



“...meeting community needs...enhancing quality of life.”

Department of Utilities

To: Chairperson Joe Martin and Members of the Utilities Committee

From: Utilities Director Chris Shaw

Date: July 18, 2014

Re: *Approval of Contract to Strand Associates for Engineering Services of the proposed 1 Million Gallon Glendale Water Tower Project in the amount of \$140,605 with a 15% contingency of \$21,090 and the project total not to exceed \$161,695*

BACKGROUND:

The Oneida Street Tower was constructed in 1952 and requires replacement by year 2015 if major rehabilitation costs are to be avoided. The multi-legged structure has shown significant corrosion based on the last inspection in 2008. Rehabilitation was estimated to cost over \$700,000. The 2008 water distribution master plan recommended the replacement of the Oneida Street Tower with a new 1.0 MG tower that would better serve the water storage needs for water distribution north of the Fox River and south of Highway 41 in the main pressure zone.

The construction of the 1 MG Glendale Water Tower is currently planned for 2015-2016. The new tower would add an additional 500,000 gallons of elevated storage for the city. As reported in a February 29, 2014 memo to Utilities Committee, the Department of Public Works and Utilities Department had selected a site and completed a preliminary review including a geotechnical investigation and necessary hydraulic modeling. The selected location is a 1.28 acre site, located on the NW corner of Parcel #31-1-4315-00. The site has approximately 243 feet of frontage on East Glendale Avenue. The site is slightly irregular in shape and was purchased by the Water Utility based on an appraisal from the assessor's office. The purchase price was \$41,600 and approved by the Common Council.

ENGINEERING SERVICES

The Water Utility will require contracted engineering services to move forward with the planning and construction of the water tower. The preliminary objectives for a selected design firm will include a review of hydraulic modeling and geotechnical surveys. A preliminary report will review the costs of different tower types and provide a probable cost for construction. Traditional project engineering services will produce plans, specifications and all

the necessary bidding services to produce a successful construction. Other design elements that this project will need incorporated include:

- Supervisory Control and Data Acquisition (SCADA) design
- Design cellular facilities into the project
- Provide a design and specifications for a cathodic protection system
- Provide a design and specifications for a tank mixing systems
- Provide construction management tasks including resident engineering services
- Provide contract administration services

Marketing the tower will also be an element of the project as customer relations is an important aspect of the utility. Finally, the engineering firm will be responsible for an array of other project deliverables such as regulatory applications and approvals through the Public Service Commission and the WDNR.

RFP PROCESS

City staff from the Public Works and the Utilities departments completed a Request for Proposals (RFP) evaluation and selection process. The engineering proposals were scored for each engineering firm's ability to meet requirements set forth in the City's RFP. Elements evaluated included the firm's project team and resumes, project understanding, schedule, and ability to meet project demands.

Three proposals were responsive and met requirements as defined in the RFP. R. A. Smith National and CH2M HILL did not propose. All three firms had an understanding of project requirements and regulatory requirements. The team chose to discount Donohue and Associates due to the limited resources that would be assigned to the project. The highest ranked proposal was Strand Associates. Proposal fees were only evaluated after the selection process was completed. A value component was also derived by associating the cost of the project with the proposal score. This allows value to be reviewed in addition to cost and score. In this column a lower cost per point is defined as providing a greater project value.

Engineering Firm	Proposal Score	Cost	Value Cost/Point	Proposal Rank
Strand Associates	244	\$140,605	\$576	1
McMahon	234	\$156,384	\$668	2
Donohue and Associates, Inc.	122	\$119,883	\$983	3
R. A. Smith National	Did Not Propose			NA
CH2M HILL	Did Not Propose			NA

The project team selected Strand Associates over the other firms due to their firm having a successful team with extensive experience with similar projects. Based on their proposal, a

follow-up interview, and reference checks, the project team is confident in selecting Strand Associates for this project.

RECOMMENDATION:

I recommend that the Utilities Committee approve an Engineering Services contract to Strand Associates for the proposed 1 Million Gallon Glendale Water Tower Project in the amount of \$140,605 with a 15% contingency of \$21,090 and the project total not to exceed \$161,695.

If you have any questions, regarding the project please contact Utilities Director Chris Shaw at 832-5945.