

**Date:** July 11, 2017

**To:** Robin Reeves, Director of Parks and Recreation

**From:** Renee Jordan, Chief Park Planner

**Subject:** Change Order for Buckhorn Park Booster Pumps

### **Requested Action**

The purpose of this Agenda item is for the ratification of Change Order No. 5 in the amount \$118,128.19 for Buckhorn Park for the addition of booster pumps to the irrigation system. It was imperative that the pumps be added quickly to insure the irrigation system was functioning properly to protect new vegetation from summer heat.

### **Staff Recommendation**

Staff recommends approval of Change Order No. 5 in the amount of \$118,128.19.

### **Project History and Description**

Neighborhood park irrigation systems are designed to provide enough water to a park by running only two days per week between the hours when the park is closed from 11:00 pm to 5:00 am. Sufficient water pressure is needed to put out enough water during this timeframe in areas as large as public parks.

The contract with J.C. Commercial, Inc. commenced on June 27, 2016 for the renovation of Buckhorn Park in the amount of \$1,382,277. During the design phase, the water pressure was tested at 62 psi, and the irrigation system was designed accordingly without booster pumps. When the system was installed it was discovered that the evening water pressure fluctuated between 40 and 50 psi, not allowing the system to function properly.

The best solution was to install booster pumps that provided the pressure and consistency required to run the irrigation system properly. The contract with J.C. Commercial, Inc. was still open and the contractor was able to quickly remobilize. The urgency for installing the pumps was due to the approaching summer heat. This also allowed the work to be completed while the park was still fenced off and closed to the public.

The booster pumps would have been needed to irrigate the park properly even if a proper pressure reading had been received at the time the system was designed. In that case the pumps would have been included in the original bid rather than being added through change order.

There have been four previous change orders to this contract totaling \$26,647.71. The first change order was for \$5,785 to remove a tree that was not picked up on the survey, for additional grading work, and for modifying the completion date for the playground which was scheduled around school activities. Change Order No. 2 included adding a concrete ring to a storm drain, tree removal and the installation of a time clock for the lighting system in the amount of \$1,205.58. Change Order No. 3 was for a concrete footing for an additional slide location, installation of the slide and for additional sod installation in the amount of \$18,632.48. Change Order No. 4 in the amount of \$1,024.65 was for the addition of two grills and a change to the contract completion date due to rain delays.