

## Legislation Text

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**File #:** BILL NO. 18-205, **Version:** 1

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An Ordinance awarding Bid No. 57831683-C, for the cathodic protection pilot program to Wiedenmann, Inc., in the amount of \$203,997.00 and authorizing the City Manager to execute an agreement for the same. (PWC 11/27/18)

Key Issues:

Approximately 16,000 feet of six and eight-inch ductile iron water mains were installed in the Princeton Heights area during the 1990's.

Due to corrosion of iron pipe, over twenty water main breaks have occurred in the Princeton Heights area since 2009.

To reduce the corrosion of existing water mains and extend the service life of water mains in the Princeton Heights area, 280 high potential magnesium anodes will be installed with this project as part of a cathodic protection pilot program.

Proposed City Council Motion:

FIRST MOTION: I move for a second reading of an Ordinance awarding Bid No. 57831683-C, for the cathodic protection pilot program to Wiedenmann, Inc., in the amount of \$203,997.00 and authorizing the City Manager to execute an agreement for the same.

SECOND MOTION: I move for adoption of an Ordinance awarding Bid No. 57831683-C, for the cathodic protection pilot program to Wiedenmann, Inc., in the amount of \$203,997.00 and authorizing the City Manager to execute an agreement for the same.

Background:

A Water Research Foundation report published in 2018 "Retrofit and Management of Metallic Pipe with Cathodic Protection" provides information and case studies from water utilities beginning anode retrofit programs to extend the service life of existing water mains. An anode retrofit program is a type of cathodic protection that typically involves welding a wire from a magnesium anode to an existing water main then burying the anode near the water main. The Des Moines Water Works (DMWW) and Louisville Water Company (LWC) saw a reduction in water main breaks after beginning anode retrofit programs in 2004. From 2004 to 2014, DMWW installed anodes on 22 miles of water mains. From 2004 to 2013, LWC installed cathodic protection on 75 miles of water mains. WaterOne in Johnson County Kansas completed a few projects installing anodes on copper service lines. According to DMWW, a 32 pound magnesium anode has an estimated service life of 25 years. The cost of an anode retrofit project is approximately 10 percent of the cost for replacing a water main.

Impact/Analysis:

Funding Source Encumbrances	Current Project Budget		Direct Expense	Prior
	This Request/Contract	Remaining Balance		
57831683-C	\$250,000.00		\$0.00	\$0.00
\$203,997.00	\$46,003.00			

**Other Information/Unique Characteristics:**

Water Utilities Engineering issued Bid No. 57831683-C on October 19, 2018. The bid was advertised and potential bidders were notified through QuestCDN, on the City website and in a broadcast e-mail to known contractors. A pre-bid conference was held on October 30, 2018. Three (3) responsive bids were received by the November 8, 2018 bid opening date. Wiedenmann, Inc., was determined to be the lowest and most responsible bidder by City Staff. Water Utilities staff reviewed the bids and recommend awarding the contract to Wiedenmann, Inc., in the amount of \$203,997.00.

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

**Staff Recommendation:**

Staff recommends approval of an Ordinance awarding Bid No. 57831683-C, for the cathodic protection pilot program to Wiedenmann, Inc., in the amount of \$203,997.00 and authorizing the City Manager to execute an agreement for the same.

**Committee Recommendation:** The Public Works Committee voted unanimously to recommend to City Council approval of an Ordinance awarding Bid No. 57831683-C, for the cathodic protection pilot program to Wiedenmann, Inc., in the amount of \$203,997.00 and authorizing the City Manager to execute an agreement for the same.