



Naperville

CITY COUNCIL AGENDA ITEM

SUBJECT: Recommend the Award of Bid 16-215, 2016 Ogden Avenue Water Main Replacement

TYPE OF VOTE: Simple Majority

ACTION REQUESTED:
 Approve the Award of Bid 16-215, 2016 Ogden Avenue Water Main Replacement, to Martam Construction for the Base Bid amount of \$693,899 plus a 3% contingency.

BOARD/COMMISSION REVIEW:
 N/A

COUNCIL ACTION PREVIOUSLY TAKEN:

Date	Item No.	Action
N/A		

DEPARTMENT: Department of Public Utilities – Water (DPU-W)
 Finance Department

SUBMITTED BY: James Holzapfel, DPU-W Director
 Rachel Mayer, Finance Director

BACKGROUND:
 This project is located on the south side of Ogden Avenue between Columbia Street and Wisconsin Street. This is Phase II of a larger project designed to provide circulation loops at several water main dead-ends, allow for interconnection between pressure zones, ensure water quality and incorporate the south side of Ogden Avenue, between Columbia and Wisconsin into an enhanced pressure zone of the distribution system to increase water pressure and enhance fire flow. This project was one of the recommended improvements from DPU-W’s 2010 Water Distribution System Hydraulic Study.

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In addition, the water mains along the north and south sides of Ogden Avenue from Columbia Street to East Avenue have experienced a number of water main breaks. Water main breaks disrupt utility service to the commercial businesses, affect traffic on Ogden Avenue creating long delays and interrupt commerce. DPU-W is planning to replace additional sections of the water main along Ogden Avenue in future years.

DISCUSSION:

Advertisement Date:	05/02/2016	Notices Sent:	143
Opening Date:	05/17/2016	Plan Holders:	19
		Bids Received:	4

BID TABULATION

The following bids were received:

Base Bid-Water Main Only	
Martam Construction	\$693,899.00
<i>Engineer's Estimate</i>	<i>\$1,036,509.25</i>
Naperville Excavating	\$725,919.50
A Lamp Concrete	\$816,787.00
H. Linden & Sons	\$877,748.00

Alternate 'A' Water Main and Electrical Duct Bank	
Naperville Excavating	\$865,064.50
<i>Engineer's Estimate</i>	<i>\$1,220,996.75</i>
Martam Construction	\$879,419.00
A Lamp Concrete	\$1,021,987.00
H. Linden & Sons	\$1,077,793.00

Bidders were required to submit two (2) bid responses for this project, summarized as follows:

- BASE BID – Includes water main replacement on the south side of Ogden Avenue from Columbia Street to Wisconsin Street.
- ALTERNATE “A” – Includes all work in the Base Bid plus the installation of a 2-way electrical duct bank within the above mentioned project limits. This duct bank would have been utilized by DPU-E at a later date.

After evaluating the bids, DPU-E decided to forego the duct bank work included in Alternate “A” because the anticipated savings of a joint project with the water main was not realized. A greater savings could be realized by having the work performed under existing DPU-E contracts. The elimination of Alternate “A” allowed DPU-W to evaluate and recommend the award of the Base Bid from the lowest responsive, responsible bidder.

The cost of the project contained in the Base Bid is 33.1% lower than the engineer’s estimate. Past bids of similar work were used in creating the engineer’s estimate. Current bidding climate appears to be more favorable than in recent past as the subject project received unit pricing on

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several bid items less than bid prices previously received, especially on the following two items: Last year, the unit cost for the 12” Water Main was \$225.00 per foot (engineer’s estimate used \$210 per foot). The unit price submitted is substantially lower at \$95.00 per foot, which creates an overall savings of \$166,000 on this single item. Additionally, the recent bid saw a significant reduction in the unit price for Traffic Control, Mobilization and Water Main Connections resulting in an overall savings of \$98,000 between the estimate and low bid. These items alone contribute \$264,000 to the overall difference of \$343,000. The lower overall bid prices suggests a more competitive bidding environment in 2016.

Staff believes that the low bid submitted is reasonable for performing the work as specified. DPU-W has previous experience with Martam Construction on the Route 59 project and has found them to be a capable contractor on similar projects.

FISCAL IMPACT:

CIP#: WU04

The Ogden Avenue Water Main Replacement is expensed to the Capital Improvement Program line below. A total of \$1,300,000 is budgeted for WU04, Water Distribution System – Rehabilitation/Replacements, in CY2016. This water main replacement is the primary component of WU04 for CY2016.

Account Number	Fund Description	Total Budget Amount
430-3490-537.70-89	Water & Wastewater Fund	\$8,857,000

Per Council directive, contingency on construction projects is set at 3% on projects over \$500,000 and 5% on projects under \$500,000.

RECOMMENDATION:

Approve the Award of Bid 16-215, 2016 Ogden Avenue Water Main Replacement, to Martam Construction for the Base Bid amount of \$693,899 plus a 3% contingency.

ATTACHMENTS:

1. CIP Page

Project Number: WU04
Department Name: Water/ Wastewater
Project Purpose: This project supports the delivery of municipal services that are reliable and responsive to the needs of the citizens by updating essential utility infrastructure.

Project Title: Water Distrib. System - Rehabilitation/Replacements
CIP Status: Annual
Category Code: LR
Sector: Various
Criteria: Infrastructure Replacement/Renewal
WF Number: TBD

Project Narrative:

This project provides for the replacement or rehabilitation of water mains in areas that have experienced frequent main breaks, corrosion or hydraulic deficiencies. It also provides for the replacement of hydrants & valves that have failed or are inoperable. This project has been coordinated with the City's Road Improvement Program. In addition, this project provides for the replacement of older Lead (Pb) water service lines that do not meet U.S. Environmental Protection Agency safe drinking standards. The main project planned for CY16 include the rehab/replacement of deteriorated water main located along East Ogden Avenue from Columbia to Wisconsin.

External Funding Sources Available

None

Projected Timetable

Engineering and construction ongoing throughout the 5-year CIP as water main rehabilitation/replacements are scheduled.

Impact on Operating Budget

No new personnel; Nominal impact on operations & maintenance budget. The water service line replacement program does not significantly affect ongoing maintenance costs.

Project Budget Impact Summary

	2016	2017	2018	2019	2020	Total CIP
Impact Detail	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0
	Prior Year(s) Impact					0
	Total Project Impact					0

Funding Source Summary

	2016	2017	2018	2019	2020	Total Source
Funding Source	1,300,000	1,625,000	955,000	625,001	850,000	5,355,001
Water Utility	1,300,000	1,625,000	955,000	625,001	850,000	5,355,001
Subtotal	Prior Year(s) Expenditures					3,886,521
	Total All Sources					9,241,521

Project Cost Summary

Expense Category	Prior Year(s) Expenditures	2015 Budget	2015 Year-to-Date	2016	2017	2018	2019	2020	Total CIP
Benefits	46,500	0	25,503	0	0	0	0	0	0
Construction	2,511,423	500,000	921,704	1,300,000	1,625,000	955,000	625,001	850,000	5,355,001
Salaries	142,231	0	71,830	0	0	0	0	0	0
Services	46,148	0	15,975	0	0	0	0	0	0
Supplies	56,427	0	48,780	0	0	0	0	0	0
Subtotal	2,802,728	500,000	1,083,793	1,300,000	1,625,000	955,000	625,001	850,000	5,355,001
	Prior Year(s) Expenditures								3,886,521
	Total Project Cost								9,241,521

