	AGENDA ITEM EXECUTIVE SUMMARY									
	Title:	Recommendation to Award Proposal for Riverside Reservoir Repair								
	Presenter:	John Lamb								
<i>Please check appropriate box:</i>										
	Government Operations		X	Government Services 09.22.14						
	Planning & Development			City Council						
	Public Hearing									
Estimated Cost:	\$60,000.00	Budgeted:	YES	X	NO					
If NO, please explain how item will be funded:										
Executive Summary:										
<p>The Riverside Water Reservoir is located at the end of North Riverside Avenue and in need of minor structural repairs. The north and south west corners have cracking, concrete and coating failure on the exterior of the corners. The repair for the work is included in the current budget.</p> <p>City staff retained the consulting firm of Crawford, Murphy & Tilly (CMT) to inspect these areas along with the interior of the reservoir and to recommend corrective actions. After their evaluation, CMT recommends a process of reinforcing the corners with a fiber wrap, with concrete repair prior to the fiber wrap application.</p> <p>CMT staff contacted four suppliers and contractors to submit proposals for the work; two companies responded with proposals. Two proposals were submitted in the amounts below:</p> <table border="0"> <tr> <td>Sitar Construction of St. Charles</td> <td>\$62,000</td> </tr> <tr> <td>Vector Construction of Decatur</td> <td>\$74,200</td> </tr> </table> <p>Based on these submittals, CMT is recommending Sitar Construction of St. Charles at a cost of \$62,000.</p>							Sitar Construction of St. Charles	\$62,000	Vector Construction of Decatur	\$74,200
Sitar Construction of St. Charles	\$62,000									
Vector Construction of Decatur	\$74,200									
Attachments: <i>(please list)</i>										
Letter of Recommendation										
Recommendation / Suggested Action <i>(briefly explain):</i>										
Recommendation to Award Proposal for Riverside Reservoir Repair to Sitar Construction in the amount of \$62,000 and a Resolution Authorizing the Mayor and Clerk to execute the same.										
<i>For office use only:</i>		<i>Agenda Item Number: 5.f</i>								



September 9, 2014

Mr. John Lamb
Environmental Services Manager
City of St. Charles
2 E. Main Street
St. Charles, IL 60174

Dear Mr. Lamb:

*Re: 14201-03 City of St. Charles, Repair Cracking at
Wells 3 & 4 Reservoir, Recommendation*

The city of St. Charles has an existing partially buried concrete ground storage tank located along North 1st Avenue and the Fox River at the Wells 3 & 4 site that was constructed in 1985. In March 2014, CMT conducted a site visit to visually inspect vertical cracking at the northwest and southwest corners of the reservoir. The cracking at the northwest corner was only observed on the west wall of the tank. The cracking at the southwest corner was observed on both the west wall and south wall. The vertical cracking extends from existing grade up to near the top of the walls with the most severe cracking observed in the approximately first six feet above existing grade.

Based on the site inspection and evaluation of the record drawings, CMT recommended externally reinforcing the corners with a carbon fiber wrap to prevent further deterioration of the reservoir wall corners. This requires excavation beyond the bottom of the cracks, removal of exterior coating to the limits of the fiber wrap, removal of the deteriorated concrete along the cracks, replacement of deteriorated concrete, and application of the carbon fiber wrap. It also anticipated that some of the existing reinforcing will need to be cleaned of rust and protected from further corrosion by including a corrosion inhibitor in the concrete repair material. The fiber wrap will extend beyond the cracks to provide sufficient load transfer length (lap) and sufficient bond length to achieve a capacity of the fiber wrap that meets or exceeds the capacity of the existing reinforcing steel. After sufficient curing of the materials, a compatible coating will then be applied to blend in with the existing coating. After the coating has cured, excavations will then be backfilled and ground surfaces restored.

The above recommended improvements were incorporated into a Request for Proposals (RFP). CMT contacted a fiber wrap manufacturer to identify Contractors qualified to perform this specialized work. Four qualified Contractors were invited to submit a proposal. Two proposals were received on Monday, September 8, 2014. The Contractors that responded to the Request for Proposals were Sitar Construction from St. Charles, Illinois and Vector Construction from Decatur, Illinois.

The lowest proposal was submitted by Sitar Construction of St. Charles, Illinois in the amount of \$62,000. The other proposal was submitted by Vector Construction of Decatur, Illinois in the amount of \$74,200. The proposal breakdown was as follows:

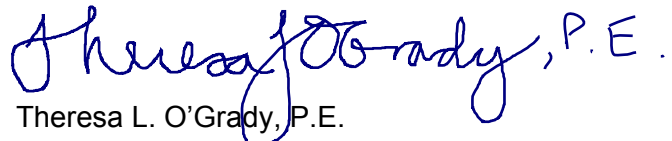
Description	Sitar Construction	Vector Construction
Mobilization/Demobilization	\$5,000	\$2,750
Sitework	\$5,000	\$10,750
* Including Excavating, Backfill & Surface Restoration (less Bike Path)		
Concrete Repair	\$18,000	\$26,950
* Including Demolition, Sawcutting, Surface Prep, Corrosion Inhibitor, Form and Pour, Strip Forms, Rub/Finish, & Clean-up/Haul debris		
Carbon Fiber Wrap	\$28,000	\$27,250
* Including Surface Prep, Fill Minor Voids (if any), Apply Epoxy Adhesive, Saturate Carbon Fiber Fabric, Apply Wrap and two coats of UV Protection		
Miscellaneous	\$6,000	\$6,500
* Including Exterior Coating Repair, Interior Coating at the west corners & all work not described in the items above		
TOTAL	\$62,000	\$74,200

The original budgetary cost estimate for the work was estimated at \$45,000 earlier this year. However, given the bidding climate and the limitation of the specialized Contractors to perform non-specialized work such as excavation, backfill and restoration, we believe that the amount of the lowest proposal (\$62,000) is reasonable. Based on the information above, Crawford, Murphy & Tilly, Inc. recommends that the City award the contract for Wells 3 & 4 Reservoir Repairs to Sitar Construction of St. Charles, Illinois in the amount of \$62,000.

We are available at your convenience to discuss any of the information presented herein. Please contact me if you have any questions regarding any of the above information.

Sincerely,

CRAWFORD, MURPHY & TILLY


Theresa L. O'Grady, P.E.

Cc: Jeff Fickbohm - CMT