

## Legislation Text

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**File #:** BILL NO. 17-208, **Version:** 1

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AN ORDINANCE APPROVING THE AWARD OF BID NO. 2017-042-1-3C WATER UTILITIES SCADA SYSTEM IMPROVEMENTS TO SECOND SIGHT SYSTEMS LLC AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$396,855.14.

(Note: First read by City Council on September 21, 2017.)

Key Issues:

- The current SCADA communications system is in need of replacement as AT&T is providing a reduced level of support and reliability for the leased copper communication lines.
- The Water Utilities Department will spend nearly \$450,000 this year on the leased copper lines.
- The Water Utilities Department is scheduled to move into the new facility this fall and AT&T has indicated it will not relocate the leased copper line service to the new facility.
- The Water Utilities Department engaged HDR Engineering, Inc to create a SCADA Master Plan which evaluated the future needs of our SCADA program as well as various methods of communications.
- The radio system will be augmented with fiber connections at the largest facilities to support the increased level of data and opportunity for expansion at those sites.
- This contract will complete the SCADA Communications construction as recommended by the SCADA Master Plan.
- The City advertised and bid this project and recieved 3 bids.
- Second Sight Systems has been determined to be the lowest responsive and responsible bidder.

Proposed City Council Motion:

FIRST MOTION: I move for a second reading of AN ORDINANCE APPROVING THE AWARD OF BID NO. 2017-042-1-3C WATER UTILITIES SCADA SYSTEM IMPROVEMENTS TO SECOND SIGHT SYSTEMS LLC AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$396,855.14.

Background:

The SCADA System was originally constructed using AT&T leased POTs (Plain Old Telephone) lines for its communications backbone to all the remote water and waste water sites. These lines have worked well for many years but over time the utility's systems have become more complex and the data files are now larger and more numerous than ever before which is causing the lines to reach their limit at several of the larger remote sites.

To compound this issue AT&T is moving towards retiring these lines and encouraging the utility to seek other alternatives by increasing the lease rates while decreasing support. Water Utilities has been reviewing alternatives for

several years to find the correct technology to replace the leased copper lines. The utility has worked with public safety to review microwave transmission, has reviewed the possibility of fiber connections, has piloted a cellular communication option and had a varieties of issues with consistency and potential costs with all of those options.

The proposed radio communications will operate a lower licensed commercial frequency in the 173-450 mhz range and provide good coverage to all the remote facilities. This type of communication has been used for years and is quite reliable and cost effective. The draw back to the use of radio frequencies is bandwidth and speed of the signal, which is why this plan will also employ the use of fiber at the larger facilities.

Staff Recommendation: Staff Recommends AN ORDINANCE APPROVING THE AWARD OF BID NO. 2017-042-1-3C WATER UTILITIES SCADA SYSTEM IMPROVEMENTS TO SECOND SIGHT SYSTEMS LLC AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$396,855.14.

Presenter: Jeff Thorn, P.E. Assistant Director of Engineering Services, Lee's Summit Water Utilities

Staff Recommendation: Steff recommends approval of AN ORDINANCE APPROVING THE AWARD OF BID NO. 2017-042-1-3C WATER UTILITIES SCADA SYSTEM IMPROVEMENTS TO SECOND SIGHT SYSTEMS LLC AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$396,855.14.

Committee Recommendation: The September 19 Public Works Committee meeting was cancelled due to a lack of agenda items.