOMA action after study as with the liner material specifications. The contract documents have been approved by TDEC Water Supply, permits acquired, and have been advertised for bids. At the direction of the COF, the project manual was revised by inclusion of certain extensive stipulations for SRF/ARRA funding under the "stimulus" federal program. The addition of the insert documents was required for the funding and compliance effort for TDEC SRF/ARRA requirements of the contractor as with additional pre-bidding submittals to TDEC.

We have based this scope on the basis of a 6 month construction project in 2010. We expanded the time of limited services coverage to 7 months for the commencement/closure documentation requirements for funding for the services time before and after the actual contractor time. Also during construction the effort level is elevated for the funding documentation requirements over a normal Franklin project. The effort for these services is above normal observation services and requires some effort to be compliant for your reimbursement. An example is certified payrolls must be checked for wage rate compliance per craft classification for all personnel, both prime and subs. This total SRF/ARRA task effort is approximately \$20,000 that Franklin is not accustomed to in construction oversight fee structuring of late.

AECOM Water

Mr. Mark Hilty, Director

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The nature of the project with evolving base soil conditions caused us to include an allowance for geotechnical and/or survey on-call services for best engineering judgment of services required. If voids in excess of anticipated occur upon excavation an immediate engineering support action can be incurred within scope to avoid delay. This allowance is \$4,000. We also included effort for further coordination for disposal of the filter backwash material to the landfill as the acquired permit allows. An issue may arise for this substantive first critical path construction task we do not want delay incurred not having resources to address the issue in CM contracts.

We propose the detailed "fulltime" inspection based upon 1,500 hours of service. This does include some limited overtime in the core months, but not extensive days or extensive Saturdays. We propose to staff the project with a senior field technician (Charles Shearron - 25 years) overseen weekly by a registered PE construction manger (Jon Harris - 10 years). The reservoir base preparation and liner installation/seaming is critical for longevity to be properly installed i.e. close oversight. Our proposed construction manger has provided direct oversight for several geomembrane liner installations on railroad fuel containment areas of size and is ESC certified.

The sub-total for the general oversight and construction administration portion of services is \$183,600 on a not-to-exceed man-hour compensation basis. The sub-total for the detailed full time oversight services is \$105,400. This Total fee would be \$289,000.00 if the second detailed portion was elected for performance. This reflects about a 7 % fee on this estimated \$4.25mm construction cost project.

Under this proposed Construction Oversight Services contract, AECOM will provide the following:

General Construction Phase Services

- Bidding Assistance
- Award Assistance
- Pre-construction meeting/coordination
- Monthly estimates/SRF documentation review
- RFI's/Shop drawings/issues
- Site reviews
- Final acceptance/Liner Testing
- Final closeout/Record drawings
- Estimated 1,480 man-hours of various staff levels

Detailed Construction Services

- Daily Inspector Oversight
- Weekly CM review
- Weekly Construction status reports
- Estimated 1,500 man-hours of primarily inspector

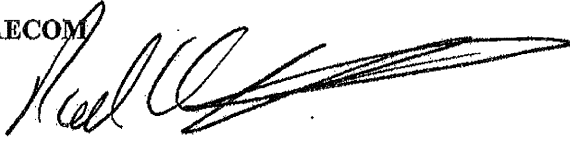
We present this for your consideration, recommendation and approval through the appropriate administrative process. A detailed man-hour fee spreadsheet can be presented to discuss details of the fee development per staff classification.

Mr. Mark Hilty, Director  
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Should you have any questions or comments please feel free to contact us. We look forward to the opportunity to assist the City during this important infrastructure improvement project. If you wish to discuss any aspect of this proposal, please contact me at any time at 313-0365.

Respectfully,

AECOM

A handwritten signature in black ink, appearing to read "Paul Stonecipher", with a long, sweeping horizontal stroke extending to the right.

Paul Stonecipher, PE  
Associate Vice President / Project Manager

cc: Mr. David Parker, City of Franklin  
Mr. Eric Gardner, City of Franklin