



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

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Title: Issue a purchase order and enter into an agreement with Michael Baker, Jr., Inc. for professional engineering services for Contract 10-882-5C, Preliminary Engineering for Streambank Stabilization Projects on Tinley Creek, Calumet Union Drainage Ditch, and Midlothian Creek, in an amount not to exceed \$511,715.36, Account 501-50000-601410, Requisition 1302537 (Deferred from the April 15, 2010 Board Meeting) (As Revised)

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Attachments:

Date	Ver.	Action By	Action	Result
5/6/2010	1	Committee of the Whole	Deferred	Pass
5/6/2010	1	Board of Commissioners	Approved	Pass

TRANSMITTAL LETTER FOR BOARD MEETING OF MAY 6, 2010

COMMITTEE ON PROCUREMENT

Mr. Richard Lanyon, Executive Director

Issue a purchase order and enter into an agreement with Michael Baker, Jr., Inc. for professional engineering services for Contract 10-882-5C, Preliminary Engineering for Streambank Stabilization Projects on Tinley Creek, Calumet Union Drainage Ditch, and Midlothian Creek, in an amount not to exceed \$511,715.36, Account 501-50000-601410, Requisition 1302537 (*Deferred from the April 15, 2010 Board Meeting*) (*As Revised*)

Dear Sir:

Authorization is requested to issue a purchase order and enter into an agreement with Michael Baker, Jr., Inc. (Baker) for professional engineering services for Contract 10-882-5C, Preliminary Engineering for Streambank Stabilization Projects on Tinley Creek, Calumet Union Drainage Ditch, and Midlothian Creek in an amount not to exceed \$511,715.36.

On January 21, 2010, the Board of Commissioners approved various streambank stabilization projects identified under completed Detailed Watershed Plans (DWPs) for preliminary engineering. Among the projects approved were Calumet-Sag Channel DWP projects TICR-7 and TICR-8 and Little Calumet River DWP projects CUDD-G3 and MTCR-G2. Project TICR-7 involves stabilizing the banks of Tinley Creek between 151st Street and Camellia Avenue in the Village of Orland Park. Project TICR-8, in the Village of Orland Park, involves stabilizing the banks of Tinley Creek from 86th Avenue to 160th Street. Project MTCR-G2 involves stabilizing the banks of Midlothian Creek between Oak Park Avenue and 172nd Street as well as between Hickory Street and 66th Court in the Village of Tinley Park. Project CUDD-G3 consists of constructing a floodwall along the Calumet Union Drainage Ditch in the Village of Markham from Hamlin Avenue to Central

Avenue, implementing conveyance improvements and stabilizing the banks of the Calumet Union Drainage Ditch from Sunset Avenue to Central Park Avenue.

The scope of work for the preliminary engineering services contains a detailed review of assumptions, including an evaluation of Right-of-Way issues and state and federal government permit compliance, made with respect to these projects in the DWP, an analysis of alternative stabilization technologies, and the preparation of preliminary engineering plans for use in defining a detailed scope of work for the engineering services necessary for final design of these projects.

The Engineering Department conducted a consolidated consultant selection process to assess prospective consulting engineering firms for design of stormwater management projects; the following firms participated in the process:

1. AECOM Technical Services, Inc. (formerly Consoer Townsend Envirodyne, Inc.)
2. Black and Veatch Corporation
3. Burns and McDonnell Engineering Company, Inc.
4. Camp, Dresser and McKee, Inc.
5. CH2M Hill, Incorporated
6. Christopher B. Burke Engineering Ltd.
7. Engineering Resource Associates, Inc.
8. Hey and Associates, Inc.
9. HDR, Inc.
10. HNTB Corporation
11. Infrastructure Engineering, Inc.
12. MACTEC Engineering and Consulting, Inc.
13. Michael Baker, Jr. Inc.
14. MWH Americas, Inc.
15. Tetra Tech, Inc.
16. URS Corporation

While the qualifications of all of the above firms in the design of similar streambank stabilization projects were evaluated, the knowledge and experience exhibited by Baker were determined to be most suitable for these projects. Baker has submitted a proposal in the amount of \$511,715.36 for professional services for preliminary engineering for streambank stabilization projects on Tinley Creek, Calumet Union Drainage Ditch, and Midlothian Creek, and the Engineering Department has reviewed the proposal and found it to be acceptable.

The time allowed for services to be performed under this agreement is 180 days from the date of the notice to proceed. 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:

- Preliminary design report describing suitable alternative stabilization technologies and permitting and right-of-way requirements
- Preliminary drawings with details sufficient to develop final design plans
- Comprehensive list of specifications
- Preliminary opinion of probable construction cost
- Estimate of construction schedule

Subsequent to review of the preliminary design report, the Engineering Department will make a recommendation as to the feasibility of these projects. If determined feasible to proceed, the Engineering Department intends to recommend Baker be retained for final design services for the streambank stabilization

projects on Tinley Creek, Calumet Union Drainage Ditch, and Midlothian Creek under a separate purchase order, subject to the Board of Commissioners' approval.

It is estimated that over 30 persons will be working on the contract at various times with an anticipated total of 4,358 man-hours. The average payroll rate will be approximately \$40.18.

Baker shall be paid an hourly rate based on the direct labor rate in effect for the year the work is performed, times an overall multiplier of 2.8921, plus reimbursable direct costs, up to a total amount not to exceed \$511,715.36.

The components of the total fee are as follows:

<u>Item</u>	<u>Fee (Not to exceed)</u>
1. Labor Cost	
A. Direct Labor	118,436.25
B. Overhead and Profit	<u>224,093.23</u>
C. Total Labor Fee	\$342,529.48
2. Reimbursable Direct Costs	\$5,345.00
3. Subcontractors	
A. MBE/SBE firms	107,698.86
B. WBE/SBE firms	<u>56,142.02</u>
C. Total Subcontractors Fee	\$163,840.88
Total Fee (Not to Exceed)	\$511,715.36

The firms Delta Engineering, Inc. and Wang Engineering, Inc. are Minority-Owned Business Enterprises/Small Business Enterprises (MBE/SBE). The firms Huff & Huff, Inc. and Kabbes Engineering, 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 Affirmative Action Section has reviewed the agreement and has concluded that Baker is in accord with the District's Affirmative Action Policy.

Mr. Robert Murdock, a professional engineer possessing a high degree of skill as Water Resources Department Manager at Baker, will serve as the project manager. Inasmuch as the firm of Baker, and Mr. Murdock of that firm, possess 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 \$511,715.36.

Funds are available in Account 501-50000-601410.

Requested, Kenneth A. Kits, Acting Director of Engineering, WSS:CMC
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 for May 6, 2010