COON CREEK WATERSHED DISTRICT
Request for Board Action

MEETING DATE:        July 22, 2013
AGENDA NUMBER:       6
ITEM:                Request to Award Contract on Ditch 58 Weir Repairs

FISCAL IMPACT: $3,500
POLICY IMPACT: Policy

REQUEST
Review Quotes and Award contract for Ditch 58 Weir Repairs

BACKGROUND
In April 2010 during a routine inspection, erosion was identified downstream of both weirs.

In 2012 the Board budgeted $3,500 for 2013 repairs of the weirs as part of the Capital Improvement Budget.

In May 2013 a survey of the condition and extent of the erosion was conducted. The survey was then reviewed by Wenck to create the attached recommendation.

ISSUES/CONCERNS
Erosion:
Erosion downstream of the Timberline Park and Prairie Creek weirs due to flow over the weirs.

Remedy:
Install 20ton of Class III riprap or equivalent field stone at the weir ends to stop further erosion.

Cost Estimate
<table>
<thead>
<tr>
<th>Item</th>
<th>Units</th>
<th>Unit Cost</th>
<th>Quantity</th>
<th>Extended Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobilization</td>
<td>LS</td>
<td>$2,000</td>
<td>1</td>
<td>$2,000</td>
</tr>
<tr>
<td>Install Class III Riprap</td>
<td>Ton</td>
<td>$75</td>
<td>20</td>
<td>$1,500</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>$3,500</td>
</tr>
</tbody>
</table>

Quotes
Two contractors submitted quotes. Below are the results:

<table>
<thead>
<tr>
<th>Company</th>
<th>Quote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunram Construction</td>
<td>$3,500</td>
</tr>
<tr>
<td>Grade A Excavating</td>
<td>$4,200</td>
</tr>
</tbody>
</table>

RECOMMENDATION
Award contract to Sunram Construction
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TECHNICAL MEMORANDUM

TO: Tim Kelly and Jon Janke


DATE: May 31, 2013

SUBJECT: Timberline Park and Prairie Road Weirs Erosion Repair

Introduction
The purpose of this memorandum is to provide a recommendation to prevent further erosion at the weir ends at the Timberline and Prairie Road weirs on Ditch 58. Last year I provided a concept budget for the 2013 budget of $2,000 for the Timberline Weir repair and $1,500 for the Prairie Road repair.

Method
Jon Janke and I visited each site this spring and measured the areas in need of repair. The recommended repair material is Class III riprap or the equivalent field stone. Class III rip rap can withstand a sustained 11.5fps velocity. The estimated velocity over the weir with 2’ of head is 6.8fps so the Class III rock provides a 1.7 safety factor.

Timberline Park
Each side has a repair volume of 4’long x 3’wide x 4’high. The resulting volume for both sides is 3.5CY.

Prairie Road
The west end has an area of 20’long x 5’high. The recommended thickness for Class III is 27”. Therefore, the rock volume is 8.3CY.

The total rock volume is 11.8CY or 16.5tons.

Recommendation
I recommend we obtain contractor quotes to install 20ton of Class III riprap or equivalent field stone be installed at the weir ends to stop further erosion. As a check I phoned Ryan Sunram of Sunram Construction who said he could furnish and install this amount of rock at these locations for $3,500. This is a good price considering mobilization runs $2,000 and the installed price for rock is $70 to $90/ton resulting in a construction cost range of $3,400 to $3,800.
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