



CITY OF IOWA CITY COUNCIL ACTION REPORT

November 6, 2023

Resolution approving project manual and estimate of cost for the construction of the Wastewater Treatment Facility Improvements Project, establishing amount of bid security to accompany each bid, directing City Clerk to post notice to bidders, and fixing time and place for receipt of bids.

Prepared By:	Ben Clark, Senior Engineer
Reviewed By:	Tim Wilkey, Wastewater Superintendent Jason Havel, City Engineer Ron Knoche, Public Works Director Geoff Fruin, City Manager
Fiscal Impact:	\$1,350,000 available in Account #V3175 – Wastewater Treatment Facility Improvements 20228
Staff Recommendation:	Approval
Commission Recommendations:	N/A
Attachments:	Resolution

Executive Summary:

The project will incorporate three capital improvement projects into one construction contract, including influent flow monitoring, grit classifiers, and biosolids conveyor improvements.

Background / Analysis:

The existing in-channel area velocity sensor/meter will be replaced with a parshall flume for increased flow measurement accuracy and confidence, which are imperative for plant operations. This will require channel modifications, flume and sensor installation and programming into the headworks programmable logic controller.

The grit classifiers were installed in 2002 and have reached the end of their useful design life. They required a major frame repair in 2015, as well as multiple rotating parts replacements over the past 5 years. With improvements in technology, the new classifiers are more effective at dewatering and will produce a more advantageous, drier grit.

The conveyor currently collects biosolids from the belt filter presses, taking them to a shaftless screw auger and lifting the biosolids up to discharge over the truck bay. It has been found that when all three presses are operated together, the screw auger cannot keep up with the volume of biosolids delivered by the conveyor. This project will replace the existing conveyor and auger with a continuous conveyor that will keep up with the volume of all three presses, allowing greater operational flexibility.

Project Timeline:

Bid Letting – November 30, 2023

Award Date – December 12, 2023

Final Completion – December 2024