



301 W. MAIN ▪ OWOSSO, MICHIGAN 48867-2958 ▪ (989) 725-0599 ▪ FAX (989) 723-8854

NOTICE

**City of Owosso is Seeking Quotes for
Private Property Water Service Line Replacement
Fall 2020**

Quotes must be received by the city of Owosso addressed to:

**Department of Public Services
301 W. Main Street
Owosso, MI 48867**

**Quotes will be accepted until Noon on Monday, October 12, 2020.
Work must be completed by December 11, 2020.
No Bid or Performance Bond is required.**

A Certificate of Insurance naming the City of Owosso as Additional Insured for Liability Insurance in the amount of \$1,000,000 Per Occurrence.

Please find attached the following:

- 1) Private Property Water Service Line Replacement 2020**
- 2) Flushing House Plumbing Systems – EGLE**
- 3) Water Service Specifications & Standards**

**Contact the Department of Public Services with any inquiries regarding the quote by
Phone: 989-725-0550 or Email: Debbie.Hebert@ci.owosso.mi.us**

**CITY OF OWOSSO
PRIVATE PROPERTY WATER SERVICE LINE REPLACEMENT 2020**

I. The following addresses require Private Property water service line replacements:

- 1227 S. Cedar Street
 - Curb-stop location: **at retaining wall**
 - Linear feet of pipe - curb-stop to building entrance: **30 LF**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 1301 S. Cedar Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – meter pit to building entrance: **28 LF**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 622 Clark Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **67 LF**
 - Meter location: **inside SW corner of house**
 - Service line material type: **galvanized property side**

- 523 Clark Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **55 LF**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 815 Summit Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – meter pit to building entrance: **35 LF**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 901 Summit Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – meter pit to building entrance: **51 LF (crawl space)**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 1215 Summit Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe–meter pit to building entrance: **50 LF (bldg on cement slab)**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

- 219 Lafayette Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – meter pit to building entrance: **20 LF**
 - Meter location: **Basement**
 - Service line material type: **galvanized property side**
- 125 Lafayette Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – meter pit to building entrance: **35 LF**
 - Meter location: **unknown**
 - Service line material type: **galvanized property side**

II. The following addresses require City and Property side water service line replacements:

- 710 Lynn Street
 - Location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **16 LF**
 - Meter location: **unknown**
 - Service line material type: **lead city side – unknown property side**
- 405 Union Street
 - Location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **33 LF**
 - Meter location: **SE corner of house**
 - Service line material type: **lead city side – galvanized property side**
- 1401 N. Hickory Street
 - Location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **35 LF**
 - Meter location: **unknown**
 - Service line material type: **lead city side – unknown property side**
- 419 W. King Street
 - Curb-stop location: **Soft ROW**
 - Linear feet of pipe – curb-stop to building entrance: **35 LF**
 - Meter location: **unknown**
 - Service line material type: **unknown city side - galvanized property side**

City shall replace all above water services from water main to curb-stop and coordinate work with contractor performing property side replacements.

City will excavate around curb-stop or meter pit to open access for contractor.

Contractor shall replace service line with 1" K-copper.

Contractor shall perform all grounds restoration.

Contractor shall comply with Owosso Water Service Line Specifications.

Contractor shall ensure metal components comply with ANSI and AWWA No Lead Standards.

Contractor shall provide the following detail for work performed for each location:

- ✓ Picture of Home/Building premises showing numbered address.
- ✓ Picture of test pits and/or meter pit showing new pipe or pipe ends and old lead or galvanized pipe if in same location.
- ✓ Picture of new service line connected to internal building plumbing.
- ✓ Length and material type of new pipe installed.
- ✓ Type of pipe material the new pipe is connected to inside Home/Building premise.
- ✓ Method of installation (trenchless, hand excavation, boring, etc.).
- ✓ Length and location of any abandoned lead or galvanized service line pipe left in the ground.
- ✓ Post installation flushing times and location of flushing. (see attached flushing protocol)

Quote Pricing

- 1) Request provide quote for thirteen (13) locations as identified above at a price per linear foot. Contractor may price each location separately based on dissimilar obstacles.
- 2) Request provide quote for any sidewalk or concrete removal required.
- 3) Request provide mobilization cost as lump sum for all thirteen locations (not mandatory if included in linear foot pricing).

FLUSHING YOUR HOUSE PLUMBING SYSTEM WHEN WATER SERVICES ARE RESTORED

Guidance

When water service is turned back on, it is important to flush the plumbing in your home. Moving fresh water through your pipes flushes bacteria and metals from your plumbing. These instructions provide step-by-step instructions on how to completely flush your home plumbing. If you have difficulty following these steps, contact a licensed plumber for assistance.

STEP-BY-STEP INSTRUCTIONS

Complete these steps in the order below. Finish each step completely before moving to the next step.

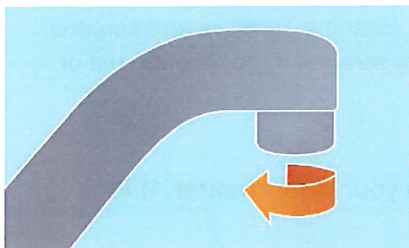
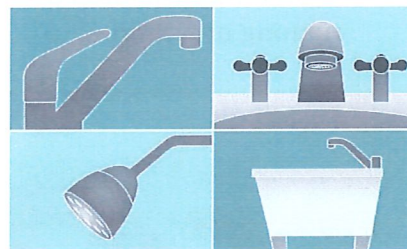
Before starting the steps below:

- Turn off the supply valve to your water heater, if possible.
- Bypass water softeners and/or whole house filters if you have them.

Discoloration may occur during flushing. This is expected.

1. Locate the faucets to be flushed and make sure the drains are open.

- Don't forget faucets in the basement or other floors of your house.
- Remove or bypass all fixture filters. You should not flush through a filter.

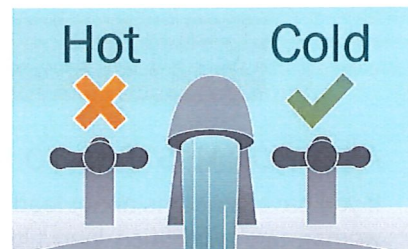


2. Remove aerators and screens from faucets and shower heads.

Unscrew the aerators as shown. See guidance below about removing and cleaning your aerators.

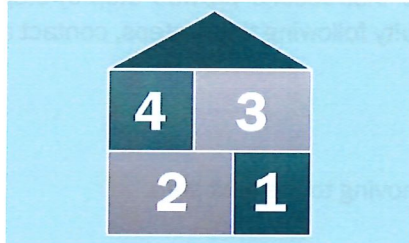
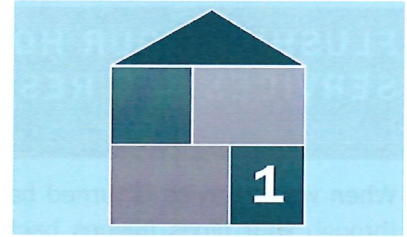
3. Open all cold water taps. Leave all faucets running during this process.

- First open faucets in the basement or lowest floor in the house.
- Then open faucets on the next highest floor of the house.
- Continue until all faucets are open on all floors, including tubs and showers (remove shower head if possible).



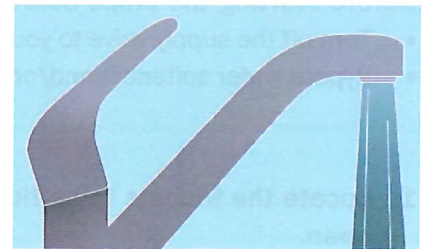
4. Leave ALL faucets running for at least 30 minutes.

5. Turn off the 1st faucet you turned on (basement or lowest floor).



6. Turn off all other faucets in the same order you turned them on.

7. Turn on each kitchen or bathroom tap, one at a time, and run each for 10 minutes or more. Make sure only one tap is running at a time.



8. Clean and re-install aerators and screens on each faucet and shower head.

- See pages below for guidance on cleaning aerators and screens.
- You may need to replace aerators/screens if they are too old or worn.

After completing these steps, remember to re-open the supply valve to your water heater. It is recommended that water heaters be flushed at this time.

DO NOT use hot water for drinking, cooking or preparing baby formula.

ADDITIONAL STEPS TO REDUCE POTENTIAL LEAD EXPOSURE

If you have concerns about lead exposure, public health recommends that any household with a child or pregnant woman use a certified lead filter to reduce lead from their drinking water. Look for filters that are tested and certified to NSF/ANSI Standard 53 for lead reduction. If your household has a child or pregnant woman and are not able to afford the cost of a lead filter, please contact your local municipal water system.

If you wish to get your drinking water tested, use a certified laboratory. To find a certified lab, go to the Michigan Department of Environment, Great Lakes, and Energy's web page at www.Michigan.gov/EGLE and search "Certified Lab List." For additional information on minimizing lead exposure, visit www.Michigan.gov/MiLeadSafe.

EGLE does not discriminate on the basis of race, sex, religion, age, national origin, color, marital status, disability, political beliefs, height, weight, genetic information, or sexual orientation in the administration of any of its programs or activities, and prohibits intimidation and retaliation, as required by applicable laws and regulations.

Cleaning Your Aerators

What are aerators and when should they be cleaned?

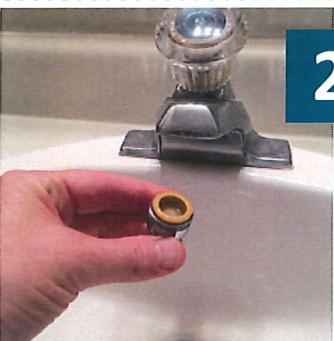
There are screens on faucets called aerators. Aerators help keep pieces of lead and other particles from getting into your water. Clean your drinking water faucet aerator at least every six months. If there is construction or repairs to the public water system or pipes near your home, clean your drinking water faucet aerator every month until the work is done.

Follow the steps below to clean your aerators:



1

- The small round piece on the bottom of your faucet is the aerator (pronounced: air-raytor).
- Unscrew the aerator from the bottom of the faucet.
- You should be able to unscrew it with your fingers, but you might need a wrench if it's stuck.



2

- Your aerator might not look the same as this, but it's okay.
- Now that the aerator is off, let's clean it.



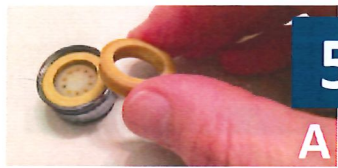
3

- While you only need to use water to rinse off your aerator, these things might make it easier to clean it:
 - An old toothbrush
 - A glass of vinegar



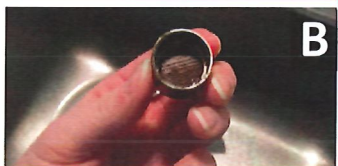
4

- Soaking the aerator in vinegar will loosen some of the grime. You can soak it as long as you want, but even five minutes will help.
- The toothbrush makes it easy to scrub the inside. Don't use that toothbrush for brushing your teeth again.



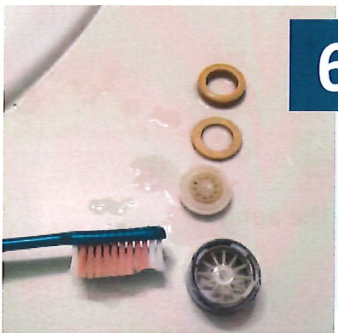
5

A



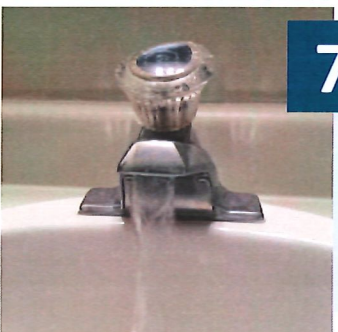
B

- If your aerator looks like Photo A, it has a flow control piece. You'll have to take it apart:
 - Pull out the pieces carefully.
 - Note the order that the pieces come out. You'll have to put them back in the same way. It may help to take a picture or write down some notes.
- If your aerator looks like Photo B, go to Step 6.



6

- You might not have all of these pieces. They might not be this color. Every aerator is a little different.
- Scrub all of the pieces. Make sure you get down inside the metal piece, removing any bits of grime or metal flakes you see.



7

- Rinse everything very well.
- Run water through the aerator screen - holding it right side up and upside down.



8

- Once it's clean,
 - If your aerator looks like Photo A in step 5, put it back together.
 - If it looks like Photo B, you're all set.



9

- Put the aerator back on your faucet.
- Repeat these steps at least every six months. Cleaning removes pieces of lead or other particles from your aerator and stops them from getting into your water.

For more information call the Michigan Department of Health and Human Services (MDHHS) at 800-648-6942 or visit [Michigan.gov/mileadsafe](https://www.michigan.gov/mileadsafe).

CITY OF OWOSSO WATER SYSTEM

WATER SERVICES SPECIFICATIONS & STANDARDS

NOTICE! IMPORTANT INFORMATION.....PLEASE READ!

This document contains extremely important information concerning the installation and maintenance of your private water service line. All compliance requirements and recommendations contained herein are for YOUR benefit to help control water loss and quarterly water costs, and to maintain a safe and reliable drinking water.

THE PROPERTY OWNER IS RESPONSIBLE FOR ALL WATER THAT PASSES THROUGH THE WATER METER (at the standard rate) REGARDLESS IF THE WATER WAS USED, LOST, OR WASTED. Only the highest quality material and workmanship should be used when installing or repairing water service lines. All specified material or recommendations contained herein must be complied with. Owosso Water Use Ordinance 34-67 applies.

Request for new water service is obtained at the Department of Public Services Office at City Hall – 301 W. Main Street.

Repairs or upgrades to existing water service laterals by property owners will require Permits from the Department of Public Services Office and/or the Building Department. These permits are necessary to monitor excavations into public right of ways that may contain underground utilities and recorded easements, and to ensure construction activity is in compliance with the Michigan Plumbing Code, Environment, Great Lakes & Energy (former MDEQ) drinking water regulations and regulatory distribution system material inventory (DSMI) requirements, Shiawassee County Health Department, as well as local ordinances and construction specifications. The approval from the Department of Public Services Office or Building Department does not relieve the property owner of the responsibility of securing other permits/approvals from governmental agencies or private agencies that may be affected by the scope of work proposed. The Michigan Utility Notification Service (MISSDIG.) shall also be contacted prior to any excavating, whether public or private property.

The contractor/installer shall verify all locations, elevations, and grades in the field prior to excavation. Any problems or concerns shall be reported to the Department of Public Services prior to construction.

WATER SERVICE LINE SPECIFICATIONS

- A. A Water Service Line is the combination of a service connection (public portion) and a service lateral (private portion). A service connection is the conduit which conveys water from the public water main to the curb stop or meter pit near the property line and within the street right-of-way. A service lateral is the privately owned conduit which conveys water from the meter pit or curb-stop to the building or structure to be serviced.
B. The Water Service Connection (public) portion of the service line shall be installed in strict accordance with written specifications as duly noted throughout this Section. It is required that the service lateral (private) portion of the service line be installed in strict accordance with written specifications, unless otherwise provided for in regulatory Rules, Regulations, Ordinances, and State and Local Codes as promulgated.
1. Property Owner shall have a licensed contractor or city of Owosso installing/connecting new services (public portion), including all public appurtenances to a public water main, and shall require the authorized installer to guarantee the workmanship and materials of said service connection and appurtenances for a period of one (1) year from the date of final inspection by the Department of Public Services. In the event a problem occurs within the one (1) year warranty period, the installer and/or property owner shall make all necessary repairs as soon as reasonably possible. If any problems occur that constitute an emergency which may jeopardize the public system, the City Water System may elect to make the emergency repairs and invoice the original installer of the service connection and/or the property owner for all labor, equipment, and materials cost incurred by the City. Said invoice shall be due and payable by the installer and/or property owner within 30 days of the date of said invoice. Invoices not paid when due shall be assessed a 10% penalty.

- C. Water Service Lateral (private portion) installation and Maintenance of said water service shall be the responsibility of the property owner. All construction shall be inspected for documentation purposes and to ensure integrity is maintained to the public water system. Therefore, the property owner shall ensure that the highest quality service lateral is installed to service the property. The installation or repair of private service laterals or private water mains shall be completed by the property owner or a professional plumber or contractor. If a professional plumber or contractor is utilized, it is highly recommended that you utilize a professional who is licensed and insured. A Permit to install is required from the Building Department Plumbing Division.

The installation of a new service connections (public portion), to a public water mains or any appurtenances of the public water distribution system (to be owned and operated by the City), that is performed by skilled Owosso Water System personnel, or a contractor authorized to work on behalf of the city of Owosso, shall not require a Permit.

- D. Permits are required for property owners installing or repairing water service lines (or parts thereof), and shall be obtained from the Public Service Office and/or the Building Department. Permits required are as follows:
1. Work to be performed in the Street Right of Way (ROW) only
 - ROW Permit from Public Services Office
 2. Work to be performed on Private Property only
 - Water Permit at Public Services Office
 - Plumbing Permit at Building Department
 3. Work to be performed both in Street ROW and on Private Property
 - ROW Permit from Public Services Office
 - Water/Sewer Permit – No Charge
 - Plumbing Permit at Building Office
- E. Inspection of Work in the city ROW shall be by an authorized representative of the Department of Public Services. Work performed on private property shall be inspected by the Building Department. The property owner, or contractor, shall give the city inspecting departments a minimum twenty-four (24) hour advance notice prior to commencing work. No excavation shall be covered until the appropriate city inspector has reviewed, documented, and approved the work. Any excavation covered prior to approval, shall be uncovered by the property owner or contractor at their expense.
- F. All Locations of service lines and appurtenances shall be subject to approval by the Director - Department of Public Services, and/or Chief Building Department Official.
- G. Installation of the service line shall not be installed within a ten (10) feet horizontal distance from a sanitary sewer lateral. If the ten (10) feet horizontal distance cannot be maintained, one of the following conditions shall be met:
1. The service line shall be installed in a separate trench from the sanitary sewer and shall be maintained at eighteen (18) inches (minimum) vertical distance above the crown of the sanitary sewer (while maintaining service line depth requirements); or,
 2. The sanitary sewer pipe shall be constructed of (or encased in) water line quality pipe which will withstand a 50 p.s.i. water pressure test (i.e. PVC SDR 26).
 3. **The new water service line shall extend a minimum of 18 inches past the interior building wall or to the first shut off valve presently installed, before connecting to the building interior plumbing system.**

The water service line shall also maintain a three (3) feet minimum horizontal distance from all other utilities (other than sanitary sewer).

Lead or galvanized water service line replacement and flushing, shall be in compliance with AWWA/ANSI Standards C810-17, EGLE/MDEQ Notification on Partial Lead Service Line Replacement Ban dated March 27, 2019, and EGLE Rule 325.10604f (5) & (6).

- H. Service Connections, Curb Stops/Boxes, Taps (public portion) owned and operated by the City of Owosso shall meet the following standard specifications (AWWA approved material):

Size: Service connections shall not be less than one inch (1") in diameter.
Depth: Service connections shall have a minimum sixty six (66) inches of cover.

The water service piping shall be copper tubing, Type K, annealed, in accordance with ASTM B88. The size of tubing shall match the existing size of the water service being replaced. The fittings shall conform to ASTM B16.26, cast bronze. Joints of the copper tubing shall be flared. All water services to be constructed 90 degrees from water main to curb-stop/meter pit.

Taps – Ductile Iron Pipe:

- For ¾ inch residential service tap, no saddle required. Use Ford F-1000-3-Q-NL, taped thread x CTS – QJ (Note: 1-inch minimum now required)
- For 1 inch residential service tap, no saddle required. Use Ford #F-1000-4-Q-NL
- For larger than 1 inch service tap, use Ford #F series as appropriate.

Taps – PVC Pipe:

- Use Power Seal stainless steel saddle Model 3417AS for 4" to 24" diameter pipe.

- I. Curb Stops/Boxes Shall Follow Below:

- a. Curb Stops shall be manufactured by Ford, Model #B-44-333-Q-NL for ¾ inch ball-stop, and Model #B-44-444-Q-NL for 1 inch ball-stop. Female thread x CTS – QJ or CTS – QJ x CTS – QJ.
- b. Curb Stops shall be 5' 6" deep.
- c. Curb Stop Boxes shall be the Standard Buffalo patterns and all parts of the same, including extension sections, shall be interchangeable and fit up with corresponding parts of other Standard Buffalo pattern boxes.
- d. Internal diameter of base shaft shall be 2-1/2 inches for (¾ inch and 1 inch curb stop).
- e. The boxes shall be cast iron, suitable coated to resist corrosion and the casting shall be smooth and free of any imperfections.
- f. The covers shall overlap and fit outside the rim of the upper section, and they shall have a horseshoe-shaped groove in them to receive the bolt head and the word "water" embossed on the top surface.
- g. All boxes shall be Tyler 6500 (2-1/2" Boxes) Series.

- J. Service Laterals (private portion) and **Private Water** Mains shall be installed in accordance with the Michigan Plumbing Code and the USEPA and American Water Works Association standards for lead free compliant materials. In addition, it is highly recommended that property owners also comply with the city of Owosso specifications as noted

SIZE: Service laterals shall not be less than one inch (1") in diameter (No variations are permitted).

DEPTH: For superior frost protection and increased protection from accidental damaging of private water mains and service laterals, sixty six (66) inches of cover over the water service lateral is recommended. In no case shall the cover over the water service lateral be less than forty two (42) inches in depth.

MATERIAL: Highly recommend 1" K-copper for residential water service laterals.

K. Tracer Wire and Boxes (Buried Plastic Piping)

Tracer wire shall be #10 AWG polyethylene coated steel core copper wire, attached to pipe by tape or other approved means, and manufactured by Copperhead Industries, LLC – Copperhead Reinforced Tracer Wire, or equal. Tracer wire connectors must contain a dielectric waterproof and corrosion proof sealant, lock shut, and be color coded blue. (See MRWA Detail as Attached)

Tracer wire boxes shall be magnetized, with a direct connection to tracer wire without removing the cover, be color coded, and have a locking cover. Boxes shall be installed at every fire hydrant isolation valve (separate from the valve riser), and at every distribution water main isolation valve (separate from the valve riser) and shall be Copperhead Industries, LLC – Snake-Pit Magnetized Tracer Box, or equal.

L. Meter Pits and Meter Pit Appurtenances to be owned and operated by the City of Owosso shall meet the following standard specifications:

LOCATION: All City read, owned, operated, and maintained meter pits shall be installed within three (3) feet of the property line, unless otherwise approved by the Director of Public Services or his designee.

$\frac{3}{4}$ " - 1" ABS Plastic Pipe smooth wall (meter pit housing)

- Meter Pit Housing 18" in diameter and 60" in depth (length)
- Meter Pit Housing Top Ring 3 $\frac{1}{2}$ " height
- Meter Pit Cover, composite material, standard ACLARA cover with under attaching wireless MTU module/antenna.
- 4" diameter cut outs in bottom to accommodate service line
- Ford Meter Riser 71 Series
- Ford Stop 71 Series
- Pit Riser $\frac{3}{4}$ " K Copper, 33" long

SEE ATTACHED DETAIL SPECIFICATIONS AND MATERIAL REQUIREMENTS

METER SETTING:

5/8", $\frac{3}{4}$ ", 1", 1 $\frac{1}{2}$ ", 2" Badger Ultrasonic Meter

- 5/8", $\frac{3}{4}$ ", 1" shall be attached to copper corner horn
- 1 $\frac{1}{2}$ " & 2" shall be in-line installed
- 1 $\frac{1}{2}$ " & 2" shall have bypass installed

3", 4", 6" Sensus C-2 Series Compound Meter

- shall have bypass installed
- shall be installed in vault or in-line per customer and manufacture specifications.

M. The following are **Installation Standards** for water mains and service lines.

1. Service lines $\frac{3}{4}$ " - 3" in diameter shall be bedded with fine granular material (fine dirt, sand, fine stone) free of lumpy, frozen, sharp, or other large material that may cause damage to the service line.

Service lines and mains of four (4) inches in diameter or larger shall be installed as recommended by the pipe manufacturer. All service lines and mains shall be required to be bedded with at least four (4) inches of fine granular material (as described above) when the service line or main is being installed in areas with rock. The inspector shall have final determination in whether the bedding material meets the requirements set forth in this paragraph.

Water main and service line trenches shall be backfilled with material free of lumpy, frozen, sharp, or other large material that may cause damage to the pipe. Extreme care shall be taken when backfilling the trench so as to not damage the pipe.

2. Although not recommended, existing private water mains and service laterals may be used by new property owners at their own risk/discretion. The property owner is responsible for all water loss costs after the meter at the standard rate regardless of service line materials used or whether the water is used, lost, stolen, or wasted.
3. Soldered connections are not recommended outside the building foundation. No lead or lead soldered connections shall be allowed to be connected to any portion of the public or private water distribution systems.
4. New service laterals shall be installed (or caused to be installed) by the property owner. If the property owner hires a contractor to install the service lateral, the contractor installing the service connection to the public portion (curb-stop or meter pit) shall be licensed. All commercial properties and rental properties must have a licensed contractor to install/replace any portion of a water service (public or private connection). Though not recommended, a non-licensed contractor or property owner may install the service lateral (private portion) on residential property only. A permit must be pulled and work inspected by the city Building Department and/or Department of Public Services for all water service connections.

SERVICE CONNECTION (TAP) BY CONTRACTOR: For standard **1"** service connections, the property owner's licensed contractor shall excavate and carefully expose the public water main. The licensed contractor shall provide adequate shoring protection by proper slopes, bracing, or trench boxes and shall provide proper dewatering equipment, etc. to provide a safe working environment in accordance with the Occupational Safety and Health Act (O.S.H.A.) and other applicable rules and regulations. Once the public water main has been exposed and proper safety precautions have been taken by the licensed contractor, the City of Owosso shall physically make the tap on the water main by installing a saddle (if required) and a corporation stop. The licensed contractor shall be responsible for installing the proper piping and appurtenances from the corporation stop to the structure to be serviced. The property owner and licensed contractor shall ensure that City personnel will be available to make said tap on the public water main before excavating for the water service connection. Arrangements shall be made with the City at least forty-eight (48) hours prior to the work being done. Verification shall also be made in the morning of the day the tap is scheduled to be completed.

For service connections (taps) **1 ½" and larger**, the property owner may hire a licensed contractor to make the "tap" on the water main. The tapping method shall be in accordance with specifications as provided by the City and shall be pre-approved by the Director of Public Services or his designee. The tap on the water main shall only be completed under the direct supervision of an authorized representative from the City. Twenty-four (24) hour notice shall be given to the Public Services Office prior to making the tap on the public water main.

5. Pressure Reducing Valves are not required to be installed in service laterals when the water pressure from the water main is less than 80 psi.
6. Pressure Expansion Tanks are not required to be installed when the water pressure from the water main is less than 80 psi.
7. Recommended that the property owners install a "tracer" wire over top of any non-metallic service lateral conduit or private water main (i.e. polyethylene tubing, PVC...) so the service lateral can be "located" in the future, if needed. It is suggested that #10 AWG THHN/THWN insulated copper wire be installed over the conduit.

8. Property owners should ensure the highest quality of workmanship and materials when installing and maintaining their service lateral. Any water that passes through the meter, whether used, wasted, lost, or stolen, shall be billed to the property owner, at the standard rate, for the water registered on the City water meter.
9. Property owners installing a new service line that is to be connected to a privately owned water main (such as a private subdivision) which is supplied by the Owosso Water System, shall first obtain written permission from the owner of the private water main prior to construction. Written authorization shall be presented to the Department of Public Services for approval and before a permit is issued from the Public Services Department. The City shall not be liable for issuing a permit to a property owner who has not received written permission from the owner of the private water main. The issuance of a permit from the Department of Public Services simply allows the property owner to receive water from the Owosso Regional Water System.
10. Connections to private service lines and/or private water mains, not having prior written approval by the City, shall not be permitted.
11. Water service laterals shall remain on the property of the Owner only unless an easement has been signed and recorded by the adjoining property owner granting permission to construct and maintain a water service lateral through the adjoining property. A copy of the recorded easement shall be submitted to the Department of Public Services prior to the issuance of a water connection permit. The City shall be held harmless from any property owner or property owner's contractor trespassing on private property where permission is not granted.
12. In extraordinary circumstances, two (2) adjacent property owners may share the same trench in order to install individual service laterals to their respective structures. The trench shall be excavated directly on the property line which must be established by the property owners according to their recorded property deeds. The inspector shall reasonably concur with the established property line to make sure that each service lateral is located on its respective property. The City shall not assume any liability and shall be held harmless for placement location of service laterals on private property.
13. Contractors and property owners installing water mains and service lines shall abide by all safety standards in accordance with applicable O.S.H.A. and M.D.O.T. regulations. The City shall not be liable and shall be held harmless from property owners or contractors who violate safety standards. All trench excavations shall be adequately guarded with barricades, lights, and any other acceptable methods so as to protect the public from hazards.
14. Upon completion of the service line, the City inspector shall visually inspect the service line and all fittings under normal operating system pressure as a test for leaks in the system. The inspector shall also observe the low water usage indicator on the meter to determine if there are any leaks in the water service line.
15. Five (5) feet of horizontal clearance shall be maintained between water mains/service lines and any other public or private utility service structure, including but not limited telephone, cable, electric, storm sewer, and gas piping. In the case of sanitary sewers and septic systems, a minimum of ten(10) feet horizontal clearance is required. If ten (10) feet of horizontal clearance cannot be maintained, see the city of Owosso Sanitary Sewer Construction Specifications for alternatives.

Copies of Water & Sewer construction specifications are available for review in the Public Services Office.

Glenn M. Chinavare

Glenn M. Chinavare, Director of Public Services
Effective April 10, 2019 – Change No. 3 July 22, 2020 for paragraph G. 3.