



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

Legislation Details (With Text)

File #: 18-0312 **Version:** 1

Type: Agenda Item **Status:** Adopted

File created: 3/23/2018 **In control:** Procurement Committee

On agenda: 4/5/2018 **Final action:** 4/5/2018

Title: Issue purchase order and enter into an agreement with Black & Veatch Corporation for professional engineering services for Contract 10-884-BF Flood Control Project on Deer Creek, in an amount not to exceed \$647,745.72. Account 501-50000-612450, Requisition 1489588

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
4/5/2018	1	Board of Commissioners	Approved	Pass
4/5/2018	1	Committee of the Whole	Recommended	Pass

TRANSMITTAL LETTER FOR BOARD MEETING OF APRIL 5, 2018

COMMITTEE ON PROCUREMENT

Mr. David St. Pierre, Executive Director

Issue purchase order and enter into an agreement with Black & Veatch Corporation for professional engineering services for Contract 10-884-BF Flood Control Project on Deer Creek, in an amount not to exceed \$647,745.72. Account 501-50000-612450, Requisition 1489588

Dear Sir:

Authorization is requested to issue a purchase order and enter into an agreement with Black & Veatch Corporation (B&V) for professional engineering services for Contract 10-884-BF Flood Control Project on Deer Creek, in an amount not to exceed \$647,745.72.

On June 2, 2011, the Board of Commissioners granted approval for design for flood control projects DRCCR-G1 of the Little Calumet River Detailed Watershed Plan (DWP) and SCAH-50 of the Upper Salt Creek DWP. On September 15, 2011, the Board of Commissioners granted approval for B&V to perform final design for both flood control projects.

In those previous efforts for the Deer Creek project (DRCCR-G1), a berm along Kennedy Lane and related channel improvements on Deer Creek between US Highway 30 and Hammond Lane in the Village of Ford Heights (Village) were originally proposed and designed to reduce overbank flooding and increase channel conveyance. During the course of final design, the Village has decided to pursue potential industrial development opportunities on parcels adjacent to the Deer Creek project. It is determined that the original design would not be amenable to any future development on the east side of Deer Creek. It becomes apparent that a broader partnership between the District and the Village should be considered not only to address flooding concerns, but also to provide opportunities for economic development within the Village along Deer Creek in conjunction with stormwater improvements. In fact, the Deer Creek project is in many respects

similar to the flood control project in the Village of Robbins in which a holistic stormwater solution was sought to assist the Village in reaching its long-term goals for improved stormwater infrastructure and community enhancements. Thus, the approach to the Deer Creek project will closely model the one used in Robbins.

The District's engineering staff has reevaluated the original design and additional alternatives and performed some preliminary modeling to arrive at a preferred alternative that includes:

- Modifying the previous berm design on the west bank of the creek along Kennedy Lane to incorporate sections of flood wall where space is constrained such that impacts to the existing creek channel can be minimized;
- Widening the east bank of the creek to increase conveyance capacity;
- Creating flood storage at the District-owned property south of Joe Orr Road.

The scope of work for the Deer Creek project will include the final design of the above components of the preferred alternative. These improvements will reduce the risk of overbank flooding up to a 100-year storm event.

However, to further protect the residential neighborhood west of the creek from flooding due to local drainage, the storage capacity at an existing detention pond at Hammond Lane west of the Creek will need to be expanded and additional conveyance improvements to the detention pond will be required. Planning-level concepts for these local drainage and storage improvements will be developed so that they can be incorporated into the Village's capital improvement plan. In addition, the concept analysis will consider the potential for additional floodwall improvements east of Deer Creek, thereby allowing future development of those parcels.

The District intends to work with various partners to identify and apply for cost-sharing and grant opportunities offered by State and Federal agencies as well as private foundations to be used for the construction of the project and further design development of the local drainage improvements.

The Engineering Department previously selected Black & Veatch Corporation for the previous design of the Deer Creek project based on the firm's experience with stormwater management projects similar in nature. Due to their familiarity with the project site and analysis of previously evaluated alternatives to address the flooding along Deer Creek in the Village of Ford Heights, Black & Veatch is uniquely qualified to perform the alternatives reevaluation and ensuing design work. In view of the foregoing, the Engineering Department and B&V have developed a scope for the aforementioned work, and have agreed upon a budget.

The time allowed for services to be performed under this agreement is 417 days from the date the contract is awarded. There are no provisions in the agreement for extension of time except for such reasonable period as may be agreed upon between parties.

Deliverables to be provided under this agreement include:

- Technical Memorandums
- Permit Drawings and Support Documents
- Detailed Plans and Specifications
- Opinion of Probable Construction Cost

It is estimated that an average of 30 persons will be working on the contract at various times with an anticipated total of 4,241 man-hours. The average payroll rate will be approximately \$49.57.

<u>Item</u>	<u>Fee</u>
1. Prime Consultant Fee	

a.	Direct Labor	\$	130,044.71
b.	Overhead and Profit	\$	<u>266,591.66</u>
c.	Total Labor Fee	\$	396,636.37
2.	Reimbursable Direct Costs	\$	6,600.00
3.	PCE Sub-Consultants		
a.	MBE/SBE Firms	\$	148,389.35
b.	WBE/SBE Firms	\$	<u>96,120.00</u>
c.	Total PCE Sub-Consultants	\$	244,509.35
Total Fee (Not to Exceed)		\$	647,745.72

The firms Geo Services, Inc., FluidClarity Ltd., Terry Guen Design Associates, Inc., Grace Analytical Laboratory, Inc., and Infrastructure Engineering, Inc. are Minority-Owned Business Enterprises/Small Business Enterprises (MBE/SBE). The firms McBride Engineering, Inc., and Best Imaging Solutions, Inc. are Women-Owned Business Enterprises/Small Business Enterprises (WBE/SBE). All MBE/SBE and WBE/SBE firms will actively participate in providing services for the core elements required by the agreement.

The Diversity Section has reviewed the agreement and has concluded that the MBE/SBE and WBE/SBE firms are in accordance with the District's Affirmative Action Policy. The agreement shall be subject to the approval of the Law Department as to form and legality.

Inasmuch as the firm of Black & Veatch Corporation possesses a high degree of professional skill, it is recommended that the Director of Procurement and Materials Management be authorized to issue a purchase order and enter into an agreement without advertising, per Section 11.4 of the Purchasing Act, in an amount not to exceed \$647,745.72.

Funds for the 2018 expenditure, in the amount of \$413,200.00, are available in Account 501-50000-612450. The estimated expenditure for 2019 is \$234,545.72. Funds for the 2019 expenditure are contingent on the Board of Commissioners' approval of the District's budget for that year.

Requested, Catherine A. O'Connor, Director of Engineering, WSS:JK
Recommended, Darlene A. LoCascio, Director of Procurement and Materials Management
Respectfully Submitted, Barbara J. McGowan, Chairman Committee on Procurement
Disposition of this agenda item will be documented in the official Regular Board Meeting Minutes of the Board of Commissioners April 5, 2018