

COUNCIL ACTION FORM

SUBJECT: WATER POLLUTION CONTROL FACILITY STRUCTURAL REHABILITATION PHASE 2 PROJECT

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 29 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 will be used to issue individual task orders. HDR Engineering has been awarded a contract amount of \$148,107 for engineering services associated with Task Order 2 of the Master Agreement. The construction work associated with Task Order 2, which includes the following items from the FY 16/17 and FY 17/18 Capital Improvements Plan, is being referred to as “Phase 2” of the Structural Rehabilitation Project.

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| FY 16/17 | Joint repairs at the sludge pumping building (\$46,000) |
| FY 17/18 | 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) |

Phase 2 also includes replacement of damaged sidewalks, assessment and repair to the digester complex tunnel, and a structural review of the Trickling Filter Complex. A structural review of the trickling filters was last done in 2012 and staff have noticed additional deterioration since that time. The long term use of the trickling filters will be analyzed in the upcoming Nutrient Reduction Feasibility Study. The intent of the repairs as part of this Phase 2 project is to buy some additional time (approximately five years) until a decision can be made on the level of investment that is warranted for the trickling filters.

The overall CIP budget for tasks identified in Phase 2 includes \$47,800 in FY 17/18 and \$1,113,000 in FY 18/19 for a total of \$1,161,000. HDR Engineering has estimated the total construction cost to be \$743,000, which includes a 10% contingency. The

estimated construction cost combined with the engineering services totals \$891,107, which is lower than the CIP budget amount. The preparation of plans and specifications are complete, and the Phase 2 work is ready to bid.

ALTERNATIVES:

1. Grant preliminary approval of the plans and specifications and issue Notice to Bidders, setting May 23, 2018 as the bid due date and June 12, 2018 as the date for public hearing and award.
2. Do not issue preliminary approval of plans and specifications and a notice to bidders at this time.

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.