FAYETTE County
Create Your Story!

Purchasing Department
140 Stonewall Avenue West, Ste 204
Fayetteville, GA 30214
Phone: 770-305-5420
www.fayettecountyga.gov

January 19, 2021

Subject: Request for Proposals 2000-P: Fayette County Water System AMI Project

Gentlemen/Ladies:

Fayette County, Georgia invites you to submit a proposal for an Advanced Metering Infrastructure solution for Fayette County Water System, in accordance with the information contained herein.

A mandatory pre-proposal meeting will be held **Wednesday, February 2, 2022, at 9:00 a.m. at Fayette County Administration, 140 Stonewall Avenue West, Suite 100, Fayetteville, GA 30214,** to provide an opportunity for you to become more familiar with the project, and to ask questions. The County invites interested participants to attend in person or join via Teams Meeting. Companies that attend will be invited to submit proposals.

Questions concerning this request for proposals should be addressed to Natasha Duggan, Contract Administrator, in writing via email to purchasinggroup@fayettecountyga.gov or fax to (770) 719-5534. Questions will be accepted until **3:00 p.m., Monday, February 7, 2022.**

Purchasing Department office hours are Monday through Friday 8:00 a.m. to 5:00 p.m. The office telephone number is (770) 305-5420.

Please return your response to the following address:

Fayette County Government
Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, GA 30214

Request for Proposals **#2000-P**
Request for Proposals: **Fayette County Water System AMI Project**

Your envelope *must* be sealed and should show your company's name and address.

Proposals will be received at the above address until 3:00 p.m., Wednesday, March 9, 2022, in the Purchasing Department, Suite 204. The proposals will be opened at this time. For proposals that you may drop off in person, there will be a large metal parcel drop box located outside the front door of the Purchasing Department, Suite 204, in the county complex at 140 Stonewall Avenue West, Fayetteville, GA

FAYETTE County Water

30214. You must place your proposal in the drop box no later than 3:00 p.m. on Wednesday, March 9, 2022. Proposals must be signed to be considered. Late proposals cannot be considered. Faxed or emailed proposals cannot be considered.

If you download this request for proposals from the county's web site, it will be your responsibility to check the web site for any addenda that might be issued for this solicitation. The county cannot not be responsible for a vendor not receiving information provided in any addendum.

Thank you for participating in the solicitation process.

Sincerely,

Ted L. Burgess
Director of Purchasing



FAYETTE COUNTY WATER SYSTEM AMI PROJECT - REQUEST FOR PROPOSAL

Fayette County Water System

FAYETTE COUNTY, GEORGIA

SOLICITATION #:
#2000-P: Fayette County Water System AMI Project

PROPOSAL DUE DATE:
March 9, 2022

FAYETTE County Water

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1. Introduction

Fayette County, Georgia invites Respondents to submit a proposal for an Advanced Metering Infrastructure (AMI) solution for Fayette County Water System, in accordance with the information contained herein.

2. Instructions to Proposers

2.1. Procurement Schedule

The release of this RFP initiates the procurement process. The County's Purchasing Department will provide additional information such as clarifications or changes in deadline through the issuance of addenda to the RFP. A schedule for the major activities associated with the procurement process is presented below.

Table 1: Procurement Schedule

	Date
Solicitation Released	**Jan 19, 2022**
Pre-Proposal Conference Meeting (TEAMs and Onsite)	**Feb 2, 2022, 9 – 10 am EST**
Questions Due to FC Purchasing	**Feb 7, 2022, 3 pm EST**
Responses to Questions	**Feb 18, 2022**
Proposals Due	**Mar 9, 2022, 3 pm EST**

Any questions and requests for clarifications concerning this request for proposal should be addressed to Natasha M. Duggan, Contract Administrator, in writing via email to PurchasingGroup@fayettecountyga.gov. The County reserves the right to reject all Proposals, to waive technical defects and irregularities, modify or change the procurement schedule or take any other action it may deem in its best interest.

2.2. Pre-Proposal Meeting – Teams and Onsite

Participation in the pre-proposal conference call is mandatory. The County invites interested participants to attend in person or join via Teams meeting. During the pre-proposal conference, the FCWS Project Manager will provide an overview of the project and proposal expectations. Interested parties will have an opportunity to discuss FCWS needs and ask any questions they may have.

Date and Time: Wednesday, February 2, 2022, 9 – 10 am EST

Location: Fayette County Administration, 140 Stonewall Avenue West, Suite 100, Fayetteville, GA 30214. Please email PurchasingGroup@fayettecountyga.gov if you intend to attend the pre-proposal meeting in person. RSVP by 3 pm, January 24, 2022.

Online Meeting Access Details:

Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
+1 213-379-9608,,691938899# United States, Los Angeles
Phone Conference ID: 691 938 899#

2.3. FCWS Data Release

The County will provide data within five days' receipt of a signed non-disclosure agreement. The data that County is prepared to provide includes:

- All water service addresses, and
- County asset file which includes location information for communication network infrastructure.

See County Proposal Forms for the County's standard non-disclosure agreement. Complete and sign the agreement. Scan and email or fax to:

Natasha M. Duggan, Fayette County Purchasing
Subject: #2000-P Fayette County Water System AMI Project
Email: PurchasingGroup@fayettecountyga.gov
Fax: 770-305-5208

2.4. Evaluation Criteria and Evaluation Process

Award will be made to the Respondent whose proposal is most advantageous to the County, with technical merit, price, presentations, and reference calls included in the complete evaluation process.

Round 1 – Responsiveness

All Proposals received will be reviewed for responsiveness by the Purchasing Department. The minimum criteria for responsiveness are:

Responsiveness Criteria	Evaluation
Minimum mandatory qualifications – Attachment A	Pass
Proposal meets format requirements per Section 2.6	Pass
Attendance in the pre-proposal conference call confirmed	Pass

Round 2 – Proposal Evaluations

An evaluation committee consisting of key FCWS stakeholders will review, evaluate, and score proposals. Respondents' proposals that meet the above responsiveness criteria will be evaluated based on the following criteria:

Category	Criteria	Weighting	Points
Technical Merit	Respondent Qualifications and Experience	20%	20
	Technical Proposal and Project Approach	35%	35
	Project Team Organization and Staffing	15%	15
Price	Pricing Proposal	30%	30
		100%	100

Pricing proposals will be assigned points earned using a "variance" weighted method. The lowest offered price will earn 30 points, which is the maximum number of points for the pricing portion of the score. Other proposals' price scores will be calculated based on the variance of their prices from the lowest offered price. The outcome of Round 2 will determine the top-scoring proposals which will be invited to Round 3 of the procurement process. Total points from Round 2 will not be added to Round 3.

Round 3 – Demonstrations/Presentations and Reference Checks
Round 3 will consist of two parts:

- Part 1 – Software demonstration, interview, reference checks
- Part 2 – Best and final price

The County plans to short-list the top scoring proposals and invite the short-listed firms to an interview during which the invited firm will provide a demonstration of their software, provide an overview of their project approach, and respond to any questions from the FCWS evaluation team. FCWS will provide a demonstration script for the short-listed firms to prepare for the interview. The evaluation committee will evaluate and score presentations and reference calls which will be calculated as a Round 3 technical score.

After the interviews are completed, FCWS will select the top scoring firms to provide a best and final price. The total maximum number of points possible for Round 3 is 100 points.

Summary of Evaluation Process and Evaluation Criteria

	Round 1	Round 2	Round 3, Part 1	Round 3, Part 2
	Responsiveness	Proposal Evaluations	Demonstrations/ Presentations and Reference Checks	Best and Final Price Proposal
Maximum Total Points	Pass	100	70	30

Each invited firm to Round 3 will start with zero points. Points from Round 2 will not be added to Round 3.

2.5. County Procurement Forms

The required County Procurement Forms that must be submitted to the County are in Section 10 of this RFP. All forms except the mutual non-disclosure agreement are to be completed and submitted with the Respondent's proposal as describes in Section 2.6 – Proposal Submission Requirements. The mutual non-disclosure agreement is the only agreement that shall be submitted per Section 2.3 – FCWS Data Release.

2.6. Proposal Submission Requirements

The Respondent's Proposal, including appendices and requested information, must be submitted as described below.

- **Official proposal submission:** One (1) original proposal package that includes the Technical Proposal and the Pricing Proposal. The original must have original signatures from an accountable and responsible role within the Respondent's company.
- **Number of Hard Copies:** Five (5) copies each in one (1) three ring binder
- **Electronic format:** Two (2) USB flash drives:
    - One (1) USB flash drive that contains the technical proposal and appendices including propagation study. The propagation study results shall be provided in Google Earth readable format (kmz).
    - Second USB flash drive for the MS Excel formatted pricing proposal.

Table 2 provides details on the proposal format and submission requirements.

The above listed items are to be mailed or delivered to:

Natasha M. Duggan
Fayette County Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, Georgia 30214

Request for Proposals Number: 2000-P
Proposal Name: Fayette County Water System AMI Project

Table 2: Proposal Format

Section	Section Description
1	**Cover Letter**
2	**Table of Contents** – Table of Contents must summarize the contents of the Proposal and identify the location and page number for each of the required sections.
3	**Executive Summary** - An executive summary must be included in the Proposal and must contain, at a minimum, a summary of the Respondent's understanding of the project, an overview of the Respondent's qualifications and experiences relative to this RFP, and a summary of the proposed solution and technical approach to the project. The executive summary shall not exceed three pages in length.
4	**Respondent Qualifications** – Describe your firm, including subcontractors (if any) and proposed project team. Provide an organization chart. Provide examples of past implementations similar in size and scope to FCWS, including project summaries, work performed, timeline and outcomes from the project. For the proposed project team, provide brief summary bios for each key resource in this section. Key resources include: • Project Manager • Integration Lead • Network Design and Network Deployment Lead(s) • Installation Lead

- Training Lead

Full resumes shall be included in the Appendix.

5 **Solution Overview** – Provide an overview of the proposed AMI solution, including a schematic depicting the system's components and configuration. Provide details on the operations of the system and how this solution will meet FCWS requirements. Highlight any capabilities that Respondent feels is advantageous, or value added over competitors' solutions.

6 **Technical Proposal** – Describe the proposed technical approach (initial deployment through full deployment) to deliver a fully tested and accepted AMI Solution that meets the RFP requirements. The key activities to be covered in the approach are:

- Project Initiation and project management.
- Network design, configuration, and integration requirements
- Configuration and development including software setup and configuration; and any integration development.
- Training and testing to include end-to-end integration testing, and user acceptance
- Acceptance including both initial deployment and final acceptance
- Project closure

For each key activity of the project, provide the following:

- Details about each activity and tasks that included required inputs, expected outcomes and deliverables.
- RACI Matrix specifying roles and responsibilities for key tasks and milestones.
- Assumptions

7 **Project Schedule** – Provide a high-level project schedule that aligns with the proposed technical approach including the key activities, tasks, and key milestones. Include a more detailed Project Schedule in MS Project format in the Appendix.

8 **Technical Proposal Forms**

- Attachment A – Minimum Qualifications
- Attachment B - AMI System Requirements
- Attachment C - Project Implementation Services
- Attachment D - Meter Installation Services
- Attachment E – Security
- Attachment F – SaaS/NaaS and Technical Support Services

In preparing responses to these requirements, do not duplicate responses for any requirements that are similar. Instead reference the section and requirement number. FCWS expects a diligent effort to respond to each requirement and question. Please do not just respond "Complies." Provide details on how your proposed solution meets the requirement and any value to FCWS. If your proposed solution does not meet the requirement, explain if there are any alternatives or provide a reason why the requirement is not necessary.

9 **Pricing Proposal** – complete Attachment G - Pricing template and submit electronically in MS Excel format. The Pricing Proposal shall be printed and inserted in a separate sealed envelope in each binder.

Section	Section Description
10	**County Procurement Forms and other required documents –** insert completed forms in this section of the proposal • Company Information • Contractor Affidavit under O.C.G.A §13-10-91(b)(1) • Bid Bond (As described in the Terms and Conditions) • Exceptions • References • Consolidated balance sheet and cash flow statements for the Company's three most recent years • Anti-Lobbying Certification • Certification – Suspension and Debarment • Signed Addenda if any are issued
11	Appendices - Other Attachments, as needed about the proposed solution and approach A. Project Team – Key team member resumes B. Propagation Study including summary of coverage and redundancy statistics, design assumptions (antenna heights, etc.). Highlight if a collector site is County-owned or not. C. Project Schedule in MS Project or SmartSheet D. Product Sheets and Technical Specifications

3. Definitions and Acronyms

- **AMI** – Advanced Metering Infrastructure. An integrated system of smart meters, communication networks, and data management systems enabling two-way communication
- **AMI Communications Network** – any number of Collectors and other network devices that are deployed to cover the County's service territory. The purpose of the AMI Communications Network is to transport meter/endpoint data back to the County's AMI Head End.
- **AMI Vendor** – company that develops, supports, and implements AMI technology to utilities.
- **Automatic Meter Reading (AMR)** – Process by which a meter is read other than through walk by reading by a meter reader, who removes a meter box lid, reads a meter register, and records the reading into a hand-held device. Typically, AMR is drive-by reading of meter endpoints (radios) monthly for billing purposes.
- **Backhaul** – the communication method to transmit meter data from the collectors to the AMI Software.
- **CIS** - Customer Information System, Tyler Munis ERP
- **Contract** – Refers to an agreement executed by the County and the Respondent(s) for all, or part of the services covered by this Scope of Work.
- **Contractor** – can be the Prime, Respondent, or the Vendor
- **County** – Refers to Fayette County

- **Collector** – Defined as equipment that receives data from radio transmitting units (endpoints) on the meters and transmits data to the meter reading system control computer or Head End System. Collectors often speak to endpoints in a two-way mode, providing commands and collecting responses.
- **Customer Portal** – Refers to software that provides FCWS customers self-serve tools via a portal such as viewing their AMI consumption current and past, pay a bill, etc.
- **Deliverables** – Refers to all tasks, reports, information, designs, plans, equipment, software, firmware, training, and other items which the Respondent is required to complete and deliver to the County in connection with the Contract.
- **Endpoint or MIU**- A meter interface unit (sometimes with acronym MIU), typically a radio or cellular transmitter, that records and stores meter readings at prescribed intervals and transmits them to a data collection unit. Endpoints can be programmed to calculate, and trigger alarms based on consumption or operational conditions such as battery life, no flow, backflow, and tampering.
- **Endpoint Acceptance** – a testing process to confirm each endpoint registers on the AMI network and transmits the expected data within the agreed upon timeframes.
- **GIS** - Geographic Information System
- **Evaluation Committee** – Refers to a committee, as appointed by the County, responsible for recommending the best-qualified, most-responsive, and best value AMI for the services described in this RFP.
- **Firm** – a company or business entity who will be involved in the project. Firm includes any AMI technology vendors, metering vendors, installation services contractors and system integration contractors.
- **FCWS** – Fayette County Water System
- **Head End System (HES) –** Receives data from Collectors. Provides tools to administrate and manage the AMI system and is a hub for data to other systems, such as the CIS and Customer Portal.
- **Interface –** Is considered to be the written code (or conversion software) which translates vendor information into file formats compatible with the existing billing system, other FCWS software and database systems and vice versa.
- **IoT** – Internet of Things. Term to describe technologies that are embedded with sensors and software for specific use and purpose of exchanging data with other systems over the AMI communications network.
- **IT –** Information Technology.
- **Key Personnel** – Key personnel are named individuals who are assigned an important and critical role on the project and will be actively involved in the project.
- **Milestone** – a key deliverable or achievement that is important to measure and monitor the progress and performance of the Project. Some Milestones are also payment Milestones where when the deliverable or achievement is approved, the agreed upon payment is invoiceable.
- **MIU –** Meter interface unit. Same as Endpoint.
- **NaaS** - Network-as-a-Service. Refers to a deployment approach where the Respondent or the AMI Vendor owns the network equipment and is responsible for the design, installation, site acquisition (if needed), maintenance, performance of the AMI Communications Network.

- **Prime** – the prime contractor (Respondent) is the firm the County intends to establish a contract to perform the agreed upon Scope of Work. The Prime is responsible for the successful implementation and delivery of the proposed solution.
- **Project** – refers to the scope of work that will be negotiated upon selection of the Respondent(s) for this Solicitation.
- **RACI Matrix**– Responsible, Accountable, Consulted, Informed. This matrix is a project management tool that details the responsibility assignment for project tasks and milestones.
- **Respondent** – the Respondent is the firm who is the Prime contractor for this RFP.
- **SaaS** - Software-as-a-Service. Refers to the deployment approach where the Respondent or the AMI Vendor provides hosted services for the proposed Software for FCWS. Hosted services including services such as software maintenance, patch application, IT infrastructure maintenance, backup and recovery, and disaster recovery.
- **Solution** – Refers to the totality of systems and services proposed in response to this RFP. The term "Program" may also be used in this manner.
- **Team** – term to describe the Respondent and their subcontractors (if any)
- **Term** – period which the contract terms and conditions are active.
- **Turnkey AMI Solution** – term to describe all the components and required services to implement and deploy the AMI Solution. This includes meters, AMI hardware, AMI HES, AMI implementation services, integration services, meter and endpoint installation services and AMI support services.
- **System Acceptance** – System Acceptance occurs when the selected Vendor achieves the System Acceptance criteria. The successful evaluation of the selected Respondent's solution compared to the agreed upon Solution Acceptance criteria

4. Background and Summary of Work

Fayette County Water System (FCWS) is advancing their meter reading system to Advanced Metering Infrastructure (AMI). FCWS has about 32,000 water service connections across their 199 square mile service area. The key objectives of this project are to address FCWS' aging metering infrastructure, meter accuracy, lost revenue, non-revenue water loss and operational efficiency. See Figure 1 for a map of the County's service area.

Water service details:

- Total water meters: 31,660
- 31,399 - Small meters ¾" – 2" meters
- 122 - Large meters (≥ 3")
- 6 - Wholesale Meters

  Five (5) are serving the City of Fayetteville and one is serving the Town of Brooks. A future interconnection (7th wholesale meter) with Coweta County Water and Sewerage Authority is planned for December 2022.

FCWS experiences nominal growth on an annual basis. The average growth is 500-600 meters per year. The table below details the forecasted growth for the next four years.

Year	Number of Growth Meters
2022	500-600
2023	500-600
2024	500-600
2025	500-600

AMI will be deployed across the FCWS service area which will allow a performance solution of 99.5% read success, 100% coverage and 2:1 redundancy. FCWS has a vision to expand the use of the AMI network to meet future needs including the addition of distribution leak detection technologies, pressure monitoring sensors and other Internet of Things (IoT) devices.

The AMI solution for FCWS will provide a foundation for an Intelligent Water utility that supports their vision of ***Striving to provide the highest quality sustainable water in the region.***

FCWS' AMI project key goals are:

1. Increased reliability and accuracy of water metering
2. Reduced water loss system wide
3. Streamlined meter-to-cash process
4. Improved customer field services
5. Improved consumer engagement and customer service by providing self-serve tools for managing water usage and detecting leaks.

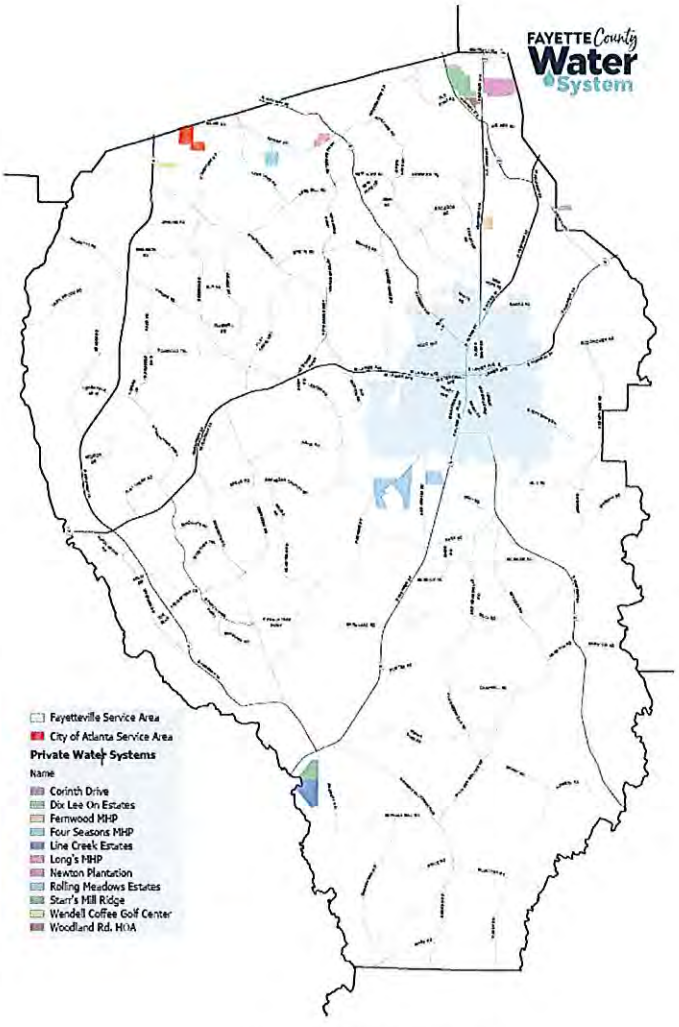


Figure 1: FCWS Service Area

Through this RFP, FCWS seeks to establish a single contract with a qualified contractor for the delivery, implementation, and deployment of an AMI solution. The Respondent shall include the necessary goods and services summarized in the table below. Detailed technical requirements are described and numerated in Attachments B through F.

	Turn-key Scope
Goods/Products	• AMI Metering Solution (Communications Network Infrastructure, Meter Interface Units and AMI Software) • Water meters • Miscellaneous appurtenances – Field programmers, Meter-box covers, Meter boxes (as needed) and other miscellaneous installation related consumables such as nuts, bolts, gaskets, flanges, etc.
Services	• AMI Vendor Implementation Services, including AMI Communications Network deployment • AMI Solution Support and Maintenance – Network-as-a-Service • Meter/MIU Installation Services • Meter installation or retrofit • Random Meter testing for receiving of meter shipments • Service repair such as shut off valve replacement etc. (as needed) • Check Valve Replacement (all services) for compliance (Lead Free – Meter Thread Connection x Female NPT Connection – Domestic Manufacturer Only) • Lead and Copper inventory data collection

5. Implementation Plan

FCWS implementation plan is to complete the full implementation and deployment of the AMI solution, including but not limited to software setup, integrations, AMI communication equipment and the full population of water meters by mid-2026 (deadline driven by American Recovery Plan requirements).

The duration to implement the AMI System shall be no more than 30 months from NTP. The implementation of the AMI solution must be completed before the end of 2026 as this is a requirement to use funding from the American Rescue Plan Act. Our approach is to have a two-stage deployment.

- Initial Deployment of about 500 meters with an initial system acceptance - within 12 months
    - The Initial Deployment area will be spread throughout the eight FCWS reading cycles.
- Full Deployment of the remaining meter population, concluding with a final system acceptance – no more than 18 months duration after the initial system acceptance

Potentially there will be an optimization phase that may include the implementation of a customer portal and GIS integration. FCWS is open to include these capabilities if the effort does not risk the completion of this project before the end of 2026.

6. Current Metering Equipment and Meter Reading Capabilities

In 2002, FCWS implemented the Badger Orion drive by automated meter reading system (AMR) for capturing monthly bill reads. The project focused on residential meters and small commercial meters (3/4" – 2"). Large meters (3" and larger) remained on manual meter read routes.

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Table 3: FCWS Small Meters

¾"			1"			1-1/2"			2"		
Model	Replace	Retrofit	Model	Replace	Retrofit	Model	Replace	Retrofit	Model	Replace	Retrofit
M25	27,970	2,065	M25	5	1	M120	241	40	M25	1	0
M70	16	2	M70	543	96	M170	1	0	M170	352	42
M170	1	3							Unknown model Badger	1	0
Unknown	12	0							Unknown Model Hersey	1	0
TOTALS	**27,999**	**2,070**		**548**	**97**		**242**	**40**		**355**	**42**
TABLE TOTAL	**31,393**										

There are six small meters where the size is unknown. Small meter candidates for retrofitting are age less than and equal to 5 years and are compatible with the AMI network. Final decision on any retrofits will be determine after contract award.

Table 4: FCWS Large Meters

Size	Count	Manuf	Model	Num Reg per meter	Replace or Retrofit
3"	3	Badger	Recordall I, Recordall II, Recordall Turbo II		Replace: 3
4"	42	Badger, Hersey	Recordall I, Recordall II, Recordall Turbo II, MFM II/MCT II	1-3	Replace: 42
6"	25	Badger	Recordall	1-3	Replace: 25
6"	7	Hersey	MFM II/MCT II	3	Replace: 7
6"	4	Master Meter	Octave	1	Retrofit: 4
8"	22	Hersey	MFM II/MCT II	2-3	Replace: 22
8"	16	Hersey	MFM II/MCT II	2-3	Replace: 16
8"	3	Master Meter	Octave	1	Retrofit: 3
8"	1	Badger	Recordall II Compound	2	Replace: 1
10"	1	Badger	Recordall	1	Replace: 1
			Total Large Meters	**124**	

Large meter candidates for retrofitting are age less than and equal to 8 years and are compatible with the AMI network. Final decision on any retrofits will be determined after contract award.

7. FCWS Information Technology Systems

Details about FCWS's existing utility system is listed in the table below.

Table 5: FCWS Information Technology Systems

Application	Product Name	Manufacturer	Version	Purpose/Description
Customer Information & Billing System	Munis Utility Billing CIS	Tyler	v19.1	Customer accounts, meter inventory, service orders
Geographic Information System	Arc GIS	Esri	v10.7.1	Map data and water network data
Customer Portal	Citizen Self Service	Tyler	v19.1	Customers can pay their utility bill via the existing portal. FCWS is evaluating as a part of this RFP options to expand self service capabilities to their utility customers

The reference architecture for the envisioned integrations is shown in the figure below.

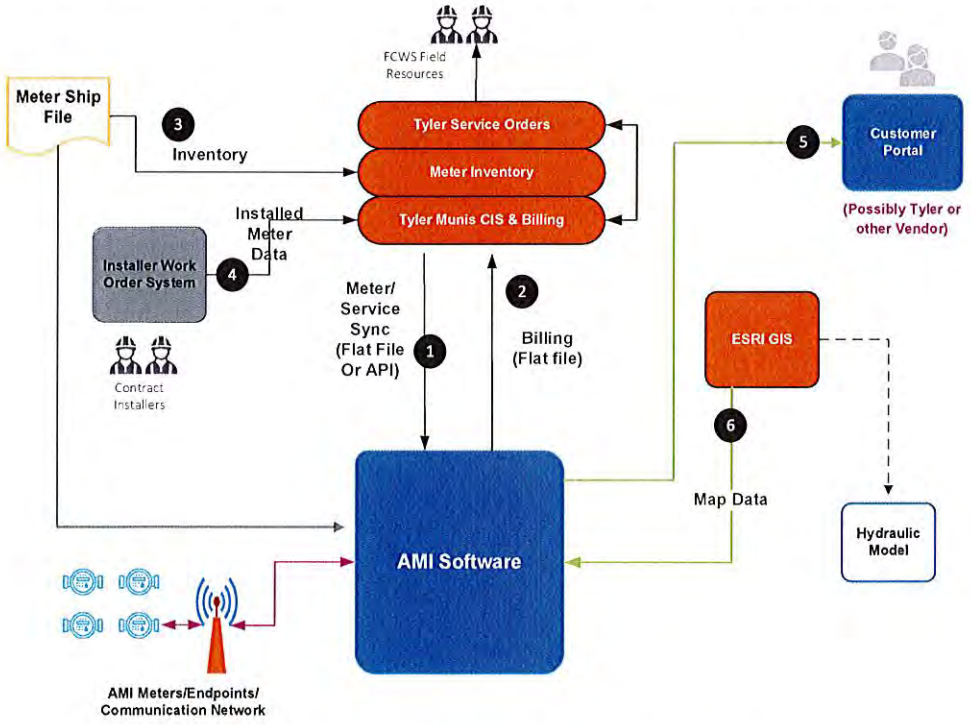


Figure 2: Integration Reference Architecture Schematic

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Integration summary by interface:

	Interface	Description	Purpose	Integration Approach
1	Meter/Service Sync	One way interface from Munis CIS and Billing to AMI Software	Munis CIS provide customer account information (meter and service) on a daily basis.	Flat file or API
2	Billing interface	One way interface from AMI Software to Munis CIS & Billing System	The billing interface provides a request and respond data flow for bill reads from the AMI system. This interface provides the most recent meter reads as requested by bill cycle.	Flat file
3	Inventory interface	Batch upload (preferably automated) of shipped meter information into Munis meter inventory (e.g., meter ID, make, model, size, type, etc.)	This batch upload of meter information will support FCWS with keeping their meter inventory data updated with minimal data entry.	Flat file
4	Installed meter data	One way interface from Installer's work order system to Munis CIS & Billing	This interface provides the complete meter exchange information to CIS (e.g., Meter ID, premise ID, Meter read, location (x,y), etc.)	Flat file
5	AMI Usage	One way interface from AMI Software to the Customer Portal	The web presentment interface provides water consumption (interval data) so that it can be presented to customers via the Portal	API
6	Map data	One way interface from Esri to AMI Software	The purpose of this interface is to provide GIS Data which includes base map information, meter location information, and other pertinent layers to support the AMI Administrator with troubleshooting issues	Flat file or API

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8. Attachments

Attachment A – Minimum Qualifications

Mandatory Minimum Qualification (PASS/FAIL)					
	The following requirements have been identified as mandatory minimums for this procurement. A no response to any of the following questions (**1 through 4**) may be deemed non-responsive and the Respondent will be removed from the evaluation process.				
1	The Respondent is an AMI Vendor or an Authorized Distributor for AMI Solutions and has been working in this business for more than five (5) years.	Yes		No	
2	The Respondent has successfully implemented three (3) water AMI solutions within the last eight (8) years for utilities with more than 30,000 minimum water service connections. Please refer to the References section to populate the number of water service connections.	Yes		No	
3	The Respondent is a U.S. Headquartered AMI Technology firm.	Yes		No	
4	The Respondent offers network-as-a-service AMI solutions commercially available for the last three (3) years.	Yes		No	

Attachment B - AMI System Requirements

a) Data Collection System

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
Instructions: Provide response to each requirement as applicable to proposed solution. If not applicable, state "Not applicable"					
(1)	Network Design – Min Performance Criteria	The proposed solution shall meet or exceed a minimum system performance as specified below: • Register Read per meter: 99.5% within a three (3) day period over thirty-five (35) days • Register Read per day: 97.5% of register reads received per day over thirty-five (35) days • Interval Data: 95% of all readings taken hourly within a three (3) day period over thirty-five (35) days • Redundancy: Two (2) Collectors per meter (2:1 redundancy) over thirty-five (35) days (+/-10%) for 100% of the endpoints • Coverage: 100% of meters are covered by the AMI Network • Two-way communications performance: ○ High priority actions (e.g., demand read): 98% successful. Indicate the expected time interval between the user's on-demand read request and the response.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		○ General reprogramming and configuration: 80% successful within one (1) day and 98% within three (3) days. ○ Firmware updates: 80% successful within seven (7) days and 98% within fourteen (14) days			
(2)	Network Design	Respondent shall provide a propagation study and network design that meets the Minimum System Performance requirements. See Requirement (1). Provide a summary of the propagation study results in one of the appendices in your Proposal.	Base		
(3)	Network Design	The Respondent will be allowed three (3) propagation study revisions after award and prior to final. After a final revision is agreed on by the Respondent and FCWS, the Respondent shall be responsible for all additional equipment and installation costs related to further revisions due to lack of coverage necessary to meet the minimum system performance metrics defined in Requirement (1).	Base		
(4)	Network Design	AMI Network shall operate on an FCC licensed or unlicensed frequency spectrum. Describe the frequency spectrum the proposed AMI network operates including advantages, disadvantages. Licensing costs shall be included in the pricing for the life of the solution.	Base		
(5)	Network Installation	Data collection equipment can be located at FCWS-owned facilities or non-FCWS owned locations. The Respondent shall be solely responsible for installation (including electric service and backhaul), site acquisition or use agreements and operations.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(6)	Network Installation	The Respondent shall be responsible for obtaining FCC licenses (as applicable). Frequencies shall be assigned to FCWS. Licenses must be obtained and assigned radio frequencies verified as suitable for use with the AMI system(s) before any AMI equipment is delivered to FCWS. All applicable AMI system components must comply with FCC regulations 47CFR §15.	Base		
(7)	Network Installation	The Respondent shall provide a data collector site construction plan (SCP) and final as-built drawings, including equipment list for each collector site. The SCP shall include physical diagrams/drawings, materials list, mounting equipment requirements, backhaul details, power connection requirements.	Base		
(8)	Network Life	The Respondent shall provide a network guarantee that the AMI system will operate and remain compatible with proposed meters and endpoints for a minimum of 15 years.	Base		
(9)	Data Collection Equipment	Collectors shall have battery backup with capacity to operate a minimum of 8 hours of continual operation in the event of AC power failure. Describe available battery backup options and expected life.	Base		
(10)	Data Collection Equipment	Collectors shall have the capability to be solar powered. If solar power is not an option, provide AC power requirement details.	Base		
(11)	Data Collection Equipment	Collectors shall have the capability for redundant backhaul. Describe capabilities for automated and manual switch-over and the options available.	Base		
(12)	Data Collection Equipment	Data collector system equipment shall be electrically isolated to protect against power surges or lightning strikes. Describe how this is accomplished.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(13)	Environmental Tolerances	All system components (MIUs, Data Collection Equipment, and appurtenances) shall operate over a temperature range of at least -30º F to 120º F, and a humidity range of at least 0% to 100% non-condensing.	Base		
(14)	Environmental Tolerances	All outdoor connections shall be weatherproofed to prevent water intrusion.	Base		
(15)	Data Collection Equipment	Proposed solution must support real-time flags for intrusion at AMI collector equipment sites. This may include, but is not limited to, door open alarms and data access alarms.	Base		
(16)	Data Transmissions – Accuracy & Validation	AMI system shall ensure data transmission accuracy via validation of retrieved data within the head-end. Describe how data transmission accuracy and data integrity is performed and measured.	Base		
(17)	Data Transmissions – Accuracy & Validation	The system shall have the capability to prevent loss of stored meter reading and meter alarm data.	Base		
(18)	Data transmission - Interference	AMI system shall include provisions to ensure immunity from outside (electromagnetic) interference as well as fading and other forms of signal degeneration or attenuation (such as multi-path fading), to prevent accidental loss or interception of customer or meter reading data.	Base		
(19)	Data Collector - Maintenance	Respondent shall provide maintenance services as part of the NaaS deployment. Describe the proposed maintenance services and frequency. Describe any requirements and interaction required from FCWS.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(20)	Data Collector – Repair services	Respondent shall provide diagnostic and repair services under the proposed deployment. Describe the repair services process from identification of problem to completion, expected response time, etc. Describe any interaction required from FCWS.	Base		

Data Collection System Questions

ID	Question	Response
Q1	Respondent will provide information on their RF design approach including information on the loss link budget, transmit power, receiver sensitivity, etc.	
Q2	Discuss coverage approach for hard-to-reach meters. For cellular solutions specifically, identify how Respondent will approach service areas without ubiquitous cellular coverage.	
Q2	Describe any smart utility or smart city devices and technologies that are supported under the proposed AMI Network.	

b) Meter Interface Unit (MIU)

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	MIU Type	The MIU shall provide secure two-way communication with authorized systems and	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		devices. Describe the type of RF technology proposed.			
(2)	Alarms/Alerts	MIU shall provide battery end-of-life indicator alarm providing a minimum of 1-year notice that battery is nearing the end of its useful life. Describe how and when alerts are received from proposed MIU.	Base		
(3)	Alarms/Alerts - Backflow	MIU shall have ability to indicate backflow or reverse flow. A timestamped flag or alarm shall indicate that backflow has occurred, even for low-volume events.	Base		
(4)	Alarms/Alerts – Encoder failure	The MIU shall send an alarm in the event of a meter encoder failure, loss of connectivity with the meter encoder, or persistent errors when trying to read the encoded register.	Base		
(5)	Alarms/Alerts - Leak	MIU shall provide automatic alarm for detection of leak (with adjustable trigger parameters). This will include the ability to detect potential on-premises leaks (downstream of meter) making use of low flow meter accuracy with enough reads per day to indicate "no zero flow hours" over a configured period.	Base		
(6)	Alarms/Alerts - Tamper	The MIU shall have security to prevent tampering as well as alerts to indicate potential tamper events. Tamper events shall be logged and timestamped. The MIU shall communicate tamper events to the AMI system as soon as they occur and trigger an alarm at the AMI head end. Meter tamper events shall be sent with a higher priority than normal status messages. Indications and information about the tamper event shall not be deleted or removed	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		from the MIU until they have successfully transferred to the headend over the AMI network.			
(7)	Alarms/Alerts – Time Sync	The MIU's clock must be capable of synchronization to the national time standard, without visiting the site. Accuracy of better than 30 seconds shall be maintained even if the connection to the AMI network is lost for up to 90 days. Alarms shall be provided should the MIU ever have a time correction exceeding 60 seconds.	Base		
(8)	Backfilling Reads	AMI system shall recover and retransmit missing reads from each endpoint to backfill missing interval data daily.	Base		
(9)	Device ID Number	Each MIU shall have a unique, permanent ID number that is transmitted with the meter readings.	Base		
(10)	Distribution Leak Detection	AMI system shall provide acoustic or pressure-based distribution system leak detection and to transmit this data via the AMI communications network to the control computer.	Base		
(11)	Environmental Tolerance	MIUs must operate in conditions subject to indefinite water submergence (i.e., meter pits/vaults).	Base		
(12)	Environmental Tolerance	MIUs shall be provided in waterproof casing rates IP8 or better (submersion up to 1 meter of depth) in accordance with IP code, IEC standard 60529.	Base		
(13)	Environmental Tolerance	MIU enclosure should be composed of ultraviolet (UV)-inhibiting ABS or similar material. All materials used in the MIU must be non-hazardous under normal conditions.	Base		
(14)	Firmware	Firmware management must meet the following requirements:	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		(1) MIU shall be able to accept and install software/firmware upgrades provided remotely in batch form via the AMI communications network. (2) MIU shall be able to accept and install software/firmware upgrades provided locally. (3) The utility can update and configure when appropriate. State how many over the air firmware upgrades have been released by Respondent in the past 10 years. State the impact on battery life of firmware upgrades.			
(15)	Interoperability	MIUs must be capable of accepting extended protocols for meter level alarms and over the air register communication from other manufacturers. Indicate which protocols MIU is compatible with. Please list manufacturers you are coordinating with for meter level alarm delivery.	Base		
(16)	Interoperability	The MIU shall be interoperable with other sensor technology such as leak sensors without a major impact on battery life. Provide information on life reduction of the batteries for such applications.	Base		
(17)	Interoperability	MIUs shall be compatible with pressure monitoring sensors. Provide details about other smart utility technologies that the proposed network supports.	Base		
(18)	Labeling	MIUs shall be permanently labeled with manufacturer's name, model number, owner name, a tamper warning, MIU identification number, required FCC labeling, input/output connections, and date of manufacture.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(19)	Labeling	MIUs shall be labeled with a bar code of the MIU identification number. The label shall be weatherproof and attached to the MIU where normal installation will not obscure it.	Base		
(20)	MIU - Cellular	The Respondent shall provide a solution that addresses possible challenges in cellular coverage for the MIU (as applicable) and for backhaul AMI communications.	Base		
(21)	MIU - Cellular	For cellular endpoints, the Respondent shall provide a solution that is resilient to cellular network upgrades throughout the life of the AMI solution.	Base		
(22)	MIU - Cellular	Respondent shall propose cellular service for all MIUs and backhaul for the Collectors through the life of the Contract.	Base		
(23)	MIU Installation	MIUs shall have the ability to transmit signals under composite pit lids or have MIUs that are mounted through the lid. Propose pit lid/covers that are compatible with the proposed AMI solution	Base		
(24)	MIU Installation	MIU cabling shall have flexibility in cabling length for non-standard installations (e.g., vaults).	Base		
(25)	MIU Installation	MIUs shall optionally provide multiple ports to handle dual-register meters or ancillary devices. Describe recommended approach for fitting MIU on compound meters.	Base		
(26)	MIU Operations	The MIU shall provide "wake up" mode operation (or equivalent) to maximize battery life.	Base		
(27)	MIU Operations	The MIU shall store interval meter reads for 90+ days with data integrity until overwritten (i.e., loss of network communications or in the case of disaster). These reading shall be available through	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		the AMI network or by some form of local reading connection. Describe methods to recover data stored and when capacity is exceeded and begins to overwrite old data.			
(28)	MIU Operations	The MIU shall capture consumption data on an hourly basis, at minimum, without impacting stated battery warranties.	Base		
(29)	MIU/Meter Compatibility	The proposed MIU model shall accommodate different meter register manufacturers. Describe how the MIU is made to accept different makes and models of encoder register, and clearly indicate if more than one MIU model is required.	Base		
(30)	Number of Digits	MIU shall transmit the same number of digits provided by the encoder register with no truncation of data.	Base		
(31)	Two-way Capabilities	MIU shall have capability to accept updates or changes to the configuration via the AMI network.	Base		
(32)	Two-way Capabilities	The MIU shall be remotely programmable to capture consumption data at a minimum on an hourly read interval without impact on the 20-year battery life and warranty.	Base		
(33)	Warranty	The MIU shall have a MIU failure rate (including battery failures) of less than 0.5% per year. Provide the failure rates (failures per year) for MIUs sold and installed for the last three years. Explain typical reason for failures for MIU. Indicate is there is a guaranteed maximum failure rate and provide contract language that provides a warranty for MIU failures.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(34)	Warranty	Warranty for the MIU including batteries must be 20 years with a 15-year full replacement and last 5-years prorated. Specify the proposed warranty and any exceptions to this requirement.	Base		

Meter Interface Unit (MIU) Questions

ID	Question	Response
Q1	Provide options on installing MIUs for large meters located in vaults. Indicate recommended approach.	
Q2	Describe the typical MIU operations and impact on battery life. (e.g., firmware update over the air, read rates less than hourly, number of on demand read in a given time period, any other two-way commands)	
Q3	Describe available options for collecting reads using a mobile solution in the event the fixed network is unable to collect and transmit data. Indicate any impact on expected battery life.	

c) Water Meters, Meter Box Covers, and Meter Box Equipment

c.1 Water Meters

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	General – Meter bid 3/4" – 2"	Respondent shall list the manufacturer(s) and model number(s) your firm is proposing and include specification sheets in the proposal submission. In your Price Proposal, • All ¾" – 1" meters shall be mechanical meters. Propose static meter as an alternative. • 1.5" and 2" meters shall be static meters. Propose mechanical meter as an alternative • 3" and larger meters shall be static meters	Base		
(2)	Meter bid 3" and larger meters	Respondent shall list the manufacturer(s) and model number(s) your firm is proposing and include specification sheets in the proposal submission. In your Price Proposal, • 3" and larger meters shall be static meters. Propose mechanical meter as an alternative if available.	Base		
(3)	General – All Mechanical Meters	All bronze main case meters shall comply with the American Water Works Association (AWWA) Standard C700 Latest Revisions "Cold-Water Meter –	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		Displacement Type, Bronze Main Case." Provide certifications.			
(4)	General – All Static Meters	All static meters shall comply with standards American Water Works Association AWWA C715 "Cold Water Meters – Electromagnetic and Ultrasonic type, for Revenue Applications," latest revision. Provide certifications.	Base		
(5)	General – All Meters	All meters shall be certified by the National Sanitation Foundation (NSF) to standard ANSI/NSF 61, Latest revision, "Drinking Water System Components – Health Effects." These meters shall bear the associated NSF mark on the outer cases. The requirements of the Safe Drinking Water Act shall also apply to these meters.	Base		
(6)	General – All Meters	All Revenue Meters shall sustain a working pressure of 150 psi. For meters intended for fire services applications, the working pressure shall be 175 psi.	Base		
(7)	General – All Meters	Meters shall sustain a maximum environmental temperature of 140° F	Base		
(8)	General – All Meters	Meters shall be supplied with energy using a non-replaceable battery. All batteries used in the meter shall have a 20-year or greater cycle life.	Base		
(9)	General – All Meters	Meters and meter parts shall have a protection classification of IP68.	Base		
(10)	General – All Meters	Meters shall have a minimum manufacturer/ technology provider warranty of ten (10) years for meters 3/4" to 1" in diameter and two (2) years for	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		meters from 1-1/2" to 8" in diameter, in precision, construction materials, and labor in all its parts.			
(11)	General – All Meters	All meters shall have a certification of accuracy. Each meter shall contain a label with information on the tolerances for each flow range which shall be greater than the one established in the applicable standard.	Base		
(12)	General – All Meters – Meter ID	The meter number shall be imprinted upon the register lid and on the meter body or register if register is permanently attached to meter body. Numbers will be numeric and nine (9) digits long.	Base		
(13)	General – All Meters - Barcodes	Individual meters shall be identified with a readable barcode sticker attached to the meter. The box for all ¾" to 2" meters shall have readable barcode attached to the outside giving the meter range contained within the box, i.e.: 100001-100009. Format for the barcode shall be Code 39, and the barcodes shall be clear, legible, scannable and represent the readable numeric code located beneath the barcode.	Base		
(14)	General – All Meters – Meter ship files	Each meter shall be individually factory tested and testing results supplied with an upload file for FCWS to upload the test results to its meter inventory system via a format provided by FCWS. Each meter shall have a sticker showing the accuracy test results at the three AWWA M6 test flow rates of each meter according to meter size and type.	Base		
(15)	General – All Meters, Registers	The register shall be straight reading type with test and low flow indicators and shall be constructed to register in gallons	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(16)	General – All Meters, Registers	Registers shall be capable of being located within a pit (underground) environment and submerged in water.	Base		
(17)	General – All Meters, Registers	All registers shall read in U.S. gallons. Register measurement shall be to the 1 gallon. Meter shall update the endpoint every 1 gallon.	Base		
(18)	General – All Meters, Registers	Encoded registers shall be compatible with a Nicor connector or similar type and shall be supplied with a 3 ft wire for small meters (3/4" – 2") and 5 ft. wire for large meters. The connector type will be determined by the chosen MIU vendor. Describe all options available with factory fully potted wires and connectors. Also describe options to extend the wire length if needed.	Base		
(19)	General – All Meters, Registers	Encoded registers shall have a minimum battery life of 20 years. It is recognized that failure of battery before 20 years may have a prorated replacement cost. Battery life remaining shall be displayed on the register.	Base		
(20)	General – All Meters, Registers	All registers shall have at minimum 9 digits. The 3/4", 1", 1.5", and 2" registers shall display a minimum of 99.999999 million gallons. It is preferred that FCWS be able to program digits in the field.	Base		
(21)	General – All Meters, Registers	Register shall clearly differentiate which values are being sent to the AMI system and the raw read (1 gallon).	Base		
(22)	General – All Meters, Registers	Registers digital numbers shall be easily distinguishable in low light environment from at least 5 ft. away.	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(23)	General – All Meters, Registers	The register lens shall resist breakage and scoring under standard operating conditions.	Base		
(24)	General – All Meters, Registers	The register/encoder programmer shall be capable of applying the same settings across multiple registers/encoders without requiring re-entry of the settings.	Base		
(25)	General – All Meters, Registers	Register shall be removable from the meter and must have a lid that covers/protects the register display.	Base		
(26)	General – All Meters, Registers	Registers shall offer support for remote programming of alarm and meter configurations through the Endpoint via 2-way communication. Describe any corresponding hardware requirements, and any efforts made to comply to open standards for cross-platform compatibility of this feature.	Base		
(27)	General – All Meters, Registers	The register shall support localized interval data history storage and retrieval for all available measurements (consumption, temperature, pressure, etc.), with configurable interval periods down to 5 minutes or less and a minimum storage capacity of 288 consecutive intervals. Describe the retrieval process.	Base		
(28)	General – All Meters, Registers	Registers shall be able to record and relay temperature and pressure measurements. Describe measurement accuracy and data transmission methods.	Optional		
(29)	General – Shutoff	Remotely actuated shutoff valves shall be integrated with the meter and support on-demand state changes and confirmation via Endpoint	Base		

<table>
<tr><th>ID</th><th>Sub-Area</th><th>Requirement Description</th><th>Type (Base/ Optional)</th><th>Compliance (Meets; Does Not Meet; Not Applicable)</th><th>Compliance Description</th></tr>
<tr><td></td><td></td><td>communications. Valve states shall include open, closed, and reduced flow. FCWS plans to use meters with integrated shutoff in limited quantities.</td><td></td><td></td><td></td></tr>
<tr><td>(30)</td><td>General – All Meters, Registers</td><td>The register shall offer empty pipe alarms and configurable thresholds for temperature and pressure high/low alarms.</td><td>Base</td><td></td><td></td></tr>
<tr><td>(31)</td><td>General – All Meters, Registers</td><td>The register shall provide configurable alarms for leak, broken pipe, reverse flow, and tamper conditions. Describe the parameters available for each alarm.</td><td>Base</td><td></td><td></td></tr>
<tr><td>(32)</td><td>Mechanical Meters - Operating Characteristics ¾" – 1"</td><td>Normal operating range accuracy shall be 100 +/- 1.5% at water temperature less than 80°F as shown below for all meter sizes:
<table>
<tr><th>SIZE (inches)</th><th>NORMAL FLOW RATE (gallons per minute)</th><th>ACCURACY (percentage)</th></tr>
<tr><td>¾"</td><td>2 - 30</td><td>98.5 – 101.5</td></tr>
<tr><td>1"</td><td>3 - 50</td><td>98.5 – 101.5</td></tr>
</table></td><td>Base</td><td></td><td></td></tr>
<tr><td>(33)</td><td>Mechanical Meters - Operating Characteristics ¾" – 1"</td><td>Minimum Flow Rate (at accuracy 95% -101%) at water temperature less than 80°F shall be as shown below for all meter sizes:</td><td>Base</td><td></td><td></td></tr>
</table>

<table>
<tr><th>ID</th><th>Sub-Area</th><th>Requirement Description</th><th>Type (Base/ Optional)</th><th>Compliance (Meets; Does Not Meet; Not Applicable)</th><th>Compliance Description</th></tr>
<tr><td></td><td></td><td><table><tr><th>SIZE
(inches)</th><th>MIN FLOW RATE
(gallons per minute)</th><th>ACCURACY
(percentage)</th></tr><tr><td>¾”</td><td>0.5</td><td>95 – 101.5</td></tr><tr><td>1”</td><td>0.75</td><td>95 – 101.5</td></tr></table></td><td></td><td></td><td></td></tr>
<tr><td>(34)</td><td>General – All Static Meters</td><td>Meters shall use solid state technology in a totally encapsulated, waterproof housing. Meter and register shall be a single unit with no moving parts in the flow path, however, meters with removable and replaceable electronics are allowable.</td><td>Base</td><td></td><td></td></tr>
<tr><td>(35)</td><td>General – All Static Meters</td><td>Metallic, polymer, or composite bodies or meter threads may be allowed. Bolts that attach the bottom plate to the meter case shall be stainless steel, as applicable. All nuts, washers, and bolts in meter and on meter body shall be stainless steel.</td><td>Base</td><td></td><td></td></tr>
<tr><td>(36)</td><td>Static meters - Operating Characteristics ¾” – 8”</td><td>Normal operating range at accuracy 100 +/- 1.5% at water temperature less than 80°F shall be at minimum as shown below for all meter sizes:<table><tr><th>SIZE
(inches)</th><th>NORMAL FLOW RATE
(gallons per minute)</th><th>ACCURACY
(percentage)</th></tr><tr><td>¾”</td><td>0.5 - 30</td><td>98.5 – 101.5</td></tr></table></td><td>Base</td><td></td><td></td></tr>
</table>

<table>
<tr><th>ID</th><th>Sub-Area</th><th>Requirement Description</th><th>Type (Base/ Optional)</th><th>Compliance (Meets; Does Not Meet; Not Applicable)</th><th>Compliance Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>1”</td><td>0.75 - 50</td><td>98.5 – 101.5</td></tr>
<tr><td>1.5”</td><td>2 - 100</td><td>98.5 – 101.5</td></tr>
<tr><td>2”</td><td>2.5 - 160</td><td>98.5 – 101.5</td></tr>
<tr><td>3”</td><td>7.5–350</td><td>98.5 – 101.5</td></tr>
<tr><td>4”</td><td>10–600</td><td>98.5 – 101.5</td></tr>
<tr><td>6”</td><td>20–1,350</td><td>98.5 – 101.5</td></tr>
<tr><td>8”</td><td>40–1,600</td><td>98.5 – 101.5</td></tr>
<tr><td>10”</td><td>150–4,500</td><td>98.5 – 101.5</td></tr>
</table>
</td><td></td><td></td><td></td></tr>
<tr><td>(37)</td><td>Static meters - Operating Characteristics ¾” – 10”</td><td>Minimum Flow Rate at water temperature less than 80°F shall be as shown below for all meter sizes:
<table>
<tr><th>SIZE (inches)</th><th>MIN FLOW RATE (gallons per minute)</th><th>ACCURACY (percentage)</th></tr>
<tr><td>¾”</td><td>0.15</td><td>98.5 – 105</td></tr>
<tr><td>1”</td><td>0.30</td><td>98.5 – 105</td></tr>
<tr><td>1.5”</td><td>0.60</td><td>98.5 – 105</td></tr>
<tr><td>2”</td><td>1</td><td>98.5 – 105</td></tr>
<tr><td>3”</td><td>2.5</td><td>98.5 – 105</td></tr>
</table>
</td><td>Base</td><td></td><td></td></tr>
</table>

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		4" 3.5 98.5 – 105 6" 9 98.5 – 105 8" 19 98.5 – 105 10" 50 98.5 – 105			
(38)	Large meters – Testing in service	All large meters (3" and greater) shall have test ports to test meter as needed. Describe if any equipment or additional piping is required to test large meters.	Base		
(39)	Warranty – All Meters	Manufacturer shall warrant materials and workmanship of all meters and meter parts to be free of defects for a period of twenty years after receipt of meters. FCWS understands components with batteries may have replacement costs prorated after year ten. Upon request by FCWS, the manufacturer shall submit a certificate and/or lab analysis on a shipment indicating the copper content and alloys in any bronze part of the meter to verify' compliance with these specifications.	Base		
(40)	Warranty – All Meters	Where meters fail to operate accordingly within the designated warranty period, the parts to replace such defects shall be supplied by the awarded Respondent without charge (piece for piece) upon the return of such defective parts to the awarded Respondent OR upon the proper proof of such defects. Where meters, or a portion thereof, shall be factory repaired, the awarded Respondent(s) shall assume all shipping charges, replace all defective parts, and make necessary repairs required to replace such	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		defective meters in suitable condition and return repaired meters at no cost to FCWS.			
(41)	Receiving Meter Shipments – Sample testing	Each meter shall be individually factory tested and testing results supplied with an upload file for FCWS to upload the test results to its meter inventory system via a format provided by FCWS. Each meter shall have a sticker showing the accuracy test results at the three AWWA M6 test flow rates of each meter according to meter size and type. Any meter failing to register accurately according to these test specifications shall be rejected and returned to the Respondent. Rejected meters shall be repaired or replaced by the Respondent at no cost to FCWS.	Base		
(42)	Receiving Meter Shipments – Sample testing	If more than 3% of any order placed fails to pass inspection and tests, FCWS reserves the right to reject the entire order.	Base		

c.2 Meter Box Covers and Meter Boxes

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Meter Box Covers	Meter pit covers shall be non-metallic and constructed of high-impact, no break approved polymer or composite. Proposed lid shall be approved by AMI vendor. Specify the covers proposed (brand, make, model, etc.)	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(2)	Meter Box Covers	Meter pit covers in areas not expected to be exposed to vehicular traffic shall be rated to withstand at least a 20,000-pound load, plus impact, as measured via testing in accordance with AASHTO M306 without any damage of permanent deformation.	Base		
(3)	Meter Box Covers	Meter pit covers in areas exposed to vehicular traffic shall be rated to withstand at least a 40,000-pound load, plus impact, as measured via testing in accordance with AASHTO M306 without any damage of permanent deformation	Base		
(4)	Meter Box Covers	Meter pit covers described in this specification come in a variety of shapes and sizes: • 10.5-inch rectangular • 12-inch rectangular – Standard size ¾" and 1" • 15-inch rectangular – Standard size 1-1/2" and 2" See Appendix 2 for specifications.	Base		
(5)	Meter Box Covers	The cover shall withstand a temperature range of -40-degree F to 190-degree F and shall be resistant to ultraviolet light degradation, corrosion, and be unaffected by rain or condensation, frost-proof, and compatible with rugged service and long life.	Base		
(6)	Meter Box Covers	All covers shall have a slip-resistant surface having a molded tread pattern for skid resistance	Base		
(7)	Meter Box Covers	Respondent to verify the fit of each cover size by field testing a sample lid to verify dimensions and compatibility with existing meter boxes	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(8)	Meter Box Covers – Labeling	Each meter pit lid shall have a generic label "Water" in its superior part of its body. The word shall be legible and shall be engraved permanently in the body of the cover.	Base		
(9)	Meter Box Covers – AMI	Each meter pit lid shall be furnished with a recess and hole to accommodate the selected AMI transmitter. Covers shall optionally be available with mounting brackets to facilitate under-the-cover installation of an MIU if that is the installation method preferred by the AMI vendor.	Base		
(10)	Meter Boxes	Meter boxes shall AMI ready for the proposed MIU and be equivalent to FCWS current meter boxes which are DFW Plastics DFW1200.12.1T. • Size: 12x17x12 (standard for ¾" and 1") • Size: 34-1/8x21-1/4x18 (standard 1-1/2" – 2") Product specifications for these meter boxes are included in Appendix 2	Base		

Water Meters, Meter Box Covers, and Meter Box Equipment Questions

ID	Question	Response
Q1	Do static meters need a test port? If so, how often do they need to be tested?	
Q2	What can malfunction with a static meter?	

ID	Question	Response
Q3	FCWS has some meter makes and types of various sizes that are less than 5 years old. Are retrofits (meter register and endpoint or endpoint only) an option for the proposed AMI solution? Describe or provide a recommendation. See Section 6 of the RFP for meter makes and types.	
Q4	Clearly indicate which pit lid types will require through the lid mounting vs. which can be under the lid. Provide a standard detail with a section view showing the elevation of the lid with respect to the antenna.	

d) AMI Software

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Integrations	Respondent will provide integrations with the Headend System (HES) to Tyler Munis – • Account / meter sync (1 way) - – this interface from CIS to HES will provide updated customer account information (meter and premise). Data includes meter details including but not limited to read channels, multipliers, etc.), Meter location, billing schedule, account details, customer contact information • Bill reads - this interface will provide a request and response data flow for billing determinants. Trigger upon request from FCWS billing specialist in MUNIS by bill	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		cycle. Bill read by premise / meter ID is provided from the HES to MUNIS. • Alarms/Alerts - leak and usage alerts for use in customer engagement processes.			
(2)	Integrations	Respondent will provide integrations with the HES to Customer Portal – • AMI Usage for customer portal presentment	Base		
(3)	Integrations	Respondent will provide integrations with the Head-end System (HES) to Esri Geographic Information System (GIS) • Key inbound data transfer to the HES include GIS and Asset data. This will enable the map visualizations in the HES for the AMI System administrator(s).	Base		
(4)	Integrations	Respondent will provide integration between the installer work order system and Tyler Munis CIS and Billing system for the transfer of installed meter data at a minimum daily.	Base		
(5)	Integrations	Respondent will ensure that the meter ship file provided by the meter manufacturer successfully integrates with the Tyler Munis or other vendor-maintained meter inventory database.	Base		
(6)	Data Retention	The AMI system shall provide the ability to set a data retention schedule. Describe the default data retention policies.	Base		
(7)	Capabilities	The headend shall be capable of requesting on-demand read and status inquiry of individual meter devices or defined groups of meters.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(8)	Capabilities	The headend shall be able to remotely upgrade meter, MIU, and collector software and firmware.	Base		
(9)	Capabilities	The headend shall monitor the performance of the AMI meters, collectors, and network. Describe how the system provides key diagnostics and statistics from all AMI meters, devices, and field communication network elements. Reports shall include (at a minimum) meter read status reports, event/transaction status reports, trouble reports, and meter additions/removals.	Base		
(10)	Capabilities	The headend shall support mapping capabilities to provide an intuitive view of all event alarms (at the meter, MIU, and collector level).	Base		
(11)	Capabilities	The headend system shall provide for regular time synchronization using the simple network time protocol (SNTP) or other means to keep the system clock accurate to at least 2.5 seconds.	Base		
(12)	Capabilities	AMI software shall provide the ability to gather time synchronized meter readings from a grouping of meters.	Base		
(13)	Capabilities	The headend shall support the ability to gather data including but not limited to equipment status, diagnostics, and event logs related to all the components (meter, MIU, collector, etc.) of the AMI solution.	Base		
(14)	Capabilities	The headend system shall be able to detect installation of new meters onto the communications network and shall also detect when existing AMI meters have been removed. This	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		information shall be available as a report that can be periodically produced.			
(15)	Capabilities	As meters self-register, the headend system shall initially place them into an unscheduled read group.	Base		
(16)	Capabilities	The headend system shall be able to remotely configure the meter's read interval.	Base		
(17)	Capabilities	The headend system shall be able to issue an on-demand read request initiated from authorized users.	Base		
(18)	Capabilities	The headend system shall collect and log all tamper detection events sent by meters (logged with event timestamp, tamper event type, and meter ID).	Base		
(19)	Capabilities	The headend system shall provide comprehensive remote testing and diagnostic capabilities for each system component (meters, MIUs, and backhaul communications) based on a (periodic) schedule or on demand. Remote testing and diagnostic alarm messages are to be considered high priority.	Base		
(20)	Capabilities	The headend system shall be able to remotely test meters for communication status, battery status, and flow status on-demand.	Base		
(21)	Capabilities	The headend system shall be able to remotely detect network communications problems, including loss of redundant communications pathways, diminishing signal strength, repeated delays in reporting, etc.	Base		
(22)	Capabilities	The headend system shall have configurable alert levels and notifications based on the severity of a problem detected and the number of endpoints affected.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(23)	Capabilities	The headend system shall be configurable to allow it to classify specific testing/diagnostic results as either requiring or not requiring human intervention in the determination of issuing trouble reports.	Base		
(24)	Capabilities	The headend system shall have the ability to identify the probable cause of a communications failure within the AMI system (i.e., bad cable, failed MIU, backhaul issues, etc.).	Base		
(25)	Capabilities	The headend system shall provide mechanisms for remotely correcting system/component problems, which at a minimum shall include the ability to remotely reset (or restart) a component.	Base		
(26)	Capabilities	The headend system will detect incompatible hardware/software (firmware) combinations between meters, MIUs, collectors, and the headend itself.	Base		
(27)	Capabilities	The headend system will collect all interval data and logs from premises and communications network components at a configurable frequency (at least once per day). Provide details on how many times per day reads are transmitted and how many hours of interval data are transmitted per occurrence.	Base		
(28)	Capabilities	The headend system shall have the ability to remotely configure (set/update/cancel) each meter's default read interval for a specified or ongoing duration (for all AMI meters).	Base		
(29)	Capabilities	The headend system shall have the ability configure the read interval for individual meters or a selected group of MIUs. Describe this process to set a new	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		meter reading interval and if there is an automatic reset to the default setting.			
(30)	Capabilities	The headend system shall have a default transmitting interval for MIU readings. Describe the default transmission interval and the user's ability to change and reset the transmission interval. Indicate any impact of battery life.	Base		
(31)	Capabilities	The headend system shall successfully collect interval and all log data for previous day (midnight to midnight)	Base		
(32)	Capabilities	The headend system shall be able to issue a re-read request for all meters that have failed to report their default read (e.g., in mass on demand read) for up to 10% of total AMI meter population.	Base		
(33)	Capabilities	The headend system shall be able to handle various types of events and device health messages (e.g., low battery, tampering, leak, etc.). Respondent shall provide a list all events/alarms supported for relevant meter manufacturers. Note all available alarms, and which alarms are available based on FCWS' existing meter population.	Base		
(34)	Capabilities	AMI system shall allow meters to be grouped into multiple different configurable groups for meter reading and data analysis. Examples of groups include routes, customer types, billing cycle, pressure districts, and geographic areas. This management can occur in multiple software applications but must be thoroughly described here. Grouping must be able to manage in the User Interface, including adding and removing meters	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		from the group. Automation of group creation by designated field(s) is preferred.			
(35)	Capabilities	AMI system shall provide the ability to gather time synchronized meter readings from a grouping of meters.	Base		
(36)	Capabilities	AMI System shall provide the ability to create a virtual meter from a grouping of meters. Virtual Meters should sum the consumption of interval reads for a grouping of meters and present the total consumption in a report for each interval period. Virtual Meters must be able to managed in the User Interface, including adding and removing meters from the group. Automation of group creation by designated field(s) is preferred.	Base		
(37)	Architecture	The headend system shall have an overall architecture and system design that is sufficiently distributed so that no single point of failure causes a system performance degradation so severe that the system no longer serves its intended purpose.	Base		
(38)	Reporting and Analytics	AMI system shall have standard reports that can be run on demand or scheduled and distributed via email or saved to a SharePoint site/Network drive. Provide a list with brief descriptions and report purpose. Include screenshots in an appendix of the submitted proposal.	Base		
(39)	Reporting and Analytics	FCWS users shall have the capability to exports standard reports in standard CSV format.	Base		
(40)	Reporting and Analytics	AMI system shall indicate when there is an extended period of no flow through the meter, or	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		an unusually low consumption over a regular reading interval			
(41)	Reporting and Analytics	The software shall be able to create user-defined account groups and aggregate consumption profiles.	Base		
(42)	Reporting and Analytics	The system shall flag and report any unauthorized usage, if the customer account record indicates that service has been shut off.	Base		
(43)	Reporting and Analytics	System shall alert possible continuous high consumption events at individual customers' premises.	Base		
(44)	Reporting and Analytics	System shall monitor for usage on inactive accounts, consisting of registered reads above configurable thresholds without an active customer account.	Base		
(45)	Reporting and Analytics	Identification of accounts where usage violates temporary restrictions (e.g., apparent outdoor irrigation usage during non-allowed times or days)	Base		
(46)	Reporting and Analytics	The headend system shall be able to run reports on a predefined schedule and distribute by email or saved to a designated network drive.	Base		
(47)	Reporting and Analytics	The headend system shall have adhoc reporting capabilities for users to create their own reports. Provide details on reporting flexibility.	Base		

	Question	Response
Q1	Describe the steps a user performs to obtain meter readings using the AMI Software and prepare to send to the Billing system. Provide a flow diagram and screenshots to illustrate how this process works.	
Q2	Describe the key activities and processes required to proper maintain and administer the AMI system. Provide a flow diagram and screenshots to illustrate the key tasks.	
Q3	Does the AMI Headend have any user configurable dashboard capabilities? Please describe.	
Q4	Does the AMI Headend have any meter data management capabilities to support the billing process, such as verification, estimation, editing (VEE)? Please describe.	
Q5	Describe how the data in the AMI Headend can be used to right size meters? Are there data analytics helpful for this use case? Please describe.	
Q6	Describe how AMI usage is "cleaned" prior to sending AMI usage to a customer portal for web presentment.	
Q7	Describe any water analytics offerings that provides long term data storage	

e) Customer Portal

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Architecture	The system web applications shall follow responsive design practices to dynamically organize content to best suit the users form-factor (mobile, tablet, and desktop at minimum).	Base		
(2)	Architecture	Customer portal shall provide the ability to be branded with FCWS' name and logo in the mobile			

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		application, web portal, mobilized application, and knowledgebase.			
(3)	Architecture	Customer portal application shall be capable of being integrated into the County's website for a seamless customer experience.			
(4)	Architecture	The system shall be accessible to customers using commercially available web browsers. Provide details on supported browsers including versions.			
(5)	Deployment	The Customer portal shall be a hosted solution from data centers located in the continental US.	Base		
(6)	Capabilities	Customer portal to provide a dashboard so customers to get a quick view of their current bill, daily usage, notifications, recommendations to conserve, etc.	Base		
(7)	Capabilities	Customer portal shall display interval usage information in user friendly, user selected graphs and tables. Consumption graphs to be presented in hourly, daily, or monthly usage for a default period of time or a user defined period of time.	Base		
(8)	Capabilities	Customer portal shall provide the capability to download or export AMI usage data to csv format.	Base		
(9)	Capabilities	Customer portal shall provide an analysis of a customer's bill to help understand a high bill	Base		
(10)	Capabilities	Customer portal shall provide the capability for customers to integrate an online bill pay service, view current balance and due date, view their current and previous bills in PDF, submit a customer service request (new account, turn on / turn off, etc.), and update customer account information.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(11)	Capabilities	Customer portal shall provide customers the ability to enroll in customer service programs such as autopay, budget billing, paperless billing, etc.	Base		
(12)	Capabilities	Customer portal shall provide customer the ability to analyze their water consumption behaviors and identify opportunities to conserve.	Base		
(13)	Capabilities - Security	Customer portal shall require customers to setup an account using configurable password criteria based on the County's security requirements.	Base		
(14)	Capabilities - Security	Customer portal shall be accessible by a customer from the County's website or e-billing page. Describe to what extent the proposed portal solution can accept existing authentication tokens from another system.			
(15)	Capabilities - Security	Customer portal shall allow customer to retrieve, or re-set forgotten username and password. Additionally, the portal shall provide a County user to help a customer manage a forgotten username and password. Describe capabilities.			
(16)	Capabilities	End Customer notification from the Customer Portal must include user-configurable threshold alerts based on meter consumption data and forecasted bill	Base		
(17)	Capabilities	End Customer accounts must be able to have access to more than one meter under one account. Additionally, if a customer's meter has more than one register, the system shall be able to aggregate the consumptions into a single view with proper multipliers.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(18)	Capabilities	Customer portal shall have the capability to provide End Customer with notifications of high and unusual patterns of water consumption.	Base		
(19)	Capabilities	Customers shall be able to enroll in consumption alerts or bill alerts for multiple per an account (e.g., multiple emails, texts, SMS)	Base		
(20)	Capabilities	Customers shall be able to view and analyze customer analytics such as consumption this month compared to any previous month or previous year	Base		
(21)	Capabilities	Customer portal shall provide tools and information for a CSR to respond to customer questions regarding a high bill. The view of the portal information should look similar to what the customer is seeing from their log in.	Base		

Customer Portal Questions

ID	Question	Response
Q1	Does the proposed portal have a mobile app? Describe capabilities.	

f) Portable Interrogation, Field Programming and Testing Devices

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Mobile reading options	System shall be capable of reading meters in walk by, mobile drive by or via AMI network.	Base		
(2)	Bar Code Reader	The handheld field data collection unit shall contain an integral optical character reader or other device or function to capture meter and MIU numbers from bar codes or other machine-readable information contained attached to the units.	Base		
(3)	Handheld Operations	The handheld shall have the ability to temporarily disable encryption on the endpoint without intervention from the head end for maintenance and configuration. Describe how this is accomplished.	Base		
(4)	Handheld Operations	The handheld shall be capable of reading and downloading data from the MIUs.	Base		
(5)	Handheld Operations	The handheld shall be capable of programming the MIU with any information required for operation and not pre-programmed at the factory. It shall be capable of providing instructions to the MIU concerning the make, model and data protocol of the meter being connected, should the MIU not be able to determine this itself.	Base		
(6)	Handheld Operations	The handheld unit shall be able to program a programmable meter register. Describe how this is accomplished.	Base		
(7)	Handheld Operations	The handheld unit shall remotely be able to locate and diagnose problems with a meter	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		register or MIU unless the system incorporates an alternate way to make such diagnoses. Please describe.			
(8)	Handheld Operations	The handheld unit shall be able to ascertain the condition or remaining life of the battery in an MIU.	Base		
(9)	Handheld Operations	The handheld unit shall collect GPS coordinates at time of installation. These coordinates shall be stored for export to other systems; describe this functionality and how this will get to the FCWS' systems.	Base		
(10)	Handheld Operations	All handheld units shall ensure against accidental data loss in case of a dead battery. Please describe.	Base		
(11)	Handheld Operations	The programming/installation field tool shall provide immediate feedback of MIU programming success and signal strength to the network. Describe how this works and how long this takes.	Base		
(12)	Handheld Operations	Field applications shall be made available in Android, iOS, or Windows compatible installers for use with the utility's own hardware. Describe supported platforms and hardware requirements if so.	Base		
(13)	Handheld Operations	Programming field tools shall support cellular and/or wireless connectivity.	Base		
(14)	Handheld Operations	The field tool shall retain a log or have the capability to export programming and read history in a common format. Describe the format(s) available, the fields	Base		

ID	Sub-Area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		they record, and the methods of transferring this data to other devices.			
(15)	Warranty	All field tools, including handhelds and mobile collection devices, shall be covered by a warranty. List the warranty period and for proposed field tools, including handheld and mobile collection devices (if they differ). In the event of warranty claim, are devices replaced or repaired, and are loaner units provided at no charge?	Base		

Portable Interrogation, Field Programming and Testing Devices Questions

ID	Question	Response
Q1	If respondent's AMI System can support additional applications beyond metering such as smart utility and smart city IoT sensors and devices, provide details on other IoT product offerings that are interoperable under the proposed network. Include pricing in the pricing templates.	

FAYETTE County Water

Attachment C - Project Implementation Services (Proj. Mgmt, Integration, Testing & Training)

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Account Management	Respondent shall assign an Account Representative to be a main point of contact for products and services provided under a contract.	Base		
(2)	Project Start	Respondent shall conduct a project kickoff within 30 days of Notice to Proceed.			
(3)	Project Management	Respondent will provide the following key roles to the Project. • Project Manager • Network Design Lead • Integration Lead • Installation Lead The project manager shall travel to Fayette County on an as-needed basis. In the proposal, include a project organization chart and bios for each of these key roles.	Base		
(4)	Project Management	Project schedule shall be developed and maintained in MS Project.	Base		
(5)	Project Management	Project manager shall issue weekly/biweekly project status reports to include schedule, summary of work completed, work in progress, issue log, key dates, etc.	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(6)	Project Management	Project manager and leads (Key Roles) shall participate in key team meetings which includes core team meetings, executive sponsor meetings and project management meetings.	Base		
(7)	Project Management	Respondent must receive FCWS approval regarding any changes in the project manager and other key project team roles.	Base		
(8)	Project Management	FCWS may, at its sole discretion, request a change in project manager or other key project team roles.	Base		
(9)	Project Management	Project Manager shall manage the work for the Respondent's implementation team including subcontractors.	Base		
(10)	Integration Services	Respondent will manage all system integration activities within the contracted scope of work.	Base		
(11)	Integration Services	Respondent will participate in discussions (throughout the AMI Implementation project lifecycle) with Tyler Munis (Customer Information System) about FCWS integration needs. FCWS will make sure Tyler Munis resources are part of these discussions.	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(12)	Integration Services	Respondent will provide integration design documentation for FCWS review prior to integration development work commencing.	Base		
(13)	Integration Services	Respondent shall provide warranties and guarantees for integrations with the effective end date of the warranty to be a period that will include one year after completion of system acceptance	Base		
(14)	Training	Respondent shall provide training on installation, service, replacement, and repair procedures for equipment provided (e.g., meters, MIUs, network devices).	Base		
(15)	Training	Respondent shall provide role-based training for roles within FCWS' organization that will be impacted by the AMI solution. These roles include field operations, CSRs, and meter technicians. Training for an AMI Lead Admin role and managers and supervisors must be included as well.	Base		
(16)	Training	Respondent shall provide management training for administrative and other personnel who will be responsible for defining	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		and maintaining the system's configurable parameters.			
(17)	Training	Respondent shall provide training on the HES and corresponding reports.	Base		
(18)	Training	Respondent shall make training material available to FCWS for internal training or retraining of employees. This material shall be kept current as SaaS as other parts of the overall AMI solution evolve.	Base		
(19)	Training	Respondent shall provide software installation and maintenance documentation, including product release notes; Respondent's third-party software configuration requirements; database install; product installation and configuration steps; transaction entry procedures, batch job setup requirements.	Base		
(20)	Training	The Respondent shall provide trainees' workbooks, training aids (including software and video), quick reference sheets, and system technical manuals prior to or during the training session at no additional cost. All curriculum, presentations and other training materials shall be left with FCWS staff to aid in training	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		future staff that will be working with the system.			
(21)	Training	The Respondent shall provide train-the-trainer training and indicate if this training is an additional cost.	Base		
(22)	Endpoint acceptance	Respondent shall ensure endpoint acceptance testing must include demonstrated success of the following, at minimum, for each endpoint: Two (2) consecutive days of daily register reads received via the network, accurate identifiers and reading values, and matching work order data supplied via installation files in an agreed upon format. The Respondent is responsible to investigate and resolve any endpoints that fail testing, after which the endpoints shall be re-tested. FCWS is only responsible for payment of installation services and hardware on successfully tested endpoints.	Base		
(23)	Endpoint acceptance	Respondent shall ensure that only endpoints that have passed Endpoint Acceptance testing may be included in subsequent System Acceptance testing.	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(24)	Endpoint acceptance	Respondent will provide any necessary tools and equipment necessary to support testing.	Base		
(25)	Endpoint acceptance	Any tuning or optimization of the network identified during the project or during testing shall be completed before FCWS' acceptance.	Base		
(26)	Test Planning	Respondent will develop all test plans, provide test scripts and scenarios for all testing cycles which includes end-to-end integration testing, functional testing, user acceptance testing and system acceptance testing.	Base		
(27)	System Acceptance	The AMI System shall be tested and approved using a user acceptance test. The acceptance test shall validate the meters, MIUs, collectors, backhaul network, software and interfaces are setup correctly and there are no major deficiencies that will result in incorrect information being passed to the FCWS billing system or customers.	Base		

Project Implementation Services Questions

ID	Question	Response
Q1	Describe the process to determine if and where additional equipment will need to be located if the minimum performance requirements are not met. Describe when, during implementation, mitigation will begin if areas of low coverage are discovered.	
Q2	Describe the services to install, activate and provision network devices. Include details on what Support is needed by FCWS staff to complete the network deployment.	
Q3	List which testing/implementation activities Respondent will be on-site and the reasoning behind such a decision.	
Q4	Please explain how Respondent will approach knowledge transfer across all software configuration, integration, and any other technical documentation.	

Attachment D - Meter Installation Services

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	General	The Respondent shall provide installation project management and work closely with the overall project manager and with FCWS. Installation effort shall include: a. Meter and MIU installation project management b. Field supervision of installers hired for this project c. Meter and service line repairs (as authorized)	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		d. Claim/complaint management from the Owner's customers e. Safety programming to ensure safe installation practices and safety incident reporting f. Call Center services g. Field mitigation of all non-communication meters and endpoint during the installation period, defined as prior to the final system acceptance.			
(2)	General – Federal funding compliant	Respondent shall comply with requirements for using Federal Government funding and State of Georgia's General Decision Number GA20210131 – Department of Labor Wage Determination. See Appendix 1 (b) and 1 (c). Provide exceptions to these terms and conditions.	Base		
(3)	General	Installation contractor shall be a licensed utility contractor with the state of Georgia.	Base		
(4)	General	Respondent will develop a field deployment plan that includes but not limited to the installation plan details, mobilization, RTU procedures, claims processes, and inventory management for the complete project.	Base		
(5)	General	Respondent shall have a process that allows for electronically collecting and entering data such as equipment ID numbers as well as data quality control and backup processes.	Base		
(6)	General	The FCWS reserves the option to install system components using FCWS staff, including but	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		not limited to meters, MIUs, and other related system equipment. Installations done by others do not relieve the Respondent from warranting the equipment and/or system performance.			
(7)	General – installation hours	Installation effort shall align with FCWS work hours which are Monday through Friday, 8 am – 5 pm EST during the months of Nov through Mar. For the months April through October, work hours are Monday through Friday, 8 am – 6 pm EST. Saturday's 9 – 4 pm can be available if installation is behind. FCWS holidays excluded. Describe if there are allowances for expanded hours in case the installation effort falls behind.	Base		
(8)	General - staffing	Respondent will staff installation team with qualified supervisors and field technicians. Describe how your supervisors and technicians are trained and how the quality of their work is managed.	Base		
(9)	General - Staffing	Supervisors shall be certified water distribution operators			
(10)	Installation monitoring	Respondent will provide a dashboard that provides a daily snapshot of project progress, network installation counts, and important issues.	Base		
(11)	Warehouse/Office space	Respondent shall provide a resource to who is responsible for managing meter inventory and handle all aspects of the meter inventory (new and old meters) and ensure installers have	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		adequate supply of meters for installers. Describe how meter inventory will be managed.			
(12)	Warehouse/Office space	The Respondent will maintain at least one insured, staffed office, and warehouse within Fayette County.	Base		
(13)	Warehouse/Office space	The Respondent will ship endpoints and meters to the Respondent's warehouse prior to installation. FCWS will take ownership of equipment and provide payment for equipment and installation only after the installation successfully passes Endpoint Acceptance Testing.	Base		
(14)	Warehouse/Office space – Random Sample testing	The Respondent shall have a meter testing bench to perform random sample testing to approve meters received in the warehouse. Upon completion of the deployment, the ownership of the meter testing equipment will transfer to FCWS (see requirement 15 below). Describe the process of random sample testing.	Base		
(15)	Warehouse/Office space – Random Sample testing	Meter testing bench shall be able to test multiple meters at the same time. Up to 5 meters at the same time. Describe the meter test bench proposed and provide pricing using the pricing template.	Base		
(16)	Warehouse/Office space	Respondent will store removed meters for a minimum of 90 days. While stored by Installation Respondent, they must be organized such that a meter can be retrieved if a final read is questioned.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		Describe method for managing and indexing the old meter inventory.			
(17)	Warehouse/Office space	The Respondent will provide and maintain an onsite supply of consumables needed for meter installations (such as wire/cables, wire connectors, washers, gaskets, flange kits, and bolts).	Base		
(18)	Warehouse/Office space	The Respondent's warehouse shall have adequate space to store network equipment during the project deployment (if applicable)			
(19)	Background checks	The Respondent will conduct background checks for staff that meets FCWS requirements. At the minimum, the following background checks shall be completed on all installation contractor and subcontractor resources: • Georgia State Repository Search • Nationwide Database Search • Motor Vehicle Report • Social Security Trace • Other state repositories - if reside within other states in the last 10 years The Respondent will not employ any installer who fails these checks. FCWS reserves the option to review all background checks or request background check verification prior to any contract resource starting work on FCWS projects.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(20)	PPE and Uniforms	Respondent will provide PPE, installer uniforms, identification badges, vehicle signage, etc.	Base		
(21)	Installation approach	The Respondent will have a methodology to perform installations geographically and ensure saturation goals by route/bill cycle.	Base		
(22)	Field Deployment System	Respondent will provide a field deployment management (FDM) system that ensures the successful and verifiable/validated installation of water meters and appurtenances, sensors, MIUs, and equipment. Describe the capabilities that the installation FDM has.	Base		
(23)	Field Deployment System	Integrate with the Tyler Munis CIS system for customer account data, meter inventory data, and post-installation data. Customer account and meter inventory data require weekly updates, at a minimum. Describe how these systems will be integrated.	Base		
(24)	Field Deployment System	Configurable workflow that meets FCWS' installation procedures	Base		
(25)	Field Deployment System	Manage blackout dates (3 days before bill date and 2 days after bill date)	Base		
(26)	Field Deployment System	FDM will status installs with configurable statuses (installed, escalated to utility, meter/service repair, etc.)	Base		
(27)	Field Deployment System	The FDM will manage meter inventory and other AMI equipment, including has a concept	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		of quarantine, check in and check out, and help determine reorder points			
(28)	Field Deployment System	The FDM will track scheduled customer communications. This should include time and method of communication as well as the message communicated.	Base		
(29)	Field Deployment System	The post-installation data feed to the FCWS' Tyler Munis CIS will be daily, at a minimum.	Base		
(30)	Field Deployment System	The FDM will provide custom reporting or data exports for monitoring and tracking the installation effort	Base		
(31)	Field Deployment System	FCWS project team members or their representatives will be able to access the FDM system directly for monitoring real-time installation progress (daily, weekly, monthly) and to run reports.	Base		
(32)	Field Deployment System	Each work order must include at a minimum, the customer's address; premise account number; meter location; meter access notes; designation of replacement or retrofit; existing meter and register numbers; meter make, model, and size; most recent meter reading; geo-positioning coordinates; MIU ID number; MIU location; new meter number; and new reading. FCWS desires that all FDM work orders be electronic.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		Identify (pre-installation) Work Order form format and field list.			
(33)	Field Deployment System	Completed electronic work orders will include, at a minimum: meter size and meter type, verification or correction of existing meter and account information, materials of construction for upstream and downstream service connections, old meter serial number, final reading on old meter, new meter number, new meter register number, premise ID number, MIU ID number, reading on new meter register, date and time of installation, name of installer, notice of any problems encountered or repairs made, updated customer contact information, and links to digital photographs. All information on the completed electronic work order must be filled out and validated using the Respondent's quality control process for the installation to be considered complete and eligible for payment. A validated electronic copy of all the work order information must be available via integration with the FCWS' information systems and via reports self-generated from the FDM	Base		
(34)	Call Center	Respondent will provide call center services for scheduling appointments. Describe in detail the proposed call center services, methods/options for arranging appointments,	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		location of call centers, hours of operation, etc.			
(35)	Customer Communications	The Respondent shall provide customer communication and door hangers for each install or attempted install. At the minimum, propose the following. All communications shall be available in English and Spanish. - Post card by mail one (1) month in advance with information about the impending meter exchange - Post card by mail or door hanger two (2) weeks in advance with details on how to arrange for an appointment - Door Hangers - Install complete/not complete. Installer shall ring the doorbell or knock on the door after leaving the door hanger. Provide recommended timeline and approach for customer communications for this project.	Base		
(36)	Appointments	Call center will be required to schedule appointments. Is online appointment scheduling available?	Base		
(37)	Installation	Respondent will capture photos as agreed upon such as installation before and after complete.	Base		
(38)	Installation	Installer shall complete meter exchange or register and MIU retrofit for meters that will not be replaced. Describe best practices for retrofits of existing meters. Estimated quantities for full replacement and retrofits are provided in the pricing template.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(39)	Installation	Once the Meter site has been located, the Installer will assess if the Meter is accessible, or permanently or temporarily inaccessible. Permanently inaccessible means instances where buildings have been torn down and the Meter no longer exists or where accessibility to the Meter cannot be gained during the estimated project timeline, etc. Where a Meter is found to be permanently inaccessible the Installer shall classify it as a Task (RTU). The Installation Subcontractor will provide a picture and comments describing the issue and a recommended resolution. Temporarily inaccessible means where Meters have been enclosed by the customer (built in, built around, in closets, under split level stairways, etc.) that cannot be accessed at the time of appointment. Where a Meter is temporarily inaccessible, the Installer shall leave a door hanger outlining what the property owner must to do to resolve the issue and requests that the customer book an appointment once the issue has been resolved. The Respondent shall finish all contact attempts prior to returning the installation work order to FCWS. Elaborate on process for temporarily and permanently inaccessible Meters.	Base		
(40)	Installation	Where there is damage that will prevent safe installation and/or operation, or there is an existing safety hazard, the Installation	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		Subcontractor shall engage their appropriate licensed technician to resolve the condition. Explain Escalation Policy for engaging to licensed technician.			
(41)	Installation	Prior to starting the workflow, the Installer will verify work can be completed. Prior to starting an installation, each Meter site should be checked for damage or conditions that would prevent a successful installation. Explain checks performed prior to Installation workflow.	Base		
(42)	Installation - Lead	Installer shall verify the materials of construction of upstream and downstream service connections prior to performing a meter replacement. Installer shall confirm via use of magnet test or other suitable detection method that neither the upstream or downstream service connection is constructed of lead. If a lead service connection is detected, Installer shall not proceed with the meter replacement and shall notify the FCWS Project Manager.	Base		
(43)	Installation	Onsite Meter ID's will be used to confirm correct location by inputting Meter number to match with found Meter ID in the Meter exchange file from CIS. Discrepancies should be reported to FCWS office team and installation should not proceed unless directed by FCWS. Please explain.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(44)	Installation	Register readings will be manually entered into the Installer's handheld for verification. FCWS prefers that a comparison be automatically applied against a previous read with a flagging function to warn the installer to double-check entries which would result in excessively high or low consumption. Does your data collection application allow for this functionality?	Base		
(45)	Installation	The Meter ID's and Endpoint serial numbers are to be collected via barcode scanning for accuracy. Confirm your Installers will have barcode scanners. Please explain.	Base		
(46)	Installation	The Installer will collect images that clearly show all readings for all displayed registers on both the old and new meters. The Installer will collect images clearly displaying the Meter ID's and Transmitter Serial Numbers on all newly installed components. Describe image collection process.	Base		
(47)	Installation	At every meter, a Latitude and Longitude, needs to be collected at a sub foot accuracy. Points that are erroneous will have to be retaken in the field. Describe your procedure to collect and store the points, as well as what devices will be used.	Base		
(48)	Installation	The Installer will install the Meter and Endpoint in accordance with AMI Provider Documentation, FCWS meter installation	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		requirements and Training. Please explain.			
(49)	Installation	Upon completion of each installation, the Installer shall perform a test read of the new Meter Register through the Endpoint verifying successful communication between the register and the Endpoint with an accurate reading. Describe test read process.	Base		
(50)	Installation	Every endpoint installed must be checked to be sure that it is communicating on the AMI network. At each installation the installer must collect the signal strength on the network. Describe process for checking the endpoint signal strength and how the data will be collected.	Base		
(51)	Installation	The installation team will make a minimum of three attempts to change a Meter before returning the job back to FCWS. All attempts will be recorded in the handheld and identified in a report to FCWS. Following these attempts, the Installation Subcontractor will work with FCWS on one final attempt to gain access to the Meter site. Please explain.	Base		
(52)	Installation	If a newly installed Endpoint is unable to complete the communication, Installer will repeat installation with a different new Endpoint and attempt test read with a second handheld before assigning components for	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		RMA or a site for RTU. Describe process for handling questionable or defective new product?			
(53)	Installation – Endpoint Acceptance	Meter equipment and labor for meter installation will be invoice only after an endpoint acceptance process is completed and verified. Endpoint acceptance will occur monthly. See Attachment C, Requirements #21 – 25.	Base		
(54)	Installation – QA/QC	FCWS requires 5% of installations (sample group must include at least 5% of each are reviewed to assure Quality of work. QA/QC plan should include field visits and random audits. Describe your Quality Assurance/Quality Control program and metrics.	Base		
(55)	Other work at the premise	The installer shall collect information to support the survey for the Lead and Copper Rule. The inlet and outlet service piping and fittings shall be inspected for material identification. Data shall be captured and provided to FCWS daily. Describe recommended approach to accomplish this task and itemize this cost in the pricing forms.	Base		
(56)	Other work at the premise	The installer shall replace all dual check valves and install a check valve if the meter service does not have an existing check valve. Provide the specifications for the proposed check valves.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(57)	Other work at the premise	The installer shall replace shutoffs if shutoff valve fails to close or open. Provide the specifications for the proposed shutoff valves.	Base		
(58)	Other work at the premise	The installer shall replace the meter box if meter box is in poor condition.	Base		
(59)	Other work at the premise	The installer shall replace all metallic meter box covers with new composite covers that are approved for use with the proposed AMI system.	Base		
(60)	Other work at the premise – large meters	For large meter installations, new large meters requiring new inlet or outlet piping shall be completed by the installer. FCWS will provide support for large meter installations.	Base		
(61)	Water Service Repair work	The Respondent is required to perform service work with a licensed plumber. The City reserves the right to approve licensed plumbers for work on this project. Describe the process of how repair work will be managed including involvement required by FCWS.	Base		
(62)	Water Service Repair work	Respondent shall provide common equipment for service repairs. This includes but not limited to curb stops, piping, elbows, tees, etc.	Base		
(63)	Return to Utility	Respondent shall provide costs to FCWS for uncompleted meter installations due to return to utility (RTU) – See Pricing templates. Describe the RTU process and how the installation team will ensure RTUs are kept to a minimum. Provide the expected percentage of RTUs that FCWS should expect for a typical AMI installation project.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(64)	Quality and Safety Program	Respondent will provide a safety program to ensure safe installation practices and safety incident reporting. Describe how safety program is enforced and incidents are tracked, managed, and reported	Base		
(65)	Quality and Safety Program	All Respondents and employees are required to adhere to OSHA Guidelines. The Respondent is responsible for assuring that all employees working on the project has successfully completed safety training. Provide a curriculum for safety training as well as list any OSHA incidents and violations in the past 3 years.	Base		
(66)	Claims Management	Respondent will provide claims intake services, investigate, and process claims related to the meter installation effort.	Base		

Meter Installation Services Questions

ID	Question	Response
Q1	Describe strategies on how to minimize RTUs.	
Q2	Describe how emergencies will be handled during the installation effort.	
Q3	Do you have a scrap/trade program? If yes, please describe the scrap/trade in program that would be available to FCWS if awarded a contract.	

FAYETTE County Water

Attachment E – Security

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	Security	Respondent and proposed AMI Vendor shall have an established IT Risk Governance that includes cybersecurity and information security policies. Provide an overview of these processes and procedures including how often they are reviewed and maintained. Also describe how Respondent reviews IT security and risk management of its suppliers and subcontractors.	Base		
(2)	Security & Encryption - Data transmission	AMI system shall provide full end to end encryption at a minimum of AES-256 for all data communicated between the MIU and data collectors, and the data collectors and the system head-end. Respondent to provide specific information about encryption methods utilized, including encryption levels and standards.	Base		
(3)	Security & Encryption - Data transmission	AMI system shall provide the ability to disable and enable encryption.	Base		
(4)	Security - Software	AMI system will comply the applicable NIST and other cyber security standards and be capable of continuing to meet evolving standards.	Base		
(5)	Security - Software	Respondent must support secure remote management protocols (i.e., SSH, HTTPS).	Base		
(6)	Security - Software	Solution hosted at ISO/SOC compliant data center (w/cyber and physical security controls	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		in place). Describe proposed solution's hosted facilities.			
(7)	Security - Software	AMI system shall undergo security assessments, vulnerability scanning, and penetration testing on a routine cadence (minimally on an annual basis). Please describe the testing performed and how often.	Base		
(8)	Security - Software	AMI system shall have capability for auditable logging (complete change and activity logs w/data retention).	Base		
(9)	Security - Software	AMI system shall be hosted in a data center that has an Intrusion Detection System (IDS) and Intrusion Protection System (IPS) enabled and support notification processes. Detail incident response plan and vulnerability management plan.	Base		
(10)	Security – User passwords and access	AMI system shall authenticate and authorize users through user logins that are encrypted and masked. Describe capabilities including the configurability of password requirements.	Base		
(11)	Security – User passwords and access	AMI system shall provide configurable role-based security to limit access to data and limit access to specific functions and features. Describe the capabilities and the extent of configurability.	Base		

ID		Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(12)	Security – User passwords and access	AMI system must support single sign-on. Describe capabilities and to what extent the proposed solutions supports multifactor authentication.	Base		

Security Questions

ID	Question	Response
Q1	Identify and assess the inherent risk characteristics for the proposed AMI solutions including cyber and information security and required mitigation measures.	

Attachment F – SaaS, NaaS, and Technical Support Services

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(1)	SaaS	The AMI Software shall be "cloud-based" and offered as Software-as-a-Service. Describe Respondent's facilities including locations, certifications, etc. which provides the hosted services.	Base		
(2)	SaaS	AMI system shall be on a single tenant architecture.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(3)	SaaS - Environments	The Respondent shall provide two (2) environments (Non-production, and Production) with a minimum of 13 months replicated customer data and a Disaster Recovery environment	Base		
(4)	SaaS - Environments	The Respondent shall provide a Disaster Recovery environment. Disaster recovery (DR) capabilities must meet industry standards, including secondary sites at geographically dispersed locations. Provide details about the DR environment and process.			
(5)	SaaS – Backups and Disaster Recovery	Backup and DR procedures must be tested; not simply defined. Quarterly test is preferred. Detail what testing processes.	Base		
(6)	SaaS – Backups and Disaster Recovery	Data replication/backups must be performed at least daily. Backup data must be encrypted. Describe the backup and restore process if requested by FCWS.	Base		
(7)	SaaS – Backups and Disaster Recovery	The recovery time objective (RTO) shall limit system outage to no more than 48 hours and recovery point objective (RPO) of no more than one hour of lost data before business continuity is restored. Describe your RTO and RPO policies and procedures.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(8)	SaaS – IT Infrastructure	The Respondent's solution shall identify and include all required hardware, software, licensing including third party licensing, and applications. Only new equipment is acceptable.	Base		
(9)	SaaS - SLAs	Respondent's AMI overall systems availability shall be greater than 99.9% in any 24-hour timeframe. Describe the proposed SLAs and remedies if SLAs are not met.	Base		
(10)	SaaS - SLAs	Respondent shall provide standard operating procedures, reports structured to monitor Service Level Agreement targets, and sample reports.	Base		
(11)	SaaS – Software maintenance	Respondent will be required to provide details on scheduled maintenance requirements and emergency downtime to FCWS. FCWS will be able to declare "critical operations" states where the Respondent will not perform work on the system.	Base		
(12)	SaaS – Software maintenance	Maintenance windows during which routine maintenance activity may be scheduled will be mutually agreed upon by the Respondent and FCWS. FCWS must receive at notification at least three business days in advance of	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		any work performed in these maintenance windows that may impact system performance or availability.			
(13)	SaaS – Software maintenance	The Respondent shall provide any available upgrades or patches to software and firmware to correct problems, add new standard features, and ensure system compatibility and full functionality for a minimum of fifteen (15) years or the expected life of the components (indicate if it is other than fifteen (15) years) at no additional cost, including installation. Provide details including the frequency of software updates and if FCWS must accept all upgrades.	Base		
(14)	Data Ownership	FCWS shall own all data in the SaaS/hosted environment and this data cannot be used in any way unless authorized by the County. Provide proposed contract language.	Base		
(15)	Change Control Management	Respondent must include a rollback plan/exit strategy for upgrades. Describe the change control process when implementing AMI software upgrades.	Base		
(16)	Documentation	The Respondent shall provide updated versions of all manuals via email to an appointed Utility contact within two	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		(2) weeks of any revisions or additions to the manuals. Describe the process used to provide the updates and the time that it takes to receive them.			
(17)	Documentation	Throughout the lifetime of the system, the Respondent shall provide a complete set of release notes, system documentation, and training material for each new system version, which shall describe all changes required to the system hardware, software, and firmware.	Base		
(18)	Documentation	The Respondent shall provide the latest manual for the release being deployed that includes complete operation and maintenance, installation, configuration, programming, diagnostics and repair of the system, software and components, and all goods and products provided.	Base		
(19)	Documentation	The Respondent shall provide the manual(s) for the release of software and hardware being deployed that includes operation and maintenance, installation, configuration, programming, diagnostics and repair of the system, software and components, and all goods and services envisioned by the Scope of Work. This includes electronic copies	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
		and hard copies where appropriate. Indicate whether the documentation is maintained in an accessible online site.			
(20)	Software Warranty	The Respondent shall ensure the AMI software does not contain any program code, virus, worm, trap door, back door, timer, or clock that would erase data or programming or otherwise cause the software to become inoperable, inaccessible, or incapable of being used in accordance with its user manuals, either automatically, upon the occurrence of Licensor-selected conditions, or manually on the command of a person.	Base		
(21)	NaaS	Respondent shall propose NaaS services which the Respondent owns the network infrastructure and is responsible for installation, ongoing maintenance, break/fix maintenance, etc. Describe the proposed NaaS services.	Base		
(22)	NaaS - Network & Backhaul Monitoring	Respondent shall notify FCWS by e-mail or another mutually agreed upon methods in less than one (1) hour when a collector, backhaul link, or head end device is not fully and reliability functioning.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(23)	NaaS - Network & Backhaul Monitoring	Respondent shall resolve failed AMI telecommunication system issues within 5 business days of notification.	Base		
(24)	Support - Integrations	Respondent shall support integrations for the lifetime of the AMI solution. Describes what happens if an integration breaks due to an upgrade.	Base		
(25)	Technical support	The Respondent shall provide technical support starting with the system install process until the deployment project has completed System Acceptance. Technical support and onsite support (if needed) must include telephone support to ensure that the system continues to perform to design criteria. Describe overall support services proposed.	Base		
(26)	Technical support	Respondent shall provide supplemental onsite support within 2 days of request. Provide a schedule of costs for onsite support.	Base		
(27)	Technical support	The Respondent shall provide base system support services for the life of solution. This includes at the minimum help desk support, technical support, and issue resolution. Describe the levels of support, support severities and expected response times to reported issues.	Base		

ID	Sub-area	Requirement Description	Type (Base/ Optional)	Compliance (Meets; Does Not Meet; Not Applicable)	Compliance Description
(28)	Technical support	The Respondent shall participate at a minimum in a yearly performance review to ensure that both system support and performance expectations are being met.	Base		
(29)	Ongoing / Refresher training	The Respondent shall provide ongoing and refresher training on demand. Describe examples of on demand training provided and how this training is accessed.			

Support Services Questions

ID	Question	Response
Q1	Where are the Respondent support offices located? Describe the availability schedule (normal work hours, weekend, or holiday exclusions, etc.).	
Q2	Describe if any of your support personnel are off-shore resources.	
Q3	Describe any support services options offered including pricing.	

Attachment G – Pricing

See MS Excel file – pricing template.

Attachment G

AMI Project

Price Proposal

[Add Respondent Firm]

Signature: _____

PRICE PROPOSAL SUMMARY

Item	Price Summary	Capital Cost
1	AMI Software	$ -
2	Project Implementation Services	$ -
3	Installation Services	$ -
4	AMI Network Equipment	$ -
5	Water Meters & AMI Endpoints Installed	$ -
	Total Capital Costs	$ -

Item/Year	Price Summary	Annual Costs
1	Annual Costs Year 1	$ -
2	Annual Costs Year 2	$ -
3	Annual Costs Year 3	$ -
4	Annual Costs Year 4	$ -
5	Annual Costs Year 5	$ -
6	Annual Costs Year 6	$ -
7	Annual Costs Year 7	$ -
8	Annual Costs Year 8	$ -
9	Annual Costs Year 9	$ -
10	Annual Costs Year 10	$ -
11	Annual Costs Year 11	$ -
12	Annual Costs Year 12	$ -
13	Annual Costs Year 13	$ -
14	Annual Costs Year 14	$ -
15	Annual Costs Year 15	$ -
	Total Annual Costs	$ -

Advanced Metering Infrastructure Software

Instructions to Respondent: Complete the pricing for the proposed solution.

Section 1: For SaaS Deployment, provide the proposed pricing

Item #	Description of Services	Detailed Description	Proposed Annual Fee			Comments/Assumptions
			Year 1 (Note 1)	Annual Escalation (%)	Year annual escalation begins	
1	SaaS	AMI Software (2 environments, and Disaster recovery)				
2	Annual Technical Support & Maintenance	AMI Solution				
3	SaaS	Customer Portal				
4	Annual Technical Support & Maintenance	Customer Portal				
5						
6						

Note 1 - Year 1 starts at the Initial deployment Solution Acceptance

Section 2: OPTIONAL - Other Support Alternatives

Item #	Description of Services	Detailed Description	Proposed Annual Fee			Comments/Assumptions
			Year 1	Annual Escalation (%)	Year annual escalation begins	
1						
2						
3						

Section 3: Questions

	Questions	
1	How does the proposed SaaS services increase with meter growth annually (e.g. per meter price, pricing tiers, etc.)? Provide any additional pricing tables.	

AMI Implementation Services

Instructions to Respondent: Complete the pricing for the proposed services which meets FCWS requirements. It is expected that the Respondents break down their services pricing in the categories provided.

Section 1: Implementation Services Fees - Provide annual project management fee and travel budget

Item #	Item/Service	Description	Price	Respondent Notes/Assumptions
1	Deployment Implementation Services (To encompass initial and full deployment of meters)	Overall Program and Project Management (incl subcontractor mgmt). This line item shall include: AMI Network Design, Requirements workshops, configuration documentation, setup and configuration of the AMI Software.		
		Customer Portal Project Management and Implementation		
		Integration Development and Testing for HES (Tyler CIS & Billing)		
		Integration Development and Testing with Customer Portal		
		Integration Development and Testing with GIS		
		Testing Services (User Acceptance, System Acceptance)		
		Training		
2	Travel Budget	Expected travel costs, NTE		

AMI Implementation Services

Section 2: Hourly Rates - Add rows as needed

	Labor Description	Hourly Rate
1		
2		
3		
4		
5		

Section 2: Miscellaneous or Optional Implementation Services (such a supplemental training, etc) - Add rows as needed

Item #	Item/Service	Description	Price	Respondent Notes/Assumptions
1				
2				
3				

AMI Installation Services

Instructions: Provide pricing for the proposed services that meet the requirements as detailed in RFP Attachment D.

Section 1: Project Set-up

Item #	Item/Service	Description	Price	Notes
1	Installation Project Management	Oversight and management of the entire installation effort, working closely with the AMI Vendor lead and FCWS		
2	WOMs Implementation Services	Fixed price implementation shall include: setup, configuration, reporting, integrations, training, and testing		
3	Mobilization Fee	Mobilization of field services, staffing, call center, etc.		
4	Customer Communications	Postcards, door hangers, etc - see Attachment D - Meter Installation Services, Requirement #35		
5	Warehousing and Field Team Office Space	Warehouse and office space dedicated to store inventory of meters for the installation effort, old meters and network equipment (as applicable)		
6	Travel Budget	Not to exceed		

AMI Installation Services

Section 2: Other Itemized Installation Costs

Item #	Item/Service	Quantity	Price Type	Unit Price	Total Price	Notes
1	Water Meter box replacement (12x17x12) - includes labor for installation	633	Unit Cost		$ -	
2	Water Meter box replacement (17x30x12) - includes labor for installation	633	Unit Cost		$ -	
3	Water Shutoff Valve Replacement	1580	Unit Cost			
4	Check Valve Replacement	30220	Each premise		$ -	
5	Lead and Copper Survey Data Collection	31517	Each premise		$ -	
6	Meter Testing Bench equipment & Meter Testing Services for random testing of meter shipments	1	Fixed		$ -	
7	Water Meter cover replacement (metal lid replacement) - 10.5" rectangular - Standard rated	500	Unit Cost		$ -	
8	Water Meter cover replacement (metal lid replacement) - 12" rectangular - Standard rated	30,460	Unit Cost		$ -	
9	Water Meter cover replacement (metal lid replacement) - 12" rectangular - Traffic rated	50	Unit Cost		$ -	
10	Water Meter cover replacement (metal lid replacement) - 15" rectangular - Standard rated	679	Unit Cost		$ -	

	Questions	Response
1	Provide an estimate of salvage credit per meter type and size. Develop a separate table as needed.	

Data Collection

Instructions: Provide pricing for the proposed goods that meet the requirements as detailed in Attachment B, Section (a)

Section 1: AMI Network Equipment & Deployment

Item #	Item/Service	Description	Price Type	Power Type	Quantity	Unit Price	Total Line Price	Respondent Notes/Assumptions
1	Collector Equipment - Initial Deployment	Network as a Service (NaaS) - Includes site acquisition and preparation (pole plant or tower construction, electric line install/extension) installation, startup	NaaS	Solar			$0	
2	Repeaters - Initial Deployment (if applicable)	Network as a Service (NaaS) - Includes site acquisition and preparation (pole plant or tower construction, electric line install/extension) installation, startup	NaaS				$0	
3	Collector Equipment - Full Deployment	Network as a Service (NaaS) - Includes site acquisition and preparation (pole plant or tower construction, electric line install/extension) installation, startup	NaaS	Solar			$0	
4	Repeaters - Full Deployment (if applicable)	Network as a Service (NaaS) - Includes site acquisition and preparation (pole plant or tower construction, electric line install/extension) installation, startup	NaaS				$0	

Backhaul Cellular Service

Item #	Item/Service	Telecomm Provider	# of Network Devices	Unit Price per month	Total Line Price per Month	Total Line Price per Year	Annual Escalation	Respondent Notes/Assumptions
1	Cellular Service for Backhaul				$0	$0		
2	Cellular Service for Backhaul (Alternative)				$0	$0		

Data Collection

If Proposing Cellular AMI, complete table. If not leave blank

Item #	Item/Service	Telecomm Provider	# of Endpoints (MIUs)	Unit Price per month	Total Line Price per month	Total Line Price per Year	Annual Escalation	Respondent Notes/Assumptions
1	Cellular Service for Endpoints				$0	$0		
2	Cellular Service for Endpoints (Alternative)				$0	$0		

Section 2: Field Programming Equipment (add rows as needed)

	Item/Service	Description - Provide description	Quantity	Unit Price	Total Line Price	Respondent Notes/Assumptions
1	Field Programmer Unit				$0	
2	Field Programmer Puck and Cabling				$0	
3	Field Programmer Software				$0	
4					$0	

Other Optional Pricing Items (add rows as needed)

Item #	Item/Service	Description - Provide description	Quantity	Unit Price	Total Line Price	Respondent Notes/Assumptions
1	Collector Equipment	A/C powered data collector	1		$0	
2	AMI Mobile Solution	Collection of reads using a mobile solution in the event the fixed network is unable to collect and transmit data.	1		$0	

Water Meters, MIUs, and Installation

Instructions: Provide pricing for the proposed goods that meet the requirements as detailed in Attachment B, Section (b),(c),(d)

Section 1: Water Meters - Base

Item #	Replace or Retrofit	Meter size	Existing Meter	Desired New Meter Type	Total Quantity	Specify Proposed Meter Make & Model	Unit Price				Total Price	Respondent Comments
							Meter	Encoder Register (as applicable)	MIU	Install (labor, pit debri removal & parts)		
1	Replace	3/4"	Badger M25, M70, M170	Mechanical	27997						$ -	
2	Replace	1"	Badger M25, M70	Mechanical	548						$ -	
3	Replace	1-1/2"	Badger M120, M170	Static	242						$ -	
4	Replace	2"	Badger M25, M170	Static	354						$ -	
5	Retrofit	3/4"	Badger M25, M70, M170	Mechanical	2072						$ -	
6	Retrofit	1"	Badger M25, M70	Mechanical	97						$ -	
7	Retrofit	1-1/2"	Badger M120	Static	40						$ -	
8	Retrofit	2"	Badger M170	Static	43						$ -	
9	Replace	3"	Recordall I, Recordall II, Recordall Turbo II	Static	3						$ -	
10	Replace	4"	Recordall I, Recordall II, Recordall Turbo II, MFM II/MCT II	Static	42						$ -	
11	Replace	6"	Recordall	Static	25						$ -	
12	Replace	6"	Hersey MFM II	Static	7						$ -	
13	Retrofit	6"	Octave	Static	4						$ -	
14	Replace	8"	Hersey MFM II/MCT II	Static	22						$ -	
15	Replace	8"	Hersey MFM II/MCT II	Static	16						$ -	
16	Replace	8"	Recordall II Compound	Static	1						$ -	
17	Retrofit	8"	Octave	Static	3						$ -	
18	Replace	10"	Recordall	Static	1						$ -	

Water Meters, MIUs, and Installation

Section 2: Alternative Meter Option

Item #	Replace or Retrofit	Meter size	Alternative New Meter Type	Total Quantity	Specify Proposed Meter Make & Model	Unit Price				Total Price	Respondent Comments
						Meter	Encoder Register (as applicable)	MIU	Install (labor, pit debri removal & parts)		
1	Replace	3/4 in	Static	30069		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 7,968,285	
2	Replace	1 in	Static	645		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 170,925	
3	Replace	3/4 in	Mechanical with Shutoff	1		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 265	
4	Replace	1 in	Mechanical with Shutoff	1		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 265	
5	Replace	1-1/2 in	Mechanical	282		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 74,730	
6	Replace	2 in	Mechanical	397		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 105,205	
7	Replace	3"	Mechanical	3		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 795	
8	Replace	4"	Mechanical	42		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 11,130	
9	Replace	6"	Mechanical	32		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 8,480	
10	Replace	8"	Mechanical	39		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 10,335	
11	Replace	10"	Mechanical	1		$ 70.00	$ 25.00	$ 100.00	$ 70.00	$ 265	

FAYETTE County Water

Appendices

Appendix 1 - County Procurement Forms & Other Requirements

a. General Terms & Conditions
b. Additional Terms & Conditions Applicable for Projects using Federal Government Funding
c. General Decision Number GA20210131 – DOL Wage Determination
d. Company Information
e. Contractor Affidavit under O.C.G.A §13-10-91(b)(1)
f. Bid Bond (As described in the Terms and Conditions)
g. References
h. Exceptions, if any
i. Consolidated balance sheet and cash flow statements for the two most recent years
j. Anti-Lobbying Certification
k. Certification – Suspension and Debarment
l. Mutual Non-Disclosure Agreement
m. Signed Addenda if any are issued

GENERAL TERMS AND CONDITIONS

RFP #2000-P: Fayette County Water System AMI Project

1. **Definitions:** The term "contractor" as used herein and elsewhere in these Terms and Conditions shall be used synonymously with the term "successful offeror." The term "county" shall mean Fayette County, Georgia.
2. **Preparation of Offers:** It shall be the responsibility of the offeror to examine specifications, scope of work, schedule and all instructions that are part of this request for proposal. Failure to observe any of the instructions or conditions in this request for proposal may result in rejection of the offer.
   All of the specifications and information contained in this request for proposal, unless specifically excepted in writing by the offeror and such exceptions being included with the offer, will form the basis of the contract between the successful offeror and the county. The offeror should take care to answer all questions and provide all requested information.
3. **Submission of Offers:** Offerors must submit their proposal, along with any amendments issued by the county, in a sealed opaque envelope with the following information written on the outside of the envelope:
   a. The offeror's company name,
   b. The Request for Proposals (RFP) number, which is ***#2000-P*** and
   c. The RFP Name, which is ***Fayette County Water System AMI Project.***

   Price schedules shall be placed in an additional opaque sealed envelope, identified as the price schedule, and enclosed in the sealed envelope with the proposal.

   Mail or deliver the proposal in accordance with the Proposal Submission Requirements as described in RFP Section 2.6:

   Fayette County Purchasing Department
   140 Stonewall Avenue West, Suite 204
   Fayetteville, GA 30214
   Request for Proposals Number: 2000-P

   Proposal Name: Fayette County Water System AMI Project
4. **Timely Receipt**: Offers not received by the time and date of the scheduled proposal opening will not be considered, unless the delay is a result of action or inaction of the county.
5. **Open Offer**: In order to allow sufficient time to award a contract, the offer, once submitted and opened, shall remain open for acceptance for a period of at least ninety days from the date of the opening unless this time-frame is specifically excepted to in your offer.
6. **Corrections or Withdrawals:** The offeror may correct a mistake, or withdraw a proposal before the proposal opening date by sending written notification to the Director of Purchasing. Proposals may be withdrawn after the opening only with written authorization from the Director of Purchasing.
7. **Waiver of Irregularities**: The county reserves the right to waive any defect or irregularity in any proposal received. In case of discrepancy between the unit price and the extended or total price, the unit price shall prevail.
8. **Trade Secrets – Confidentiality:** If any person or entity submits a bid or proposal that contains

trade secrets, an affidavit shall be included with the bid or proposal. The affidavit shall declare the specific included information which constitutes trade secrets. Any trade secrets must be either (1) placed in a separate envelope, clearly identified and marked as such, or (2) at a minimum, marked in the affidavit or an attached document explaining exactly where such information is, and otherwise marked, highlighted, or made plainly visible. See Georgia law at O.C.G.A. § 50-18-72 (A)(34).

9. **Site Conditions**: Offerors are urged to visit the site to familiarize themselves with site conditions. Upon submission of an offer, it is understood that the offeror is acknowledging his acceptance of all site conditions.
10. **References**: Offerors shall submit with proposals a list of three (3) jobs the offeror has done that are of the same or similar nature to the work described herein. For each job listed include a brief description of the work, a contact person, mailing address, valid telephone number and the date job was completed.
11. **Ethics – Disclosure of Relationships**: Before a proposed contract in excess of $10,000.00 is recommended for award to the Board of Commissioners or the County Administrator, or before the County renews, extends, or otherwise modifies a contract after it has been awarded, the contractor must disclose certain relationships with any County Commissioner or County Official, or their spouse, mother, father, grandparent, brother, sister, son or daughter related by blood, adoption, or marriage (including in-laws). A relationship that must be reported exists if any of these individuals is a director, officer, partner, or employee, or has a substantial financial interest the business, as described in Fayette County Ordinance Chapter 2, Article IV, Division 3 (Code of Ethics).

    If such relationship exists between your company and any individual mentioned above, relevant information must be presented in the form of a written letter to the Director of Purchasing. You must include the letter with any bid, proposal, or price quote you submit to the Purchasing Department.

    In the event that a contractor fails to comply with this requirement, the County will take action as appropriate to the situation, which may include actions up to and including rejection of the proposal or offer, cancellation of the contract in question, or debarment or suspension from award of a County contract for a period of up to three years.

12. **Evaluation of Offers:** The evaluation of offers and the determination as to acceptability of services offered shall be the responsibility of the county. Accordingly, to ensure that sufficient information is available, the offeror may be required to submit literature, samples, or other information prior to award. The county reserves the right to obtain clarification or additional information from any firm regarding its proposal. The county reserves the right to select a responsive, responsible firm on the basis of best value that is deemed to be most advantageous to the owners. The county further reserves the right to reject any proposal, or all proposals, and to re-release the request for proposals.
13. **Non-Collusion:** By responding to this request for proposals, the offeror shall be deemed to have represented and warranted that the proposal is not made in connection with any other offeror submitting a separate response to this request for proposals, and is in all respects fair and without collusion or fraud.
14. **Ability To Perform:** The offeror may be required, upon request, to provide to the satisfaction of the county that he/she has the skill, experience and the necessary facilities, as well as sufficient financial and human resources, to perform the contract in a satisfactory manner and within the required time. If the available evidence is not satisfactory to the county, the county may reject

the offer.

15. **Notice to Proceed**: The County shall not be liable for payment of any work done or any costs incurred by any offeror prior to the county issuing a written notice to proceed.
16. **Unavailability of Funds**: This contract will terminate immediately and absolutely at such time as appropriated and otherwise unobligated funds are no longer available to satisfy the obligations of the county under the contract.
17. **Payment Terms**: The County's standard payment terms are Net 30. Any deviation from standard payment terms must be specified in the awarded contract, and both parties must agree on such deviation.
18. **Severability**: The invalidity of one or more of the phrases, sentences, clauses or sections contained in the contract shall not affect the validity of the remaining portion of the contract. If any provision of the contract is held to be unenforceable, then both parties shall be relieved of all obligations arising under such provision to the extent that the provision is unenforceable. In such case, the contract shall be deemed amended to the extent necessary to make it enforceable while preserving its intent.
19. **Indemnification**: The contractor shall indemnify and save the county and all its officer, agents and employees harmless from all suits, actions, or other claims of any character, name and description brought for or on account of any damages, losses, or expenses to the extent caused by or resulting from the negligence, recklessness, or intentionally wrongful conduct of the contractor or other persons employed by or utilized by the contractor in the performance of the contract. The contractor shall pay any judgment with cost which may be obtained against the county growing out of such damages, losses, or expenses, but only to the extent such damages, costs and expenses are adjudicated to have been caused by or resulted from the negligence, recklessness, or intentionally wrongful conduct of the Contractor or other persons employed or utilized by the Contractor in the performance of the contract.
20. **Non-Assignment**: Assignment of any contract resulting from this request for proposals will not be authorized, except with express written authorization from the county.
21. **Insurance**: The contractor shall procure and maintain the following insurance, to be in effect throughout the term of the contract, in at least the amounts and limits set forth as follows:

    - **General Liability Insurance**: $1,000,000 combined single limit per occurrence, including bodily and personal injury, destruction of property, and contractual liability.
    - **Automobile Liability Insurance**: $1,000,000 combined single limit each occurrence, including bodily injury and property damage liability.
    - **Worker's Compensation**: Workers Compensation as required by Georgia statute.
    - **Cyber Liability Insurance**: $1,000,000 combined single limit each occurrence.

    Before a contract is executed with the successful offeror, the successful offeror shall provide Certificates of Insurance for all required coverage. The successful offeror can provide the Certificate of Insurance after award of the contract, but must be provided prior to execution of the contract document by both parties. Certificates shall list an additional insured as follows:

    Fayette County, Georgia
    140 Stonewall Avenue West
    Fayetteville, GA 30214

22. **Bid Bond**: You must include a bid bond with your bid, equal to five percent (5%) of the total proposed amount. Bid bonds shall be provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
23. **Performance and Payment Bonds**: Prior to execution of a contract, the successful responder shall submit performance and payment bonds each equal to 100 percent of the contract value, provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
24. **Building Permits**: Work performed for the county requiring building permits by licensed contractors will not have permit fees assessed, although any re-inspection fees for disapproved inspections will be the responsibility of the contractor prior to final inspections and the Certificate of Occupancy or Certificate of Completion being issued.
25. **Termination for Cause**: The county may terminate the contract for cause by sending written notice to the contractor of the contractor's default in the performance of any term of this agreement. Termination shall be without prejudice to any of the county's rights or remedies by law.
26. **Termination for Convenience**: The county may terminate the contract for its convenience at any time with 10 days' written notice to the contractor. In the event of termination for convenience, the county will pay the contractor for services performed. The county will compensate partially completed performance based upon a signed statement of completion submitted by the contractor, which shall itemize each element of performance completed.
27. **Force Majeure**: Neither party shall be deemed to be in breach of the contract to the extent that performance of its obligations is delayed, restricted, or prevented by reason of any act of God, natural disaster, act of government, or any other act or condition beyond the reasonable control of the party in question.
28. **Governing Law**: This agreement shall be governed in accordance with the laws of the State of Georgia. The parties agree to submit to the jurisdiction in Georgia, and further agree that any cause of action arising under this agreement shall be required to be brought in the appropriate venue in Fayette County, Georgia.
29. **Breach of Contract:** In the event that the contractor or a subcontractor should violate or breach contract terms, upon discovery of such violation or breach the county will notify the contractor in writing. The contractor or subcontractor shall be entitled to cure the breach within ten (10) days and provide evidence of such cure. If the contractor fails to cure the violation or breach within the ten-day time, the county shall be entitled to all available remedies, including termination of the contract, or the requirement that a subcontractor be dismissed from performing work under the contract. The county shall be entitled to any and all damages permissible by law.
30. **Small, Minority, & Women's Business Enterprise Opportunities:** If the contract is with a prime Contractor, and subcontracts are to be let, the Contractor shall take the affirmative steps listed below:
    a. Place qualified small and minority businesses and women's business enterprises on solicitation lists;
    b. Assure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
    c. Divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
    d. Establish delivery schedules, where the requirement permits, which encourage

participation by small and minority businesses, and women's business enterprises; and

e. Use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

31. **Compliance with Federal Environmental Requirements:** The contractor shall comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, Environmental Protection Agency regulations (40 CFR part 15), and mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat.871).
32. **Equal Employment Opportunity:** To the extent that any portion of the work under this contract may fall within the definition of work under a "federally assisted construction contract," the language found in 41 CFR 60-1.4(b) is hereby included by reference.

Additional Terms & Conditions Applicable for Projects using Federal Government Funding

1. **Domestic Preferences for Procurements:** As appropriate, and to the extent consistent with law, the contractor is to consider preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products) as provided in the Code of Federal Regulations at 2 CFR 200.322.

2. **Procurement of Recovered Materials**: To the extent that the contractor may provide any of the products included in the U.S. Environmental Protection Agency's list of designated products, the contractor shall comply with requirements of Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, which governs the use of recovered or recycled materials.

3. **Davis -Bacon Act and Copeland "Anti-Kickback" Acts**: To the extent that any work under the contract may fall under the definition of Federal-aid construction, the contractor shall comply with any relevant requirements of the Davis-Bacon Act as amended (40 U.S.C. 3141-3144 and 3146-3148), as supplemented by Department of Labor regulations (29 CFR Part 5) and the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3).

4. **Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708)**: To the extent that work under this contract involves the employment of mechanics or laborers who perform construction work, and where applicable, the contractor shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Requirements include, but are not limited to, computation of wages of every mechanic and laborer on the basis of a standard work week of 40 hours, work in excess of the standard week compensated at a rate not less than one and a half times the basic rate of pay, and no laborer or mechanic required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous.

5. **Debarment and Suspension (Executive Orders 12549 and 12689):** No contract will be awarded to a party listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p 235).

6. **Byrd Anti-Lobbying Amendment (31 U.S.C. 1352):** Firms that submit proposals in response to this Request for Proposals must certify, by completing and signing the enclosed *Anti-Lobbying Certification* form, that they will not, and have not, used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352.

7. **Equal Employment Opportunity**: To the extent that work under the contract involves federally assisted construction which is not exempt from the requirements of the equal opportunity clause, during the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

> Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled,

terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided,* That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and sub contractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and sub contractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

"General Decision Number: GA20210131 06/25/2021

Superseded General Decision Number: GA20200131

State: Georgia

Construction Type: Building

County: Fayette County in Georgia.

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies tothe above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	01/29/2021
2	06/25/2021

ASBE0048-001 04/01/2020

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR	$ 28.77	16.51

ASBE0048-002 04/01/2020

	Rates	Fringes
FIRESTOPPER	$ 28.77	16.51

BOIL0026-Ø01 03/01/2018

	Rates	Fringes
BOILERMAKER	$ 28.77	22.39

ELEV0032-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC	$ 44.16	36.365+a+b

PAID HOLIDAYS:

a. New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, and Christmas Day.

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years ' service.

ENG10926-001 07/01/2020

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
Backhoe/Excavator,		
Bobcat/Skid Loader/Skid		
Steer, Bulldozer,		
Forklift and Loader	$ 23.24	13.83
Crane	$ 32.63	13.83
Oiler	$ 22.85	12.68

PLUMØ072-Ø23 08/01/2020

	Rates	Fringes
PLUMBER	$ 29.48	15.71

PLUM0072-024 08/01/2018

	Rates	Fringes
PIPEFITTER (Including Installation of HVAC Pipe, HVAC Unit, & HVAC Electrical	$ 28.48	15.91

SFGA0669-001 04/01/2021

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinkler)	$ 30.39	21.78

SHEEØ085-001 07/01/2017

	Rates	Fringes
SHEET METAL WORKER (Including HVAC Duct Installation; Excluding Metal Roof Installation	$ 31.54	13.58

	Rates	Fringes
ACOUSTICAL CEILING MECHANIC	$ 15.00	0
ALARM INSTALLER	$ 19.36	3.78
BRICKLAYER	$ 16.00	0

	Rates	Fringes
CARPENTER (Drywall Finishing, Drywall Hanging, and Metal Stud Installation	$ 18.22	0
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Finishing/ Taping, Drywall Hanging, Form Work, and Metal	$ 17.28	2.54
CEMENT MASON/ CONCRETE FINISHER	$14.38	0
ELECTRICIAN (Low Voltage Wiring and Installation of Sound and Communication Systems)	$21.76	5.70
ELECTRICIAN, Excludes Low Voltage Wiring and Installation of Alarms and Sound and Communication Systems	$18.26	0
FLOOR LAYER (Carpet, Vinyl and Resilient Flooring)	$20.00	0
FORM WORKER	$13.37	0.50
GLAZIER	$17.55	3.50
INSULATOR (Batt, Blown and Foam)	$16.75	0.14
IRONWORKER, REINFORCING	$20.48	8.41
IRONWORKER, STRUCTURAL	$20.00	0.35
LABORER: Common or General	$10.00	0
LABORER: Flagger	$13.44	0
LABORER: Landscape	$12.19	0
LABORER: Mason Tender - Brick	$9.00	0
LABORER: Pipelayer	$12.00	0.23
OPERATOR: Asphalt Spreader	$16.53	0

OPERATOR: Grader/ Blade. $17.52	0
OPERATOR: Roller. $14.49	0
OPERATOR : Screed. $14.17	0
PAINTER: Brush, Roller and Spray. $16.74	2.44
ROOFER, Excludes Installation of Metal Roofs. $10.49	0.64
SHEET METAL WORKER, Metal Roofs Installation. $21.75	0
TILE FINISHER. $10.36	0
TILE SETTER. $20.00	0
TRUCK DRIVER: Dump Truck.. . . .. $15.77	0
TRUCK DRIVER: Lowboy Truck.. . .. . $17.41	0

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four-letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1,2014. Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier. Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- an existing published wage determination
- a survey underlying a wage determination
- a Wage and Hour Division letter setting forth a position on
- a wage determination matter
- a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Company Information

RFP 2000-P: Fayette County Water System AMI Project

COMPANY

Company Name:	
Physical Address:	
Mailing Address (if different):	

AUTHORIZED REPRESENTATIVE

Signature:			
Name (Printed):			
Title:			
Email Address:			
Phone Number:		Fax Number:	

PROJECT CONTACT PERSON

Name:			
Title:			
Office Number:		Cell:	
Email Address:			

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(l)

The undersigned contractor ("Contractor") executes this Affidavit to comply with O.C.G.A § 13-10-91 related to any contract to which Contractor is a party that is subject to O.C.G.A. § 13-10-91 and hereby verifies its compliance with O.C.G.A. § 13-10-91, attesting as follows:

a) The Contractor has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program;

b) The Contractor will continue to use the federal work authorization program throughout the contract period, including any renewal or extension thereof;

c) The Contractor will notify the public employer in the event the Contractor ceases to utilize the federal work authorization program during the contract period, including renewals or extensions thereof;

d) The Contractor understands that ceasing to utilize the federal work authorization program constitutes a material breach of Contract;

e) The Contractor will contract for the performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the Contractor with the information required by O.C.G.A. § 13-10-91(a), (b), and (c);

f) The Contractor acknowledges and agrees that this Affidavit shall be incorporated into any contract(s) subject to the provisions of O.C.G.A. § 13-10- 91 for the project listed below to which Contractor is a party after the date hereof without further action or consent by Contractor; and

g) Contractor acknowledges its responsibility to submit copies of any affidavits, drivers' licenses, and identification cards required pursuant to O.C.G.A. § 13-10-91 to the public employer within five business days of receipt.

Federal Work Authorization User Identification Number	Date of Authorization
Name of Contractor	**2000-P: Fayette County Water System AMI Project** Name of Project

Fayette County, Georgia
Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____ 20__ in _____ (city) _____ (state)

_____
Signature of Contractor's Authorized Official

Printed Name and Title of Contractor's Authorized Official

Date

SUBSCRIBED AND SWORN BEFORE ME				
ON THIS THE		DAY OF		20__

NOTARY PUBLIC

My Commission Expires

References

Fayette County Water System AMI Project

1	Government/Company Name			
	City & State			
	Work or Service Provided			
	Number of Water Service Connections			
	Approximate Completion Date			
	Contact Person and Title			
	Phone		Email	

2	Government/Company Name			
	City & State			
	Work or Service Provided			
	Number of Water Service Connections			
	Approximate Completion Date			
	Contact Person and Title			
	Phone		Email	

3	Government/Company Name			
	City & State			
	Work or Service Provided			
	Number of Water Service Connections			
	Approximate Completion Date			
	Contact Person and Title			
	Phone		Email	

COMPANY NAME _____

EXCEPTIONS TO SPECIFICATIONS

RFP 2000-P: Fayette County Water System AMI Project

Please list below any exceptions or clarifications to the specifications. Explain any exceptions in full

Exceptions:
Company Name:

ANTI-LOBBYING CERTIFICATION

ITB #2000-P: Fayette County Water System AMI Project

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding $100,000)

The undersigned _____ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The Contractor, _____ certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

_____

Signature of Contractor's Authorized Official

_____

Name and Title of Contractor's Authorized Official — Date

CERTIFICATION

SUSPENSION AND DEBARMENT

RFP #2000-P: Fayette County Water System AMI Project

(1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals, (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

(2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

(3) This certification is a material representation of fact relied upon by Fayette County, Georgia. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the Federal Government and Fayette County, Georgia, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

(4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

_____

Signature of Contractor's Authorized Official

_____

Name and Title of Contractor's Authorized Official Date

MUTUAL NONDISCLOSURE AGREEMENT

THIS MUTUAL NONDISCLOSURE AGREEMENT (the "Agreement") is made between **Fayette County, Georgia** having a principal place of business at 140 Stonewall Avenue West, Fayetteville, GA 30214 ("**Fayette County, Georgia**") and _____ ("_____") a _____ corporation having a principal place of business at _____.

1. **Purpose.** _____ and Fayette County, Georgia wishes to explore a potential business opportunity, a water system advanced metering infrastructure solution, under which each may disclose its Confidential Information to the other.

2. **Definition.** "Confidential Information" means any information, data, or know-how, including, but not limited to, that which relates to market research, product plans, business plans, products, services, clients, markets, business processes and systems, operations, strategic information, forecasts, reports, records, employees, contractors, subcontractors, trade secrets, proprietary techniques, revenues, expenses or finances and financial data, which Confidential Information is designated in writing to be confidential or proprietary, or if given orally, is designated at the time of disclosure as being confidential or proprietary. Confidential Information does not include information which: (i) is in the possession of the receiving party at the time of disclosure and which can be shown to have so been by proper documentation and which is not otherwise subject to any obligation of confidentiality or non-disclosure; (ii) prior or after the time of disclosure becomes part of the public knowledge or literature, not as a result of any inaction or action of the receiving party in violation of this Agreement; (iii) has been or is developed by the receiving party through its independent resources without reference to the disclosing party's Confidential Information or in violation of the terms of this Agreement; (iv) is disclosed to the receiving party by a third party without restriction and, to the knowledge of the receiving party after reasonable inquiry, without violation of any obligation of confidentiality; or (v) is approved for release by the disclosing party in writing.

3. **Non-Disclosure of Confidential Information.**

   a. Each party receiving Confidential Information of the other agrees not to use the Confidential Information disclosed to it by the other party for any purpose except as defined herein and to carry out discussions concerning, and the undertaking of, any business relationship between the parties. Except as may be required by Georgia's Open Records Act or other legal requirements, neither party will disclose any Confidential Information of the other party to third parties except (a) disclosures to the receiving party's directors, officers, employees, authorized consultants, agents and advisors (including, without limitation, attorneys and accountants) (collectively "Representatives") who are required to have the information in order to carry out the Purpose. Each party will notify its Representatives to whom Confidential Information of the other party is disclosed or who have access to Confidential Information of the other party that they are bound by the obligations of this Agreement. Each party agrees that it will take all reasonable measures to protect the confidentiality of and avoid

disclosure or use of Confidential Information of the other party in order to prevent it from falling into the public domain, or the possession of persons other than those persons authorized hereunder to have any such information, which measures shall include the same degree of care that either party utilizes to protect its own Confidential Information of a similar nature. Each party agrees to notify the other party in writing of any misuse or misappropriation of such Confidential Information of the other party which may come to its attention.

b. Neither party shall be liable for disclosure or use of any Confidential Information if: (i) it was in the public domain at the time it was disclosed or used through no fault of the receiving party; (ii) it becomes known to the receiving party from a source other than the disclosing party without a breach of this Agreement by the receiving party; (iii) it was independently developed by the receiving party without the benefit of the information received from the disclosing party; or (iv) it was disclosed under legal process or other legal requirement provided the receiving party agrees to cooperate in seeking reasonable protective arrangements requested by the disclosing party, and to promptly notify the disclosing party if receiving party receives any subpoena or other legal process seeking disclosure of Confidential Information.

3. **Non-Disclosure Potential Transaction**. Each party agrees that it will not make any public disclosure of the fact that discussions or negotiations are taking place between the parties or any terms, conditions or other facts with respect to the potential business opportunity, including the status thereof or that Confidential Information has been made available, without the prior written consent of the other party, except where such disclosure is, in the opinion of its counsel, required under applicable laws.

4. **Mandatory Disclosure.** In the event that either party or their respective Representatives are requested or required by legal or administrative process to disclose any of the Confidential Information of the other party, the party required to make such disclosure, if legally permitted, shall give prompt notice of the existence, terms and circumstances surrounding such request so that the other party may seek a protective order or other appropriate relief. In the event that such protective order is not sought or obtained, the party required to make such disclosure shall disclose only that portion of the Confidential Information which its counsel (which for the avoidance of doubt includes in-house counsel) advises that it is legally required to disclose.

5. **Termination of Discussions; Return of Materials.** Either party may at any time, for any reason, terminate discussions or negotiations between them. Any materials or documents which have been furnished by one party to the other and any documents containing or reflecting Confidential Information (whether such documents and records were furnished to the receiving party or its Representatives or were prepared by the receiving party or its Representatives) and any copies, summaries, notes, analysis, compilations or extracts of such documentation (whether prepared by the disclosing party or by others) shall be promptly returned, or destroyed at the receiving party's option, upon the written request of the disclosing party. Any destruction of the Confidential Information shall be confirmed to the disclosing party in writing. Notwithstanding the foregoing, one copy of the Confidential Information or documents containing Confidential Information (in electronic or paper form) may be retained pursuant to a party's normal and customary record retention policy, provided that such Confidential Information will be kept subject to the terms of this Agreement.

6. **No License Granted**. Nothing in this Agreement is intended to grant any rights to either party under any patent, copyright, trade secret or other intellectual property right nor shall this Agreement grant either party any rights in or to the other party's Confidential Information, except the limited right to review such Confidential Information solely for the purposes of determining whether to enter into the proposed business relationship between the parties.

7. **No Representations**. No party makes any express or implied representation or warranty as to the accuracy or completeness of any Confidential Information provided hereunder. Neither party shall have any liability to the other or its Representatives arising from, or related to, the other party's or its Representatives' use of Confidential Information provided hereunder.

8. **Term**. The foregoing commitments of either party in this agreement shall survive any termination of discussions between the parties and shall continue relative to any Confidential Information disclosed hereunder for a period of two (2) years following the disclosure of such Confidential Information.

9. **Miscellaneous**.

   a. This Agreement shall be binding upon and for the benefit of the undersigned parties, their successors and assigns, provided that Confidential Information and the rights and obligations of either party may not be assigned without the prior written consent of the disclosing party.
   b. Failure to enforce any provision or exercise any right in this Agreement shall not constitute a waiver of any term hereof.
   c. In the event that any provision of this Agreement shall be deemed invalid, unenforceable or illegal, all remaining provisions of this Agreement shall remain in full force and effect; provided, however, that if, in such event, the purpose hereof is materially affected and the parties' intent is defeated, significantly compromised or frustrated, then the parties shall modify this Agreement, as appropriate to give effect to their intent.
   d. This agreement does not bind either party to enter into any other contract or relationship, or to provide any services.

10. **Governing Law and Jurisdiction**. This agreement shall be governed by and construed and enforced in accordance with the laws of the State of Georgia.

11. **Remedies**. Each party agrees that its obligations hereunder are necessary and reasonable in order to protect the other party and the other party's business, and expressly agrees that monetary damages would be inadequate to compensate the other party for any actual or threatened breach by either party of any covenants and agreements set forth herein. Accordingly, each party agrees and acknowledges that any such violation will cause irreparable injury to the other party and that, in addition to any other remedies that may be available in law, the other party shall be entitled to seek injunctive relief against the threatened breach of this Agreement or the continuation of any such breach.

Fayette County, Georgia

By: _____

Title: _____

Date: _____

_____

By: _____

Title: _____

Date: _____

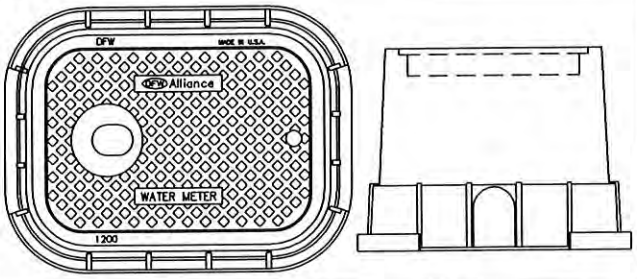
Appendix 2 – Other Equipment Specifications


Meter Box Lid Specs.pdf


DFW F Series 020121.pdf

DFW PLASTICS, INC.

PO Box 648
Bedford, Texas 76095
Tel: 817.439.3600
Fax: 817.439.3700
www.dfwplasticsinc.com



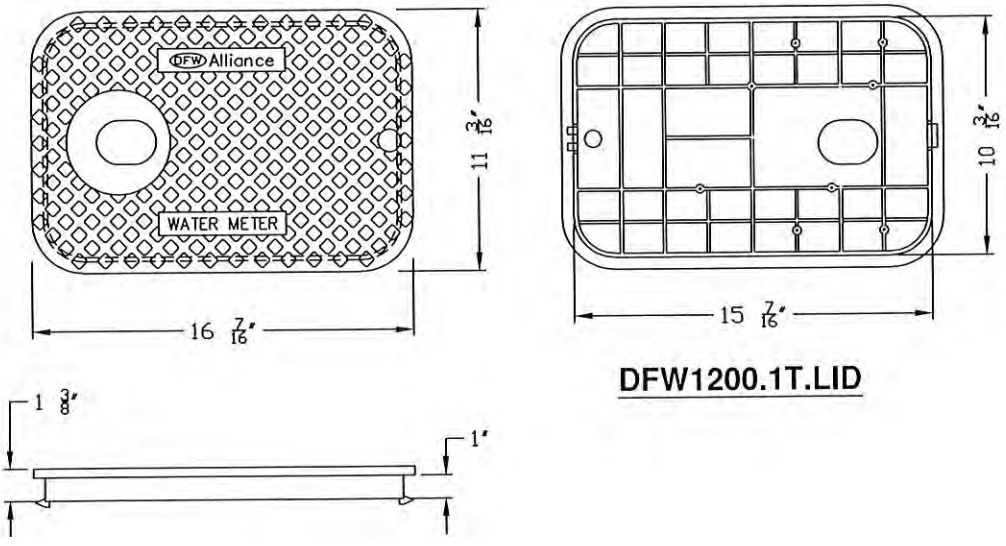
DFW1200.12.1T

12x17x12 Standard Rectangular Black Box w/ Black Plastic AMR/AMI Lid w/ Touch Read Hole

This product is designed to withstand loading in non-deliberate and incidental traffic. Not to be installed in roadway. Meter Box shall be black and constructed out of modified polypropylene material for maximum durability and corrosion resistance. The black material is for maximum UV protection. The black material shall be uniform throughout the Meter Box for maximum longevity and **not have** a foaming agent that creates air pockets within the plastic wall.

Plastic Lid

- The Plastic lid shall have a MINIMUM weight of 2.00 lbs.
- The Plastic lid shall be BLACK - *as illustrated.*
- The Plastic lid shall have **MOLDED** recessed AMR/AMI hole on lid - *as illustrated.*
- The Plastic lid shall have a molded finger hole - *as illustrated.*
- The Plastic lid shall seat securely and evenly inside the Meter Box and shall overlap the top edge of the Meter Box.
- The Plastic lid shall have molded diamond **tread-pattern** for skid resistance - *as illustrated.*
- The Plastic lid shall have "Water Meter" molded into the lid - *as illustrated.*
- The Plastic lid shall be recycled with a minimum of 50% Post Consumer Recycled and 20% Post Industrial/ Pre-Consumer Recycled Content - Verified with a **Leed Product Documentation.**
- The Plastic lid shall be DFW Plastics Inc, **MADE IN USA.** - Domestic Only.

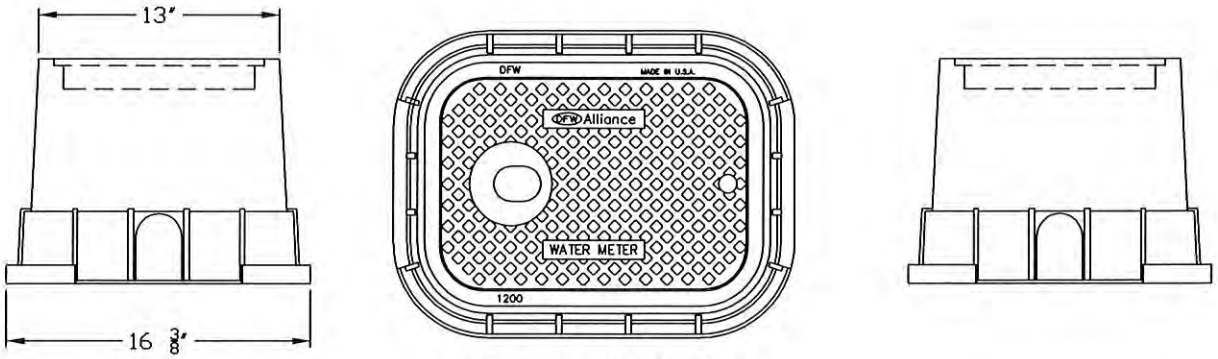


DFW1200.1T.LID

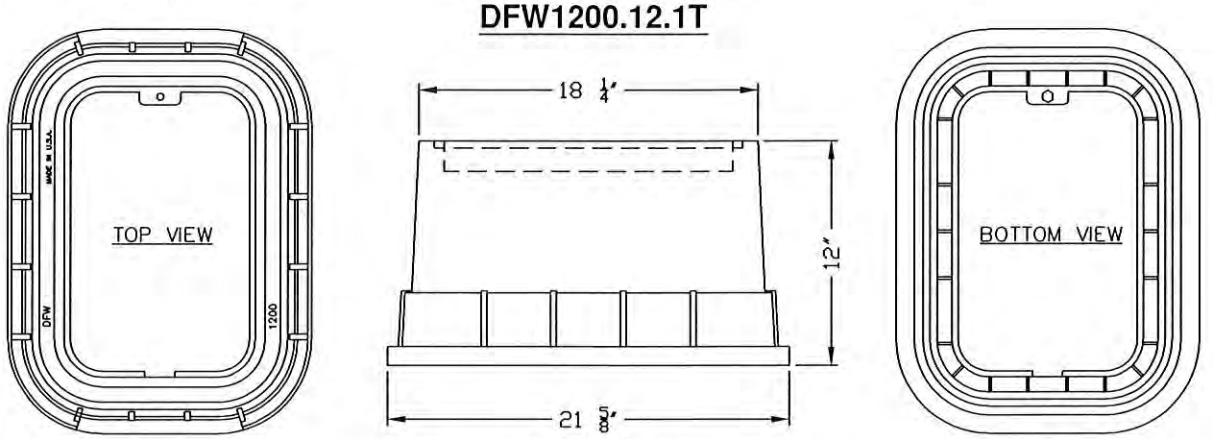
This product is designed to withstand loading in non-deliberate and incidental traffic. Not to be installed in roadway. Meter Box shall be black and constructed out of modified polypropylene material for maximum durability and corrosion resistance. The black material is for maximum UV protection. The black material shall be uniform throughout the Meter Box for maximum longevity and not have a foaming agent that creates air pockets within the plastic wall.

Plastic Body

- The plastic body shall have a MINIMUM weight of 7.65 lbs.
- The plastic body shall be BLACK - *as illustrated.*
- The plastic body will have pipe slots on each end of the box that measure (2 $\frac{1}{2}$" x 3 $\frac{1}{2}$").
- The plastic body shall have two (2) resting points for the universal lid to sit securely and flush - *as illustrated.*
- The plastic body shall have support ribbing at the base and lid opening for resistance to backfilling - *as illustrated.*
- The plastic body shall be recycled with a minimum of 75% Post Consumer Recycled and 25% Post Industrial / Pre-Consumer Recycled Content - Verified with a **Leed Product Documentation.**
- The plastic Body shall be DFW Plastics Inc., **MADE IN USA**. - Domestic Only.



DFW1200.12.1T



DFW1200.12.BODY

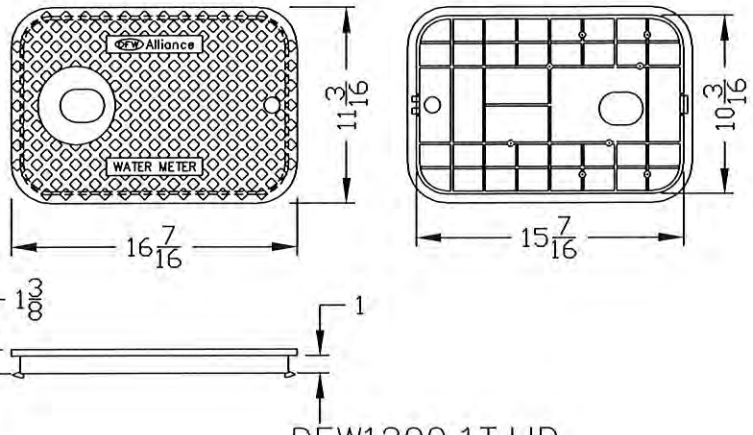
Meter Box shall be A Series by DFW Plastics, Inc. or an approved equal. All Specs are subject to change without notice.

Part No.	Series	Size	Height	Width	Length
DFW1200.12.BODY	1200	17" x 12"	12"	Top – 13"	Top – 18-1/14"
DFW1200.12.1T	1200	17" x 12"	12"	Base – 16-3/8"	Base-21-5/8"
DFW1200.1T.LID	1200	17" x 12"	1-3/8"	11-3/16"	16-7/16"

Single Service Box for $\frac{5}{8}$", $\frac{3}{4}$", 1" Meters
File: Submittal – DFW1200.12.1T
Rev. A May 2013

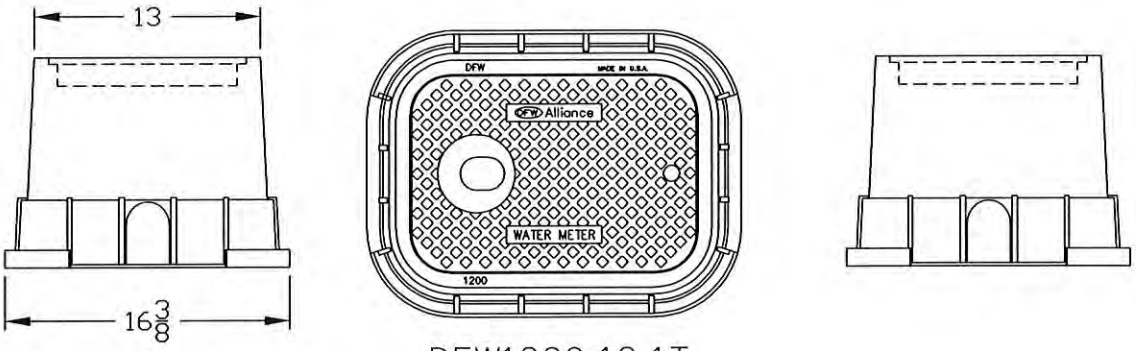
Submitted by:

REVISIONS		
REV	DESCRIPTION	DATE
NR	NEW RELEASE/UPDATED	01/23/12

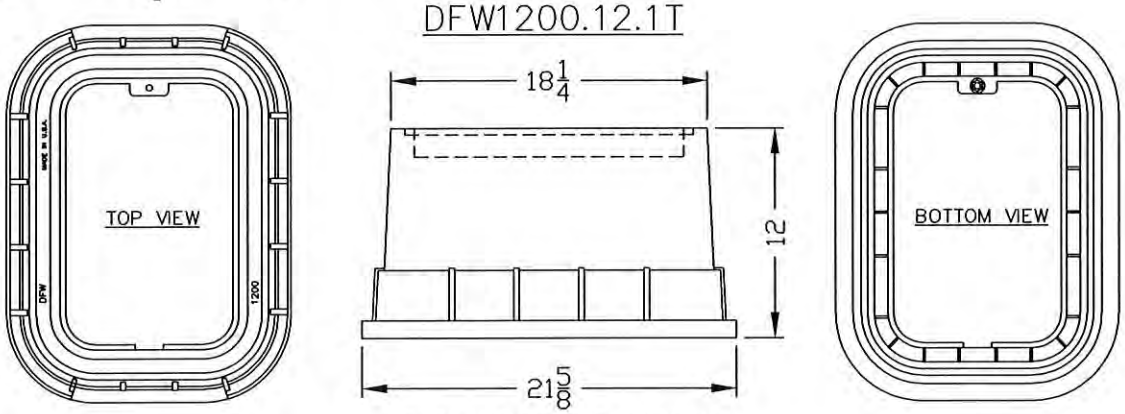


LID KEY	
1	BLACK COLOR
T	TOUCH READ HOLE

DFW1200.1T.LID



DFW1200.12.1T



DFW1200.12.BODY

NOTES
1) DIM'S ± 1/8" U.N.O.
2) LID MATERIAL: P.P.
3) BODY MATERIAL: P.P.
4) WALL THICKNESS: 3/8" ± 5%

DFW PLASTICS, INC. ENGAGES IN ONGOING RESEARCH AND DEVELOPMENT TO IMPROVE AND ENHANCE ITS PRODUCTS. THEREFORE, DFW PLASTICS, INC RESERVES THE RIGHT TO CHANGE PRODUCT OR SYSTEM SPECIFICATIONS WITHOUT NOTICE.

DFW PLASTICS, INC.
PO BOX 648
BEDFORD, TEXAS 76095
(817) 439-3600
(817) 439-3700 (f)
www.dfwplasticsinc.com

DFW1200.12.1T

CREATED:	01/23/12
UPDATED:	09/12/12
ACCEPTED:	JMc
DRAWN BY:	J.C.A.
PLOT SCALE:	1:10

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Heavy Duty | Polymer Round & Oval Meter Boxes

Features & Benefits



Features	Benefits
1. All Polymer Construction	Heavy Duty Boxes are made of engineered polymer designed for specific use as water meter boxes. Polymer is blended to accomodate extreme weather conditions and withstand constant ground movement.
2. Thick Flange	Heavy Duty Boxes have a thick flange design at the top of the box that provides protection to all the plastic lids or the metal ring that is used to seat the lid. This maintains the shape of the box, providing a constant opening for ease of access.
3. Bottom Flange	Heavy Duty Boxes have a bottom flange design that resists settling of the box after installation.
4. Ring Accomodation	Heavy Duty Boxes accomodate cast iron or ductile iron rings to provide additional support required by municipalities.
5. Non-Tapered Wall	Heavy Duty Boxes have a non-tapered wall to accomodate for ease of adjustment in the field without having to dig the entire meter box out of the ground.
6. Load Rating	Heavy Duty Boxes & Lids are rated for non-deliberate incidental traffic.
7. Patented Lid Design	Heavy Duty Lids patented features include options for AMR/AMI systems.
7. Locking Mechanism for Lid	Heavy Duty Boxes & Lids are available with bolt down or key lock mechanisms.
8. Colors	Light Duty Series is available in black, blue, purple, gray, or sand colors.

Heavy Duty | Price List Key

To create List Price for a specific product, use the Price on Black Body & a Solid Black Lid in each category and add color and/or options to the Base Price.

Option Key	Option Description	Cost
A	AMR Pad Locator	Add $6.65
B	Brass Lock	Add $16.55
D	Bolt Down	Add $2.10
E	Rebar	Add $2.45
F	Knockout Hole	Add $2.25
K	Plastic Lock	Add $5.50
M	Magnet	Add $2.45
O	Overlay	Add List Price for Overlay to Body List
P	Pickhole	Add $0.55
Q	Keyhole	Add $0.00
S	Brass Security Lock	Add $21.00
T	Touch Read Hole	Add $1.40
U	Small AMR Pad	Add $3.85
W	Worm Lock (Brass)	Add $17.70
/W	Worm Lock (Polymer/Brass)	Add $13.95
Z	Drilled Touch Read Hole	Add $2.10 per hole

Color Key	Color	Cost Body Only	Cost Lid Only
1	Black	$0.00	$0.00
2	Green	$6.35	$6.85
3	Blue	$6.35	$6.85
4	Gray	$ 8.40	$ 8.95
5	Purple	$ 8.40	$ 8.95
6	Sand	$ 8.40	$ 8.95

Markings	Lid Color
Water Meter or Water	Black, Blue
Medidor de Agua	Black
ICV	Green
Potable	Black, Blue
Reclaim Water, No Beber'	Purple
Sewer	Black, Green
Gas	Black, Green
Electric	Gray



Lid with Brass Key



Molded AMR Transponder Locator

Anti-Float™ Polymer 'E' Lids

A special blended polymer 'E' lid that provides Anti-Float™ properties to help prevent the lid from floating off the meter box during heavy rains or flooding.

Option Code = AF

Position in Part Number = Before the Color Option

Option Cost = 10% added to the Base Price

Example - DFW1218-AF1-LID

DFW1218-1-LID - $28.25 EA.

$28.25 X 110% = $31.10 EA.



Drilled Touch Read Hole

Domestic cast iron lids are available from EJ USA.

Visit EJ USA at www.ejco.com or call 1.800.874.4100

Made in the U.S.A. ♻ Responsible Recycler

For other sizes, colors, and options, please contact our Customer Service Department at 1.800.806.3251

Heavy Duty | Polymer Round & Oval Meter Boxes



DFW18AMR-1BA-LID



DFW-1818FR

Heavy Duty Round Series

- Polymer pit that accommodates flat cast iron or ductile iron rings
- Available in 18", 24" and 28" diameters
- Available in a variety of depths
- Bodies available in white or black
- Patented lid design with or without AMR options

HEAVY DUTY ROUND BODIES		List Price	Pallet Qty	Weight	Standard Lid
DFW-1814F	18X14 FLAT ROUND BLACK POLYMER BODY	$63.55	20	12.50	DFW18AMR-1-LID
DFW-1814FH	18X14 FLAT ROUND BLACK HEAVY POLYMER BODY	$73.10	20	16.00	DFW18AMR-1-LID
DFW-1818F	18X18 FLAT ROUND BLACK POLYMER BODY	$73.40	16	16.00	DFW18AMR-1-LID
DFW-1818TEX	18X18 FLAT ROUND WIDE BLACK POLYMER BODY	$91.80	16	18.00	DFW18AMR-1-LID
DFW-182418FTP	18X24X18 FLAT ROUND TAPERED BLACK POLYMER BODY	$91.80	24	19.00	DFW18AMR-1-LID
DFW-182424FTP	18X24X24 FLAT ROUND TAPERED BLACK POLYMER BODY	$110.10	24	24.00	DFW18AMR-1-LID
DFW-1824F	18X24 FLAT ROUND BLACK POLYMER BODY	$82.60	12	18.50	DFW18AMR-1-LID
DFW-1830F	18X30 FLAT ROUND BLACK POLYMER BODY	$103.05	8	22.00	DFW18AMR-1-LID
DFW-1836F	18X36 FLAT ROUND BLACK POLYMER BODY	$123.90	8	25.00	DFW18AMR-1-LID
DFW-2418F	24X18 FLAT ROUND BLACK POLYMER BODY	$134.10	12	25.00	DFW20AMRI-1-LID
DFW-2424F	24X24 FLAT ROUND BLACK POLYMER BODY	$180.65	9	30.00	DFW20AMRI-1-LID
DFW-2818F	28X18 FLAT ROUND BLACK POLYMER BODY	$186.30	8	30.00	DFW20AMRI-1-LID
DFW-2824F	28X24 FLAT ROUND BLACK POLYMER BODY	$207.00	8	37.00	DFW20AMRI-1-LID
DFW-2830F	28X30 FLAT ROUND BLACK POLYMER BODY	$231.50	4	43.00	DFW20AMRI-1-LID
DFW-2836F	28X36 FLAT ROUND BLACK POLYMER BODY	$262.55	4	48.00	DFW20AMRI-1-LID
DFW-3636F	36X36 FLAT ROUND BLACK POLYMER BODY	$388.10	2	77.00	DFW20AMRI-1-LID

Weights may vary +/- 5%

* Load ratings are DFW lid in corresponding DFW body

Heavy Duty | Polymer Round & Oval Meter Boxes



DFW18AMR-1BA-LID



DFW-1818FR

Heavy Duty Round Series

- Polymer pit that accommodates flat cast iron or ductile iron rings
- Available in 18", 24" and 28" diameters
- Available in a variety of depths
- Bodies available in white or black
- Patented lid design with or without AMR options

HEAVY DUTY ROUND BODIES WITH CAST IRON RING		List Price	Pallet Qty	Weight	Standard Lid
DFW-1814FR	18X14 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$81.50	20	25.50	DFW18AMR-1A-LID
DFW-1818FR	18X18 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$91.35	16	27.00	DFW18AMR-1A-LID
DFW-1818TEXR	18X18 FLAT ROUND WIDE BLACK POLYMER BODY W/ CI RING	$109.70	16	31.00	DFW18AMR-1A-LID
DFW-1824FR	18X24 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$100.55	12	32.00	DFW18AMR-1A-LID
DFW-1836FR	18X36 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$141.80	8	38.00	DFW18AMR-1A-LID
DFW-2418FR	24X18 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$230.85	12	76.00	DFW20AMRI-1A-LID
DFW-2424FR	24X24 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$277.45	8	83.00	DFW20AMRI-1A-LID
DFW-2818FR	28X18 FLAT ROUND BLACK POLYMER BODY W/ CI RING	$291.15	8	83.00	DFW20AMRI-1A-LID

CAST IRON RINGS		List Price	Pallet Qty	Weight	Load Rating *
DFW-18G	18" DIAMETER CAST IRON RING W/ 12" LID OPENING	$17.90	N/A	13.00	N/A
DFW-24G	24" DIAMETER CAST IRON RING W/ 20" LID OPENING	$96.75	N/A	53.00	N/A
DFW-28G	28" DIAMETER CAST IRON RING W/ 20" LID OPENING	$104.85	N/A	53.00	N/A

HEAVY DUTY STANDARD ROUND LIDS		List Price	Pallet Qty	Weight	Load Rating *
DFW18AMR-1-LID	12" DIAMETER ROUND BLACK POLYMER LID	$21.50	250	4.75	H-10
DFW18AMRX-1-LID	12" DIAMETER ROUND BLACK POLYMER LID	$21.50	250	6.50	H-10
DFW20AFD-1-LID	20" DIAMETER ROUND BLACK POLYMER LID (FOR FORD RING)	$76.75	50	22.00	PEDESTRIAN
DFW20AMRD-1-LID	20" DIAMETER ROUND BLACK POLYMER LID (FOR DOMESTIC RING)	$67.80	50	20.50	PEDESTRIAN
DFW20AMRI-1-LID	20" DIAMETER ROUND BLACK POLYMER LID (FOR IMPORT RING)	$67.80	50	20.50	PEDESTRIAN

Weights may vary +/- 5%

* Load ratings are DFW lid in corresponding DFW body

Made in the U.S.A. ♻ Responsible Recycler

For other sizes, colors, and options, please contact our Customer Service Department at 1.800.806.3251

www.dfwplasticsinc.com

Heavy Duty | Polymer Round & Oval Meter Boxes



DFW1014-1A-LID



DFW1218-11-BODY

Heavy Duty Oval Series
- Lid sits flush in box
- Product designed for installation in non-deliberate or incidental traffic areas. Not intended for installation in roadways.
- Special blend polyethylene polymer

HEAVY DUTY OVAL BODIES		List Price	Pallet Qty	Weight	Standard Lid
DFW1017-10-BODY	10X17X10 OVAL BLACK POLYMER BODY	$36.75	32	8.00	DFW1017-1-LID
DFW1017-14-BODY	10X17X14 OVAL BLACK POLYMER BODY	$46.60	32	11.00	DFW1017-1-LID
DFW1218-11-BODY	12X18X11 OVAL BLACK POLYMER BODY	$43.45	24	11.00	DFW1218-1-LID
DFW1219-10-BODY	12X19X10 OVAL BLACK POLYMER BODY	$43.45	32	10.00	DFW1219-1-LID
DFW1219-18-BODY	12X19X18 OVAL BLACK POLYMER BODY	$56.45	16	14.00	DFW1219-1-LID
DFW1317-15-BODY	13X17X15 OVAL BLACK POLYMER BODY	$53.30	18	13.00	DFW1317-1-LID
DFW1424-15-BODY	14X24X15 OVAL BLACK POLYMER BODY	$93.20	6	24.00	DFW1424-1-LID

HEAVY DUTY STANDARD OVAL LIDS		List Price	Pallet Qty	Weight	Load Rating *
DFW1017-1-LID	10X17 OVAL BLACK POLYMER LID	$15.55	200	5.00	PEDESTRIAN
DFW1218-1-LID	12X18 OVAL BLACK POLYMER LID	$28.25	150	7.00	PEDESTRIAN
DFW1219-1-LID	12X19 OVAL BLACK POLYMER LID	$31.10	150	8.00	H-10
DFW1219SL-1-LID	12X19 OVAL SL BLACK POLYMER LID	$31.10	150	9.00	H-10
DFW1219SS-1-LID	12X19 OVAL SS BLACK POLYMER LID	$31.10	150	8.00	H-10
DFW1317-1-LID	13X17 OVAL BLACK POLYMER LID	$34.60	150	9.00	H-10
DFW1424-1-LID	14X24 OVAL BLACK POLYMER LID	$61.45	60	13.00	H-10

Weights may vary +/- 5%

* Load ratings are DFW lid in corresponding DFW body

Heavy Duty | Polymer Round & Oval Meter Boxes


DFW12AFOX-1A-LID


DFW6510-1Q-LID


DFW12ACO-1A-LID

Retrofit Lids

- Standard Flush Mount fit
- Molded AMR Transponder underneath lid to provide security and signal strength
- Lid has ability to custom fit to metal ring
- Skid resistant texture on lid
- Locking options: Key or Worm Lock
- Security option available

HEAVY DUTY RETROFIT LIDS - SQUARE & OVAL		List Price	Pallet Qty	Weight	Load Rating *
DFW918-1-LID	9X18 OVAL BLACK POLYMER LID	$32.85	200	8.00	H-10
DFW1012-1-LID	10X12 SQUARE BLACK POLYMER LID	$15.55	200	6.00	H-10
DFW1014-1-LID	10X14 OVAL BLACK POLYMER LID	$15.55	200	6.00	H-10
DFW1016-1-LID	10X16 OVAL BLACK POLYMER LID	$18.60	200	7.00	H-10
DFW1018-1-LID	10X18 OVAL BLACK POLYMER LID	$25.40	200	7.00	H-10
DFW1115-1-LID	11X15 SQUARE BLACK POLYMER LID	$39.25	200	6.00	H-10
DFW1218R-1-LID	12X18 OVAL BLACK POLYMER LID	$34.50	150	6.00	H-10
DFW1912-1-LID	12X19 OVAL BLACK POLYMER LID	$31.10	150	8.00	H-10
DFW1317R-1-LID	13X17 OVAL BLACK POLYMER LID	$34.60	150	9.00	H-10
DFW6510-1Q-LID	6.5X10 OVAL BLACK KEYHOLE POLYMER LID	$17.75	500	2.50	H-10
DFW6510P-1Q-LID	6.5X10 OVAL BLACK AMR PIN HANGER KEYHOLE POLYMER LID	$17.75	500	2.50	H-10
DFW6514-1Q-LID	6.5X14 OVAL BLACK KEYHOLE POLYMER LID	$21.20	500	3.00	H-10
DFW6514P-1Q-LID	6.5X14 OVAL BLACK AMR PIN HANGER KEYHOLE POLYMER LID		500	3.00	H-10

Weights may vary +/- 5%

* Load ratings are for DFW retrofit lids only. Rating may change based on manufacturer of body.

Heavy Duty | Polymer Round & Oval Meter Boxes

HEAVY DUTY RETROFIT LIDS - ROUND		List Price	Pallet Qty	Weight	Load Rating *
DFW10-1-LID	10" DIAMETER ROUND BLACK POLYMER LID	$17.45	200	4.00	H-10
DFW10AMR-1-LID	10" DIAMETER ROUND BLACK POLYMER LID	$17.45	200	4.00	H-10
DFW11-1-LID	10-7/8" DIAMETER ROUND BLACK POLYMER LID	$20.75	250	3.00	H-10
DFW1110-1-LID	11-11/16" DIAMETER ROUND BLACK POLYMER LID	$20.75	250	4.00	H-10
DFW12A-1-LID	12" DIAMETER ROUND BLACK HONEY COMB POLYMER LID	$20.75	250	5.50	H-10
DFW12ACO-1-LID	12" DIAMETER ROUND BLACK CO OVERLAP POLYMER LID	$20.75	250	5.50	H-10
DFW12AFD-1-LID	12" DIAMETER ROUND BLACK FORD DROP-IN POLYMER LID	$20.75	250	6.00	H-10
DFW12AFOC-1-LID	12" DIAMETER ROUND BLACK FORD OVERLAP "C" POLYMER LID	$20.75	250	5.50	H-10
DFW12AFOX-1-LID	12" DIAMETER ROUND BLACK FORD OVERLAP "X" POLYMER LID	$20.75	250	5.50	H-10
DFW12AMOX-1-LID	12" DIAMETER ROUND BLACK MUELLER OVERLAP POLYMER LID	$20.75	250	5.50	H-10
DFW12AYD-1-LID	12" DIAMETER ROUND BLACK YOKE POLYMER LID	$20.75	250	4.00	H-10
DFW12FOCL-1-LID	12" DIAMETER ROUND BLACK FORD DROP-IN POLYMER LID	$20.75	250	6.00	H-10
DFW12FOCXL-1-LID	12" DIAMETER ROUND BLACK FORD CX POLYMER LID	$20.75	250	6.00	H-10
DFW12MW-1-LID	12" DIAMETER ROUND BLACK MONITORING WELL POLYMER LID	$23.60	250	8.00	H-10
DFW14AFD-1-LID	14" DIAMETER ROUND BLACK POLYMER LID	$23.00	150	6.00	H-10
DFW15A-1-LID	15" DIAMETER ROUND BLACK POLYMER LID	$28.85	150	20.00	H-10
DFW15AFD-1-LID	15" DIAMETER ROUND BLACK FORD DROP-IN POLYMER LID	$28.85	150	14.00	H-10
DFW15MUE-1-LID	15" DIAMETER ROUND BLACK MUELLER POLYMER LID	$28.85	150	14.00	H-10
DFW18FD-1-LID	19" DIAMETER ROUND BLACK FORD POLYMER LID	$59.35	60	15.00	H-10
DFW18MUE-1-LID	19" DIAMETER ROUND BLACK MUELLER POLYMER LID	$59.35	60	15.00	H-10
DFW18SD-1-LID	18" DIAMETER ROUND BLACK STORM DRAIN POLYMER LID	$59.35	60	17.00	H-10
DFW19AMR-1-LID	19" DIAMETER ROUND BLACK POLYMER LID	$59.35	60	15.00	H-10
DFW19SD-1-LID	19" DIAMETER ROUND BLACK STORM DRAIN POLYMER LID	$59.35	60	17.00	H-10
DFW20AXF-1-LID	20" DIAMETER ROUND BLACK FORD POLYMER LID	$76.75	50	22.00	H-10

Weights may vary +/- 5%

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