



PARKS AND RECREATION

March 20, 2019

To: Ryan Waller, City Manager
Cc: Andy Lent, Director of Finance
From: Doug Bylund, Parks and Recreation Director
RE: Aquatic Center Pump and Concrete Capital Improvement Projects

Staff has been working to complete two CIP repair projects for the Aquatic Center – Repair of the 2 shallow pool feature and slide pumps and replacement of portions of the concrete walkway around the shallow pool, concessions and bath house. \$15,000 was budgeted for the Feature pump repairs and \$30,000 was budgeted for the concrete replacement. Our department staff has been working with Rick Graves and the WPC Department concerning the replacement and maintenance schedule for the pool pumps and Jason Etnyre from the street department regarding the concrete replacement project.

Feature Pump Repairs

Prior to the 2018 season, we had contracted with a company to shot blast and reapply 2 coats of epoxy paint to the shafts of 4 of the 5 pool pumps. Early into that process, it was discovered that several of the shafts had been worn thin and even developed holes. It was determined at that time, we would remove 2 of the feature pumps after the 2018 season and remove the old shafts and replace with new. Staff coordinated with Williams Machine Shop in Lacona for the repair work to the pump shafts. Troy Williams attempted to remove the shaft of the first pump and due to heavy corrosion was unable to without damaging other parts of the pump and impeller. Staff then contacted the pool engineer, Water's Edge, and pump vendors for pricing for additional replacement parts of the pumps as well as pricing to replace both pumps and motors entirely.

After evaluating the quotes from 4 different vendors, staff has chosen to purchase 2 new VertiFlo pumps from ASC Pumping Equipment in Olathe, Kansas at a total cost of \$21,630. The new pumps have a 5 week lead time, compared to 4 to 6 weeks and an additional 2-3 weeks to rebuild and repair the old pump parts. Delivery of the pumps is expected by the first week of May and the WPC and Park staff will install them to begin pool preparations for the spring.



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Shallow Pool Perimeter Concrete Replacement

Staff issued RFP's for removal and replacement of the concrete walkway around the shallow pool and portions around the concession area and bath house. Many sections of the concrete have failed and are beginning to crumble, creating unsafe walking conditions for the Aquatic Center users. Small sections have been repaired in the past few years, but only to have nearby sections crumble following the freeze-thaw cycles each winter. Following the recommendation of Jason Etnyre and other concrete contractors, it has been determined to replace larger sections to eliminate the cracks which have allowed water to seep into the concrete and break it during the winter freeze.

Estimates last year were just under \$22,000, but the results of the RFP's that were opened on March 7 ranged from \$45,564 to \$93,582. After consulting with Jason, Staff is recommending rejecting all bids and re-contacting the contractors for a per square foot cost and then prioritizing the areas that need to be repaired prior to this season under the budgeted CIP amount.

In consideration of the recommended pool feature pumps replacement cost of \$21,630.00, staff is recommending reducing the total amount of concrete replaced to the revised limit of \$23,000, to stay within the total budgeted CIP funds of \$45,000. Utilizing the lowest bid from earlier this month, we could anticipate a per square foot cost of \$7.30 which would allow completion of around 3,000 square feet, which is just over half of the original project. We would then look to adjust the pool Capital Improvement Plan to include the remaining concrete work in future fiscal years.

