

COUNCIL ACTION FORM

**SUBJECT: ENGINEERING SERVICES FOR STRUCTURAL REPAIRS – PHASE 2
AT THE WATER POLLUTION CONTROL FACILITY**

BACKGROUND:

A comprehensive evaluation of the structural condition of the Water Pollution Control Facility (WPCF) buildings and structures was performed in 2012 by HDR Engineering. Based on that assessment, the facility is generally in overall good condition. However, the facility is more than 28 years old and is showing signs of age-related deterioration. As a part of the condition assessment, a schedule for structural rehabilitation was developed. The drivers for the schedule are the estimated remaining useful life in each structure and coordination with future improvements to the facility.

Because of the piece-work nature of the project, staff has previously entered into a Master Agreement with HDR Engineering that contains the contractual language, with individual "Task Orders" being issued to specify the actual scope of work to be provided for each discrete phase of the work. HDR Engineering has previously been awarded a contract for engineering services associated with Task Order 1 of the Master Agreement. That work, completed in a construction contract referenced as "Phase 1," has now been completed. Staff is now ready move forward with Task Order 2 that will lead to a construction contract that will be referred to as "Phase 2."

Task Order 2 includes engineering services to address the following items included in the FY 2016/17 and FY 2018/19 Capital Improvements Plan:

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| FY 16/17 | Joint repairs at the sludge pumping building (\$46,000) |
| FY 18/19 | Repairs to the Administration Building entrance slab (\$184,000); repairs to joints in precast wall panels (all structures except trickling filter and Digester Complex) (\$450,000); stair support and sidewalk at SW clarifier stair (\$18,000); repair drainage and moisture issues around multiple structures (\$461,000) |

Funding for Phase 2 will come from carryover from the FY 2016/17 CIP (\$50,000) and the FY 18/19 CIP (\$1,113,000) for a total of \$1,163,000.

In addition to the tasks outlined above, Task 2 design work will also evaluate the potential construction costs for the following: replace damaged sidewalks; make repairs to the digester complex tunnel; and address structural needs at the Trickling Filter

Complex. Once the more detailed cost estimates have been prepared, these tasks may also be incorporated into the Phase 2 construction contract if the budget allows.

It should be noted that Task Order 2 with HDR does not include construction phase engineering services. The level of construction oversight and assistance that will be required by the consultant versus provided by City staff will be evaluated during the design process, and can be added to HDR's work if needed.

ALTERNATIVES:

1. Approve Task Order 2 for design and bidding phase structural engineering services with HDR Engineering, Inc. of West Des Moines, Iowa in an amount not to exceed \$148,107.
2. Do not award an engineering contract for these services at this time.

CITY MANAGER'S RECOMMENDED ACTION:

In order to preserve the significant investment in infrastructure at the Water Pollution Control Facility, periodic structural rehabilitation of buildings and structures is necessary. Because of the value and significance of the structures identified in this project, it is essential that rehabilitation be done prior to a structural failure. Therefore, it is the recommendation of the City Manager to adopt Alternative No. 1 as described above.