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Department of Utilities  
Wastewater Treatment Plant  
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**TO:** Chairperson Joe Martin and Members of the Utilities Committee

**FROM:** Dean Fox, Information Technology Director  
Chris Shaw, Utilities Director

**DATE:** September 18, 2013

**RE:** *Award Spectralink Phone System Wireless Access Points and configuration to Advanced Wireless in the amount of \$229,915.27 and a 10% contingency of \$22,992 for a project total not to exceed \$252,906*

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**BACKGROUND:**

For safety, security, and efficiency reasons, the Utilities Department has maintained 100% wireless phone coverage throughout the interior and exterior areas of the water and wastewater treatment facilities. The original system that was installed at the wastewater plant utilizes a now obsolete analog technology to connect with the wireless phones. The company that completed the programming and installation no longer supports this technology and the computer and programming that manages it is also obsolete. Should a failure occur with any critical portion of the current system, the wastewater plant would no longer have full communication coverage. Other available options, such as cell phones do not operate within the utilities plants due to the depth of concrete and construction materials in the facility.

A survey was completed to determine the scope of work that would be required to replace the current system. That survey indicated 154 access points would need to be installed throughout the wastewater plant to obtain the 100% coverage needed. This include a number of lighting proof high power access points outside the buildings as well as the requirement for explosion proof Class 1 Division 1 and Class 1 Division 2 locations at the Wastewater Treatment Plant.

**QUOTE RESULTS:**

Advanced Wireless of Franklin Wisconsin in the amount of \$229,915.27

- Advanced Wireless has been the City's provider for wireless service, equipment and support since implementing Motorola at the Appleton Police Department (APD) approximately 4 years ago.
- Advanced Wireless has also been the provider for the remainder of the wireless network in the rest of the City buildings.

- Advanced Wireless is the only Elite Motorola dealership in Wisconsin. This designation recognizes the engineering skillset required for difficult wireless applications such as this.
- Advanced Wireless has a vast array of knowledge of both our Utilities campuses due to the number of surveys and maps created for this process.

**RECOMMENDATION:**

Advanced Wireless has been providing the City's Motorola sales and support since selecting them back when the City installed the wireless system at APD. Advanced Wireless has taken great steps in surveying and becoming familiar with the needs at both Utilities Plants and are the only known regional contractor with the depth of knowledge and experience to successfully complete this critical project. Therefore we recommend award for the Spectralink phone system wireless access points and configuration to Advanced Wireless in the amount of \$229,915.27 and a 10% contingency of \$22,992 for a project total not to exceed \$252,906

Please contact Directors Fox or Shaw with any questions regarding this recommendation.