



CITY OF NORMAN, OK STAFF REPORT

MEETING DATE: 12/14/2021

REQUESTER: Rachel Croft

PRESENTER: Rachel Croft, Staff Engineer

ITEM TITLE: CONSIDERATION OF APPROVAL, REJECTION, AMENDMENT, AND/OR POSTPONEMENT OF CONTRACT K-2122-73: A CONTRACT BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND CAROLLO ENGINEERS IN THE AMOUNT OF \$73,661 TO PROVIDE PROFESSIONAL ENGINEERING SERVICES ASSOCIATED WITH THE CLARIFIER ONE AND TWO REHABILITATION PROJECT AND BUDGET TRANSFER AS OUTLINED IN THE STAFF REPORT.

BACKGROUND:

Clarifiers 1 and 2 at the Water Treatment Plant (WTP) were installed in 1965 and have experienced deterioration warranting replacement of gearboxes and motors, in addition to new coats of paint. After 55 years in service, it's expected that the structural integrity of these clarifiers will have decreased. In July 2021, staff hired Suez Water Technology Solutions Services, Inc., who currently own the "Accelator" technology employed by these two clarifiers, to perform a visual inspection on one of the clarifiers. They found pitting and corrosion of steel and indicated the need to repair/replace the launder and outer wall brackets, in addition to realignment for the hood structure and circular deck plate, and re-painting the structure.

DISCUSSION:

Staff is wanting to get ahead of any possible failures to the clarifiers and their accompanying appurtenances by obtaining a condition assessment of both clarifiers 1 and 2 by Carollo Engineers, Inc. Carollo was hired for both Phase 1 and 2 upgrades to the Water Treatment Plant and are well versed in our treatment system. The project would entail visual and non-destructive testing of the concrete to determine areas of possible concern and ultrasonic thickness testing for metal structures. A final technical memorandum will be provided with their findings in addition to estimated costs for needed repairs in order to obtain reliable capacity from the clarifiers for the next 20-40 years.

Bidding documents for the rehabilitation of the clarifiers would not be completed under this work but could be added by future amendment once the required repairs are known.

Funding for this work will be from Water Projects, Miscellaneous, Design (account 31993395-46201; project WA0375) in the amount of \$73,661. Currently, there is only \$40,000 available in

this project account, but the decision was made to do a more thorough evaluation with testing after the budgeting process; therefore, it's recommended that \$40,000 be transferred from Water Distribution System, Construction (account (31993360-46101; project WA0195), which has an available balance of \$129,449.23. This will bring the total of Water Projects Miscellaneous, Design to \$80,000, which would provide sufficient funding for the recommended engineering services related to the project.

RECOMMENDATION:

Staff recommends awarding Contract K-2122-73 to Carollo Engineers in the amount of \$73,661 for engineering services associated with the Clarifier 1 and 2 Rehabilitation and authorize budget transfer of \$40,000 from Water Distribution System, Construction (31993360-46101; project WA0195) into Water Projects, Miscellaneous, Design (31993395-46201; project WA0375).