



**INGRAM & ASSOCIATES**  
CONSULTING ENGINEERS, LLC

**ADDENDUM NO. 2**

**PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS**

**January 28, 2021**

**PROJECT:** Automated Meter Reading System Installation  
Water System Improvements  
I&A Project No.: 1160-073-01

**OWNER:** Jones County Board of Commissioners

**REVISED BID DATE:** February 2, 2021

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**Item 1: REVISED BID DATE:** Sealed Bids: Sealed bids for the installing of **Automated Meter Reading System for the Jones County Board of Commissioners** will be received by The Jones County Board of Commissioners until **4:00 p.m. on February 4, 2021** at the Jones County Board of Commissioners, 166 Industrial Blvd., Gray, GA 31032, ATTN: Ms. Leslie Faulk or Mr. Jason Rizner at which time and place all Bids will be publicly opened and read in the Commission Chambers, local time prevailing. No bid may be withdrawn after the closing time for receipt of bids for a period of sixty (60) days.

**Item 2: REVISED BID BOND:** Please replace the original Bid Bond with the attached REVISED Bid Bond

**Item 3: REVISED BID Form:** Please replace the original Bid Form with the attached REVISED Bid Form

**Item 4: REVISED Section 01010 – Summary of Work:** Please replace the original Summary of Work with the attached REVISED Summary of Work

**Item 5: REVISED Section 02668 – New Metered Services and Transfer of Services:** Please replace the original New Metered Services and Transfer of Services with the attached REVISED New Metered Services and Transfer of Services.

## Item 6: CLARIFICATIONS:

- Are all meters targeted for installation to receive a new backflow preventer? YES
- There are approximately 50 – 1” water meters to be replaced.
- How many meters are equipped with an above ground backflow device? None
- There are approximately 10 – 12 water meters in asphalt or concrete.
- Are there any provisions for meter box replacement in the event a meter box is damaged and needs to be replaced? YES
- Our assumption is that all meter boxes will need to be removed in order to plumb in a new backflow device, is this the utility assumption as well? Means and methods are the decision of the Contractor. Our goal is to have a new 5/8” x 3/4” water meter and backflow device installed at 2100 ± customers.
- Is the Utility going to provide a staging area for the contractor to stage and mobilize from? NO
- What are the meters being installed? (All I see is one reference to "Hersey Hotrod") See the attached quote from Ferguson.
- Can you provide specifications on the backflow device that the Utility is supplying? Please see the attached cut sheet for the backflow device.
- Is there an existing hole in the lid to mount the radio transmitter? NO
- What is the existing meter brand? Varies
- What is the approximate geographic area of the meters to be covered under this contract? See the enclosed list in the specifications. We expect it to cover approximately 1/2 of the county.
- Will meters be installed in contiguous routes? That is up to the contractor
- What is the target start date for the project? April 1, 2021
- Who takes possession of the old meters and registers? Jones County Water Department

- What is the Billing Software the county is utilizing? Tyler
- Will the county provide an electronic listing of addresses, phone numbers, and account information? That is available upon request
- If the collection of GPS points is required, is 1-5 meter accuracy acceptable? The collection of GPS for each meter is required. A 1-5 meter accuracy is acceptable.
- Since the county requires the Contractor to notify the customer, will the county allow mailers or door hangers? If so, who will be providing the mailers and door hangers? Door hangers will be allowed and provided by the Contractor. Door hangers are not required.
- Do you have an Engineer's estimate for this project? (Bid Only) \$530,000.00
- Is the Utility Tax Exempt? YES
- What percentage of meter boxes is located in concrete or asphalt? Less than 10
- What is the composition of meter box? (material) PVC and Cast Iron
- What is size of meter boxes? Standard meter box size
- Do all settings have shut off valves before the meters? YES
- Are all valves in the meter box? YES
- What is the procedure for any inoperable or broken valves? Contact the County and someone will come out and dig up the service and cut off the service at the water main.
- What is the average meter depth? A standard meter box
- Do you have drawings for the meters? NO. The quote for the water meter is attached.
- For the backflow installations, is the contractor replacing existing backflows or cutting in new backflows? Installing new backflow devices
- Is the Contractor required to provide all fittings to install backflow and meter? YES. The fittings shall be as per the specification.
- Can Jones County provide the lay length for the current services and the lay length for the new meters and backflows? NO

- What is the percentage of the meters in concrete or asphalt? Approximately 10-12 water meter boxes will be in asphalt or concrete.
- Due to the Blackout period between the 26<sup>th</sup> and 2<sup>nd</sup> calendar days of each month, will the county consider extending the completion timeframe to ensure the installation is completed in its entirety? The county will extend the completion time to no more than 90 consecutive calendar days. We want a contractor to come in and stay with the project until completed.
- Who will be providing the meter boxes, corporation stops, tapping saddles, tubing, and service clamps? Jones County. All fittings necessary to re-connect to the service line to the house is the contractor's responsibility.
- The meter quote for the water meters to be installed is included in the Addendum. The backflow device to be furnished by Jones County is included in this addendum.
- Please note that the contractor will be required to install a ½" PVC pipe in the meter box for the radio transmitter to sit upright.

**END ADDENDUM NO. 2**

STATE OF GEORGIA

**Jones County, Georgia**

KNOW ALL MEN BY THESE PRESENTS, that we, \_\_\_\_\_, as Principal,  
and \_\_\_\_\_, as Surety, are held and firmly bound  
unto Jones County, Georgia \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, personal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted to the Owner a Proposal for construction of the **Water System Improvements –2020 AMRS Water Meter Installation**.

NOW THEREFORE, the conditions of this obligation are such that if the Bid be accepted, the Principal shall within ten days after receipt of conformed contract documents execute a contract in accordance with the Bid upon the terms, conditions and prices set forth therein, and in the form and manner required by the Owner and execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the Owner, each in an amount of one hundred percent (100%) of the total contract price, in form and with security satisfactory to the Owner, or in the event of the failure of the Contractor to execute and deliver the Contract Agreement and give said Performance and Payment Bonds, the Contractor shall pay the Owner the difference not to exceed the penalty hereof between the amount specified in said Proposal and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said Proposal, and execute the Special Assurances form, then this obligation shall be void; otherwise, it shall be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid Owner, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

This bond is given pursuant to and in accordance with the provisions of **O.C.G.A.** Section 36-10-1 et seq and all the provisions of the law referring to this character of bond as set forth in said sections or as may be hereinafter enacted and these are hereby made a part hereof to the same extent as if set out herein in full.

**REVISED - Bid Bond**

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IN WITNESS WHEREOF, the said Principal has hereunder affixed its signature and said Surety has hereunto caused to be affixed its corporate signature and seal, by its duly authorized officers, on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL: \_\_\_\_\_

Signed and sealed in  
the presence of

By: \_\_\_\_\_

1. \_\_\_\_\_

Title: \_\_\_\_\_

2. \_\_\_\_\_

SURETY: \_\_\_\_\_

Signed and sealed in  
the presence of:

By: \_\_\_\_\_

1. \_\_\_\_\_

Title: \_\_\_\_\_

2. \_\_\_\_\_

**END OF SECTION**

PROJECT IDENTIFICATION:

**Water System Improvements**  
**2020 AMRS Water Meter Installation**

CONTRACT IDENTIFICATION AND NUMBER:

**I & A Project No.: 1160-073-01**

THIS BID IS SUBMITTED TO:

**Jones County Board of Commissioners**  
**166 Industrial Blvd**  
**Gray, GA 31032**

THIS BID IS SUBMITTED FROM:

Company Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

License Number: \_\_\_\_\_

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for sixty days after the day of Bid opening. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within fifteen days after the date of OWNER's Notice of Award.

**REVISED - Bid Form**

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00300-2

In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:

BIDDER has examined copies of all the Bidding Documents and of the following Addenda (receipt of all which is hereby acknowledged):

Date	Number
_____	_____
_____	_____

BIDDER has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

BIDDER has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions which are identified in the Supplementary Conditions as provided in paragraph 4.2 of the General Conditions, and accepts the determination set forth in paragraph 5 of the Supplementary Conditions of the extent of the technical data contained in such reports and drawings upon which BIDDER is entitled to rely.

BIDDER has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests and studies (in addition to or to supplement those referred to in (c) above) which pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance or furnishing of the Work as BIDDER considers necessary for the performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of paragraph 4.2 of the General Conditions; and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by BIDDER for such purposes.

BIDDER has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said Underground Facilities are or will be required by BIDDER in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of paragraph 4.3 of the General Conditions.

BIDDER has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

BIDDER has given ENGINEER written notice of all conflicts, errors, or discrepancies that it has



discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to BIDDER.

This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with an agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER. Bids will be good for **60** days.

BIDDER agrees to commence work under this Agreement on or before a date to be specified in a written "Notice to Proceed" of the OWNER and to fully complete the work as specified in the Section 1010, Summary of Work.

BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time. Contract time is set at a maximum of 90 days. Installation during the week the old meters are read is prohibited. Once the older manually read meters have been read and billed; work can proceed again.

**THE REST OF THIS PAGE INTENTIONALLY LEFT BLANK.**

**Water System Improvements  
2020 AMRS Water Meter Installation  
to serve Jones County, Georgia**

**BASE BID:**

Item No.	Approx. Quantity	Unit	Description	Unit Price	Total Price
1	10	EA	Transfers of Existing Long Side Services including installation of new water meter; new backflow device; new tap on the existing water main; boring of service tubing and installation of corp stop and curb stop. County to furnish materials. This item is on an as needed basis as determined by Jones County Water.	\$	\$
2	10	EA	Transfers of Existing Short Side Services including installation of new water meter; new backflow device; new tap on the existing water main; installation of service tubing and the installation of a new corp stop and curb stop. This item is on an as needed basis as determined by Jones County Water.		
3	1,000	LF	1" Service Tubing as furnished by the Owner		
4	2,078	EA	Installation of New 5/8" x 3/4" Water Meters with Backflow Preventer(Owner furnished materials except for reconnection fittings and miscellaneous connection hardware.)		
5	50	EA	Installation of New 1" Water Meters with Backflow Preventer(Owner furnished materials except for reconnection fittings and miscellaneous connection hardware.)	\$	\$
6	25	SY	Asphalt Pavement Replacement as specified	\$	\$

7	25	SY	Concrete Pavement Replacement as specified	\$	\$
Total Base Bid				\$ _____	

Bidder agrees to furnish all materials, equipment and to perform all labor necessary for the construction of **Water System Improvements – 2020 AMRS Water Meter Installation** for the sum of:

\$ \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

The above lump sum and unit prices shown shall include all labor, materials, bailing, shoring removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for. Each item above shall stand on its own. The budget is limited and individual items may have to be reduced.

BIDDER understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

**BIDDER understands that the Owner will select based on the Total Base Bid.**

BIDDER furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within fifteen days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the OWNER as liquidated damages for such failures.

The following documents are attached to and made a condition of this Bid:

- a. Required Bid Bond for the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) according to the conditions of "Instructions to Bidders".
- b. Bid Data submitted by BIDDER that indicates standard specifications, details or drawings with any deviation from the specifications indicated.

**REVISED - Bid Form**

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SUBMITTED on \_\_\_\_\_, 20 \_\_\_\_.

BIDDER: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Seal: (if bid by a Corporation)

**END OF SECTION**

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**PART 1      GENERAL**

**1.01      DESCRIPTION**

- A.      The Work to be performed under this Contract shall consist of furnishing all labor, tools, equipment and incidental and performing all work required to install the 2,128 water meters and backflow preventers.

The water meter change out is the installation of a new water meter as supplied by Jones County and a new backflow preventer as supplied by Jones County.

Jones County will provide the Contractor with a work order with the address, old meter number and last reading. Jones County will provide someone to stay with the Contractor. The list of water meters to be changed out is included in this specification.

If the Contractor encounters an existing water service that is above ground, the Contractor is to dig as needed to bury the service line, meter box and reconnect to the customer's side. The Contractor shall furnish the necessary compression fittings and connection hardware to reconnect to the home owner's service line.

- B.      Generally, no meters can be installed between the 26<sup>th</sup> of the calendar month and the 2<sup>nd</sup> of the following calendar month. This time frame is during the monthly billing cycle. However, the Contractor shall coordinate with the County each month. The window from the 26<sup>th</sup> through the 2<sup>nd</sup> may be shorter.

**1.02      PROJECT LOCATION**

The equipment and materials to be furnished will be installed at the locations as directed. Contractor shall coordinate with the Jones County Water Department on which meters are to be replaced. Meters can be replaced in various locations around the County.

**1.03      QUANTITIES**

The Owner reserves the right to alter the quantities of work to be performed or to extend or shorten the improvements at any time when found necessary, and the Contractor shall perform the work as altered, increased or decreased. Payment for

such increased or decreased quantity will be made in accordance with the Instructions to Bidders. No allowance will be made for any change in anticipated profits nor shall such changes be considered as waiving or invalidating any condition or provisions of the Contract and Bond.

**1.04 PARTIAL OWNER OCCUPANCY**

The existing facilities to which these improvements are being made will continue operation during the period of construction.

**END OF SECTION**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Scope: This item shall govern for the transfer of existing water services to new mains and the installation of new water meters.

**PART 2 PRODUCTS**

A. Materials:

1. Service Pipe: Service pipe shall be 1" polyethylene, 200 psi.
2. Fittings: Fittings for service tubing shall be of the required sizes, and shall be standard waterworks fittings for 1" HDPE, DR9.
3. Corporation Stops: Corporation stops shall be Mueller No. H-15008 or Ford F-1000.
4. Service Clamps: Service clamps shall be single strap tapping saddle, JCM 403.
5. Meter: Meter shall be 5/8" x 3/4" Mi.NET M Positive Displacement Meter, 420 series, bronze with a solid state register.
6. Meter Box: Meter box shall be PVC with PVC lid.

**PART 3 EXECUTION**

**3.01 CONSTRUCTION METHODS**

- A. Installation of corporation stop on PVC pipe shall be made with the use of a service clamp of the proper size to fit the main. All service clamps, taps and corporation stop shall in installed before the new main has been tested and sterilized. All service connections shall be made after the new main has been tested and sterilized.
- B. Water meter Transfer, complete, shall consist of connecting the new main, installing a new corporation stop, installing new curb stop, meter and meter box, tying new service pipe to the new meter and backfilling all trenches. This work shall be performed at the contract unit price for each new service and water meter.

## **REVISED - New Metered Services and Transfer of Services**

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02668-2

- C. All service pipe required to complete the new water service shall be provided as specified on the drawings. This work shall be performed at the contract unit price for 1" service pipe, Schedule 200.
- D. The Contractor shall tunnel under pavements, sidewalks and curbing for the placement of services unless otherwise noted on the plans.

### **3.02 TRANSFER OF SERVICES**

- A. The Contractor shall perform the transfer of services in a manner to avoid extended water outages to residents and businesses in the area. The new water mains shall be installed and tied-in before transferring any services. After the new main is tested and sterilized, the contractor shall transfer water services to the new main and then make the remaining connections to existing mains as required. Existing service connections shall be cut off at the curb stop and disconnected from the existing service line when the new service line is ready to be connected.
  - 1. Transfer of a service shall consist of tapping the new main, installation of corporation cock, curb stop, meter and meter box and tying to the existing service line. The curb stop on the existing service line shall be closed when the new service connection is ready to be installed. The Contractor shall install the new corporation cock, curb stop, service line, meter, meter box and any miscellaneous appurtenances to complete the transfer.
  - 2. At locations where existing water main and services are to be abandoned, Contractor shall locate, disconnect, plug and abandon existing service laterals outside existing pavement area. Contractor will not be required to disconnect existing services at abandoned main.
  - 3. Contractor shall note the type of existing service tubing and location. In transferring services, contractor may encounter 3/4" copper tubing, galvanized pipe or polyvinylchloride pipe. Contractor shall furnish and install a new 3/4" corporation cock, 3/4" PVC piping, and necessary fitting to tie the existing service line.

### **3.03 NEW METERED SERVICE**

- A. The Contractor shall perform the installation of the new meter in a manner to avoid extended water outages to residents and businesses in the area.



1. A New Meter shall consist of installation of a new water meter in an existing meter box. The intent of this project is too cut of a service, remove existing water meter, verify new water meter serial number, account number and address with the inspector, cut service back on.
2. At locations where existing water main and services are to be abandoned, Contractor shall locate, disconnect, plug and abandon existing service laterals outside existing pavement area. Contractor will not be required to disconnect existing services at abandoned main.
3. Contractor shall note the type of existing service tubing and location. Contractor may encounter copper tubing, galvanized pipe or polyvinylchloride pipe.
4. Approximately 50 of the water meters are 1” in size. The remaining water meters are 5/8” x 3/4”. Approximately 10 to 12 water meters are in asphalt or concrete. If needed, the contractor shall cut the pavement surface as needed to install the water meter and backflow device.

**END OF SECTION**

**Jeffrey Pehlke**

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**From:** Arthur.Crooms@Ferguson.com  
**Sent:** Tuesday, January 26, 2021 10:39 AM  
**To:** Jeffrey Pehlke  
**Subject:** METER BACKFLOW INSTALL

**Price Quotation # B513279**

**FEL-DIXIE PLUMBING #1462**

187 POPLAR STREET  
MACON, GA 31201-0000

Phone : 478-746-4885  
Fax : 478-743-3450

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**Bid No.....:** B513279  
**Bid Date...:** 01/25/21  
**Quoted By:** ABC  
**Customer.:** JONES COUNTY OF BOARD OF COMM  
JONES COUNTY WATER SYSTEMS  
PO BOX 1359  
GRAY, GA 31032

**Cust Phone:** 478-986-6405  
**Terms.....:** NET 10TH PROX  
**Ship To.....:** JONES COUNTY WATER SYSTEM  
270 GA HWY 49  
MACON, GA 31211

**Cust PO#..:** BACKFLOW QUOTE **Job Name.:** WATER DEPT

Item	Description	Quantity	Net Price	UM	Total
WLF7R10U2GF	LF 1X3/4 FEM THRD SWVL DU CHK VLV	2050	22.250	EA	45612.50
WLF710U2H	LFN 1-1/4X1 FEM MTR THRD DU CHK VLV	50	37.000	EA	1850.00
	SUBTOTAL				47462.50

Subtotal: \$47462.50  
Inbound Freight: \$0.00  
Tax: \$0.00  
Order Total: \$47462.50

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this

## For Light Commercial and Residential Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LF7R Dual Check Valves

LF7R Sizes: 1/2" – 1"

Series LF7R Dual Check Valves are designed for non-health hazard residential water system containment and continuous pressure applications, such as the drinking water supply service entrance or individual outlets. Series LF7R uses two compact replaceable check modules and is installed immediately downstream of the residential water meter. The LF7R features Lead Free\* construction to comply with Lead Free\* installation requirements.

### Features

- Can be installed vertically or horizontally
- Available with combination of inlet/outlet sizes, types or thread and end connection

### Specifications

The dual check backflow preventer shall meet the domestic requirements of ANSI/ASSE Standard 1024, and bear the seal of approval. It shall be Lead Free\* cast copper silicon alloy bodied and include not less than one union. An identification tag indicating direction of flow shall be securely attached to the valve body. The Lead Free\* Dual Check Valve shall comply with state codes and standards, where applicable, requiring reduced lead content. The dual check shall be Watts Series LF7R. (Please select the model best suited to your application.)

### Pressure - Temperature

Temperature Range: 33°F – 180°F (0.5°C-82°C) continuous

Maximum Working Pressure: 175psi (12.07 bar)

### Approvals



LF7R

Series LF7R: Inlet/Outlet Connections – Types available, ordering code, sizes available.

CONNECTION TYPE	CONNECTION CODE	SIZES AVAILABLE
		<i>in.</i>
National Pipe Thread Female	2	1/2, 3/4, 1
National Pipe Thread Female – longer length	2L	1/2, 3/4, 1
National Pipe Thread Male	3	1/2, 3/4, 1
Female Meter Thread	4	1
Female Meter Thread (Swivel)	10	3/4, 1
Male Meter Thread	5	1

Union (U) Connections available on all inlet/outlet types and sizes.

When ordering Series LF7R Valves with Meter Thread Connections, be sure to order connection size one size larger than meter thread. Examples:

Meter Size	Order
5/8" x 1/2"	3/4"
5/8" x 3/4"	1"
3/4" x 3/4"	1"

### NOTICE

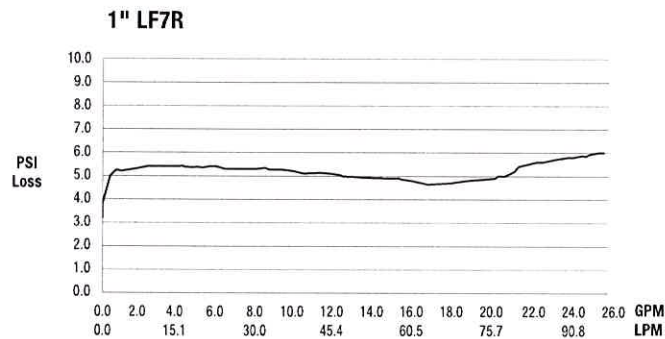
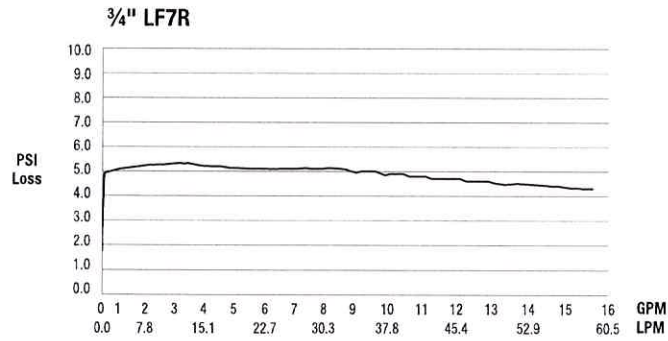
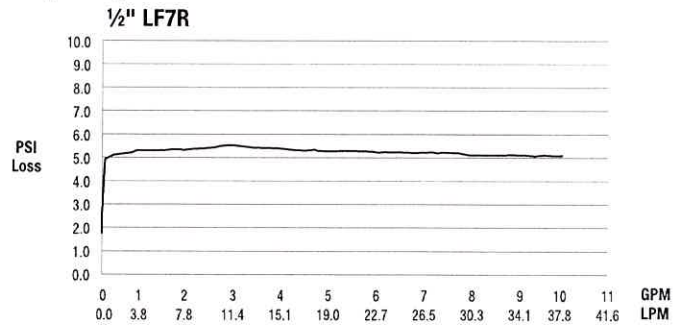
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



## Capacity



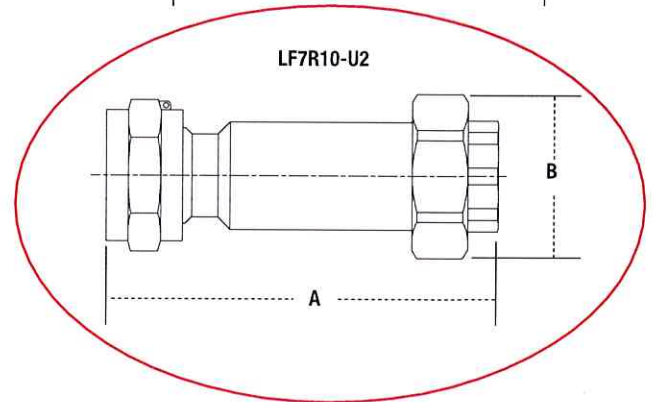
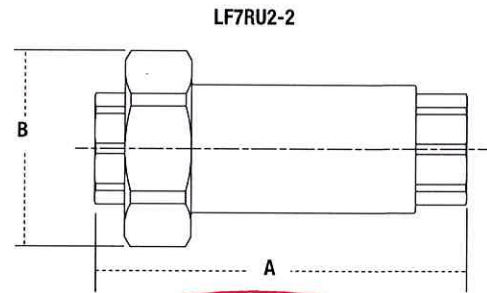
## Materials

- Body: Lead Free\* copper silicon alloy
- Check Modules: Engineered composite
- Discs: Santoprene
- Seals: EPDM
- Springs: Stainless steel

## Dimensions - Weight

MODEL	SIZE	DIMENSIONS				WEIGHT	
		A		B		lbs.	kgs.
	in.	in.	mm	in.	mm		
LF7RU2-2	½	3½	92	1⅞	48	.7	.32
	¾	3½	92	1⅞	48	.7	.32
	1	3⅞	99	1⅞	48	.8	.36
LF7RU2L-2*	½	4⅞	113	1⅞	48	.774	.351
	¾	4⅞	109	1⅞	48	.819	.371
	1	4¼	108	1⅞	48	.866	.393
LF7RU2-U2	¾	3⅞	93	1⅞	48	.9	.41
LF7R10-U2	1	4½	114	1⅞	48	1.7	.77
LF7R10-U2L*	1x¾	4⅞	124	1⅞	48	1.020	.462
LF7R10-U3	1	4⅞	122	1⅞	48	1.7	.77

\*These models have the lay length of the equivalent No 7 and LF7 valves, for convenience when replacing existing valves.



USA: Tel: (978) 689-6066 • Fax: (978) 975-8350 • Watts.com  
 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca  
 Latin America: Tel: (52) 81-1001-8600 • Watts.com

<b>Deliver To:</b> <b>From:</b> Justin Pyron <b>Comments:</b>
---

FEL-DIXIE PLUMBING #1462  
Price Quotation  
Phone: 478-746-4885  
Fax: 478-743-3450

**Bid No:** B503651  
**Bid Date:** 10/07/20  
**Quoted By:** JP

**Cust Phone:** 478-986-6405  
**Terms:** NET 10TH PROX

**Customer:** JONES COUNTY OF BOARD OF C  
JONES COUNTY WATER SYSTEM  
PO BOX 1359  
METER ACCOUNT  
GRAY, GA 31032

**Ship To:** JONES COUNTY OF BOARD OF C  
JONES COUNTY WATER SYSTEM  
PO BOX 1359  
METER ACCOUNT  
GRAY, GA 31032

**Cust PO#:** **Job Name:** 3/4" METERS

Item	Description	Quantity	Net Price	UM	Total
	AMR METERS *****				
	-----				
SP-HVEGB243N	5/8X3/4 420B, PB, ME8,SG, 5' NIC	2128	105.000	EA	223440.00
HMSWNODE51P05	MINODE M WTR MIU 1 PORT 5FT NCR *X	2128	65.000	EA	138320.00
	SUBTOTAL				361760.00
	-----				
	SOFTWARE UPGRADE AND NEW READING EQUIPMENT AT NO COST **MUST ORDER COMPLETE TO GET THIS PROMOTIONAL DEAL* *****				
	-----				
HAHRMOBILESWSUITE	HOT ROD MOBILE SOFTWARE SUITE	1	0.000	EA	0.00
HMSMNMMOBILEHWKIT	MINET MOBILE TRANSCIEVER KIT 2W	1	0.000	EA	0.00
	-----				
	SUBTOTAL				0.00

**Net Total:** \$361760.00  
**Tax:** \$0.00  
**Freight:** \$0.00  
**Total:** \$361760.00



**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to  
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1462&on=49101>

13:41:10 OCT 07 2020

**Reference No:** B503651

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>  
Govt Buyers: All items are open market unless noted otherwise.

**LEAD LAW WARNING:** It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



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