



**CITY COUNCIL  
COMMUNICATION:**

**ITEM \_\_\_\_\_**

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

**00-239**

**SYNOPSIS -**

**AGENDA:**

MAY 22, 2000

**SUBJECT:**

DEAN'S LAKE  
WATERSHED -  
EUCLID  
DETENTION BASIN  
AND STORM SEWER  
IMPROVEMENTS

This agreement provides for limited construction services provided by the design consultant, Earth Tech (Diane C. Creel, Chief Executive Officer and President, 100 West Broadway, Long Beach, California), to assist in the construction coordination. In addition, the agreement provides for compensation, amount not to exceed \$119,000, for additional design services that resulted from coordinating the design with the surrounding area. The agreement further provides for an operation and maintenance manual for the basin and a system operation manual for all the basins in the Dean's Lake watershed located at Guthrie Avenue, Mattern Avenue, and Washington Avenue. The consultant will provide the information to revise the Federal Emergency Management Authority (FEMA) flood insurance rate maps when the project is completed.

**TYPE:**

**RESOLUTION**  
ORDINANCE  
RECEIVE/FILE

**FISCAL IMPACT -**

Provided for in the Fiscal Year (FY) 2000-2001/2006-2006 Capital Improvements Program (CIP), Page STE-7, Dean's Lake Basin Detention Improvements, CIP Index Code 366369 - Account 521020 - Fund EN304 - Organization ENG990000 - Project/Grant STE063, Storm Water Utility Funds.

**SUBMITTED BY:**

FLOYD BENTZ, P.E.  
CITY ENGINEER

**RECOMMENDATION -**

**Approval.**

**BACKGROUND -**

On May 1, 2000, by Roll Call No. 00-1348, the City awarded a construction contract to construct the Dean's Lake Watershed Euclid Avenue detention basin. This agreement is with the

consulting firm, which designed the detention basin and storm sewer, to provide specialized assistance on shop drawing reviews and construction coordination. City staff is providing the onsite construction inspection and construction management.

The City requested the consultant do additional design work to explore multiple options on the detention basin siting and storm sewer configuration to coordinate with the developer of the site. The extent of this effort was not anticipated in the original design agreement. Therefore, additional compensation has been negotiated with the designer to compensate the firm for the costs incurred in completing the design of the project.

With the completion of this project, the Dean's Lake watershed will be served by four storm water detention basins located at East 14th Street and Euclid Avenue, East 20th Street and Guthrie Avenue, East 17th Street and Mattern Avenue, East 20th Street and Washington Avenue. These basins will operate in series to provide flood hazard mitigation. In order to optimize these facilities, the consultant will provide a system operation manual for operating these four basins.

The East 14th Street and Euclid Avenue area is currently regulated by the FEMA Flood Insurance Maps. Completion of this project will significantly change the area regulated by FEMA. Revising the regulations requires detailed engineering information, which the consultant will be providing.