

**CITY COUNCIL  
COMMUNICATION:**

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

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

**99-253**

**SYNOPSIS -**

**AGENDA:**

JUNE 7, 1999

Council authorization is requested for the City Manager to sign Change Order No. 1 with John T. Jones Construction Company on the Wastewater Reclamation Authority (WRA) Raw Sewage Pump Station contract, Work Order No. 0204-98-009.

**SUBJECT:**

WRA RAW SEWAGE  
PUMP STATION  
IMPROVEMENTS -  
CHANGE ORDER  
NO. 1

**FISCAL IMPACT -**

Funding for this project is provided for on page 369 of the 1998-99 Capital Improvement Program (CIP). Funding for a portion of the project will be made from the WRA Renewal & Replacement Fund which has sufficient cash on hand. The balance of the project will be funded by direct contributions by each WRA community for their appropriate share of the cost of the project based on the Fourth Supplement to the Integrated Community Area (ICA) Agreement and the Western Area Facility Plan. Des Moines' share of the project is proposed to be funded with funds provided by Sewer User Fees using cash on hand in the fund.

**TYPE:**

**RESOLUTION**  
ORDINANCE  
RECEIVE/FILE

**SUBMITTED BY:**

FLOYD BENTZ, P.E.  
CITY ENGINEER

**RECOMMENDATION -**

**Authorize the City Manager to sign Change Order No. 1 to the WRA Raw Sewage Pump Station Improvements contract.**

**BACKGROUND -**

On October 26, 1998, by Roll Call No. 98-3323, the City Council authorized and directed the Mayor to execute a construction contract with John T. Jones Construction Company for the WRA Raw Sewage Pump Station Improvements, Work Order No. 0204-98-009. The City Council, on June 15, 1998, by Roll Call No. 98-1929,

authorized design of a process control system for the WRA Wastewater Reclamation Facility (WRF). The process control design consultant and the WRF process control team have recommended that the programmable logic controllers (PLC) specified in the Pump Station Improvements be ControlLogix PLCs. This recommendation was made after the contract for the Raw Sewage Pump Station Improvements was awarded. The Raw Sewage Pump Station Improvements contract included a control system that is not compatible with the ControlLogix PLCs. By making this change, the PLCs will be standardized throughout the WRF and will utilize state-of-the-art technology that was not available during the design of the WRA Raw Sewage Pump Station Improvements. Savings will be realized by making this change because only one type of PLC will need to be operated and maintained.

Changing the PLCs will require that the pump controls be reconfigured to accommodate the newer technology of the ControlLogix PLCs. Because of this redesign and the contractual requirement that the pump manufacturer be responsible for the entire pumping system including the controls, it is not desirable or economical to delay this change to a future contract that will make modifications to the entire process control system at the facility.