

**CITY COUNCIL
COMMUNICATION:**

03-367

AGENDA:

JULY 28, 2003

SUBJECT:

PROFESSIONAL
SERVICES
AGREEMENT FOR
TONAWANDA EAST-
WEST STREAM
STABILIZATION
PROJECT

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

JEB E. BREWER, P.E.
CITY ENGINEER

WILLIAM G. STOWE
PUBLIC WORKS
DIRECTOR

ITEM _____

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

SYNOPSIS —

Approving Professional Services Agreement between the City of Des Moines and Brian Clark and Associates (Brian Clark, President, 303 Locust Street, Suite 303, Des Moines, IA 50309) for preliminary design and construction cost estimate for the Tonawanda East-West Stream Stabilization Project, Activity ID 01-2003-012, in an amount not to exceed \$35,450 for design services for the actual costs incurred for direct labor, indirect costs, and other direct costs.

FISCAL IMPACT —

Compensation to the consultant is not to exceed \$35,450. Funding for these services is included in Watershed Studies - Page 22 Storm Sewer Improvements of 2003-04/2008-09 Capital Improvement Program (CIP), Index 367367, Account 543030, Fund EN304, Organization PWK990000, Project STE072.

RECOMMENDATION —

Approval of the Professional Services Agreement.

BACKGROUND —

The Salisbury Oaks watershed is a 180-acre urban watershed located in the western part of Des Moines south of Interstate I-235 (I-235), and is generally bounded by Ingersoll Avenue to the north, Foster Drive to the west, 37th Street to the east, and John Lynde Road to the south. The area was developed in the early 1900s before the City of Des Moines expanded and annexed the area. The watershed consists of a mix of single-family residential properties, multi-family units, and non-residential properties (churches, businesses, schools, etc.).

Two riparian areas consisting of narrow, wooded stream branches collect and convey storm water runoff to a reinforced concrete box culvert under John Lynde Road. The two stream branches generally parallel Tonawanda Drive, which runs north-south and east-west between Grand Avenue and 42nd Street. The two stream branches confluence just north of the watershed outlet under John Lynde Road.

The stream branches have maintained some of their natural vegetative features over the years, but continue to be impacted by urbanization and have

become severely eroded over the years to the point where City infrastructure is being threatened. Only the east-west stream branch will be considered in this stream stabilization project where the main project goals are:

- protect City infrastructure (streets, sewers);
- provide grade control for the east-west stream;
- provide slope stabilization and erosion protection for the east-west stream slopes;
- determine the need for curbing along Tonawanda Drive. The use of formal drainage structures to convey gutter flow directly to the stream should be avoided.

This stream stabilization project requires:

- preserving the natural heritage of the neighborhood;
- bioengineering and other innovative stabilization techniques with use of indigenous plants;
- hydrologic and hydraulic engineering analyses;
- regulatory permitting;
- coordination with the local neighborhood association and the public.

City of Des Moines staff sent a Request for Qualifications (RFQ) to 11 consultants and posted the RFQ on the City of Des Moines website. Eight consultants submitted Statements of Qualifications. A Selection Committee reviewed and evaluated the eight Statements of Qualifications that were submitted. Two consultants were chosen for interviews. Brian Clark and Associates was selected for the study and preliminary design. The initial project will include hydraulic and hydrologic modeling and a conceptual design. Total compensation to the consultant for the agreement is not to exceed \$35,450. A supplemental agreement will be executed, at a later date, for final design, preparation of bid documents, and construction administration.

This project will involve innovative bioengineering efforts to stabilize the East-West Tonawanda Stream, and will serve as an important pilot project for such bioengineering efforts in the future.

