REQUEST FOR PROPOSAL

FOR

WATER METERS, BASE STATION & REPEATERS (COMPATIBLE WITH THE HARMONY DATA ACQUISITION SOFTWARE)

Proposal Opening Date: 9/3/19

Proposal Opening Time: 2:00 P.M.

City of Covington

Utility Billing

(Issued: July 3, 2019)

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REQUEST FOR PROPOSAL
FOR WATER METERS, BASE STATION & REPEATERS (COMPATIBLE WITH THE HARMONY DATA ACQUISITION SOFTWARE)

1 General Information

The City of Covington Utility Billing Office is seeking proposals from qualified vendors to provide Water Meters, Base Station and Repeaters on an AMI 2-way fixed network must be compatible with the Harmony data acquisition software already in place and related equipment, also must be compatible with Tyler Technologies Munis software to generate utility bills as described in this Request for Proposal (RFP) document. Proposal shall include details including warranty information, product specifications, maintenance, pricing, and any additional necessary training.

The purpose and intention of this Request for Proposal (RFP) is to afford all suppliers an equal opportunity to bid on all supplies and/or equipment listed in this bid proposal and for the City to obtain competitive proposals as allowed by Louisiana Revised Statues from bona fide, qualified proposers who are interested in providing such supplies, as specifically described in the addendums attached hereto. The City of Covington will accept only one bid from each vendor. Items must meet or exceed specifications.

2 Definitions

A. Shall – The term "shall" denotes mandatory requirements.

B. Must - The term "must" denotes mandatory requirements.

C. May – The term "may" denotes an advisory or permissible action.

D. Should – The term "should" denotes a desirable action.

E. Contractor – Any person having a contract with a governmental body.

F. City – Any department, council, board, office, committee or other establishment of the executive branch of the City of Covington authorized to participate in any contract resulting from this solicitation.

G. Discussions- For the purposes of this RFP, a formal, structured means of conducting written or oral communications/presentations with responsible Proposers who submit proposals in response to this RFP.

H. RFP – Request

3 Schedule of Events

1.	RFP and posted to website	7/3/19
2.	Advertisements placed in official journal	7/3/19,7/10/19,7/17/19
3.	Deadline to receive written inquiries	7/25/19
4.	Deadline to answer written inquiries	8/8/19
5.	Proposal Opening Date (deadline for submitting proposals)	9/3/19
6.	Notice of Intent to Award to be mailed	9/12/19
7.	Contract Initiation	9/19/19

NOTE: The City of Covington reserves the right to revise this schedule. Any such Revision will be formalized by the issuance of an addendum to the RFP.

4 Proposal Submittal

This complete and detailed RFP is available for public inspection and downloading in electronic form at the city's website at www.covla.com. It is also available in PDF format or in printed form by submitting a written request to the Purchasing Agent of the City of Covington at ssharp@covla.com, by calling for a copy at (985) 898-4733 option 2 or by requesting a copy in person at Covington City Hall, 317 N Jefferson Avenue, Covington, LA 70433.

It is the Proposer's responsibility to check the city's website frequently for any possible addenda that may be issued. The City of Covington is not responsible for a proposer's failure to download any addenda documents required to complete a Request for Proposal.

All proposals must be **SEALED** and shall be received by Purchasing Agent of the City of Covington **no later than the date and time shown in the Schedule of Events.**

Important - - Clearly mark outside of envelope, box or package with the following Information and format:

Proposal Name: Request for Proposal for Water Meters, Base Station, & Repeaters
Opening Date: 9/3/19

Proposals may be mailed through the U.S. Postal Service or hand-delivered to:

Stacey Sharp - Purchasing Agent
City of Covington
317 N. Jefferson Avenue
Covington, LA 70433

Proposer is solely responsible for ensuring that its courier service provider makes inside deliveries to our physical location. The City of Covington is not responsible for any delays caused by the proposer's

chosen means of proposal delivery. Proposer is solely responsible for the timely delivery of its proposal. Failure to meet the proposal opening date and time shall result in rejection of the proposal. **NO FAXED OR EMAILED BIDS WILL BE ACCEPTED OR CONSIDERED**. Proposals shall be opened publicly at the physical location identified above.

5 Proposal Response Format

Proposals submitted for consideration should be signed by an authorized representative, be written in ink or typewritten and should follow the format and order of presentation described below. Pencil and/or photocopied signatures disqualify the bid.

A. **Cover Letter**: The cover letter should contain a summary of Proposer's ability to provide the materials or supplies described in the RFP and confirm that Proposer is willing to provide those materials or supplies and enter into a contract with the City.

ATTENTION: Please indicate in the Cover Letter which of the following applies to the signer of this proposal. Evidence of signature authority shall be provided upon the City's request.

1. The signer of the proposal is either a corporate officer who is listed on the most current annual report on file with the Secretary of State or a member of a partnership or partnership in commendams as reflected in the most current partnership records on file with the Secretary of State. **A copy of the annual report or partnership record must be submitted to the City of Covington before contract award.**

2. The signer of the proposal is a representative of the proposer authorized to submit this proposal as evidenced by documents such as, corporate resolution, certification as to corporate principal, etc. **If this applies a copy of the resolution, certification or other supportive documents must be attached to the Cover Letter.**

3. The cover letter should also

- Identify the submitting Proposer and provide their federal tax identification number;
- Identify the name, title, address, telephone number, fax number, and email address of each person authorized by the Proposer to contractually obligate the Proposer;
- Identify the name, address, telephone number, fax number, and email address of the contact person for technical and contractual clarifications throughout the evaluation period.

B. **Financial Proposal:** Proposer's fees and other costs shall be submitted on the forms provided. Prices proposed shall be firm for the duration of the contract. This financial proposal shall include any and all costs the Contractor wishes to have considered in the contractual arrangement with the City.

5.1 Number of Response Copies

Each Proposer shall submit one (1) signed original response. Two (2) additional copies of the proposal should be provided.

5.2 Legibility/Clarity

Responses to the requirements of this RFP in the formats requested are desirable with all questions answered. Proposals prepared simply and economically, providing a straightforward, concise description of the Proposer's ability to meet the requirements of the RFP is also desired. Each Proposer is solely responsible for the accuracy and completeness of its proposal.

6 Confidential Information, Trade Secrets, and Proprietary Information

The cost proposal will not be considered confidential under any circumstance. Any proposal copyrighted or marked as confidential or proprietary in its entirety may be rejected without further consideration or recourse.

For the purposes of this procurement, the provisions of the Louisiana Public Records Act (La. R.S. 44.1 et. seq.) will be in effect. Pursuant to this Act, all proceedings, records, contracts, and other public documents relating to this procurement shall be open to public inspection.

The City reserves the right to make any proposal, including proprietary information contained therein, available to City personnel, the Office of the Mayor, or other City agencies or organizations for the sole purpose of assisting the City in its evaluation of the proposal.

7 Proposer Inquiry Periods

The City shall not and cannot permit an open-ended inquiry period, as this creates an unwarranted delay in the procurement cycle and operations for our City customers. The City reasonably expects and requires responsible and interested proposers to conduct their in-depth proposal review and submit inquiries in a timely manner.

An inquiry period is hereby firmly set for all interested proposers to perform a detailed review of the proposal documents and to submit any written inquiries relative thereto. All inquiries must be received by the close of business on the Inquiry Deadline date set forth in the Schedule of Events of this RFP. Only those inquiries received by the established deadline shall be considered by the City. Inquiries received after the established deadline shall not be entertained.

Inquiries concerning this solicitation must be submitted by e-mail or fax to:

City of Covington Utility Billing
Attention: Cindy Samuel
Utility Billing Director
E-Mail: csamuel@covla.com
Fax: (985)867-1215

An addendum will be issued and posted at the City of Covington website, to address all inquiries received and any other changes or clarifications to the solicitation. Thereafter, all proposal documents, including but not limited to the specifications, terms, conditions, plans, etc., will

stand as written and/or amended by any addendum. No negotiations, decisions, or actions shall be executed by any proposer as a result of any oral discussions with any City employee or City consultant. It is the Proposer's responsibility to check the City website frequently for any possible addenda that may be issued. The City of Covington is not responsible for a proposer's failure to download any addenda documents required to complete a Request for Proposal.

Any person aggrieved in connection with the solicitation or the specifications contained therein, has the right to protest. Such protest shall be made in writing to the Chief Administrative Officer at least two days prior to the deadline for submitting proposals.

8 Errors and Omissions in Proposal

The City will not be liable for any error in the proposal. Proposer will not be allowed to alter proposal documents after the deadline for proposal submission, except under the following condition: The City reserves the right to make corrections or clarifications due to patent errors identified in proposals by the City or the Proposer. The City, at its option, has the right to request clarification or additional information from the Proposer.

9 Proposal Guarantee

Proposal guarantees shall be subject to forfeiture for failure on the part of the selected proposer to execute a contract within seven (7) days after such contract is submitted to proposer in conformance with the terms, conditions, and specifications of this solicitation.

10 Changes, Addenda, Withdrawals

The City reserves the right to change the Schedule of Events or issue Addenda to the RFP at any time. The City also reserves the right to cancel or reissue the RFP.

If the proposer needs to submit changes or addenda, such shall be submitted in writing, signed by an authorized representative of the proposer, cross-referenced clearly to the relevant proposal section, prior to the proposal opening, and should be submitted in a sealed envelope. Such shall meet all requirements for the proposal.

11 Withdrawal of Proposal

A proposer may withdraw a proposal that has been submitted at any time up to the proposal closing date and time. To accomplish this, a written request signed by the authorized representative of the proposer must be submitted to the City of Covington.

After the bid opening, bids may be withdrawn by the bidder only if done by affidavit within 48 hours, but only for "patently obvious, unintentional, and substantial mechanical, clerical or mathematical errors." Any bidder who does not fulfill their bid, will be responsible for paying the difference between his bid and the next lowest bidder.

12 Material in the RFP

Proposals shall be based only on the material contained in this RFP. The RFP includes official responses to questions, addenda, and other material, which may be provided by the City pursuant to the RFP.

13 Waiver of Administrative Informalities

The City reserves the right, at its sole discretion, to waive administrative informalities contained in any proposal.

14 Proposal Rejection

Issuance of this RFP in no way constitutes a commitment by the City to award a contract. The City reserves the right to accept or reject any or all proposals submitted or to cancel this RFP if it is in the best interest of the City to do so.

In accordance with the provisions of R.S. 39:2192, in awarding contracts after August 15, 2010, any public entity is authorized to reject a proposal or bid from, or not award the contract to, a business in which any individual with an ownership interest of five percent or more, has been convicted of, or has entered a plea of guilty or nolo contendere to any state felony or equivalent federal felony crime committed in the solicitation or execution of a contract or bid awarded under the laws governing public contracts under the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes of 1950, professional, personal, consulting, and social services procurement under the provisions of Chapter 16 of this Title, or the Louisiana Procurement Code under the provisions of Chapter 17 of this Title.

15 Ownership of Proposal

All materials (paper content only) submitted in response to this request become the property of the City. Selection or rejection of a response does not affect this right. All proposals submitted will be retained by the City and not returned to proposers. Any copyrighted materials in the response are not transferred to the City.

16 Cost of Offer Preparation

The City is not liable for any costs incurred by prospective Proposers or Contractors prior to issuance of or entering into a Contract. Costs associated with developing the proposal, preparing for oral presentations, and any other expenses incurred by the Proposer in responding to the RFP are entirely the responsibility of the Proposer, and shall not be reimbursed in any manner by the City of Covington.

17 Proposal Validity

All proposals shall be considered valid for acceptance until such time an award is made, unless the Proposer provides for a different time period within its proposal response. However, the City reserves the right to reject a proposal if the Proposer's acceptance period is unacceptable and the Proposer is unwilling to extend the validity of its proposal.

18 Prime Contractor Responsibilities

The selected Proposer shall be required to assume responsibility for all items and services offered in his proposal whether or not he produces or provides them. The City shall consider the selected Proposer to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the contract

19 Acceptance of Proposal Content

The mandatory RFP requirements shall become contractual obligations if a contract ensues. Failure of the successful Proposer to accept these obligations shall result in the rejection of the proposal.

20 Evaluation and Selection

THE CONTRACT SHALL BE AWARDED TO THE LOWEST RESPONSIBLE AGGREGATE BIDDER, TAKING INTO CONSIDERATION THE CONFORMITY WITH THE SPECIFICATIONS AND DELIVERY AVAILABILITY AND CHARGES.

PROPOSALS SHALL SET FORTH THE COST PER UNIT ON THE PROVIDED FORMS. The City of Covington will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid disqualification.

INDIVIDUAL ORDERS WILL BE PLACED UNDER THE CONTRACT. NO MINIMUM VALUE IS GUARANTEED.

The name of a particular brand, make or manufacturer in the specifications, as provided herein, is used only to denote the quality of standards, fit and compatibility of product desired and does not restrict bidders to the specific brand, make, manufacturer or specification name. Brand names are used only to set forth and convey to prospective bidders the general style, character and quality of product desired. Equivalent products meeting the minimum specifications will be acceptable. Bids may be submitted for products of equal quality, fit and compatibility provided brand names and stock numbers are specified and completed product data is submitted with bid.

All prices shall be quoted in the unit of measure specified, and unless otherwise specified, shall be exclusive of State and Parish taxes. As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. All bids shall be based on FOB delivery to the Utility Billing Department in the City of Covington.

21 Contract Negotiations

If for any reason the Proposer whose proposal is most responsive to the City's needs, price and other evaluation factors set forth in the RFP considered, does not agree to a contract, that proposal shall be rejected and the City may negotiate with the next most responsive Proposer. Negotiation may include revision of non-mandatory terms, conditions, and requirements. City must approve the final contract form and issue a purchase order, if applicable, to complete the process.

22 Contract Award and Execution

The City reserves the right to enter into a contract without further discussion of the proposal submitted based on the initial offers received. The RFP, including any addenda, and the proposal of the selected Contractor will become part of any contract initiated by the City.

If the contract negotiation period exceeds thirty (30) days or if the selected Proposer fails to sign the contract within seven calendar days of delivery of it, the City may elect to cancel the award and award the contract to the next-highest-ranked Proposer.
Award shall be made to the Proposer with the lowest aggregate price, whose proposal, conforming to the RFP, will be the most advantageous to the City of Covington, price and other factors considered. The City intends to award to a single Proposer.

23 Notice of Intent to Award

Upon review and approval for award, the City will issue a "Notice of Intent to Award" letter to the apparent successful Proposer. A contract shall be completed and signed by all parties.
Any person aggrieved by the proposed award has the right to submit a protest in writing, in accordance with RS: 39:1671, to the Chief Administrative Officer, within fourteen days of the award/intent to award.

24 Payment

The City shall pay the Contractor in accordance with the Pricing Schedule set forth in the attachment. The Contractor may invoice the City monthly at the billing address designated by the City. Payments will be made by the City within approximately thirty (30) days after receipt of a properly executed invoice, and approval by the City. Invoices shall include the contract and order number, using department and product purchased. Invoices submitted without the referenced documentation will not be approved for payment until the required information is provided.

25 Termination

25.1 Termination of the Contract for Cause

The City may terminate the contract for cause based upon the failure of the Contractor to comply with the terms and/or conditions of the contract, or failure to fulfill its performance obligations pursuant to the contract, provided that the City shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have corrected such failure or, in the case of failure which cannot be corrected in thirty (30) days, begun in good faith to correct such failure and thereafter proceeded diligently to complete such correction, then the City may, at its option, place the Contractor in default and the contract shall terminate on the date specified in such notice.

City of Covington reserves the right to cancel all or any part of the contract if orders are not shipped in the delivery time specified. The City of Covington reserves the right to cancel any contract at any time and for any reason by issuing a thirty (30) day written notice to the contractor and/or vendor.

The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the City to comply with the terms and conditions of the contract, provided that the Contractor shall give the City written notice specifying the City's failure and a reasonable opportunity for the City to cure the defect.

25.2 Termination of the Contract for Convenience

The City may terminate the contract at any time by giving thirty (30) days written notice to the Contractor of such termination or negotiating with the Contractor an effective date. The Contractor shall be entitled to payment for deliverables in progress.

25.3 Termination for Non-Appropriation of Funds

The continuance of the contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the council. If the council fails to appropriate sufficient monies to provide for the continuation of the contract, or if such appropriation is reduced by the veto of the Mayor or by any means provided in the appropriations act or Title 39 of the Louisiana Revised Statutes of 1950 to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

26 Assignment

The Contractor shall not assign any interest in the contract by assignment, transfer, or novation, without prior written consent of the City. This provision shall not be construed to prohibit the contractor from assigning his bank, trust company, or other financial institution any money due or to become due from approved contracts without such prior written consent. Notice of any such assignment or transfer shall be furnished promptly to the City.

27 No Guarantee of Quantities

The City does not obligate itself to contract for or accept more than the actual requirements during the period of the contract, as determined by actual needs and availability of appropriated funds.

28 Audit of Records

The City shall have the option to audit all accounts directly pertaining to the resulting contract for a period of five (5) years after project acceptance or as required by applicable City and Federal law. Records shall be made available during normal working hours for this purpose.

29 Civil Rights Compliance

The Contractor agrees to abide by the requirements of the following as applicable: Title VI and Title VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, the Federal Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Act of 1975, and Contractor agrees to abide by the requirements of the Americans with Disabilities Act of 1990. Contractor agrees not to discriminate in its employment practices, and will render services under the contract and any contract without regard to race, color, religion, sex, national origin, veteran status, political affiliation, or disabilities. Any act of discrimination committed by Contractor, or failure to comply with these statutory obligations when applicable shall be grounds for termination of the contract.

30 Record Retention

The Contractor shall maintain all records in relation to the contract for a period of at least five (5) years after final payment.

31 Record Ownership

All records, reports, documents, or other material related to any contract resulting from this RFP and/or obtained or prepared by Contractor in connection with the contract herein shall become the property of the City and shall, upon request, be returned by Contractor to the City, at Contractor's expense, at termination or expiration of the contract.

32 Content of Contract/ Order of Precedence

In the event of an inconsistency between the contract, the RFP and/or the Contractor's Proposal, the inconsistency shall be resolved by giving precedence first to the final contract, then to the RFP and subsequent addenda (if any) and finally, the Contractor's Proposal.

33 Contract Changes

No additional changes, enhancements, or modifications to any contract resulting from this RFP shall be made without the prior approval of City. Changes to the contract include any change in: compensation; beginning/ ending date of the contract; and/or Contractor change through the Assignment of Contract process. Any such changes, once approved, will result in the issuance of an amendment to the contract.

34 Governing Law

All activities associated with this RFP process shall be interpreted under Louisiana Law. All proposals and contracts submitted are subject to provisions of the laws of the City of Covington including but not limited to L.R.S. 39:1551-1736; purchasing rules and regulations; executive orders; standard terms and conditions; special terms and conditions; and specifications listed in this RFP.

35 Claims or Controversies

Any claims or controversies shall be resolved in accordance with the Louisiana Procurement Code, RS39:1673.

36 Anti-Kickback Clause

The Contractor hereby agrees to adhere to the mandate dictated by the Copeland "AntiKickback" Act which provides that each Contractor shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

37 Anti-Lobbying and Debarment Act

The Contractor will be expected to comply with Federal statutes required in the Anti-Lobbying Act and the Debarment Act.

38 Period of Agreement

The term of any contract resulting from this solicitation shall begin on the date of execution of the contract by all parties and will continue for a period of two (2) years with the option to renew for five (5) years.

39 Price Schedule

Prices proposed by the proposers should be submitted on the price schedule furnished herein an attachment hereto. Items from this bid contract will be purchased on an "as needed" basis.

40 Location & Delivery

All materials/supplies should be delivered to the Utility Billing Department located at 317 N. Jefferson Avenue, Covington, LA 70043.

41 Financial Proposal

Prices proposed by the Proposers should be submitted on the price schedule furnished in the attachment. Prices proposed shall be firm. The information provided in response to this section will be used in the Financial Evaluation to calculate lowest evaluated cost.

42 TECHNICAL SPECIFICATION

Following are the equipment specifications for bidders choosing to respond to this bid request for the Purchase of *Water Meters, Base Station and Repeaters on an AMI 2-way fixed network compatible with the Harmony data acquisition software and Tyler Technologies Munis software* for the City of Covington Utility Department. A Manufacturer's brochure and samples of equipment warranties must accompany each bid to verify that bid specifications meet the minimum allowable.

The use of a certain brand, make or manufacturer in the specifications is to denote the quality standard of the equipment desired, but does not restrict bidders to the specific brand, make or manufacturer named. It is to set forth and convey to prospective bidders the general style, type, character, quality, and compatibility of the equipment desired, and equivalent products will be considered.

- **SPECIFICATIONS FOR FIVE-EIGHTHS (5/8) INCH AND ONE (1) INCH COLD WATER METERS -MULTI-JET**

a) Except as otherwise modified or supplemented herein, the latest revision of AWWA Standard C-708 for Cold Water Meters - Multi-jet Type shall govern the materials, design, manufacture and testing of all meters furnished under this specification.as approved by the Department Director or his appointed agent. AWWA Standard C708 is considered by the City of Covington to be minimum requirements and shall be supplemented herein to ensure the quality required by the utilities department.

b) Meters shall be manufactured by a company with a minimum of ten (10) years experience in manufacturing of water meters. All water meters and meter components shall be assembled and tested within the Continental United States of America. Manufacturer's corporate home office shall be in the United States. Bids will be considered only from those companies who are actively engaged in the

manufacture of a complete line of water meters of various types, (i.e. multi-jet type, turbine, compound). Meters shall be bid ***without*** connections. Cold water meters 1" and smaller shall be magnetically driven, multi-jet, velocity type. The water utilities department reserves the right to request a sample meter to study prior to awarding a contract.

1 METER MAIN CASE

The main case shall be a solid case with removable bottom, cover ring or cover plate and will be manufactured to meet NSF 61 Annex G (AB1953) standards so constructed that the main case (including meter spuds) will withstand internal pressure and external stress to eliminate distortion, cracking and breaking, which will cause leakage, damage to other components or interfere with the proper operation of the meter in general. Bronze bottom, if applicable or cover shall be attached to the main case with stainless steel or bronze bolts. All external bolts, nuts and washers shall be of bronze, stainless steel or other non-corrosive metal. Main case connection for 5/8" x ¾" and 1-inch meters shall be spuds having external water meter threads with dimension as indicated by AWWA Standards. The meter serial number shall be imprinted permanently on the main case as well as clearly on the register top lid and run consecutively per size, per order. The register housing and lid shall be made of bronze or a suitable synthetic polymer. The size, model number of the meter and direction of the flow through the meter shall be imprinted permanently on the outer case of all meters. All meter cases shall be machine finished, with no sharp edges.

2 METER REGISTERS

Meter Interface Units (MIUs) must be integrated and permanently sealed within the meter register using a stainless steel register base, wrap around gasket and tempered glass lens. The unit must be battery operated using two 3.6volt Lithium Thionyl Chloride batteries for long operational life greater than 10 years. The MIU must transmit the meter reading and other information via a 450-470 MHz FCC Part 90 licensed frequency to a Mobile Data Collector Unit. The MIU must be capable of being configured to transmit priority alarms for leak, reverse flow events, low battery, and magnetic tamper. The MIU must be capable of two-way communication for field programming of a user selected ID number or for resetting specific alarm codes. Unit must be able to be programmed remotely and programming must be accomplished without removing the MIU from a pit, basement, or wall application. The MIU must be capable of operating at temperatures of (-4°F to +149°F) and operating humidity of O to 95% condensing. The MIU must incorporate a dual band antenna capable of providing consistent and reliable connections while the pit environment is flooded or dry. Range will not be affected substantially when the pit is partially flooded. Must have an integrated unit option where the power source, RF circuitry, meter register, and antenna are fully enclosed in a single IP-68 rated ruggedized enclosure. The MIU must have an integrated unit option where the power source, RF circuitry, and meter register are connected to an external antenna in an IP-68 rated ruggedized solution. The MIU must be compatible with use on multiple brands of water meters. These units must have programmable gear ratios and available with LCD displays. LCDs must permanently display consumption status and alarms: Totalization, Rate of flow, Unit of Measure, Billable Units, Low Battery Alarm, and Direction of flow. Each unit must be supplied with an appropriate register housing and adapter to retrofit the current make and model of 5/8" through 2" meters of the following meter manufacturers: Master Meter, Sensus SRII, AMCO/Elster C700, Hersey 400 / 500 Series, Neptune T-10, and Badger Recordall. ·

3 MEASURING CHAMBER

The measuring chamber shall be made of a suitable synthetic polymer material, which equals or exceeds AWVVA Standards. It shall be secured in a position in the main case in such a manner that slight distortion of the main case will not affect sensitivity or registration of the meter. The measuring chamber shall be of the velocity type and designed as to allow the flow of water to pass through precision, converging orifices causing the impeller to rotate providing a synchronous relationship between the velocity of the water passing through the chamber and registration. The measuring chamber shall be constructed in such a manner as to facilitate easy removal from the main case. To ensure longevity of service, the performance of the measuring chamber shall be guaranteed to meet required meter standards of AWVVA manual M-6 as follows:
New Meter Accuracy Repaired Meter Accuracy 5/8" x 3/4" 5 years or
750,000 gallons 20 years or 2,500,000 gallons
1" 5 years or 1,100,000 gallons 15 years or 3,250,000 gallons
The measuring chamber shall be covered for this period by written warranty as required in these specifications.

4 MAGNETIC COUPLINGS

There shall be no stuffing box. The motion of the multivaned rotor shall be transmitted to the sealed register through the use of a direct magnetic coupling. Magnets shall be of ceramic or approved equal.

5 STRAINER

All meters must be provided with a corrosion resistant strainer, which is easily removed from the meter.

6 CHANGE GEARS

Change gears are not acceptable. All registers of particular registration and meter size shall be identical and completely interchangeable.

7 ACCURACY AND HEAD LOSS TESTS

Meters shall conform to current AWWA test flow, head loss and accuracy standards.

8 PRESSURE CAPABILITY

Meters shall operate up to a working pressure of one hundred fifty (150) pounds per square inch and to a temperature of 120 degrees Fahrenheit, without leakage or damage to any parts. The accuracy shall not be affected when operating at this pressure to possible distortion.

9 WARRANTY REQUIREMENTS

The manufacturer's meter guarantee will be required with this bid and shall cover the following warranties: the entire meter shall be warranted to be free from defects in material and workmanship for a period of at least two years; and, the meter main case shall retain structural integrity for a period not less than twenty-five (25) years. All meters provided under this contract shall meet or exceed AWWA's C708 Standards for Accuracy as outlined above in Section 3 - Measuring Chamber.

10 ACCEPTABLE METERS

In the interest of standardization, the following meter lines are acceptable for use by The City of Covington provided they fully comply with the above specifications and meet all requirements in the bid package:

A. Master Meter BLMJ
B. Approved Equal

All meters not listed above shall pre-qualify. If any person contemplating submitting a bid desires approval of substitute materials or equipment, or is in doubt as to the meaning of any part of the specifications or other contract documents, he may submit to the Purchasing Agent a written request for prior approval or any interpretation no later than seven (7) days prior to the date for the receipt of bids. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents or approval of substitute materials or equipment will be made only by addendum duly issued.

Technical support personnel shall be based within one hour's travel time.

- **SPECIFICATIONS FOR TWO (2) INCH COLD WATER METERS- TRANSIT-TIME FLOWMETERS**

a) Except as otherwise modified or supplemented herein, the latest revision of AVWVA Standard C-750 Transit-Time Flowmeters shall provide theory and operation specifics on the basic ultrasonic concept. This document will govern the materials, design, manufacture and testing of all meters furnished under this specification or equal as approved by the Director or her appointed agent.

b) AWWA Standard C750 is considered by The City of Covington to be only the minimum requirements and shall be supplemented herein to ensure the quality required by the utilities department.

c) Meters shall be manufactured by a company with a minimum of ten (10) years experience in manufacturing various types of cold water meters such as Multi-jet, · Positive Displacement, Compound and Turbine Type water meters. The Manufacturer's corporate home office shall be in the United States.

d) Meters shall be bid without strainers and without companion flanges.

e) The water utilities department reserves the right to request a sample meter of a small size to study prior to awarding bids.

1 METER MAIN CASE

Outer cases shall be made of one of the following materials:

2": Stainless Steel SAE Grade 316 equaling or exceeding AWWA Standards such as those listed in ASTM A269.

All external bolts and nuts shall be made of bronze or stainless steel, and shall be so designed for easy removal after having been in service for a long period of time.

The main case shall withstand a working pressure of 175 PSI without leakage, seepage in the castings, or distortion affecting the free and accurate operation of the measuring unit.

The size of the meter and the direction of flow shall be case in raised letters on the outer surface of the case.

2 REGISTER COVER

The register box shall be made of an engineering plastic with the manufacturer's serial number inside the register lid. Serial number of the meter shall also be permanently programmed in the electronic register.

Register cover box shall be attached to main case in a tamper resistant manner. The register cover box shall be equipped with a hinged lid that will overlap the register to protect the reading area.

3 REGISTER

The factory sealed register shall be electronically driven only and shall be furnished with a low flow leak detection symbol and with a reverse flow notification symbol. The register shall be identical within a given size or model subject to the programming of appropriate flow factors for the particular meter. An effectively tamper proof meter with a displayed tamper indication symbol, is required. The register shall be programmed initially to read in US. Gallons as ordered by The City of Covington. The transparent LCD register glass lens shall be made of molded heat-treated 0.25" glass to ensure against scratching and breakage. Serial number shall be permanently programmed in the electronic register.

As defined in these specifications, a "factory sealed" register shall mean a non-fogging, moisture and dust-proof register, electronically driven by the measuring section transit time sensors. Appearance of any fogging or moisture inside the register within the warranty period shall constitute component failure and will require a factory replacement. Register shall indicate reverse flow, rate of flow, low battery indication, leak alert, as well as no flow condition.

4 MEASURING SECTION

The measuring section shall be a unitized unit, completely integral to the meter body. The measuring section shall not include any moving parts and the measuring section shall have an unobstructed flow passage area at least equal to 50% of the normal schedule 40 pipe size corresponding to the meter's size.

All parts of the measuring section shall be similar with assemblies of the same size and material.

The measuring section shall be secured in a position in the main case in such a manner that slight distortion of the outer meter case will not affect the sensitivity or registration of the meter.

To ensure longevity of service, the performance of the measuring chamber shall be guaranteed to meet required Compound meter accuracy standards of AWWA M6 Manual for a period of two years from date of manufacturer's shipment.

The measuring section shall be covered for this period by written warranty as required or mentioned elsewhere in these specifications.

5 SIGNAL PROCESSING

Two pairs of sensors are to be mounted in the chordal direct configuration in the measuring section to measure the actual transit time of the initiated and reception-generated ultrasonic sound pulses. Transit time measurements for a single pass of initiated and return pulses are to be accurate to within 300 pico-seconds for a loop time.
Multiple measurements are sampled at a minimum of 1 second intervals of these transit time loops that are made to significantly improve accuracy over a single pass transit time measurements as employed in typical AWWA C750 ultrasonic meters to achieve low flow rate measuring accuracy.

Ultrasonic meters using single directional sound transmission to determine flow measurements are not acceptable. Meters that use measurements principles based on Faraday's Law are not permitted.

6 SIGNAL OUTPUTS

The meter shall have 3 optional outputs - Analog, Dual Digital pulse output, or encoder output.

The Analog Output is a 4 - 20 mA current loop (the end user must supply power to the unit). 4 mA is always the set as the lower flow cutoff and the 20 mA output corresponds to the Max Flow Rate of the meter.

The Digital (pulse) Output is to be an open collector (open drain) transistor output that provides pulse per quantity with these options:

- Two scaled forward flow pulses.
- One scaled pulse forward flow and one flow direction.
- One scaled forward flow pulse and one scaled reverse flow pulse.

The Encoder Output is to be serial communication collector utilizing Ul1203 or Ul1204 communication protocol.

The City of Covington shall choose one of these three basic output choices with dependent options on the Digital pulse option.

7 ACCURACY AND HEAD LOSS TESTS

Meters shall EXCEED current AWWA C-702 test flow, head loss and accuracy standards as follows.

Size	Safe Max Flow Rate	C-750 Flow Range Accuracy +/-0.5%	Normal Flow Range Accuracy +/- 0.5%	Extended Low Flow Range Accuracy +/-5%	Head Loss @ Safe Max	Low Flow Sensitivity
2"	250 GPM	4-200 GPM	½ GPM - 250 GPM	0.25 GPM	1.3 PSI	1/16 GPM

8 PRESSURE CAPABILITY

Meters shall operate up to a working pressure of one hundred seventy five (175) pounds per square inch (PSI) and to a temperature of 122 degrees Fahrenheit, without leakage or damage to any parts. The accuracy shall not be affected when operating at this pressure to possible distortion.

9 ACCEPTABLE METERS

In the interest of standardization, the following meter lines are acceptable to The City of Covington provided they fully comply with the above specifications and meet all requirements in the bid package:

A. MASTER METER OCTAVE
B. APPROVED EQUAL

All meter models shall be at a minimum ultrasonic type with at least two transit time paths. All meters not listed above shall pre-qualify. If any person contemplating submitting a bid desires approval of substitute materials or equipment, or is in doubt as to the meaning of any part of the specifications or other contract documents, he may submit to the Purchasing Agent a written request for prior approval or any interpretation no later than seven (7) days prior to the date for the receipt of bids. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents or approval of substitute materials or equipment will be made only by addendum duly issued.

10 BIDDERS RESPONSIBILITY TO TIDS SPECIFICATION

It is the responsibility of each bidder to carefully examine these specifications and the bid documents and become familiar with the requirements set forth herein. In addition, it is the responsibility of each bidder to submit all necessary information concerning their product to The City of Covington. Failure to do so could result in your bid being declared as non-responsive.

Meters will be purchase on an as needed basis.

METER SIZE	PRICE
5/8 x ¾ Meters	
1" Meters	
2" Meters	

43 BASE STATION INFRASTRUCTURE AND REPEATERS

1. SPECIFICATIONS FOR BASE STATION AND REPEATERS

AMI system communication network that will interfaces between a water utility, residential and business customers. The tower based system operates in the licensed 450MHz - 470MHz frequency spectrum offering superior reliability and extensive geographic reach. Operating temperature must be between -14° F to 122° F for both the base station and repeaters. Base Stations and repeaters must have Two-way Communications, Time-Synchronized readings, Multiple backhaul options, Over-the-air programming / remote firmware updates, Extensive geographic reach, End-to-End security, 15 minute usage/ consumption data, Low RF interference, Data and events time stamped FCC Compliance, Highest Tx/Rx link budget AMR to AMI Migratable Extended lifetime, Data Storage for redundant transmissions UPS Battery Backup, and NEMA weatherproof enclosure options. Also, both must have an internal surge protection. Endpoints and repeaters must automatically match the base station's pre-programmed frequency pairs and with the backhaul connected via cellular network, interval data will be transmitted along a reliable and stable path. The City is looking to improve on billing accuracy, On demand reads, Immediate tamper and theft detection. and Leak Alerts.

Base Station Infrastructure	Price
Base Station Using Existing Infrastructure (Includes: Omni Directional Antenna for Base Station, Backup Power Supply Base Station, External Omni Antenna, LMR400 Cable Assembly)	
Standard Repeaters	

44. PROP STUDY REFERANCE

List of City Assets with Addresses

City Hall	317 N Jefferson Avenue
Fire Department	525 N Jefferson Avenue
Fire Department	2059 Phillip Drive
Police Department	609 N Columbia
Public Works	1300 W 27th Avenue
Covington Recreation	4001 de Porres Road
Covington Trailhead	419 N New Hampshire
Hubie Gallagher Park	1000 W 15th Avenue
Peter Atkins Park	701 N Tyler
Bogue Falaya Park	213 Park Drive
Ozone Park	229 S Park Lane
Menetre Park Public Boat Launch	1808 S Water Street
Columbia Street Landing	100 N Columbia
1st Avenue Park	401 E 1st Avenue
Theard Street Fire Station	432 N. Theard Street
Well 1	669 Filmore & W. 16th Ave
Well 2	2626 W. 15TH & Ellen
Well 3	Bollfield Rd & Branch Crossing
Tower 1	W. 16TH Ave & S. Filmore
Tower 2	N. Columbia & N. Pierce

If active meter addresses are needed please request that information from the City of Covington Utility Billing Department, Attention: Cindy Samuel, Utility Billing Director, E-Mail: csamuel@covla.com, Fax: (985)867-1215

City of Covington
Engineering/GIS
317 N. Jefferson Ave, Covington, LA
985-892-1811 Ext. 736

Map Author: C. Whaley

Map Publish Date: November 2015

THE NORTH AMERICAN DATUM 1983 (NAD 83) AND THE WORLD GEODETIC SYSTEM 1984 DATUM (WGS 84) ARE EQUIVALENT FOR MAPPING, CHARTING AND NAVIGATION AT THIS SCALE.

Disclaimer

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IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE OR REQUIRE MORE ACTUAL INFORMATION, PLEASE CONTACT THE CITY OF COVINGTON.

NAD 1983 StatePlane Louisiana South FIPS 1702 (US Feet)

CITY OF COVINGTON
ST. TAMMANY PARISH, LOUISIANA

N
S

1 inch = 800 feet

0 800 1,600 2,400 3,200 4,000 Feet

Covington, Louisiana

MIKE COOPER
Mayor

46 PRICE SCHEDULE FORM

ITEM	BRAND	AVAILIBILITY	PRICE
5/8 x ¾ Meters			
1" Meters			
2" Meters			
Base Station Using Existing Infrastructure (Includes: Omni Directional Antenna for Base Station, Backup Power Supply Base Station, External Omni Antenna, LMR400 Cable Assembly)			
Standard Repeaters			