DISTRICT All 170344

VILLAGE OF LOMBARD REQUEST FOR BOARD OF TRUSTEES ACTION

For Inclusion on Board Agenda Bids and Proposals

TO :	President and Villag	ge Board of Trustee	es	
FROM :	Scott Niehaus, Villa	ge Manager		
DATE :	August 8, 2017	_ Agenda Da	ate August 17,	2018
TITLE :	FY 2017 Water Mete	er Replacement Pro	oject PWU-17-1	5
SUBMITTED BY:	Brian Jack, Utilities	Superintendent		
RESULTS:				
	olished <u>6/12/17</u>		7/12/17	
Total Number of Bi		6		
	dders Meeting Speci		_	
Bid Security Requir		_XYes	No	
Performance Bond		Yes	No	
Were Any Bids Wit	hdrawn	Yes	XNo	
Explanation:				
Waiver of Bids Req	uested?	Yes	XNo	
If yes, explain:				
	ded to Lowest	X Yes	No	
Responsible Bidder	?			
If no, explain: Pure	chase from manufact	urer's authorized o	distributor.	
FISCAL IMPACT:				
	/budget estimate \$5	5500.000.00		
Amount of Award	The second secon	12.5.5/0.00.00		
BACKGROUND/R	RECOMMENDATIO	ON:		
Award a contract for	or water meter replac	emtne and AMI So	oftware and acc	essories, in the
amount not to excee	ed \$3,742,552.25 to W	ater Resources, Inc	c. of, Elgin, IL.	
Has Recommended	Bidder Worked for	Village Previously	X Yes	_No
If yes, was quality of	of work acceptable		_X Yes	No
	ordance with Public	Act 85-1295?	X Yes	No
Waiver of bids - Pu	blic Act 85-1295 does	not apply	Yes	
REVIEW (as needed	i):			
	<u></u>		Date	
Finance Director XX	<		Date	
	<u> </u>		Date	

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 4:30 pm, Wednesday, prior to the Board Agenda distribution.



MEMORANDUM

To:

Scott Niehaus, Village Manager

Through:

Carl S. Goldsmith, Director of Public Works

From:

Brian Jack, Utilities Superintenden

Date:

August 8, 2017

Subject:

FY 2017 Water Meter Replacement Project PWU-17-15

BACKGROUND

Accounting of water consumption through the Village water meter network is a crucial function for revenue collection and proper accounting of water consumption for state regulatory agencies. The Public Works Department presented a plan to the Public Works Committee to initiate a water meter change out project for the commercial meters in 2011 to begin the replacement of the circa 1980's meters and touch pad reading technology to new meters and an advanced AMI (Automated Metering Infrastructure) for water accounting. At that time the Village studied that the larger users (commercial accounts) were to be replaced first as the Village would benefit from a higher revenue capture.

Staff developed the process for specifying the AMI Project, and provided a detailed analysis of the entire meter network. The AMI infrastructure (backbone) of the system was installed in 2011, replacement of the commercial and multi-family meters, and to monitor the performance/accuracy of the remainder of the residential water meters to determine the break point to initiate the change out of those meters.

In 2010 staff met with several vendors of AMI systems and determined that Sensus Flexnet was the best option for the Village and incorporated that system into the Village's water meter network. As the system and meters were installed, the issues arose with the system and the vendor regarding read rates, technological support, and software reporting options and functionality not available to the Village that were assumed advertised to be included in the initial project scope.

The vendor and supplier of the Sensus Flexnet System, HD Supply of Carol Stream, IL, struggled to meet the requests for support from the Village due to their limited staff and resources forcing the Village to "manage" within the system and not take full advantage of the software capabilities without added costs. The Village endeavored to

work with the vendor to correct these issues and some success was had. However, the vendor approached the Village in 2015 with a new software package, Sensus Logic, that would be a required upgrade for the current system due to support being phased out of the current Flexnet system. This upgrade was above and beyond the annual support and was an unanticipated cost to the Village of approximately \$85,000 in which staff prepared for this upgrade in the FY 2016 budget.

As the residential water meters reached the break point in loss of accuracy, the Public Works and Finance Departments began researching all avenues for AMI systems including other vendors of water meters and AMI systems. During this process, Sensus presented to the Village another software system, Sensus Analytics, they were developing and that the Sensus Logic system was not going to be supported in 2016 and the Village would have to upgrade to the Sensus Analytic software system at an additional cost similar to the Sensus Logic system.

Staff also researched other AMI Systems including Neptune and Badger Metering Systems. Both offered the same type of AMI system, with Neptune using a fixed base radio read system and Badger using a cellular and hybrid radio and cellular system. A pilot program for the Neptune system was installed in 2016 to study the capabilities of that system as well as multiple trips and discussions to other municipalities with the Neptune AMI system already in place. Representatives from Public Works and Finance reviewed the capabilities and real life experience from the other municipalities and received glowing reviews. Staff reviewed the Badger system, but determined that the cellular reading technology and higher cost would not fit what the Village is looking for.

The Village sought out an Illinois EPA revolving loan to fund the water meter replacement project. Part of the stipulation of the loan was that the bidding process would have to be an open bid. The Village solicited a full water meter replacement project to include new residential meters, potential new AMI software, and water meter reading infrastructure.

Six (6) qualified bids were received and included the top three (3) meter manufactures in the country. The results are recorded below and enclosed in the bid tab:

Company	Meter Type	Bid
Water Resources, Inc.	Neptune	\$3,742,552.25
United Meters, Inc.	Sensus iPerl	\$4,386,122.00
Untied Meters, Inc.	Sensus SRII	\$4,270,468.00
United Meters, Inc.	Sensus accuSTREAM	\$3,956,785.00
Calumet City Plumbing	Badger Hybrid	\$5,199,995.00
Calumet City Plumbing	Badger Cellular	\$5,764,890.00

The Budget estimate for this project is \$5,500,000.00 in the Capital Improvement Plan with the low bid of \$3,742,552.25 and under budget estimate by \$1,757,447.75 lessoning the loan repayment burden.

Staff has diligently researched every avenue of AMI systems including the current vendor and SEMSUS AMI System and has come to the conclusion that the Neptune AMI system would most benefit the Village. The shortcomings of the current vendor, inconsistent support and software upgrades have tarnished the reliability and reliance with the current vendor HD Supply and AMI provider Sensus. Neptune Technology Group and vendor Water Resources Inc. has provided excellent attentiveness and support over the pilot program and staff research. Both the Public Works and Finance Departments are in full support in partnering with Neptune and Water Resources to provide an excellent AMI system that will be lower in cost to install, maintain, and upgrade to meet the ever changing technology environment with no surprise costs.

RECOMMENDATION

Based on the research and analysis of the top AMI Systems and favorable bid results, staff recommends that the Village Board of Trustees award a contract for the FY 2017 Water Meter Replacement Project to Water resources Inc., in the amount not to exceed \$3,742,552.25 for as the lowest responsible and responsive bidder.

NAME & Morris, IL 60540 Morris, IL 60540 Galu ADDRESS OF BIDDER CONTRACT QUANTITIES Ansus IPERL Sensus SRII & Omni Meters Unit Unit Unit Unit Unit Unit Unit Unit	UNIT	PRICE 93,000,00 299,00 18,00 321,00 18,00 340,00 17,702,00 182,00 182,00 45,00 45,00 45,00 45,00 45,00 45,00 45,00 45,00 45,00 45,00 45,00 FRICE	707AL	PRICE 9300 328.00 328.00 3402.00 872.00 1,702.00 182.00 45.00 45.00	TOTAL	PRICE 93.00.00 93.00.00 93.00.00 957.00 407.00 1,702.00 1	PRICE 1 920 9.217 920 458 17 6 9.217 PRICE 1 9.217 9.217 9.227 9.2	QUANTITY PRICE Lump Sum 1 Each 920 Each 458 Each 17 Each 500 Each 500 Each 500 Each 9217 Each 9217 QUANTITY PRICE Lump Sum 1 Each 9217 Each 9217 Each 9217 Each 9217 Each 9217 Each 17 Each 17 Each 17 Each 500	nced PTIONS	Advanced Metering Infrastructure System Remove and Replace Water Meter - 5/6* Remove and Replace Water Meter - 1/4* Remove and Replace Water Meter - 1 1/2* Remove and Replace Water Meter - 5/6* Remove and Replace Water Meter - 3/4* Remove and Replace Water Meter - 1 1/2*
NAME & Morris, IL 60540 Morris, IL 60540 Morris, IL 60540 Alternate #1 Alternate #2		Sensus accusTREAL	us SRIJ & Omni Meters	Sensi	ISUS IPERL			Not		
NAME & Morris, IL 60540 Morris, IL 60540 Morris, IL 60540	Ť	Alternat	Alternate #1	2			NANTITIES	CONTRACTO		OOCUMENT NAME: Water Meter Replacement
708 Core Pond		Morris, IL	Morris, IL 60540		1s, IL 60540	Mom			NAME &	DOCUMENT # PWU 17-15



Illinois Environmental Protection Agency

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Bidding Review Certification and Checklist for Construction Contracts

Loar	Appli	icant: <u>\</u>	Villa	ge of Lombard Loan No. 17-5486	
Proje	Project Description: Water Meter Replacement Project				
Yes	No	N/A	Do	ocumentation Required for Bid Approval	
•	0		1.	The Bid Advertisement was published in a daily, regional newspaper, Dodge Reports , or approved equivalent. The ad notified bidders that this procurement is subject to regulations contained in the Procedures for Issuing Loans from the WPCLP or the PWSLP , the Davis-Bacon Act, the Employment of IL Workers on Public Works Act, the President's Executive Order 11246, the Use of American Iron and Steel Requirements, and the Loan Applicant's policy on the increased use of DBEs. [Ref. 662.620(b)(1) or 365.620(b)(1)]	
•	0			 A. A copy of both the Newspaper Ad and the Certificate of Publication are attached <u>OR</u> A screenshot of the online ad is attached along with a payment receipt. 	
				B. Name of Newspaper or Equivalent: Daily Herald	
				C. Date of Publication: June 23, 2017	
				D. Date of Bid Opening: July 12, 2017 E. Bid Expiration Date: October 12, 2017	
•	0		2.	A copy of the Bid Tabulation is attached. [Ref. 662.620(b)(4)(A) or 365.620(b)(4)(A)] A. Number of bids received:6 B. Amount of lowest BASE bid:\$3,742,552.25	
				C. Amount of highest BASE bid: \$5,765,890.00	
•	0		3.	The Consultant's Analysis of Bids and Recommendation to Award is attached. [Ref. 662.620(b)(2)(C) or 365.620(b)(2)(C)]	
••	Q			A copy of the proposal (bid) signed by selected contractor is attached.	
•	0		5.	Applicant has prepared a Notice of Intent to Award and a copy is attached. [Ref. 662.620(b)(4)(A) or 365.620(b)(4)(A)]. The notice is dated: August 17, 2017	
				A. If any bid alternates (deductive or additive) were accepted, list and include costs.	
()	00	O	6.	B. Accepted Bid Alternates were approved by the Agency's Permit Section? The applicant received a minimum 5% Bid Bond or Cashier's Check from the selected contractor and a signed Power of Attorney (for bid bond only). [Ref. 662.620(a) or 365.620(a)] A copy is attached.	
•	0		7.	Selected contractor submitted the lowest, responsive, responsible bid.	
0	0	•		A. If not, is written justification disqualifying the apparent low bidder attached? [Ref. 662.620(b)(4)(A) or 365.620(b)(4)(C)].	
0	•			B. Has the selected contractor been debarred or suspended? Information may be verified at: www.sam.gov/portal/public/SAM	
0	\odot			C. Are there any appeals or protests? [Ref. 662.640 or to 365.640] If YES, alert the Illinois EPA.	
0	\odot		8.	Has the Illinois EPA issued a valid construction permit for this project?	
				A. If YES, provide the issue date and Permit No.	
				B. If NO, provide an explanation: Maintenance Project - No Permit Required	
•	0		9.	Bid quantities, major equipment, and suppliers are consistent with the Agency approved Plans & Specifications and/or Illinois EPA Construction Permit.	
0	0	•		A. If NO, has the Agency approved the changes? (Changes must be approved by the Permit Section). If not, provide an explanation.	

Yes	No	N/A		
•	0		10. Were any addenda issued during the bidd	ing period? [Ref. 662.620(b)(2)(C) or 365.620(b)(2)(C)]
⊙	00	00	A. Copies of all Addenda are attached. A	l addenda require Agency approval.
•			B. Addenda were distributed to all prosper	
0	0	\odot	C. The following addenda were previously	submitted & approved by Illinois EPA?
_	_		Addenda Numbers:	
0	0	•	D. The following addenda will be approve	d at the time of bid review?
$\overline{}$	\circ		Addenda Numbers:	
○	0	•		as issued due to addenda, a copy is attached. Collusion and Certification Statements (verbatim) 2)(G & H)] A copy is attached.
•	0		Bacon Wage Act language (verbatim) as o	bid proposal OR the contract documents must include the Davis- contained within the Illinois EPA's example documents. Wage the bid opening date and are available at www.wdol.gov . S PROPOSAL.
$\overset{\smile}{oldsymbol{\odot}}$	ŏ		B. Davis-Bacon language is in the CONT	
•	0		C. A copy of the applicable Wage Rate De	eterminations is attached.
•	0		13. The following certifications were received A. Certification of Nonsegregated Facilitie	from the selected contractor. s. [Ref. 662.620 or 365.620(d)(6)] Page No45
•	0		B. Certificate Regarding Bid Rigging and	Rotating (Criminal Code 33E)
•	0		[Ref. 662.620(b)(2)(G)(iii) or 365.620(b C. Certificate Regarding Debarment, Sus	pension, and other Responsibility Matters.
•	0			age No47 erican Iron and Steel Products (Consolidated Appropriations Act,
_	_		2014) on Page No. 62	
O	0		· · · · · · · · · · · · · · · · · · ·	have been met? [(40 CFR Part 33)] See attached Pages 3 thru 5 website and in the example contract documents.
•	0		 Contract time has been provided? The len This information is located on Page No. 	
0	0	•	16. Contractor's list of subcontractors submitti	ng quotes is attached. If no, provide an explanation.
•	0		17. For line item bids only: Has the Illinois EP	A EXCEL bid schedule been submitted to the Illinois EPA?
Proce	dures f	or Issuin		knowledge, true and accurate. I agree to fully comply with the State of Illinois' d/or the Procedures for Issuing Loans from Public Water Supply Loan Program. project in terms of quantity, description and eligibility.
Keith	1 T. G	iagnori	io	Village President
	Α	uthoriz	ed Representative's Printed Name	Title
		Author	rized Representative's Signature	Date
			Below this line for the state of the state o	Ilinois EPA Use Only
This	propo	sal is a	approved for award to	(insert contractor's name)
in the	allov	vable a	amount of \$	
			tes. Ineligible contract costs of \$	were removed.
All a	ddend	a (Item	ns 10 C & D) have been approved by IFAS and	Permits (if necessary). (PM Initial).
			PM's Signature	Date
			Supervisor's Concurrence	
				The state of the s



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Disadvantaged Business Enterprise Review Construction Contracts/Equipment with Labor Involved

Loar	n Appli	icant: \	Village of Lombard	Loan Number: 17- <u>5486</u>
Loa	n Ap	plica	nnt Responsibilities	
Yes	No	N/A	-	
•	0	0	newspaper for a minimum of one day. The advertigation to the large state of the second	acing an "advertisement for bids" in a daily, regional tisement must state, "this procurement is subject to the use of Disadvantaged Business Enterprises". See Item #1 of advertisement contained within the Illinois EPA's "Front End
			If an online advertisement was placed with the "I the advertisement along with the webpage addre	Oodge Reports" or an equivalent website, a screenshot of ss and a receipt must be attached.
•	0	0	Length of bidding period by Loan Applicant allow subcontractors. The recommended time is 45 da	s the potential prime contractor time to advertise for DBE ys and the minimum is generally 30 days.
			30 Days	
•	0	0	3. Loan Applicant held a Pre-bid meeting for potent	al bidders? A Pre-bid meeting is highly recommended.
			Date of Pre-Bid Meeting: June 26, 2017	
Bid	der/F	Prime	Contractor Responsibilities	
Resp	onsiv	eness	Determination	
The	followi	ng info	ormation must be submitted with the bid.	
Yes	No	N/A		
•	0	0	 Completed, signed certification from the bidd subagreements, including the procurement of ec performance of this contract. 	er(s), attesting that the bidder will award no uipment, materials, supplies, and services, in the
			<u>OR</u>	
•	0	0	certificate is not available other evidence/proof of be accepted. If an online advertisement was placed	isement from a daily, regional newspaper is attached. If f publication such as actual page from the newspaper MAY sed with the "Dodge Report" or an equivalent website, a rebpage address, and a receipt must be attached. All is prior to bid opening.
			A. Date of Bidder Advertisement: June 23, 2017	
			B. Date of Bid Opening: July 12, 2017	_
0	0	•	utilized attesting that they are a Disadvantaged	DBE Form #3 from each Disadvantaged Business to be Business. This form must be signed by the Prime Contractor, address, telephone number, a description of the work, e subcontract.
0	0	•		the Prime Contractor attesting that the prime contractor Disadvantaged Business Enterprise to be utilized. Illinois

EPA DBE Form #1 contains this phrase and may be used for this purpose.

Yes	No	N/A		
0	0	•		isadvantaged Businesses which submitted proposals, but will zation must be provided. Illinois EPA DBE Form #1 may be
•	0	0	prior to bid opening, the bidder(s) must prov	eive any inquiries or proposals from Disadvantaged Businesses ide a written certification attesting that no responses or Form #1 may be used to report this information.
0	0	•	will include names, addresses, e-mails, phor	BE subcontractors submitting proposals/quotes is attached. List ne numbers, DBE status, and what work the entity bid or quoted maintained during the project & made available upon request. report this information.
Resp	onsibi	lity De	termination	
Yes	No	N/A		
0	0	•	been selected to perform work with a Letter	onsible bidder) must provide DBE subcontractors that have of Intent signed by the Prime Contractor and the DBE cribe work that will be performed by the subcontractor and the
Com	ments			
best	of my	knowl		arding the use of Disadvantaged Business Enterprises is, to the forms and guidance documents may be obtained from the Illinoisce Section at 217-782-2027.
Keit	h T. Gi			Village President
	Αι	uthoriz	ed Representative's Printed Name	Title
		Autho	ized Representative's Signature	Date



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DBE Review - A/E Contracts for Construction Phase Services

Loar	n Appli	cant:	Village of Lombard	Loan Number: 17-5486
Con	sulta	nt Se	ervices' Affirmative Effort Requirements	
The	followi	ng info	formation must be completed and requested documentati	on must be submitted at the time bids are reviewed.
Yes	No	N/A		
•	0	0	 A signed certification from an authorized representation will award no subagreements, including the procure the performance of this contract. 	tive of the consulting firm attesting that the consultant ment of equipment, materials, supplies, and services, in
			<u>OR</u>	
0	0	•	"Certificate of Publication," and/or adequate evidence newspaper advertisement from a daily, regional new days prior to bid opening or award.	e of proof of publication including actual copy of the spaper. Advertisement should run one day at least 16
			If an online advertisement was placed with the "Dod advertisement along with the webpage address, and	ge Report" or an equivalent website, a screenshot of the a receipt must be attached.
0	0	•	3. Copies of executed agreements with Disadvantaged	Businesses to be utilized.
0	0	•	Names, addresses, telephone numbers of Disadvan be utilized. Justification for their non-utilization must	taged Businesses that submitted proposals, but will not be provided. (Illinois EPA DBE Form #2)
0	0	•	Completed, signed certification from each Disadvantaged Business as defined by the Recipier	
0	0	•	 Completed, signed certification from consultant(s) ut consultant has no dominating or conflict of interest v (Illinois EPA DBE Form #2) 	
0	0	•	 In instances where the consultant does not receive a Businesses prior to bid opening, the consultant mus responses or proposals were received. (Illinois EPA) 	t provide a written certification attesting that no
Com	ments	:		

NOTICE OF INTENT TO AWARD

То:	Water Resources, Inc.	
	390 Sadler Avenue	
	Elgin, IL 60120	
Projec	ct Description: Water Meter Replacement	Project
Th	ne OWNER has considered the BID submitted by yo	ou for the above described WORK, in response to its
	tisement for Bids, dated July 12, 2017 and Ir	•
	ou are hereby notified that your BID will be accepte y (IEPA) approval, for items in the amount of \$3,7	d, contingent upon Illinois Environmental Protection
CONT	ou will be required by the Information for Bidders to RACTOR'S Performance BOND, Payment BOND he date of the final Notice to be sent upon IEPA app	and certificates of insurance within ten (10) calendar days
Da	ated this day of	
		Village of Lombard
		OWNER
		Ву:
		Title: Village President