

COUNCIL AGENDA: FEBRUARY 5, 2013

SUBJECT: REQUEST FOR IMMEDIATE CONSULTANT SERVICES – WASTE WATER TREATMENT FACILITY RAW SEWAGE PUMPS PROJECT

SOURCE: PUBLIC WORKS DEPARTMENT – FIELD SERVICES DIVISION

COMMENT: Staff respectfully requests Council's authorization to negotiate a "not to exceed" \$60,000 contract for engineering services with Carollo Engineering for the purpose of preparing plans and specifications to remove and replace four (4) Raw Sewage Pumps (RSP) at the Wastewater Treatment Facility. The RSP are located at the front end of the treatment facility. Their sole purpose is to pump approximately five million gallons of daily sewage 27' from a sump up to ground level to begin the influent treatment process.

The four pumps in question are approximately 19 years old and their constant use has brought them close to the end of their useful life. Currently, one of the four pumps is out for repair and it is reasonable to assume that the remaining three pumps will soon begin to experience significant problems.

Obviously time is of the essence. Discussion with pump manufacturers indicates that once a set of plans have been approved, the lead time for pump delivery is approximately 16 to 18 weeks. Staff believes that Carollo Engineers are uniquely qualified to perform the necessary engineering due to the fact that Carollo Engineers designed the original system and were involved in its construction. Carollo Engineers have all of the original construction documents including the complete layout of that portion of the facility that houses the Raw Sewage Pumps.

The existing pumps are driven by a 27' shaft with motors placed directly above at ground level. While this was a proper design twenty years ago, new technology and better pumps allow for the installation of immersible pumps with variable frequency drives (VFD). Immersible pumps coupled with a VFD are significantly more efficient and consume less energy.

In order to minimize design time, staff requests Council's permission to have Carollo Engineers pre-select the pumps, VFD, and other appurtenances. By pre-selecting the equipment, there is the assurance that the new equipment will seamlessly match existing conditions with minimal disruption to the facility.

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If Council approves staff's request, Carollo Engineer's first task will be to recommend the pump and VFD. A subsequent staff report will be forthcoming identifying the pre-selected equipment with the request that the Council award a contract to the manufacturer of the pre-selected equipment. The funding source is the Wastewater Capital Reserve.

RECOMMENDATION: That the City Council:

- 1 Direct the Public Works Director to negotiate a Design Service Agreement with Carollo Engineers for a "Not to Exceed" \$60,000 fee;
- 2 Authorize the Mayor to execute the Design Service Agreement, if successfully negotiated, for a "Not to Exceed" \$60,000 fee; and
- 3 Direct staff to present a report no later than March 5, 2013, describing the recommended pre-selected equipment for Council's consideration.