

Job Description:
**Levee Accreditation
Engineering Services****Responsible Office:**
BFA, Inc.
103 Elm Street
Washington, MO 63090**Contact Telephone/Email:**
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BFA, Inc.
Project Management
Surveying
Hydrology**SCI Engineering**
Geotechnical
Soils Evaluation**CMES**
Floodplain Consulting**March 6, 2014****City of New Haven**
101 Front St
New Haven, MO 63068
Attn: Steve Roth**RE: RFP – Levee Accreditation Engineering Services**

Mr. Roth:

We are excited for the opportunity to provide this Letter of Interest, detailing the qualifications of our firm and those we would anticipate teaming with, in order to accomplish the final goal of delivering a levee Certification for the City of New Haven.

BFA has a reputation for putting together teams that provide economical, well designed solutions resulting in desirable outcomes for the owner, permitting agencies, and the public. We regularly manage projects in sensitive areas with complex problems which can require innovative solutions for construction and funding, including recent projects along the Missouri and Mississippi Rivers.

Members of the Team

We are proposing that BFA will be the project lead – our local presence and familiarity with the City of New Haven will ensure the City’s needs are kept in focus, plus we will provide critical project functions such as surveying, hydraulic modeling, design, and overall project management. While other specialties or team members will likely be needed, at this time we believe the members highlighted below will lead the way for this project. Anticipated expertise will include surveying, mechanical evaluations of closures, evaluation of soil stability and erosion issues, hydrologic/hydraulic calculations and evaluation models, and extensive communications with permitting authorities (Corp of Engineers, FEMA, SEMA, MDNR, MDC, etc.).

BFA, Inc. (Buescher-Frankenberg Associates) – We have Professional Engineers (PE) with experience in designing storm water control structures, levees, revetments, site grading and project phasing, similar to what could possibly be needed for this project. Our staff includes 3 Certified Floodplain Managers (CFM) with extensive experience in FEMA regulated floodplains throughout the Midwest and specifically within the Missouri and Mississippi River floodplains in the state of Missouri. We also have 5 Certified Professionals in Sediment and Erosion Control (CPESC) who have been trained to

evaluate the effects of storm water and stream flow. And finally, we have 5 registered Land Surveyors (LS), all capable of certifying the elevation and horizontal control needed for this levee certification. BFA had a 30 year tenure as the Engineers for the City of New Haven from 1971 through 2002, and currently serve that same role. Therefore, we are very familiar with the public facilities within the City. www.bfaeng.com



SCI Engineering has 4 offices in Missouri and Illinois employing nearing 200 Engineers, Scientists, Geologists, Technicians, etc. SCI has a vast amount of experience in all manner of geotechnical and environmental engineering with specific experience dealing with levees, the Corps of Engineers and FEMA. Specifically, we will be relying on the knowledge and insight of Dr. Morris Dirnberger and his extensive experience with levee and dam certifications during his 29 year tenure with the Army Corps of Engineers. www.sciengineering.com

CMES (Central Missouri Engineering Services) – We have asked Mr. Scott Samuels with CMES to join us as a member of the team, due to his tenure with SEMA and the interactions he has had with FEMA. Mr. Samuels experience with Floodplain Management and the requirements of the Federal Flood Insurance Program will make his input extremely valuable to the project.

The items required for 44 CFR 65.10(b)(2)through(7) are addressed specifically to demonstrate our qualifications for this project.

44 CFR 65.10(B)(2) CLOSURES

BFA has served as engineers for local levee districts and can adequately evaluate these features. Should additional expertise be needed for the lift station or pumps, we can use reach out to Vandeventer Pump in St. Louis for assistance. BFA has worked extensively with them over the past year in other projects.

44 CFR 65.10(B)(3) EMBANKMENT PROTECTION

BFA has 5 Certified Professionals in Sediment and Erosion Control (CPESC) on staff. This is a nationally-recognized credential for those trained to evaluate the effects of storm water and stream flow over land and to evaluate and design erosion and sediment control fixes that are effective. BFA is one of the most qualified firms in the Midwest to provide this expertise.

44 CFR 65.10(B)(4) EMBANKMENT AND FOUNDATION STABILITY ANALYSIS

It is anticipated that SCI Engineering will support the project and BFA for this aspect of the certification. SCI can provide Geotechnical Service Capabilities that include geotechnical borings and laboratory testing in order to characterize the subsurface conditions of the levee system. Results can be combined with BFA's hydraulic models for underseepage analysis and other critical evaluations.

44 CFR 65.10(B)(5) SETTLEMENT

With the longevity of the existing levee system, settlement may not appear to be a large concern, but technical data in support of this fact will be needed. Again the team will rely on expertise from SCI Engineering's geotechnical and soils engineers to develop the tests and analysis to support the documentation needed to provide the certification.

44 CFR 65.10(B)(6) INTERIOR DRAINAGE

BFA's staff included 3 Certified Floodplain Managers (CFM). Recent project experience involves HEC-RAS modeling of the Missouri River for construction of a new boat ramp, modeling and revising updates to FEMA Flood Insurance Rate Maps for the City of Washington, and Letters of Map Revisions (LOMR) and elevation certificates throughout Missouri and other states. BFA's Hydraulic Engineer will be able to use FEMA models (if available) to create and modify interior drainage models to support the project needs. BFA also has 5 Professional Surveyors on staff should any additional topographic survey data be needed.

Scope of Work and Schedule

At this time, BFA believes trying to develop a scope of work and schedule beyond what is required in the 44 CFR 65.10(b) document will likely lead to disappointment for the City or Consultant. If selected, we feel the "work" (borings, testing, modeling, evaluations, etc.) can be completed by the end of this year. However, it is important for the certification that the Corp of Engineers, FEMA, SEMA, and others are on board with the evaluation and plans. Gaining this coordination, buy-in, and approval can be unpredictable with regards to timeframes. The City may want to consider a phased contract in which a supplement or amendment is negotiated at each milestone. This approach can help the project from stalling out and allows the City more control to provide some services itself, and breaks the project into manageable "chunks" to keep costs in line.

BFA is committed to providing the City of New Haven what they need for this project. If selected, we will meet with the City to clearly define the scope of work for the next phase, while estimating future phases as they become clearer.

At this time, trying to provide a dollar estimate of fees would be premature. We feel that if selected, we should assemble our team and have a preliminary meeting with the City to determine scopes of work and layout a tentative budget and schedule, that takes the project through final permitting and construction.

I hope our qualifications warrant further consideration. Please contact Kent Vedder or myself at any time to discuss our firm or this project in more detail.



Wes Theissen, EIT, CFM, CPESC
Business Development for
BFA, Inc.



Date