

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF)
WEST DAVIESS COUNTY WATER)
DISTRICT FOR COMMISSION)
APPROVAL PURSUANT TO 807 KAR)
5:001 AND KRS 278.020 FOR A) CASE NO. 2017-00459
CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO)
INSTALL AN ADVANCED METERING)
INFRASTRUCTURE (AMI) SYSTEM)

APPLICATION

Pursuant to KRS 278.020(1) and 807 KAR 5:001, Section 15, West Daviess County Water District (“West Daviess District”) applies to the Public Service Commission (“Commission”) for an Order granting West Daviess District a certificate of public convenience and necessity (“CPCN”) for the installation of an advanced metering infrastructure (“AMI”) system (the “AMI System Project”). No debt will be incurred. No rate increase will be necessary.

In support of its Application, West Daviess District provides the following:

General Information

1. West District's full name and post office address is: West Daviess County Water District, 3400 Bittel Road, Owensboro, Kentucky 42301. Its email address is whigdon@oolwireless.net.

2. West Daviess District is not a corporation, limited liability company, or limited partnership. It has no articles of incorporation or partnership agreements.

3. West Daviess District is a water district organized pursuant to KRS Chapter 74.

4. West Daviess District is engaged in the distribution and sale of water in Daviess County, Kentucky. As of December 31, 2016, it served approximately 5,100 customers (4,688 residential customers, 150 commercial customers, 163 multiple family dwellings, and 87 irrigation customers).¹ West Daviess District also provides small quantities of water for resale to the Beech Grove Water Association and to North McLean County Water District.²

5. West Daviess District and Southeast Daviess County Water District ("Southeast Daviess District") are commonly managed. While each district is governed by a separate Board of Commissioners and is a separate and distinct

¹ Annual Report of West Daviess County Water District to the Public Service Commission of the Commonwealth of Kentucky for the Calendar Year Ended December 31, 2016 ("2016 Annual Report") at Ref Page 27.

² *Id.* at Ref Page 30.

entity, the Districts have coordinated their efforts to procure and install AMI systems for their water systems to achieve cost efficiencies.

6. Copies of all orders, pleadings, and other communications related to this proceeding should be directed to:

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3400 Bittel Road
Owensboro, KY 42301
(270) 685-5594
whigdon@oolwireless.net

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Project Description

7. West Daviess District proposes to install a Sensus FlexNet Water AMI System. The System utilizes radio transmitters, which will be connected to West Daviess District's existing meters and which will transmit data to a Sensus-hosted server through antennas located on West Daviess District's existing water

tanks. The server stores 12 months of customer meter usage data and can be accessed by West Daviess District via the internet. All data will be encrypted using Advanced Encryption Standard (“AES”) 256-bit encryption algorithms to protect the customer data.

8. The AMI System Project will be installed throughout West Daviess District’s service territory in Daviess County.

9. The AMI System Project will be installed in two phases.

A. Phase 1 of the AMI System Project involves the purchase of radio transmitting devices for West Daviess District’s existing water meters and the purchase and installation of four (4) Base Station Data Collectors. Each data collector consists of electronic equipment housed in a cabinet located on a concrete pad near the base of a designated West Daviess District water storage tank, an antenna mounted on the tank, and a coaxial cable connecting the data collector to the antenna.

B. Phase 2 of the AMI System Project involves the barcoding of the radio transmitting devices and their installation on existing water meters. The water meters will then be able to communicate with the antennas that will be installed on existing water tanks as part of Phase 1. The relatively flat terrain of West Daviess District’s service area is ideally suited to the installation of an AMI system. A map depicting the location of the proposed facilities that will be

installed as part of the AMI System Project is attached as **Exhibit 1** to this Application.

C. The work will be performed in sequence. Phase 1 must be completed before Phase 2 can commence. The Phase 1 portion of the Project should be substantially completed and placed into service by August 30, 2018. The Phase 2 portion of the Project will then commence and should be substantially completed and placed into service on or before December 6, 2019. The project timeline is attached as **Exhibit 2** to this Application.

Benefits of AMI System Project

10. The proposed AMI System Project will achieve several operational efficiencies as well as provide additional benefits to West Daviess District customers.

11. The proposed AMI System Project will reduce personnel costs and enable West Daviess District to deploy its existing employees to more productive and necessary tasks.

A. Currently, it requires two (2) employees (each of whom uses a truck) more than three (3) weeks to read the approximately 12,350 meters contained in the Southeast and West Daviess Districts.³ If the AMI System is not installed, an additional meter reader will probably need to be hired and another

³ Southeast Daviess District serves approximately 7,250 customers and West Daviess District serves approximately 5,100 customers. Annual Report of Southeast Daviess County Water District to the Public Service Commission of the Commonwealth of Kentucky for the Calendar Year Ended December 31, 2016 at Ref Page 27.

truck purchased so the meters can be timely read. Installation of the proposed AMI System will eliminate the need to hire an additional employee and purchase an additional vehicle.

B. One of the existing meter readers plans to retire within the next 12 to 18 months. If the AMI System is installed, this employee will not be replaced. The remaining meter reader will be assigned to perform system maintenance and other duties, including locating leaks and other sources of water loss, within the distribution system.

12. In addition to personnel cost savings, the AMI System Project will achieve other substantial benefits and operational efficiencies.

A. As the AMI System Project will eliminate the need for West Daviess District employees to manually read each water meter, fewer motor vehicles will be needed. West Daviess District can thus reduce the size of its vehicle fleet and its operational and maintenance costs.

B. The AMI System Project will create a safer work environment for employees by eliminating meter reading visits to areas with fenced yards or fields, encounters with dogs or other animals, and hazardous landscaping. It also eliminates the risks to District meter reading employees associated with their constant travel on rural roads and the frequent need to park on the shoulder of narrow county roads and exit and re-enter their vehicles in the face of traffic to

obtain meter readings. Additionally, during planting and harvest seasons, the employee must pull off the road to avoid wide planters, combines, and other large, over-width farm equipment.

C. The use of an AMI system will eliminate the need to issue estimated bills. Currently, if a meter cannot be timely read due to inclement weather, such as snow, ice, or freezing rain, or the inaccessibility of the meter, West Daviess District will issue an estimated monthly bill. Once installed, the AMI System will enable West Daviess District to read the meters regardless of weather or other obstacles.

D. The AMI System Project will eliminate human errors associated with the current meter reading system.

E. The AMI System Project will allow all meters to be read on the same day (probably within the same hour or less). This will enhance water loss audits and avoid the lag time between reading the master meters on one day and the customer meters over a 24-day period.

F. The AMI System Project will reduce non-revenue water by enabling the District to quickly identify water leaks, meter tampering, and theft of service. Furthermore, West Daviess District will be able to utilize its existing meter readers to help identify leaks to decrease its already low line loss percentage.

G. The AMI System Project will allow West Daviess District to provide enhanced customer service by alerting the utility if a customer exceeds a threshold water usage set by the utility and allowing West Daviess District to respond to customer issues with near-real-time water usage data. The AMI System Project will provide a significant amount of customer usage data by the hour, day, and week, which will be useful to customers and the utility.

13. The proposed installation of the AMI System Project will not compete with the facilities of another public utility, corporation, or person.

14. The proposed installation of the AMI System Project will not result in the wasteful duplication of utility facilities or inefficient investment.

15. For the foregoing reasons, public convenience and necessity require the installation of the proposed AMI System Project.

No Permits or Other Regulatory Approvals Required

16. West Daviess District is not aware of any franchises, permits, or regulatory approvals required for the proposed installation of the AMI System Project.

17. The AMI System Project does not require DOW approval.

18. The AMI System Project does not require the acquisition of any parcels of land or easements. All equipment will be installed on existing West Daviess District property.

Project Costs and Related Matters

19. The plans and specifications for the proposed AMI System Project are set forth as **Exhibits 3** and **4** to this Application. The plans and specifications are divided into two documents, Phase 1 and Phase 2. The plans and specifications were not prepared by an engineer. Therefore, neither KRS 322.340 nor 807 KAR 5:001, Section 4(13), requires that an engineer's seal or signature be affixed to those documents.

20. The total estimated cost of the proposed AMI System Project is \$961,467. The Project Cost Summary is attached as **Exhibit 5** to this Application. The total estimated cost of the AMI System Project incorporates the actual bids received. West Daviess District proposes to pay the cost of the proposed installation by using a portion of its unrestricted cash reserves.

21. West Daviess District has caused public advertising to be made according to law soliciting competitive bids for the furnishing and installation of the equipment for both Phase 1 and Phase 2 of the Project. It received, opened, and reviewed the bids on December 6, 2017. It received certified bid tabulations prepared by the Project Engineer, James R. Riney of HRG, PLLC. In addition, it received a recommendation of award letter prepared by the Project Engineer for each contract. The certified bid tabulations are attached as **Exhibit 6** to this

Application and the recommendation of award letters are attached as **Exhibits 7** and **8** to this Application.

22. Bids for Phase 1 and Phase 2 were accepted by resolutions adopted by West Daviess District on December 19, 2017. West Daviess District awarded the contracts contingent upon the Commission granting it a CPCN to purchase and install the proposed facilities. The resolutions accepting the Phase 1 and Phase 2 bids are attached as **Exhibit 9** and **10**.

23. The bids have a **90-day** hold period and will expire on March 6, 2018 unless West Daviess District issues a Notice of Award to each contractor before that date. Accordingly, West Daviess District requests an Order from the Commission no later than Friday, **March 2, 2018**.

24. The Commission has previously reviewed the use of AMI systems by water utilities subject to its jurisdiction and found the installation of such systems will likely improve the quality of service provided to customers.⁴ Non-jurisdictional water utilities in Kentucky have also found the use of AMI systems to be cost-effective and beneficial to their customers.⁵

25. The annual cost of operation of the proposed AMI System Project is approximately \$8,063 per year. However, West Daviess District will also achieve

⁴ See, e.g., *Application of Graves County Water District for Approval of Construction and Issuance of a Certificate of Convenience and Necessity for the Purchase and Installation of Automated Meter Reading Equipment*, Case No. 2011-00233, Order (Ky. PSC Nov. 3, 2011).

⁵ See, e.g., Advocate-Messenger, High Tech Water Meters Coming to Danville (Dec. 15, 2017), available at <http://www.amnews.com/2017/12/15/high-tech-water-meters-coming-to-danville/> (last viewed Dec. 20, 2017).

significant annual savings by avoiding the hiring of an additional employee and the mileage and vehicle maintenance expense of traveling to each meter in its system. A statement of the annual cost of operation of the AMI System Project is set forth at **Exhibit 11**.

26. West Daviess District will not incur any new debt as a result of the AMI System Project.

27. There will be no rate increase associated with the AMI System Project.

WHEREFORE, West Daviess County Water District requests that the Commission:

1. Grant West Daviess District a Certificate of Public Convenience and Necessity to install the proposed AMI System Project;

2. Enter an Order granting the requested relief without holding an evidentiary hearing in this matter and no later than **March 2, 2018**; and,

3. Grant any and all such other relief to which West Daviess District may be entitled.

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Dated: December 22, 2017

Respectfully submitted,



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*Counsel for West Daviess County Water
District*

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that West Daviess County Water District's December 22, 2017 electronic filing of this Application is a true and accurate copy of the same document being filed in paper medium; that the electronic filing has been transmitted to the Commission on December 22, 2017; that there are currently no parties that the Commission has excused from participation by electronic means in this proceeding; and that an original paper medium and six copies of this Application will be delivered to the Commission on or before December 28, 2017.


Damon R. Talley

FILING REQUIREMENTS

FILING REQUIREMENTS FOR AN APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Source Authority	Requirement	Location
807 KAR 5:001, § 14(1)	Applicant's name, mailing address and e-mail address	Page 2, Para 1
807 KAR 5:001, § 14(1)	Statutory Reference – KRS 278.020	Page 1
807 KAR 5:001, § 4(3)	Signature of Applicant's Attorney	Page 12
807 KAR 5:001, § 4(3)	Name, Address, Telephone Number, Fax Number, and e-mail address of Applicant's Attorney	Page 3, Para 6
807 KAR 5:001, § 14(2)	If Applicant is corporation: State and date of incorporation, attestation of good standing in state of incorporation, statement regarding authorization to transact business in Kentucky	Page 1, Para 2 Not Applicable
807 KAR 5:001, § 14(3)	If Applicant is a limited liability company: State and date of organization, attestation of good standing in state of incorporation, statement regarding authorization to transact business in Kentucky	Page 1, Para 2 Not Applicable
807 KAR 5:001, § 14(4)	If the Applicant is a limited partnership: a certified copy of limited partnership agreement and all amendments or statement identifying prior Commission proceedings in which limited partnership agreement and all amendments filed	Page 1, Para 2 Not Applicable
807 KAR 5:001, § 15(2)(a)	The facts relied upon to show that the public convenience and necessity requires the proposed construction	Page 5-8, Para 10-15
807 KAR 5:001, § 15(2)(b)	Copies of franchises or permits for the proposed construction or extension	Page 8, Para 16-18 Not Applicable
807 KAR 5:001, § 15(2)(c)	A full description of the proposed location, route, or routes of the proposed construction or extension, including a description of the manner in which same will be constructed, and the names of all public utilities, corporations, or persons with whom the proposed construction or extension is likely to compete	Page 3-5, Para 7-9 Page 4, Para 8 Page 8, Para 13
807 KAR 5:001, § 15(2)(d)(1)	Maps to suitable scale showing the location or route of the proposed construction or extension, as well as the location to scale of like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of the other facilities	Page 4-5, Para 9A&B Exhibit 1

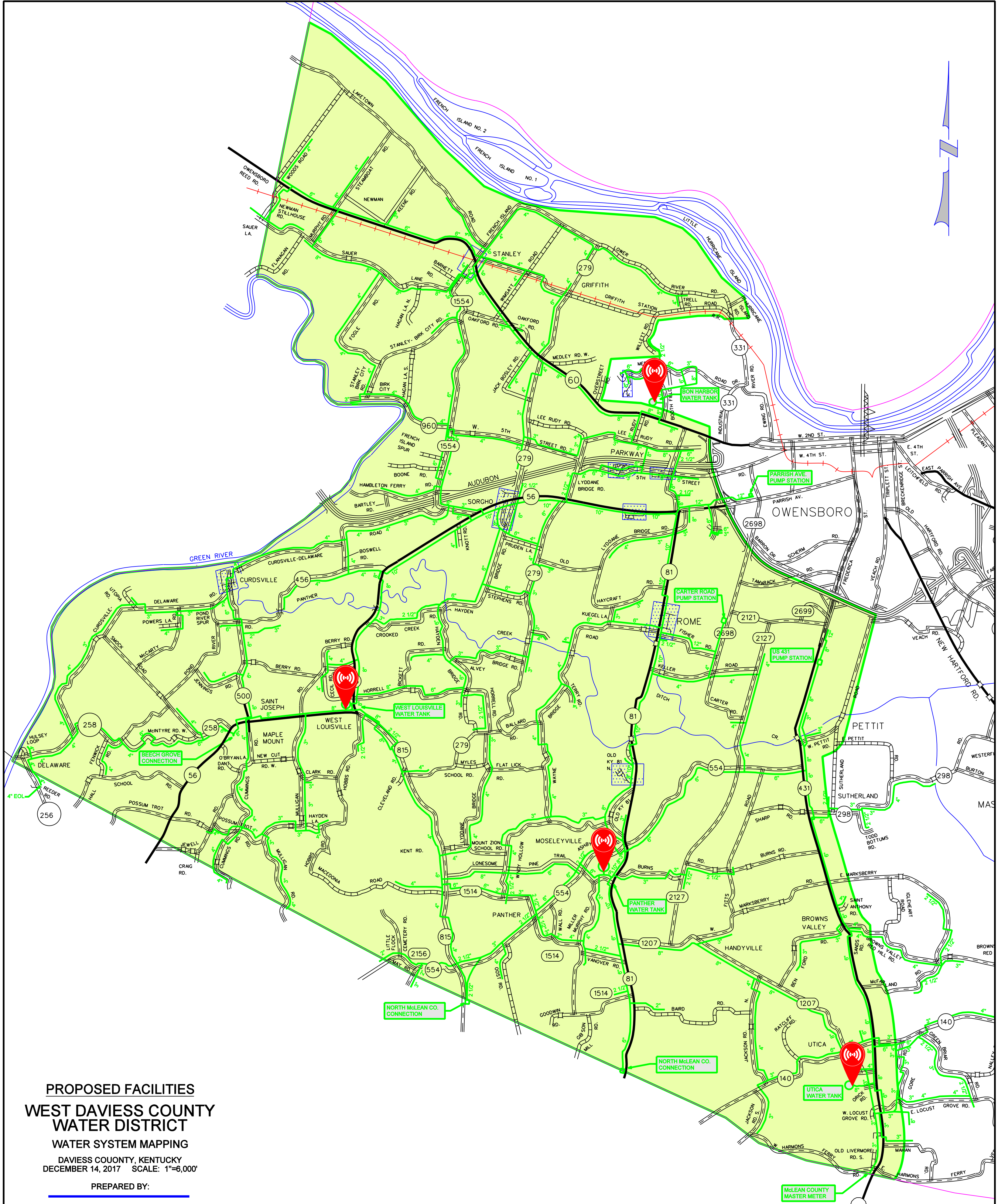
Source Authority	Requirement	Location
807 KAR 5:001, § 15(2)(d)(2)	Plans and specifications and drawings of the proposed plant, equipment, and facilities	Page 9, Para 19 Exhibits 3 & 4
807 KAR 5:001, § 15(2)(e)	The manner in detail in which the Applicant proposes to finance the proposed construction or extension.	Page 9, Para 20
807 KAR 5:001, § 15(2)(f)	An estimated annual cost of operation after the proposed facilities are placed into service	Page 10-11, Para 25 Exhibit 11
KRS 322.340	Engineering plans, specifications, drawings, plats and reports for the proposed construction or extension prepared by a registered engineer, must be signed, sealed, and dated by an engineer registered in Kentucky	Page 9, Para 19 Not Applicable

EXHIBITS

EXHIBIT LIST

1. Map
2. Project Timeline
3. Phase 1 Plans and Specifications
4. Phase 2 Plans and Specifications
5. Project Cost Summary
6. Certified Bid Tabulations
7. Phase 1 Recommendation of Award Letter
8. Phase 2 Recommendation of Award Letter
9. Resolution Accepting Phase 1 Best Bid
10. Resolution Accepting Phase 2 Best Bid
11. Annual Cost of Operation

EXHIBIT 1



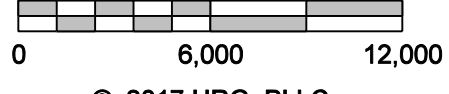
PROPOSED FACILITIES
WEST DAVIESS COUNTY
WATER DISTRICT
WATER SYSTEM MAPPING
 DAVIESS COUNTY, KENTUCKY
 DECEMBER 14, 2017 SCALE: 1"=6,000'

PREPARED BY:



510 WEST SECOND STREET
 OWENSBORO, KENTUCKY
 (270) 683-7558 FAX (270) 683-9277

GRAPHIC SCALE



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EXHIBIT 2

PROJECT TIMELINE

AMI SYSTEM PROJECT

West Daviess County Water District

Date	Event
11-17-17	Final Contract Documents and Plans & Specs Delivered
11-22-17	Advertisement for Bids
12-06-17	Bid Opening
12-07-17	Bid Tabs Prepared
12-07-17	Engineer's Recommendation of Award Letter Delivered
12-19-17	West Daviess Co. WD Board of Commissioners Makes Contingent Award of Contracts
12-22-17	Applications for CPCN Filed with PSC
03-02-18	Deadline for PSC to Issue Order Granting CPCN
03-05-18	Notices of Awards Issued
08-30-18	Phase 1 Contract Substantially Completed
12-06-19	Phase 1 Contract Substantially Completed

EXHIBIT 3

Instructions
&
Specifications
For an
Automated Meter
Reading System & Radio Transmitting Devices

West Daviess County Water District
Owensboro, Kentucky

Open Date: December 6, 2017, 2:00 p.m. (Local)

William Higdon/General Manager
270-685-5594

PROJECT SCOPE

West Daviess County Water District currently has over 5,100 water meters serving customers in Daviess County, Kentucky. The District's current system uses Sensus AMR water meters and endpoints. This project will consist of the purchase of radio transmitting devices to connect the existing water meters to an AMI system over a period of time. The proposed system must be compatible with the existing Sensus meters and utilize the existing Sensus 520M radio transmitters.

Bidder's Initials _____

INFORMATION TO BIDDERS

I. ACCEPTANCE OF BIDS

1. West Daviess County Water District (the District) reserves the right to accept the best evaluated bid as determined by the Daviess County Water District's Board of Commissioners. The District reserves the right to waive any informalities or minor defects in a bid or to reject any or all bids. The award of bids is contingent upon the Public Service Commission granting the District a Certificate of Public Convenience and Necessity for the proposed project.
2. **No bidder may withdraw its bid for a period of ninety (90) days after the date set for the bid opening. The District anticipates issuing the Notice of Award no later than 90 days from the date set for the bid opening.**

II. SUBMITTING BIDS

1. The bid must be received by the District at 3400 Bittel Rd, Owensboro, Kentucky on December 6, 2017 by 2:00 p.m. local time. Any bid received after the specified time shall be disqualified.
2. Each bid must be in a sealed envelope and have typed on the envelope, SEALED BID, with the opening date and time. The District assumes no responsibility for the premature opening of or failure to open bids not properly addressed or identified.
3. An authorized representative of the bidder may withdraw its bid at any time prior to the opening time of the bid, but no bid may be withdrawn after the opening process has begun.
4. The District will not be responsible for errors or omissions on the part of bidders in making up their bids. All bids must be signed by an authorized representative and any bid received unsigned will be rejected.
5. All bids must be submitted in accordance with the specifications listed. The bidder must note any exceptions to the specifications on its Bid Form, otherwise it will be assumed that the bidder meets the specifications listed.
6. The vendor's Bid Form shall be in a spreadsheet format. Each radio transmitting device or other hardware shall be listed separately. A sample format is located in Appendix A.
7. Bids must be completed in ink or type written. Failure to do so will result in the rejection of the bid.

Bidder's Initials _____

8. Because this packet contains the terms, conditions, and specifications for the bid, the entire packet must be returned. **An authorized agent of the bidder must initial at the bottom of each page acknowledging that they have read the entire page.**
9. All prices quoted shall be on a delivery prepaid basis to the District's Office located at 3400 Bittel Road, Owensboro, KY 42301.
10. Bidders are invited to attend the public bid opening, and to review the complete bid files after the bids have been opened. The District will also prepare and mail a bid tabulation showing all vendors' pricing.
11. If a bidder is not bidding on a particular item or items, that fact must be clearly stated.
12. Do not add or include Kentucky sales or use tax. The District will furnish the necessary exemption certificate, upon request.
13. The District shall make payment within forty-five days after delivery of materials.

III. ADDENDA TO SPECIFICATIONS

The District reserves the right to issue addenda for the purpose of modifying the documents referred herein at any time prior to the day and time set for the opening.

IV. QUALIFICATIONS OF BIDDERS

The bidder may be required, before the award of the bid, to show to the complete satisfaction of the District that it has the necessary resources, facilities, and ability to provide the services and products specified. The bidder may also be required to give a past history and references in order to satisfy the District in regard to the bidder's qualifications. Should the bidder be deemed unsatisfactory, the bid will be rejected.

Bidder's Initials _____

SPECIAL INSTRUCTIONS

I. INSTRUCTIONS

1. The bidder in calculating the unit price must deduct trade and quantity discounts. The unit price on each bid item must be net of any discounts.
2. Any quantities shown in the bid schedule are approximate and believed to represent the needs of the District to complete the project as described. The District makes no guarantee of said quantities and reserves the right to purchase quantities less than specified if in the best interest of the District.
3. All products delivered by the bidder must be new and cannot be "second" quality or a "factory reject." The District will not accept any products previously delivered to another customer and returned to the vendor for any reason.
4. Delivery shall be made to the District within forty-five (45) days after the order has been placed. If the vendor does not make delivery within the specified forty-five (45) days, the District reserves the right to cancel the order and purchase the items from another bidder.
5. The District will pay the invoice within forty-five (45) days from the date of the invoice.
6. Provide required attachments as listed in Appendix B

II. TERM OF BID

The term of this bid shall be for a period of two (2) years, from December 6, 2017 to December 6, 2019, unless terminated, canceled or extended.

Bidder's Initials _____

BID EVALUATION PROCESS

I. All bids received from vendors will be reviewed and evaluated by the District Board of Commissioners and Staff. The following criteria will be used in making the selection:

Criteria	Weighting
Costs, including future costs	20 points maximum
Radio Transmitting Devices	25 points maximum
System and equipment capabilities, including compatibility with existing meters and software	25 points maximum
Ability to provide local technical and service support	20 points maximum
System expandability/long range considerations	10 points maximum

- II. The successful vendor shall demonstrate its ability to deliver a metering system that adheres to the requirements outlined herein, support the system on an ongoing and timely basis, and provide references as to where such systems have been successfully installed and are currently in operation. Specific requirements of the metering system are detailed in this RFB, but may not be all inclusive.
- III. A short list of bidders may be determined by the District and bidders may be asked to provide a demonstration of their respective systems to District officials. The focus of such a demonstration, if requested, shall demonstrate how well the proposed system will meet the District's requirements and needs.
- IV. The short listed vendors may be required to give District staff a site visit to the nearest location utilizing the proposed system.
- V. Each bidder shall be required to demonstrate that its system is compatible with existing District water meters. In the event that the system proposed by the bidder is not presently compatible with the present meters and system used by the District, the bidder shall detail the conversions necessary to achieve compatibility and the costs associated with the conversion.

Bidder's Initials _____

METER AND SOFTWARE SPECIFICATIONS

- I. Compatibility — The proposed technology for reading the meters must be compatible with the District's current billing system, Alliance Utility Management by United Systems.
- II. Bidder must state the cost of annual maintenance agreements on the software and hardware. Bidder must maintain its quoted price for a minimum of two (2) years.
- III. Environmental Conditions — Radio Transmitting Devices must be able to consistently meet all of the performance expectations of this contract under various environmental conditions.
- IV. Quality Assurance — A copy of ISO 9001 registration shall be submitted with the bid proposal.
- V. Product Guarantee
 1. Coverage — The product guarantee shall apply to all meters, 5/8" through 10", registers, encoders, Automated Meter Infrastructure (AMI) endpoint transmission devices, software, and hardware reading and related equipment purchased by the District under this contract.
 2. All Radio Transmitting Devices shall be guaranteed to meet all of the requirements stated, including material and workmanship, for twenty (20) years when matched with a meter of the same manufacturer and installed in accordance with the manufacturer's instructions.
- VI. Manufacturer — Manufacturers shall have a minimum of five (5) years of field and production experience with the encoder registers and AMI systems of all sizes in compliance with the latest edition of AWWA 0707. Manufacturers shall have a minimum of five (5) years of field and production experience with AMI Radio Transmission Devices (endpoints). The proposed AMI system must have a previously proven record of five (5) years successfully installed in the field.
- VII. Repair and replacement parts must be immediately available for all transmitter (endpoint) devices under this contract. The contractor is to furnish a copy of its catalog for replacement parts for repairs upon award of this contract.

Bidder's Initials _____

VIII. Meter Radio Transmission Device (Endpoint Device)

1. Meter endpoint devices shall provide two-way communication for data collection, alarms, and demand reads.
2. The manufacturer will guarantee that the reading obtained electronically matches the odometer reading on the register.
3. The meter endpoint device housing shall be provided with a removable sticker with the transmitting device unique identification number and a corresponding bar code that represents the transmitting device unique identification number.
4. The vendor shall list all capable alerts and performance data that can be obtained for the meter or endpoint that is specified.
5. The vendor will specify the maximum reading distances for each endpoint specified.
6. The radio transmitters shall utilize a primary licensed FCC frequency. No unlicensed radio transmitters will be accepted.
7. The proposed system shall not require any field wiring connection to support the use of existing Sensus water meters.

Bidder's Initials _____

AMI SOLUTION

I. AMI SCOPE OF WORK

1. The AMI Fixed Base solution must be capable of meeting the data collection needs of the District now and in the future for a specified area. The scope of work involves, but is not limited to, providing and installing an AMI Fixed Base System which supports software, hardware, and all necessary training and installation support. The AMI Fixed Base System shall collect meter data and alarms from the utility meter base and transmit the data wirelessly "over-the-air" to one or more base station data collection points. The AMI Fixed Base System should be compatible with Sensus water meters and radios to prevent additional cost.

II. FIXED BASE SYSTEM OVERVIEW

1. The Fixed Base AMI System must provide two-way communication from the Host Software/Computer to strategically located base stations and also have the ability to communicate down to the installed endpoint. The two-way communication should allow for time synchronization (+/- 1 Minute of NIST) and firmware upgrade and programming options to the base stations and also the endpoints. These applications must be performed "over-the-air" and without the need to visit a location. The communication from the base station to the endpoint must utilize a primary licensed FCC Narrow Band two-way frequency. The System must be capable of migration from mobile to fixed base AMI and shall allow data collection (manual, mobile RF, and/or fixed base) to operate together seamlessly in a mixed system that utilizes the same technology with a common interface to the District's CIS. The System shall provide a secondary means of reading meters equipped via a vehicle or handheld device equipped with an RF transceiver. The system shall be able to utilize the existing meter reading software to integrate all forms of meter reading into a singular billing file. The proposed AMI system shall not include more than 6 data collection units and the proposer shall include a propagation study detailing location and meter coverage for the system's installed meter base.
2. The Fixed Base AMI System must be designed to provide coverage for all meters located within the specific utility territory to collect data. The Fixed Base System must have the ability to support conservation initiatives, off cycle reads, customer leak detection alerts, reverse flow, and distribution line leak detection. During the programming initialization, the system should provide the ability to identify successful transmission and allow the installer the ability to verify transmission success while at the installation site. The data collection devices should incorporate a store-and-forward redundancy feature and should transmit the data to the back end of the system immediately upon receipt.

Bidder's Initials _____

3. The Fixed Base Host Software shall be secure and provide numerous applications and feature sets to support various departments such as customer service, billing, operations, meter reading, revenue protection, and others. The software should allow for configurable reports using the data collected. The software should provide pull down easy application screens for the end user to manage the system. Specific reports should be automated to inform the end user when alarm conditions occur or insufficient data has been collected from specific accounts or regions. The software should also provide customizable usage graphs for applications that can be set to report daily, weekly, monthly, and hourly data. The system will also provide the ability to incorporate mapping capabilities for proactive maintenance and analyzing purposes.

III. AMI SOFTWARE

1. The Host Software shall be secure and provide all the control needed in the network and provide for the essential functions of network management, meter communications, reporting, database configuration, and alarms monitoring. It shall comply with prevailing industry standards and should run on a Windows-compatible computer. The Host Software must be able to interface with handheld and mobile meter reading software to enable a mixed meter reading approach that utilizes the same technology. The Host Software must interface to the District's CIS/billing software. The meter reading data communicated to the CIS system shall be provided in an ASCII flat file format. The server hardware must be provided by the vendor for installation at the host site or the vendor may use a hosted/cloud approach for software and data management. If computer hardware is required, it is the responsibility of the vendor to include those costs in their bid proposal.
2. The Host Software must provide the ability to maneuver data to various reports and also to compatible software applications. The system should provide the ability to verify the percentage of reads received for particular areas or selected meter routes. This data should then be exposed to various configurable parameters set, such as high/low parameters to assure the accuracy of the data. Once this review has taken place, the data should then be grouped for exporting purposes to the District's CIS/billing software. The host software must also have the ability to group rate information and both import and export that data to a handheld meter reading or programming device.
3. The Host Software should provide "industry standard" reporting, functionality, and security. The vendor should include a detailed list of the features and reports for the District to review. Samples of reports may be requested during the evaluation process.

Bidder's Initials _____

BASESTATIONS

1. The Tower Gateway Base Station (TGB) must demonstrate the capability to collect data wirelessly from the Meter Transceiver and communicate back to the Fixed Base Host Software.
2. The TGB must support two-way communications over an FCC primary licensed frequency with the Meter Transceiver and provide such functionality as priority alarms and over-the-air updates.
3. The TGB must be flexible with regards to installation options.
4. The TGB must be AC powered.
5. The TGB must provide memory back-up (30 days).
6. The TGB must be able to support and process up to 40,000 endpoints.
7. The TGB must have a battery backup capable of maintaining eight hours of support.

IV. SOFTWARE SUPPORT AND TRAINING FOR THE AMI SYSTEM

1. The vendor will provide a complete set of installation and operating instructions for all the components of the fixed base system. Onsite training by authorized vendor personnel or their representatives must be provided. The vendor must also arrange a pre-deployment meeting to identify the critical path items for installation and training needs.
2. The vendor shall clearly state any annual cost associated with the software maintenance or support.
3. The vendor shall be required to state its warranty and guarantee policy with respect to each item of proposed AMI equipment. The procedure for submitting warranty claims must also be provided.

V. ADDITIONAL INFORMATION

1. If the vendor requires information for conducting a propagation study, GPS locations of meters, available tank site information, and other pertinent information will be available via a secured Dropbox connection. The information provided is confidential in nature and is to be used for this project only.

Bidder's Initials _____

APPENDIX A – BID FORM EXAMPLE

WEST DAVIESS COUNTY WATER DISTRICT

RADIO TRANSMITTING DEVICES
&
AUTOMATED METER READING SYSTEM

ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
1	Radio Transmitter (Single Port)	5,250		
2	Radio Transmitter (Dual Port)	1		
3	Base Station Collection Device	4		
4	Hosted Server Setup Fee			
5	MDM Software Setup Fee			
6	MDM File Integration Fee			
7	Annual RNI SaaS Fee			
8	Annual Analytics Software Fee			
9	Project Management Fee			
10	Training Fee			

APPENDIX A - BID FORM EXAMPLE (CONTINUED)

ITEM NUMBER	DESCRIPTION	ADDITIONAL INFORMATION
1	Radio Transmitter (Single Port)	
2	Radio Transmitter (Dual Port)	
3	Base Station Collection Device	
4	Hosted Server Setup Fee	
5	MDM Software Setup Fee	
6	MDM File Integration Fee	
7	Annual RNI SaaS Fee	
8	Annual Analytics Software Fee	
9	Project Management Fee	
10	Training Fee	

APPENDIX B – REQUIRED BIDDER INFORMATION

1. References (Item II, Page 5)
2. Demonstrate Compatibility (Item V, Page 5)
3. ISO9001 Registration (Item IV, Page 6)
4. List capable alert and performance data (Item VIII, #4, Page 7)
5. Propagation Study (Item II, #1, Page 8)
6. Warranty/Guarantee Policy (Item IV, #3, Page 10)

Authorized Agent: _____

Company: _____

Contact Information: _____

EXHIBIT 4

Instructions for Bidding the Installation
&
Bar Coding of Approximately 5,100
Reading System & Radio Transmitting Devices

West Daviess County Water District
Owensboro, Kentucky

Open Date: December 6, 2017, 2:00 p.m. (Local)

William Higdon/General Manager
270-685-5594

INFORMATION TO BIDDERS

Scope of Work

The AMI System will require the chosen bidder to install and bar code approximately 5,100 single port and double port radio transmitting devices. These radio transmitting devices will be connected to the existing Sensus AMR water meters and endpoints. This installation contract constitutes Phase 2 of the District's AMI System Project. Phase 1 of the District's AMI System Project will be performed by another vendor.

Planning Meeting

The project planning includes radio installations scheduling, report documentation, and West Daviess County Water District staff and installation personnel meetings under the direction of the District Project Manager. The West Daviess County Water District will provide their files necessary to set up the AMI database and track radio shipments and inventory.

Bar Coding

All of the information for each account is printed on the radio installation form. The account number will be bar coded to simplify data entry and to ensure accuracy. The radio serial number is also bar coded to simplify data entry and ensure accuracy.

Meter Reading Routes/Geographical Boundaries

The radio installation will be set up using the meter reading routes to create the new data base. The routes will be given to the District Project Manager for assignment to the installers.

Information and Notification Mailing

The West Daviess County Water District will develop and mail to all of its customers an informational/notification letter briefly explaining the AMI program.

Weekly Project Meetings

The West Daviess County Water District Project Manager will hold weekly meetings to assure any problems have been resolved. The District Project Manager will ensure the data entry is being entered and passed on to the West Daviess County Water District Office Staff and that the files are being built correctly. The District Project Manager will review weekly reports of radios installed.

Bidder's Initials _____

INFORMATION TO BIDDERS

I. ACCEPTANCE OF BIDS

1. West Daviess County Water District (the District) reserves the right to accept the best evaluated bid as determined by the Daviess County Water District's Board of Commissioners. The District reserves the right to waive any informalities or minor defects in a bid or to reject any or all bids. The award of bids is contingent upon the Public Service Commission granting the District a Certificate of Public Convenience and Necessity for the proposed project.
2. **No bidder may withdraw its bid for a period of ninety (90) days after the date set for the bid opening. The District anticipates issuing the Notice of Award no later than 90 days from the date set for the bid opening.**
3. Installation of the proposed AMI infrastructure cannot commence until Phase 1 of the District's AMI System Project has been completed. Phase 1 consists of the receipt and installation of the base station collection devices, the receipt of the radio transmitting devices, and the completion of related software installation/implementation. The District anticipates that Phase 1 will take approximately 120 days to complete after the contract for Phase 1 has been awarded. The District anticipates issuing the Notice to Proceed for Phase 2 as soon as Phase 1 has been completed.

II. SUBMITTING BIDS

1. The bid must be received by the District at 3400 Bittel Rd, Owensboro, Kentucky on December 6, 2017 by 2:00 p.m. local time. Any bid received after the specified time shall be disqualified.
2. Each bid must be in a sealed envelope and have typed on the envelope, SEALED BID, with the opening date and time. The District assumes no responsibility for the premature opening of or failure to open bids not properly addressed or identified.
3. An authorized representative of the bidder may withdraw its bid at any time prior to the opening time of the bid, but no bid may be withdrawn after the opening process has begun.
4. The District will not be responsible for errors or omissions on the part of bidders in making up their bids. All bids must be signed by an authorized representative and any bid received unsigned will be rejected.
5. All bids must be submitted in accordance with the specifications listed. The bidder must note any exceptions to the specifications on its Bid Form, otherwise it will be assumed that the bidder meets the specifications listed.

Bidder's Initials _____

6. The vendor's Bid Form shall be in a spreadsheet format. Each radio transmitting device or other hardware shall be listed separately. A sample format is located in Appendix A.
7. Bids must be completed in ink or type written. Failure to do so will result in the rejection of the bid.
8. Because this packet contains the terms, conditions, and specifications for the bid, the entire packet must be returned. **An authorized agent of the bidder must initial at the bottom of each page acknowledging that they have read the entire page.**
9. All prices quoted shall be on a delivery prepaid basis to the District's Office located at 3400 Bittel Road, Owensboro, KY 42301.
10. Bidders are invited to attend the public bid opening, and to review the complete bid files after the bids have been opened. The District will also prepare and mail a bid tabulation showing all vendors' pricing.
11. If a bidder is not bidding on a particular item or items, that fact must be clearly stated.
12. Do not add or include Kentucky sales or use tax. The District will furnish the necessary exemption certificate, upon request.
13. The District shall make payment within forty-five days after delivery of materials.

III. ADDENDA TO SPECIFICATIONS

The District reserves the right to issue addenda for the purpose of modifying the documents referred herein at any time prior to the day and time set for the opening.

IV. QUALIFICATIONS OF BIDDERS

The bidder may be required, before the award of the bid, to show to the complete satisfaction of the District that it has the necessary resources, facilities, and ability to provide the services and products specified. The bidder may also be required to give a past history and references in order to satisfy the District in regard to the bidder's qualifications. Should the bidder be deemed unsatisfactory, the bid will be rejected.

Bidder's Initials _____

SPECIAL INSTRUCTIONS

I. INSTRUCTIONS

1. The bidder in calculating the unit price must deduct trade and quantity discounts. The unit price on each bid item must be net of any discounts.
2. Any quantities shown in the bid schedule are approximate and believed to represent the needs of the District to complete the project as described. The District makes no guarantee of said quantities and reserves the right to purchase quantities less than specified if in the best interest of the District.
3. All products delivered by the bidder must be new and cannot be "second" quality or a "factory reject." The District will not accept any products previously delivered to another customer and returned to the vendor for any reason.
4. Delivery shall be made to the District within forty-five (45) days after the order has been placed. If the vendor does not make delivery within the specified forty-five (45) days, the District reserves the right to cancel the order and purchase the items from another bidder.
5. The District will pay the invoice within forty-five (45) days from the date of the invoice.
6. Provide required attachments as listed in Appendix B

II. TERM OF BID

The term of this bid shall be for a period of two (2) years, from December 6, 2017 to December 6, 2019, unless terminated, canceled or extended.

Bidder's Initials _____

BID EVALUATION PROCESS

- I. All bids received from vendors will be reviewed and evaluated by the District Board of Commissioners and Staff. The following criteria will be used in making the selection:

Criteria
Cost per radio transmitter to install and bar code

- II. The chosen bidder shall demonstrate its ability to install and bar code each radio transmitting device to the existing system on a timely basis, and provide references as to where such systems have been successfully installed and are currently in operation. Specific requirements of the metering system are detailed in this RFB, but may not be all inclusive.

Bidder's Initials _____

APPENDIX A – BID FORM EXAMPLE

WEST DAVIESS COUNTY WATER DISTRICT

RADIO TRANSMITTING DEVICES

&

AUTOMATED METER READING SYSTEM

ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL	ADDITIONAL INFORMATION
1	Radio Transmitter (Single Port) Installation and bar coding	5,100			Installation includes removing the existing touch read adapter and replacing it with the AMI adapter
2	Radio Transmitter (Dual Port) Installation and bar coding	1			Installation includes removing the existing touch read adapter and replacing it with the AMI adapter

EXHIBIT 5

PROJECT COST SUMMARY
AMI System Project
West Daviess County Water District

PROJECT EXPENSES

1.	Equipment Purchase & Installation ¹	
	A. Phase 1 Contract	\$834,480
	B. Phase 2 Contract	62,487
2.	Engineering and Contract Administration Services	2,500
3.	Legal and Administrative	15,000
4.	Advertising and Miscellaneous	2,000
5.	Contingency (Approx. 5% of Bid Amounts)	<u>45,000</u>
	TOTAL PROJECT COST	\$961,467

¹ Based upon actual bids received on 12-6-17.

EXHIBIT 6

WEST DAVIESS COUNTY WATER DISTRICT
3400 Bittel Road, Owensboro, KY 42301

PHASE 1 - Automated Meter Reading System & Approx. 5,250 Radio Transmitting Devices
PHASE 2 - Installation of Approx. 5,100 Radio Transmitting Devices & Bar Coding

ITEM NO.	DESCRIPTION	QUAN	UNIT	The C.I. Thornburg Co., Inc.		Vanguard Mapping Solutions, LLC		Vanguard Utility Service, Inc.	
				UNIT PRICE	TOTAL ITEM AMOUNT	UNIT PRICE	TOTAL ITEM AMOUNT	UNIT PRICE	TOTAL ITEM AMOUNT
PHASE 1									
1	Radio Transmitter (Single Port)	5,250		\$120.00	\$630,000.00				
2	Radio Transmitter (Dual Port)	1		\$180.00	\$180.00				
3	Base Station Collection Device	4		\$45,000.00	\$180,000.00				
4	Hosted Serve Setup Fee			\$3,862.50	\$3,862.50				
5	MDM Software Setup Fee			\$1,875.00	\$1,875.00				
6	MDM File Integration Fee			\$2,000.00	\$2,000.00				
7	Annual RNI SaaS Fee*	*Year 1 fee		\$4,000.00	\$4,000.00				
8	Annual Analytics Software Fee*	*Year 1 fee		\$4,062.50	\$4,062.50				
9	Project Management Fee			\$5,000.00	\$5,000.00				
10	Training Fee			\$3,500.00	\$3,500.00				
				** Annual fees years 2 thru 5 for hosted servers & Analytics software provided to District					
PHASE 2									
1	Radio Transmitter (Single Port) Installation & bar coding	5,100				\$12.25	\$62,475.00	\$17.89	\$91,239.00
2	Radio Transmitter (Dual Port) Installation & bar coding	1				\$12.25	\$12.25	\$21.39	\$21.39
TOTAL BASE BID					\$834,480.00		\$62,487.25		\$91,260.39

BID OPENING DATE: Dec. 6, 2017
BID OPENING TIME: 2:00 p.m. CST

ATTENDEES:

Keith Krampe	SE & W DCWD
Bill Higdon	SE & W DCWD
Josh Duvall	Vanguard Mapping Solutions
Emily Duvall	Vanguard Mapping Solutions
Denver Blain	C.I. Thornburg Co., Inc.
Kathy Kolter	Vanguard Utility Service, Inc.
Jim Riney	HRG, PLLC
Suzanne Murphy	HRG, PLLC

I hereby certify that the herinabove bid summary information is true and accurate to the best of my knowledge and belief.

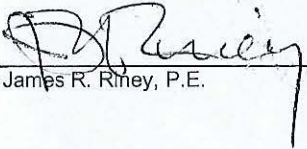

James R. Riney, P.E. 12/6/2017

EXHIBIT 7

December 7, 2017

Bill Higdon, Manager
West Daviess County Water District
3400 Bittel Road
Owensboro, KY 42301

RE: PHASE 1 – Automated Meter Reading System
& Approx. 5,250 Radio Transmitting Devices

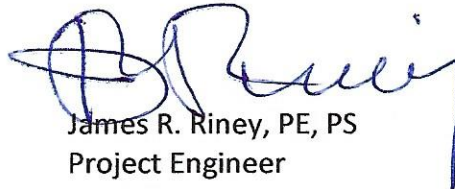
Dear Bill;

Attached for your review is the bid tabulation sheet for the above captioned project. We recommend the low bid submitted by The C.I. Thornburg Co., Inc. in the amount of \$834,480.00 as the lowest responsive, responsible and best bid for the project. Said bid proposal is within the original budget amount.

Please notify us of the decision of the West Daviess County Water District Board in order to move forward with the Notice of Award to the Contractor. Assuming acceptance by the District Board, the bid will be awarded on the basis of bid unit prices in accordance with the contract documents.

Call if you have questions or need additional information.

Sincerely,



James R. Riney, PE, PS
Project Engineer

JRR:smm

Attachment

Copy: Denver Blain/The C.I. Thornburg Co., Inc.
Damon Talley, Esq.

EXHIBIT 8

December 7, 2017

Bill Higdon, Manager
West Daviess County Water District
3400 Bittel Road
Owensboro, KY 42301

RE: PHASE 2 – Installation of Approx. 5,100
Radio Transmitting Devices & Bar Coding

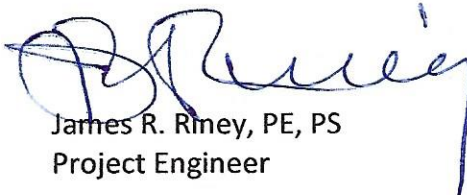
Dear Bill;

Attached for your review is the bid tabulation sheet for the above captioned project. We recommend the low bid submitted by Vanguard Mapping Solutions, LLC in the amount of \$62,487.25 as the lowest responsive, responsible and best bid for the project. Said bid proposal is within the original budget amount.

Please notify us of the decision of the West Daviess County Water District Board in order to move forward with the Notice of Award to the Contractor. Assuming acceptance by the District Board, the bid will be awarded on the basis of bid unit prices in accordance with the contract documents.

Call if you have questions or need additional information.

Sincerely,



James R. Riney, PE, PS
Project Engineer

JRR:smm

Attachment

Copy: Josh Duvall/Vanguard Mapping Solutions, LLC
Damon Talley, Esq.

EXHIBIT 9

RESOLUTION NO. 2017-12-01

**RESOLUTION OF WEST DAVIESS COUNTY WATER DISTRICT
ACCEPTING LOW BID AND AWARDING CONTRACT
Phase 1 – AMR System & Radio Transmitting Devices**

WHEREAS, West Daviess County Water District (the “West District”) caused to be published in the November 22, 2017 edition of the *Messenger-Inquirer* an advertisement for bids on Phase 1 – Automated Meter Reading System & Radio Transmitting Devices (the “Contract”) in accordance with the provisions of KRS Chapter 424;

WHEREAS, one (1) firm submitted a bid on the Contract in accordance with the terms of the advertisement and the Bid Specifications;

WHEREAS, The C.I. Thornburg Co., Inc. submitted a bid in the amount of \$834,480.00; and

WHEREAS, HRG, PLLC has recommended that the West District award the Contract to The C.I. Thornburg Co., Inc.;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE WEST DAVIESS COUNTY WATER DISTRICT AS FOLLOWS:

Section 1. The facts, recitals, and statements contained in the foregoing preamble of this Resolution are true and correct and are hereby affirmed and incorporated as a part of this Resolution.

Section 2. The Board of Commissioners hereby accepts the recommendation of HRG, PLLC.

Section 3. The Board of Commissioners hereby declares the bid in the amount of \$834,480.00 submitted by The C.I. Thornburg Co., Inc. to be responsive, responsible, and reasonable. Therefore, it is the lowest and best bid.

Section 4. The C.I. Thornburg Co., Inc. is awarded the Contract for Phase 1 – Automated Meter Reading System & Radio Transmitting Devices in the amount of \$834,480.00, contingent upon the Kentucky Public Service Commission granting a Certificate of Public Convenience and Necessity to purchase and install the Proposed Facilities.

Section 5. The Chairperson is authorized and directed as follows: (a) to execute the Notice of Award; (b) to execute the Agreement; (c) to execute the Notice to Proceed; and (d) to take any and all other actions reasonably necessary to implement the award of the Contract to The C.I. Thornburg Co., Inc., including the execution of any and all other documents necessary for such purpose.

Section 6. This Resolution shall take effect upon its adoption.

ADOPTED BY THE BOARD OF COMMISSIONERS OF THE WEST DAVIESS COUNTY WATER DISTRICT at a meeting held on December 19, 2017, signed by the Chairperson, and attested by the Secretary.

WEST DAVIESS COUNTY WATER DISTRICT

BY: *Janet R. Murphy*
Janet R. Murphy, Chairperson

ATTEST:

Paula M. Crabtree
Paula M. Crabtree, Secretary

EXHIBIT 10

RESOLUTION NO. 2017-12-02

**RESOLUTION OF WEST DAVIESS COUNTY WATER DISTRICT
ACCEPTING LOWEST BID AND AWARDING CONTRACT
Phase 2 – Installation of Radio Transmitting Devices & Barcoding**

WHEREAS, West Daviess County Water District (the “West District”) caused to be published in the November 22, 2017 edition of the *Messenger-Inquirer* an advertisement for bids on Phase 2 – Installation of Radio Transmitting Devices & Barcoding (the “Contract”) in accordance with the provisions of KRS Chapter 424;

WHEREAS, two (2) firms submitted bids on the Contract in accordance with the terms of the advertisement and the Bid Specifications;

WHEREAS, Vanguard Mapping Solutions, LLC submitted the lowest of the two (2) bids with a bid of \$62,487.25; and

WHEREAS, HRG, PLLC has recommended that the West District award the Contract to Vanguard Mapping Solutions, LLC;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE WEST DAVIESS COUNTY WATER DISTRICT AS FOLLOWS:

Section 1. The facts, recitals, and statements contained in the foregoing preamble of this Resolution are true and correct and are hereby affirmed and incorporated as a part of this Resolution.

Section 2. The Board of Commissioners hereby accepts the recommendation of HRG, PLLC.

Section 3. The Board of Commissioners hereby declares the bid of Vanguard Mapping Solutions, LLC in the amount of \$62,487.25 to be the lowest and best bid.

Section 4. Vanguard Mapping Solutions, LLC is awarded the Contract for Phase 2 – Installation of Radio Transmitting Devices & Barcoding in the amount of \$62,487.25, contingent upon the Kentucky Public Service Commission granting a Certificate of Public Convenience and Necessity to install and bar code the Radio Transmitting Devices.

Section 5. The Chairperson is authorized and directed as follows: (a) to execute the Notice of Award; (b) to execute the Agreement; (c) to execute the Notice to Proceed; and (d) to take any and all other actions reasonably necessary to implement the award of the Contract to Vanguard Mapping Solutions, LLC, including the execution of any and all other documents necessary for such purpose.

Section 6. This Resolution shall take effect upon its adoption.

ADOPTED BY THE BOARD OF COMMISSIONERS OF THE WEST DAVIESS COUNTY WATER DISTRICT at a meeting held on December 19, 2017, signed by the Chairperson, and attested by the Secretary.

WEST DAVIESS COUNTY WATER DISTRICT

BY: *Janet R. Murphy*
Janet R. Murphy, Chairperson

ATTEST:

Paula M. Crabtree
Paula M. Crabtree, Secretary

EXHIBIT 11

Estimated Annual Cost of Operation
AMI System Project
West Daviess County Water District

Description

1.	Annual Analytics Software Fee	\$	4,063
2.	Annual RNI SaaS Fee	\$	<u>4,000</u>
ESTIMATED TOTAL ANNUAL COST OF OPERATION		\$	8,063