

ADDENDUM NO. 2
February 15, 2018

City of Pacific
100 3rd Avenue SE
Pacific, WA 98047

Automated Meter Infrastructure System Project

To: All Holders of Contract Documents

This addendum forms a part of the Contract Documents and modifies the original Specifications and Drawings, bid date Friday, February 23, 2018.

Acknowledge receipt of this addendum on the Bid Proposal. Failure to do so may subject the bidder to disqualification.

This addendum consists of:

Nine (9) pages of text (including this cover sheet).

PROJECT OUTCOME:

The City wants all meters replaced with remote read capable meters regardless of size. The City would also like remote turn off / on capability on 5/8"x3/4" meters, as well as 1", 1 1/2", 2", and 3", if available.

BIDDER QUESTIONS AND ANSWERS

1. RFP Page IV-1 "There are approximately 1,915 service connections with meter sizes ranging from 5/8-inch to 3-inch."

RFP Page IV-1 "The City has approximately 2,060 water Service meters."

RFP Page IV-3 "Transmitters for replaced meters." 1,825

There are (3) separate total above. How many meters and of what size and type are to be replaced and how many meters and of what type and size are to be retrofit?

Will the City be supplying compatible competitive encoder registers as needed?

Are the current Touch Pads connected to the current encoder registers with direct wire or a connector?

If a connector, what kind/manufacture?

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system(s). There will be no retrofit of existing meters. A total of 1,915 meters are estimated for the project.

2. RFP Page II-1 Pilot Phase: What is the anticipated duration for the installation and testing of the Pilot Phase?

The pilot phase shall be 30 -60 days to verify that the initial meters installed are working.

3. RFP Page IV-1 Scope of Work, 3: "Evaluate the existing meter setters and identify the setters that require replacement and notify the City at least 72 hours in advance."

Will the City be replacing and or supplying the necessary replacement setters?

The City will either replace the meter setter or request a proposal from the selected contractor to replace the meter setter.

4. RFP Page IV-2 “Obtain all Federal, State, and local permits required for the installation and operation of the system and any other approvals.”

What Federal, State, Local, and or Municipal licenses, permits, fees, and or regulations will be required for the installation of meters and endpoints and gateways?

The City will require a right of way permit and City business license.

The State will require a state business license filing of intent to pay prevailing wages and affidavit of wages paid. Additional State requirements may exist.

A Federal (FCC) license may be required for the electronic communications between the meters and the base collector for this project.

5. RFP Page VI-21, A.: “Project duration. Project duration shall be less than two years from the Notice to Proceed.” Stated in the RFP Page IV-1. “The target date for full AMI system deployment is no later than December 2018.”

What is the firm substantial completion date for the project?

Substantial completion of the project is anticipated to be October 31, 2018. This will provide adequate time for closeout by December 31, 2018.

6. RFP Page VI-25 Appointment Scheduling Section iv: “Contracted Respondent shall be responsible for scheduling and handling all installation appointments. Whenever possible, Contracted Respondent shall notify customers of any changes in schedule at least one day in advance of the original appointment. The City reserves the right to impose liquidated damages of \$100 for each instance where the Contracted Respondent has failed to properly notify the customer if an appointment cannot be kept on time.”

Beyond the use of “Door Hanger” notifications, are there customer contact that need to be made? And if so what are those to look like?

The City will provide social media outreach and website notification of the project schedule with periodic updates. A robo-call system may also be implemented in addition to the contractor door hanger notifications.

7. RFP Page VI-26 Installation Procedures, Section vii: Question: Will all meters be changed out Like for Like in type, size, and length?

All meters (5/8”x3/4”, 1”, 1 1/2”, 2”, and 3”) shall be replaced with a remote read meter and transmitter system. There will be no retrofit of existing meters.

8. RFP Page VI-26 Installation Procedures, Section x: “Strainers. If the meter to be replaced has a strainer, Contractor shall be responsible for replacing the strainer along with the meter, unless conditions prevent such replacement. Contractor shall otherwise be responsible for repairing or cleaning the strainer to ensure that is in good working order and will not adversely affect meter performance.”

How many strainers and of what size does the City have in the system?

There is talk of replacing Strainers. Is there a pricing line for Strainers?

There may be a strainer encountered at one location.

9. RFP Page VI-26 Installation Procedures, Section xii: “Valves. If Contractor cannot shut off water using the valve at the meter (details must be documented on a work order), Contractor shall

immediately notify the City’s on-site inspector to arrange for repair. Contractor may not use a crimping tool to stop the flow of water, unless approved in writing by the City’s on-site inspector. Contractor may use a nonFreon freezing tool.”

Will the City be replacing and or supplying the necessary replacement valves?

The City will either replace the valve or request a proposal from the selected contractor to replace the valve.

10. RFP Page VI-21 C and VI-28 xxii Work Hours.

Current City authorized work hours are Monday through Friday 7:00 am to 7:00 pm. Please confirm Work Hours

11. Are the City’s 1.5” – 3” meters Disc, Compound, and or Turbo? What is the breakdown per size?

All meters (5/8”x3/4”, 1”, 1 1/2“, 2”, and3”) shall be replaced with a remote read meter and transmitter system. There will be no retrofit of existing meters.

12. RFP Page C-2 4. Prevailing Wage: Question: What are the Job Classifications and Prevailing Wage rates for the project?

Prevailing Wage Rates are in the table below:

<i>County</i>	<i>Trade</i>	<i>Job Classification</i>	<i>Wage</i>	<i>Holiday</i>	<i>Overtime</i>	<i>Notes</i>
<i>King</i>	<i>Plumbers & Pipefitters</i>	<i>Journey Level</i>	<i>\$79.69</i>	<i>6Z</i>	<i>1G</i>	
<i>King</i>	<i>Residential Plumbers & Pipefitters</i>	<i>Journey Level</i>	<i>\$34.69</i>		<i>1</i>	
<i>King</i>	<i><u>Laborers - Underground Sewer & Water</u></i>	<i>General Laborer & Topman</i>	<i>\$46.57</i>	<i><u>7A</u></i>	<i><u>3I</u></i>	
<i>King</i>	<i><u>Residential Laborers</u></i>	<i>Journey Level</i>	<i>\$23.03</i>		<i><u>1</u></i>	
<i>Pierce</i>	<i>Plumbers & Pipefitters</i>	<i>Journey Level</i>	<i>\$67.47</i>	<i>5A</i>	<i>1G</i>	
<i>Pierce</i>	<i><u>Laborers - Underground Sewer & Water</u></i>	<i>General Laborer & Topman</i>	<i>\$46.57</i>	<i><u>7A</u></i>	<i><u>3I</u></i>	

13. Are all 5/8” – 2” water meters in Setters?

To the best of our knowledge all existing 5/8” x 3/4”, 1”, 1 1/2”, and 2” meters are in meter setters. Some meters are in oversized setters, by design. If a meter does not have a setter, notify the on-site inspector. The inspector may request a proposal from the selected contractor to provide and install a setter.

14. What are the number and sizes of meters pit boxes located in “traffic rated” areas?

Approximately 20 – 25 meter boxes are located in a traffic area.

15. What are the current 5/8” – 2” meter pit conditions? Backfilled or clean and free of dirt, sand, and debris to 2-inches below the meter?

Can the City estimate the number of meter pits that have dirt levels covering the service lines or higher?

The number of boxes with soil impacting the meter is unknown. The soil conditions vary throughout the valley and can change weekly.

16. Will the City be supplying any type of safe, secure, and segregated warehouse and office space with an internet connection for the project?

If so, how many square feet?

17. Is there more than (1) meter in each box?

If so, what is the percentage of multiple meters per box installation?

There are a limited number of installation with multiple meters in the same eter box. It is estimated that the contractor will encounter approximately 15 -20 locations.

18. Can the customer provide a projected route-reading calendar for the routes containing meters/register/endpoints to be changed-out?

A copy of the meter reading routes will be provided to the selected contractor.

19. What is the blackout window around the customers reading dates?

A copy of the meter reading blackout dates will be provided to the selected contractor.

20. Will the Village be providing any initial public notification of the project? i.e. Bill mailings, Community Access Cable Segments, Public Service Announcements, Information on the City Web Site, etc.?

The City will provide social media outreach and website notification of the project schedule with periodic updates. A robo-call system may also be implemented in addition to the contractor door hanger notifications, Additioanlly the City will add a billing insert about the project or a direct mailing to the 98047 zip code.

21. What are the depths of the residential meters pits 5/8" – 2"

The average meter pit is 12-18". There are some that are deeper.

22. What is the lay length of the 5/8" and 3/4" meters?

The lay length of the current meters is ___ inches.

23. Do existing meters have Expansion Connectors, Connection Sets, Pressure Reducing Valves, and or Backflow Preventers?

Approximatley 100 meters have backflow devices.

24. Are there any meters in Confined Space locations?

If so, how many and of what size?

To the best of our knowledge there are no meters located in confined space locations.

25. Will Local, State, and or Federal Funding be used for this project?

This project is funded by local funds.

26. Are 1.5" and 2" meters Hex or Flanged?

27. What is the material of the service lines? i.e. copper, lead, galvanized, plastic, HDPE, PEX?

To the best of our knowledge, service lines are copper, galvanized, and plast.

28. Are any meters located in crawl spaces?

To the best of our knowledge there are no meters located in crawl spaces.

29. Location of pit meters relative to the house/structure? i.e. front, side, back, alley?

The majority of meter pits are located at the front property line in the planter strip or adjacent to the sidewalk. At some locations they may be located on private property behind a fence.

30. What is the general PSI for the City service lines?

The static pressure of the water system is approximately 72-80 psi throughout the system.

31. Section III, Additional Background Information, Item 1 Meter Count Estimate

This Table lists 5/8"x3/4", 1", 1 1/2", 2", and 3" meters. We know from a previous question response that the City intends that all 5/8"x3/4" and 1" meters be replaced with remote disconnect meters. This table states that meters older than 2012 will need replacement, which would apparently apply to some unspecified number of the 1 1/2", 2" and 3" meters.

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system(s). There will be no retrofit of existing meters. A total of 1,915 meters are estimated for the project

32. How many of each of the 1 1/2", 2", and 3" meters are older than 2012 and thus require replacement?

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system, regardless of installation date. There will be no retrofit of existing meters.

33. Section III, Additional Background Information, Item 1 Meter Count Estimate

This Table lists 5/8"x3/4", 1", 1 1/2", 2", and 3" meters. However, in Section VII Evaluation Criterion 3: Cost Proposal, there are no costs required for 1 1/2", 2", and 3" meters.

Can we please have clarification on what is required regarding the 1 1/2", 2", and 3" meters?

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system(s). There will be no retrofit of existing meters.

34. Section VI Evaluation Criterion 2: Technical Specifications, 22.L.viii

Based on current information, we believe the City wants all 5/8"x3/4" and 1" meters to be replaced. In regards to the larger meters, reprogramming the registers may not be feasible to what is described, but if it is, we will need to know which ones this applies to.

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system(s). There will be no retrofit of existing meters.

35. Can the City please indicate which 1 1/2", 2", and 3" meter registers are to be reprogrammed, and whether these are capable of being reprogrammed?

All meters (5/8"x3/4", 1", 1 1/2", 2", and 3") shall be replaced with a remote read meter and transmitter system(s). There will be no retrofit of existing meters.

36. Section VII Evaluation Criterion 3: Cost Proposals, Table 4. Annual Costs (Maintenance or Service Contracts/Agreements, Data Hosting Services, and Customer Portal Services/Support)

Did the City intend on asking for costs in 2018 dollars?

All pricing shall be provided in 2018 dollars.

37. Sample Contract, Item 9, Warranty and Guarantee

Warranty is stated to be two years. This is non-standard, most contracts require one year warranties.

Did the City intend on requiring a two year warranty, or is the standard one year warranty acceptable?

The City standard contracting practice requires a 2 year warranty bond.

38. Sample Contract, Item 15, Payment and Performance Bonds

The text reads as follows:

“(City must check and initial above one of the following boxes.)

The City waives does not waive the bond/surety provisions of this section pursuant to RCW 39.04.155(3). If the City waives these provisions then Contractor need not complete this section. If the City does not waive these provisions then Contractor shall provide the following:

Payment and Performance bonds shall be received by the City in the amount of 100% of the Contract price and no less. The bonds must be accepted by the City prior to the execution of the Contract, and shall be in a form approved by the City. The bonds shall be released thirty (30) days after the date of final acceptance of the work performed under this Contract and receipt of all necessary releases from the Department of Revenue and Department of Labor and Industries in settlement of any liens filed under Chapter 60.28 RCW, whichever is later.”

Is the City going to waive, or not waive the bond/surety provisions on this section?

The City does not waive the bond and surety provisions.

Add New Meter Specification Section:

2E. Water Meters 5/8" x 3/4" through 2"

1. Meters. All Meters shall meet or exceed the latest version of the AWWA Standard C700 for Cold Water Meters. - Displacement Type - Bronze Body or AWWA C710-09 Cold-Water Meters – Displacement type Plastic Main Case Solid State Electromagnetic Flow Type meters with Composite Alloy Flowtube-Hermetically Sealed programmable electronic register will be acceptable. All Meters shall meet or exceed the American Water Works Association Standard C707-R92 for Encoder-Type Remote-Registration systems for Cold Water Meters when equipped with an open architecture radio MIU.
2. Main Case: Main case shall be NSF approved low lead bronze, plastic composite, or Polyphenylene Alloy Flowtube. All materials used in the construction of the main cases shall have sufficient dimensional stability to retain operating clearances at working temperature up to 105 degrees F. The manufacturer shall warranty the main case for a period of 25 years from the date of shipment. The size, model, direction of flow shall be cast in raised characters on the case. The serial number shall be imprinted on the body and lid where used.
3. Bottom Plate. Bottom plates shall be made of bronze or composite.
4. Measuring Chamber. Mechanical meters with measuring chambers shall be made of a suitable engineered plastic as described in AWWA C-700-90. Chamber shall be of the Nutating Disc style. Multi-jet meters will not be accepted. The measuring chamber shall incorporate a locating device that aligns to the main case of the meter to ensure proper chamber orientation and alignment. The measuring chamber shall be locked into place with a chamber retainer.
5. Headloss. Meters shall not exceed seven PSI pressure loss at AWWA safe maximum operating capacity.
6. Accuracy Meters shall be 100% factory tested for accuracy and have the factory test results provided with each meter. Meters shall be pressure tested to ensure against leakage. Meters shall comply with the AWWA C700-02 accuracy requirements for a period of five years from the date of installation. Additionally, the manufacturer shall warranty the meter to meet or exceed AWWA repaired meter accuracy standards.
7. Mechanical Meter- Register Assembly. Only encoded registers are allowable. Pulse type registers are not an acceptable alternative. Registers shall be magnetic driven, straight reading, and permanently sealed by the manufacturer. The numerals on the number wheels of the register shall not be less than 1/4" in height and should be readable at a 45-degree angle. The register shall be secured to the meter main case by a tamper resistant bayonet-style locking mechanism protecting against unauthorized removal of the register. No special tools shall be required to remove the register. Must meet the above Meter Register Technology requirements for encoder registers.
8. Electromagnetic Flow Meter- Register Assembly. Only encoded output are allowable. Pulse type output are not an acceptable alternative. Registers shall have a 9-digit hermetically sealed electronic register with LCD display. Register display will show direction of flow, rate of flow (gpm), temperature, pressure values, empty pipe and forward/reverse flow indicators.

2F. Water Meters 3" through 6"

1. This specification covers cold-water meters in sizes 3" through 6". The intended use of this specialty meter is to simplify applications by using one type of meter where three different types of meters would normally be used. The meter specified here must be

highly accurate, light weight and have minimal maintenance. All meters must conform to applicable AWWA C-701 Class I Standards and this specification.

2. Type. Meters shall be of the Vertical Rotor Turbine type. All water must pass through a measuring element. Multi-Jet and Single Jet meters are not Vertical Rotor Turbine Meters.

Length. Meters 3" through 6" shall be no longer than those listed below and provide optional spool pieces to accommodate various laying lengths when required.

Meter Size	Length
3"	12"
4"	14"
6"	18"

3. Main Case. Meters shall be NSF/ANSI Standard 61 of 372 certified. The size, model, direction of flow shall be cast in raised characters on the case. The serial number shall be imprinted on the body and lid where used. All 3" through 6" meters with standard laying length shall be equipped with test ports. Flanged ends shall be round.
4. Accuracy. The registration shall be accurately recorded through the normal operating flow limits at not less than 98% nor more than 102% of actual throughput. Accuracy at the specified minimum flow rate shall be at least 95% at the flow specified by size in the table below.

Size	Normal Operating Flow Range 98%-102%	Minimum Flow Limits 95%
3"	10 - 500 GPM	50 GPM
4"	1.5 – 1,000 GPM	.75 GPM
6"	3 -2,500 GPM	1.5 GPM

5. Measuring Chamber. The measuring chamber shall be a turbine assembly mounted in a vertical orientation. All water must pass through the measuring element. The turbine will utilize a "Retro-Thrust" feature to reduce wear over the life of the meter. Low flows will cause the rotor to wear against a sapphire bearing mounted in the top case of meter. High flows will cause the turbine to pull down in the flow way to wear against a sapphire bearing located in the bottom of the hub assembly. The inlet hub assembly shall include integral straightening vanes to eliminate the need for straight pipe diameters in front of or behind the meter.
6. Installation. The meter shall be designed so that no straight pipe diameters of pipe are needed upstream or downstream to properly install the meter and maintain its performance. Meters shall be able to be installed in yokes, meter setters, or between elbows and maintain accuracy and performance. Meters may be installed vertically or horizontally.
7. Register Assembly. Registers shall be magnetic driven, straight reading, and permanently sealed by the manufacturer. The register shall provide local visual registration of consumption. The numerals on the number wheels of the register shall not be less than

1/4" in height and should be readable at a 45-degree angle. Registers shall incorporate a center sweep test hand and a low flow indicator. Must meet the above Meter Register Technology requirements for encoder registers.

Revised Table 1.

Table 1. Meters and Meter Registers

Positive Displacement and/or Electronic meters may be proposed.

Respondent must complete each blank cell within the table(s) associated with all meter options proposed.

Table 1a. Positive Displacement Meters

Size	Description	Quantity ⁽¹⁾	Unit Cost	Total Cost
5/8 x 3/4"	Meter & Register	1,710		
1"	Meter & Register	115		
1½"	Meter & Register	32		
2"	Meter & Register	56		
Total	---	1,913		

(1) Estimated, as of January 2017.

Table 1b. Electronic Meters

Size	Description	Quantity ⁽¹⁾	Unit Cost	Total Cost
5/8 x 3/4"	Meter & Register	1,710		
1"	Meter & Register	115		
1½"	Meter & Register	32		
2"	Meter & Register	56		
Total	---	1,913		

(1) Estimated, as of January 2017.

Table 1c. Electronic Sensors

	Size	Description	Quantity ⁽¹⁾	Unit Cost	Total Cost
I	3/4" or 1"	Pressure	25		
Ii	3/4" or 1"	Temperature	25		
Iii	3/4" or 1"	Chlorine Residual	25		
Iv	3/4" or 1"	pH	25		

Table 1d. 3" Meters Meters

Size	Description	Quantity ⁽¹⁾	Unit Cost	Total Cost
3"	Meter & Register	2		
Total	---	2		