



CITY OF PETALUMA

POST OFFICE BOX 61
PETALUMA, CA 94953-0061

ADDENDUM NO. 1

Advanced Metering Infrastructure (AMI) Implementation Project E67502242

February 22, 2024

This Addendum No. 1 modifies the Bidding Documents for the Advanced Metering Infrastructure (AMI) Implementation Project E67502242. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

CONTRACT DOCUMENT MODIFICATIONS

BID SCHEDULE

1. **Delete** Bid Schedule in its entirety. **Replace** with Bid Schedule included in this Addendum No. 1 package.
 - a. The changes to the bid schedule include the addition of Bid Item 6 – Furnish Polymer Water Meter Box Lids.

TECHNICAL SPECIFICATION

SECTION 01 11 00 – SUMMARY OF WORK

1. **Delete** Section 01 11 00 - Summary of Work in its entirety. **Replace** with Section 01 11 00 – Summary of Work included in this Addendum No. 1 package.
 - a. The changes to the section include:
 - i. Modifying the language on paragraph 1.05.D.5 pertaining to the description of Bid Item 5.
 - ii. Adding paragraph 1.05.D.6 pertaining to the description of the added Bid Item 6 – Furnish Polymer Water Meter Box Lids.

SECTION 200 – WATER METER BOX LID

1. **Delete** Section 200 – Water Meter Box Lid in its entirety. **Replace** with Section 200 – Water Meter Box Lid included in this Addendum No. 1 package.
 - a. The changes to the section include:
 - i. Modifying water meter box lid quantity schedule under paragraph 2.01.B
 - ii. Adding paragraph 3.01.C regarding transfer of lids not installed during the project.

Kevin McDonnell
Mayor

Brian Barnacle
Janice Cader-Thompson
Mike Healy
Karen Nau
Dennis Pocekay
John Shribbs
Councilmembers

Public Works & Utilities

City Engineer
11 English Street
Petaluma, CA 94952
Phone (707) 778-4303

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Transit Division

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Phone (707) 778-4421

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E-Mail: publicworks@cityofpetaluma.org

This Addendum No. 1 shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

Summary of Changes: Bid Schedule, Technical Specification (Section 01 11 00 and Section 200)

City of Petaluma,



Dan Herrera, P.E. #C77596

A signed copy of this Addendum and the attached acknowledgement form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.

ADDENDUM NO. 1

**Advanced Metering Infrastructure (AMI) Implementation Project
E67502242**

February 22, 2024

ACKNOWLEDGEMENT

Receipt of Addendum No. 1 is hereby acknowledged by _____
(Contractor's Name)

on the _____ day of _____, 2023.

By: _____
Signature

Title

Company

BID SCHEDULE

ADVANCED METERING INFRASTRUCTURE (AMI) IMPLEMENTATION PROJECT
E67502242

BASE BID

Item No.	Description	Unit	Qty	Unit Price	Total Price
1	Mobilization and Demobilization	LS	1		
2	AMI Water Meter Upgrade (Meters 2-Inches and Smaller)	EA	18,500		
3	GPS Location of Water Meter Box	EA	20,500		
4	Lead and Copper Rule Pre-1950 Water Service Pipe Material Inventory (Project Milestone)	EA	3,250		
5	Install Polymer Water Meter Box Lid	EA	18,500		
6	Furnish Polymer Water Meter Box Lids	LS	1		

Base Bid \$ _____

BID ALTERNATIVE

Item No.	Description	Unit	Qty	Unit Price	Total Price
1	Lead and Copper Rule 1950-1985 Water Service Pipe Material Inventory	EA	9,000		

Bid Alternative \$ _____

*Note: In case of error in extension of price into the total price column, the unit price will govern.

Total Amount of Bid (written in words) is: _____ _____ Dollars and _____ Cents. In the event of discrepancy between words and figures, the words shall prevail. \$ _____ _____ Figures

Note: **The award of the contract shall be awarded to the lowest price of the base bid.**

Address of Bidder

Signature of Bidder

City

Name of Bidder (Print)

Telephone Number of Bidder

Fax Number of Bidder

Contractor's License Number

License's Expiration Date

Addendum Acknowledgement

Addendum No. 1 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 2 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 3 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 3 Signature Acknowledging Receipt: _____ Date: _____

SECTION 01 11 00 – SUMMARY OF WORK

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Related Sections.
 - 2. Project Description.
 - 3. Project Milestone - Lead and Copper Rule Compliance.
 - 4. Description of Bid Items.
 - 5. Work Sequencing
 - 6. Data and File Submission.
 - 7. Required Notices.
 - 8. Current Systems and Planned Future Integration

1.02 RELATED SECTIONS

- A. Contract General Conditions
- B. Section 01 35 13 – Special Project Procedures

1.03 PROJECT DESCRIPTION

- A. The work specifically includes all work as represented by the Drawings, the Specifications and all other Contract Documents issued for construction and subsequent approved revisions and addenda.
- B. The project consists of replacing the existing register and endpoint on water meters 2-Inches and smaller with a City provided Badger Meter AMI register and endpoint, obtaining the GPS location of every water meter box in the City, visually inspecting and documenting the pipe material of the water service line on the City and customer side at selected water meter boxes, and furnishing and replacing the existing water meter box lid with an AMI compatible polymer lid at every water meter.
- C. The main project goals are to upgrade the City’s water meters to the AMI technology and collect water service pipe material information for compliance with the EPA Lead and Copper Rule Revisions (LCRR).
 - 1. The work associated with the Lead and Copper Rule compliance is a project milestone and has a deadline associated with it, as described in Paragraph 1.04 of this section.

1.04 PROJECT MILESTONE - LEAD AND COPPER RULE COMPLIANCE

- A. Contractor must complete all work pertaining to Bid Item 4 - Lead and Copper Rule Pre-1950 Water Service Pipe Material Inventory (Project Milestone) by **September 27th, 2024**.
- B. After Contract award, City will provide Contractor with all the information required for the Contractor to start and complete the work, including the file for the template form to be filled out, account numbers and addresses.
 - 1. Per the bid schedule, Bid Item 4, Contractor is expected to verify and document the pipe material of the customer-side water service line connected to the water meter at approximately 3,250 locations in the City of Petaluma.
 - 2. Contractor will be responsible for documenting the pipe material and date of inspection on the City provided template - “Water Service Pipe Material Inventory” found in Section VI – Reference Documents.

1.05 DESCRIPTIONS OF BID ITEMS

- A. Bid Items are presented to indicate major categories of the work for purposes of comparative bid analyses and payment breakdown for monthly progress payments. Bid items are not intended to be exclusive descriptions of work categories and the Contractor shall determine and include in its pricing all materials, labor, and equipment necessary to complete each Bid Item (work phase) as shown and specified.
- B. Quoted prices accepted by the Owner shall be held good and in effect until the Work is completed and accepted by the Owner, unless modified by Change Order.
- C. Compensation for all equipment, tools, materials, labor, service, travel, and incidentals, and for doing the work and all other items required to complete the Work in conformity with the Contract Documents will be included in the payment provided in this Section unless specifically excluded. No other compensation will be made except for the items listed in the Bid Proposal. Work for which no separate payment has been provided will be considered as a subsidiary obligation of the Contractor, and the cost therefore included in the applicable contract price for the item to which the work applies. All measurements of work done will be made by the Engineer. No adjustment in prices will be made where any quantities provided in the Item Description vary from actual quantities, unless the work described and shown in the Contract Documents has been modified by the Owner.
- D. Base Bid Items
 - 1. **Mobilization and Demobilization:** This bid item shall be paid for at the contract unit Lump Sum (LS). Mobilization shall include obtainment of all permits, bonds and insurance, moving of all equipment onto the site, temporary buildings if needed, and other construction facilities as required for the proper performance and completion of the work. Demobilization shall include, but not

be limited to, removal of all equipment, unused materials, all temporary utilities, job trailers and all temporary communication facilities.

2. **AMI Water Meter Upgrade (Meters 2-Inches and Smaller):** This bid item shall be paid for at the contract unit Each (EA), which price shall include all labor, material, and equipment necessary to replace the existing registers and endpoints on water meters 2-Inches and smaller with a City provided Badger Meter AMI register and cellular endpoint. This item shall include but not be limited to coordination of schedule and routes with City staff daily to ensure no impacts to City operations; documentation and submission of data and photos to the City in accordance with Paragraph 1.07 - Data and File Submission; locating water meter boxes; removing any obstructions to provide access to the work area; removing debris inside water meter box as needed in order to expose meter and City and customer piping; coordinating with City for disposal of debris at an approved City facility; notifying homeowners seven (7) days prior to and immediately after the replacement is complete in accordance with paragraph 1.08 - Required Notices; notifying and returning faulty AMI devices to the City; providing clear passage and access for the public and City staff around work areas at all times; ensuring minimal to no disturbance to residential and commercial properties; post replacement cleaning and restoring site to its initial conditions; and other work incidental thereto, complete in accordance with the Drawings and as specified herein.

3. **GPS Location of Water Meter Box:** This bid item shall be paid for at the contract unit Each (EA), which price shall include all labor, material, and equipment necessary to obtain the GPS location of each water meter box and submit it to the City electronically in accordance with Paragraph 1.07 - Data and File Submission. This item shall include but not be limited to locating each water meter box; clearing the site of any obstacles and obstructions; restoring the site to its original condition; preparing and submitting the data to the City in the required format; and any other work incidental thereto, complete in accordance with the Drawings and as specified herein. Data pertaining to this bid item shall meet the following requires:
 - GPS Level of Accuracy: 1 foot, unless not achievable due to geographic constraints and obstacles.
 - GPS Coordinate Format: (Latitude, Longitude)
 - Coordinate System: NAD83 California State Plane 2 or WGS84
 - File format: Shapefile (preferred), excel or CSV

4. **Lead and Copper Rule Pre-1950 Water Service Pipe Material Inventory (Project Milestone):** This bid item shall be paid for at the contract unit Each (EA), which price shall include all labor, material, and equipment necessary to visually inspect and document the pipe material of the water service line on the

City and customer side at selected water meter boxes. Contractor shall use the City provided “Water Service Pipe Material Inventory” form found in Section VI – Reference Documents. This item shall include but not be limited to removing obstructions to allow access to the water meter box; documenting all the required information using the City provided form and submitting it to the City on a weekly basis; and other work incidental thereto, complete in accordance with the Drawings and as specified herein.

5. **Install Polymer Water Meter Box Lid:** This bid item shall be paid for at the contract unit Each (EA), which price shall include all labor, and equipment necessary to replace the water meter box lid on water meters being upgraded to AMI, as described in Bid Item 2, with an approved AMI compatible lid. This item shall include but not be limited to locating the water meter box, replacing the water meter box lid with an approved AMI compatible lid; properly disposing of the existing lid; and other work incidental thereto, complete in accordance with the Drawings and as specified herein. Procurement of lids is not included as part of this bid item and shall be paid for under Bid Item 6 – Furnish Polymer Water Meter Box Lids.
6. **Furnish Polymer Water Meter Box Lids:** This bid item shall be paid for at the contract unit Lump Sum (LS), which price shall include all labor, material, and equipment necessary to furnish water meter box lids according to the type, size and quantities described in Section 200 – Water Meter Box Lid. This item shall include but not be limited to the preparation of submittals, procurement, delivery, storage, and transfer of the lids not installed as part of the project to the City of Petaluma, complete in accordance with the Drawings and as specified herein. This bid item is for the furnishing of lids only, which shall be installed on water meter boxes as described in Bid Item 5 – Install Polymer Water Meter Box Lid.

E. Bid Alternative

1. **Lead and Copper Rule 1950-1985 Water Service Pipe Material Inventory:** This bid item shall be paid for at the contract unit Each (EA), which price shall include all labor, material, and equipment necessary to visually inspect and document the pipe material of the water service line on the City and customer side at selected water meter boxes. Contractor shall use the City provided “Water Service Pipe Material Inventory” form found in Section VI – Reference Documents. This item shall include but not be limited to removing obstructions to allow access to the water meter box; documenting all the required information using the City provided form and submitting it to the City on a weekly basis; and other work incidental thereto, complete in accordance with the Drawings and as specified herein.

1.06 WORK SEQUENCING

- A. Contractor shall coordinate daily routes with City Operations staff to ensure no

impacts to City operations and ongoing meter reads.

- B. As discussed in Paragraph 1.04, Contractor shall complete Project Milestone – Lead and Copper Rule Compliance, which is associated with Bid Item 4, by **September 27th, 2024**.
 - 1. A map highlighting the approximate 3,250 water meter boxes identified for this work is provided in Section VI – Reference Documents.
- C. Contractor is encouraged to sequence work in a manner that prioritizes the locations identified under Bid Item 4 due to the associated deadline pertaining to this work - September 27th, 2024.
- D. The City’s current meter reading schedule is based on cycles and routes within each cycle. Reference Section VI – Reference Documents for a list of cycles, routes, and number of accounts/water meters per route.
- E. Contractor shall schedule and plan work in groups that follow the City’s existing cycle and route grouping.
 - 1. Contractor shall complete all work described in one route before starting a new route.
- F. If Contractor proposes to deviate from the City’s route program, Contractor shall submit proposed sequencing for the City’s review and approval prior to initiating the work.

1.07 DATA AND FILE SUBMISSION

- A. Contractor shall submit all information pertaining to work completed at the end of each week, unless otherwise approved by the City.
- B. All files are to be submitted to the City electronically and in a format approved and in compliance with the Contract Documents.
 - 1. Bid Item 2 - AMI Water Meter Upgrade (Meters 2-Inches and Smaller): All data and information associated with Bid Item 2 shall be submitted in Microsoft Excel format using a City provided file to ensure compatibility with the City’s billing software Tyler Eden. In addition, Contractor shall provide photographs of the work completed at each water meter box. Photograph must show the new register and endpoint installed on the water meter.
 - a. City will provide file to Contractor after project award.
 - b. Contractor may propose to use alternative file, only if Contractor can show and City can confirm similar compatibility between Contractor file and City’s billing software – Tyler Eden.
 - c. Photographs shall be shared electronically via online drives, such as Microsoft OneDrive.

2. Bid Item 3 - GPS Location of Water Meter Box: All data and information associated with Bid Item 3 shall be submitted in one of the following formats: Shapefile (preferred), Microsoft Excel or CSV.
 - a. GPS coordinates shall be in either NAD83 California State Plane 2 or WGS84 coordinate system.
 - b. GPS coordinates shall be submitted as Latitude and Longitude
 - c. GPS accuracy shall be within a foot, unless not achievable due to geographic constrains.

3. Bid Item 4 - Lead and Copper Rule Pre-1950 Water Service Pipe Material Inventory (Project Milestone): All data and information associated with Bid Item 4 shall be submitted in Microsoft Excel format using the “Water Service Pipe Material Inventory” template provided in Section VI – Reference Documents.
 - a. City will provide excel file to Contractor after project award.

4. Bid Alternative – Bid Item 1 - Lead and Copper Rule 1950-1985 Water Service Pipe Material Inventor: All data and information associated with Bid Alternative Bid Item 1 shall be submitted in Microsoft Excel format using the “Water Service Pipe Material Inventory” template provided in Section VI – Reference Documents.
 - a. City will provide excel file to Contractor after project award.

1.08 REQUIRED NOTICES

- A. City will work with Contractor to coordinate noticing to property owners prior to the beginning of the work.
- B. Contractor will be responsible for posting door hangers on residential properties after the work a is completed.
 1. City will print and provide door hangers to Contractor.

1.09 CURRENT SYSTEMS AND PLANNED FUTURE INTEGRATION

System Function	Vendor	Version
ERP – Utility Billing	Tyler Eden	5.28.2.1
Meter Reading - Drive by	Badger Beacon	Current Build
Work Order Management	Central Square EAM (Lucity)	22.1
Asset Management	Central Square EAM (Lucity)	22.1
GIS	ESRI	ArcMap 10.8.1, ArcPro 2.9.5

- A. City currently reads water meters via drive by technology – Automated Meter Reading (AMR).
- B. Contractor shall ensure that files submitted to the City are compatible with the utility management software BEACON®, and billing software Tyler Eden.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

**SECTION 200
WATER METER BOX LID**

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Related Sections.
 - 2. Submittals

1.02 RELATED SECTIONS

- A. Contract General Conditions
- B. Section 01 33 00 – Submittal Procedures
- C. Section 01 33 01 – Submittal List

1.03 SUBMITTALS

- A. Product Data: Contractor shall submit product data for the lids proposed to be installed to the City for review and approval in accordance with Section 01 33 00 – Submittal Procedures.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Water meter box lid shall be compatible with Badger Meter ORION cellular endpoints, such as Nicor Read-Rite Polymer lid or approval equal.
- B. Contractor shall assume the following quantities for furnishing water meter box lids, as described in the Contract Documents Bid Item 5:
 - 1. 10,000 EA – B9
 - 2. 5,000 EA – B16
 - 3. 5,000 EA – B30
 - 4. 1 EA – B30 (PURPLE)
 - 5. 450 EA – B36
 - 6. 35 EA – B36 (PURPLE)
 - 7. 5 EA – B48 (PURPLE)
 - 8. 1 EA – P52 (PURPLE)

PART 3 EXECUTION

3.01 INSTALLATION

- A. Water meter box lids shall be installed in accordance with the applicable sections of these Technical Specifications. Contractor shall furnish all labor and materials and equipment required to replace all water meter box lids as specified in the contract documents.
- B. Contractor shall install water meter box lids in accordance with the manufacturer's recommendations.
- C. Contractor shall transfer all lids purchased but not installed as part of the project to the City at the end of the project.

END OF SECTION