

Date: September 18, 2024

Agenda Item: Pool Heater Repair

History:

Fawcett Family Aquatic Center's Pool Heaters are failing beyond any additional repair without the purchase and installation of new boilers. Fortunately, with the help and knowledge from Steve Kapun at Harvest HVAC, we have been able to nurse 2-3 of our current units, allowing us to maintain a decent water temperature throughout the summer swim season. Steve has extensively studied our system, has replaced parts and has allowed us to keep our heaters running over the past 2 seasons. With his help, we have devised a plan to repair & rehab the existing system.

The plan is to replace the current heating unit with new high efficiency boilers better suited for this application. We currently have 1,000,000 nominal btu capacity, after long hours of babysitting the current system to nurse it along, it has become apparent that you we will be more than adequately served by two boilers with a combined capacity of just under 800,000 nominal btu capacity. The new heaters will give rapid recovery from cool overnight lows and then be able to throttle back during warmer days. The project will reuse the new heat exchanger and modify the existing piping as needed to customize the repairs in the space allotted.

Below is Steve's proposal of equipment and labor including current service work charges in the total cost, along with a donated wall mounted exhaust fan, including installation. This fan will ensure that any accumulation of oxidizer/chlorine gas is purged from the space and minimizes any risk of further corrosion on various piping elements (we will need to work with Williamson Electric on electrical for the exhaust fan).

- Qty 2 - high efficiency boilers at 399,000 btu/h input
- replace failed circulator pumps
- new expansion tank
- new glycol monitoring pump system
- new system glycol
- near unit piping and piping modifications and specialties
- vent connections
- drain connections
- control connections and system thermostat
- electrical connections
- startup and calibration
- removal of old equipment

Total Cost.....\$49,847.00

Payment Terms.....50% down (\$24,923.50) progress draws thereafter with \$1,800 retainage for spring startup and calibration.

Staff Recommendation:

Park and Recreation Board and staff recommends that we move forward with the repair of the pool heaters by Steve Kapun at Harvest HVAC.

Questions, please feel free to contact me at 382-4352 (office) or by email at nevadarecreation@gmail.com