To: City Council
Subject: Approve a contract in the amount of $24,780 and for PCS Construction LLC, to refurbish the interior of the filter cells at the East Lansing Family Aquatic Center and furthermore approve a project contingency not to exceed $2,000.

Meeting: Regular Council - 11 Mar 2020
Department: Parks, Recreation and Arts
Staff Contact: Tim McCaffrey, Director

BACKGROUND INFORMATION:

It is requested that a Contract be awarded to PCS Construction LLC to refurbish the interior of the filter cells at the East Lansing Family Aquatic Center and that a construction contingency of $2,000 be approved for this project.

The East Lansing Family Aquatic Center uses a sand filtration system to strain particulates from the pool water. A sand filtration system is comprised of filtration tanks that are filled with a sand media. The pool water passes through the tank and the sand strains out the particulates which are later cleared from the filter tank through a process of back-washing.

The Aquatic Center has two 9’ diameter, steel filtration tanks. Each tank is divided into two filter cells which are filled with sand media. The water enters the tanks and is distributed through the sand via perforated PVC laterals. The filter tanks are original to the construction of the Aquatic Center in 2002.

The interior of the Aquatic Center filter tanks is coated with a sealant to protect the steel from corrosion. Last year small chips of the sealant began flaking off and these chips have progressed to sections that are now four to five inches in diameter, see attached photos. Where the sealant has chipped off, the steel tank wall is directly exposed to the chemically treated pool water and is corroding. Currently, the tank remains structurally sound and an evaluation using hand tools shows the corrosion is on the surface but has not progressed to pitting. However the longer that the interior steel surface remains exposed to the water, the greater the likelihood of structural damage.

Bids have been secured to refurbish the interior of all four filter cells of the two filtration tanks. The work involves emptying all sand medial, sandblasting the interior of the tanks to bare metal, installation of a Tnemec 3-coat epoxy sealant, and installation of new sand media. The laterals will be inspected by City staff and replaced, if need, prior to refilling the tanks with sand.

The companies providing this type of service are limited. Three companies were identified and invited to submit bids on the work. PCS Construction, LLC out of Goodrich, MI, was the low bidder with a price of $24,780, see attached bid tabulation.
**FINANCIAL IMPACT:**
As described above, $26,780 is requested for this project: $24,780 for contract award and $2,000 for contingency.

**RECOMMENDATION:**
Since the areas failure of the existing sealant have grown substantially, it is recommended that this work be completed before the 2020 Aquatic Center season.

Deparemtn of Parks and Recreation staff recommend award of this Contract to PCS Construction, LLC.

**ATTACHMENTS:**
- Photograph
- Bid Tabulation_Filer Cell Refurb
# City of East Lansing
## Family Aquatic Center Filter Cell Refurbishing

<table>
<thead>
<tr>
<th>Bidder</th>
<th>Base Bid</th>
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<tbody>
<tr>
<td>PCS Construction</td>
<td>$24,780.00</td>
</tr>
<tr>
<td>Northern Pump &amp; Well</td>
<td>$74,250.00</td>
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<tr>
<td>OP Aquatics</td>
<td>Declined to bid</td>
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