

**RULES AND REGULATIONS  
OF THE  
WATER AND WASTEWATER DEPARTMENT  
OF  
MOUNT VERNON, OHIO**

**Established by:  
THE MOUNT VERNON WATER AND WASTEWATER COMMISSION**

**December 5, 2017**

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## **DISCLAIMER**

These regulations were initially established by the Water and Wastewater Commission in October of 2001. Any Rules or Regulations that have been heretofore adopted that conflict with these Rules or Regulations are hereby rescinded.

Any conflict between these rules and regulations and City Ordinances is unintentional and the Ordinances prevail.

## **FEES AND RATE SCHEDULES**

The fees and rate schedules attached as an appendix to these rules and regulations are current as of December 5, 2017 and are subject to change without notice.

## **ADOPTION**

The following rules and regulations, as adopted by the Mount Vernon Water and Wastewater Commission and the Safety-Service Director are for the information and guidance of all users of the public water supply for Mount Vernon, Ohio, and are part of the contract between the City Water and Wastewater Commission and each user and/or owner of any premises where water is furnished by the public water utility.

## **CONTROL**

The public water supply system of Mount Vernon, Ohio, including all water mains, sanitary sewer laterals, valves, hydrants, meters, and services, is under the exclusive control of the Safety-Service Director, the Director of Public Utilities their authorized agents and employees. Such control shall include all piping from the City mains to the point of delivery to the customer or where the City water is finally discharged freely at atmospheric pressure.

CROSS REFERENCE: 919.03 Service Lines and Connections; Grant of Permit for Water Use, (a)

## **PRESSURE AND SUPPLY**

The City Water and Wastewater Department does not guarantee any minimum, maximum, constant, or fixed pressure, continuous supply, or the quality of the water. In case of an emergency, causing an interruption of supply, the City Water and Wastewater Department will endeavor to notify the consumers. Those needing a large volume of water for any extended period of time should have a storage tank of sufficient volume to hold an ample supply for any emergency, as no claims will be considered for damage of any nature whatsoever arising from such action. The utility will accept no liability for damage to extraneous attachments to any lines serving the premises and in accordance with American Water Works Association recommendations.

CROSS REFERENCE: 919.08 Rules of Water Department, (m) Utility's Liability

## **MAINTENANCE OF PIPING**

It shall be the responsibility of the owner of property to maintain their piping and plumbing fixtures in good condition.

CROSS REFERENCE: 919.08 Rules of Water Department, (i) Consumer's Installation

## **WASTING AND FREEZING**

Any person, firm, or corporation having a connection to the public water supply system who permits public water to be wasted from such connection either by unnecessary use, any inadequate or deteriorated systems, or by failing to prevent freezing shall have such water connection turned off. Whenever possible, personal notification shall be given. The Administrator of Billing & Customer Service may order water service to be disconnected to any premises where insufficient heating facilities cause danger of freezing to lines.

## **TAMPERING**

No person, other than an authorized agent of the City Water and Wastewater Department, may connect to any public water line, tamper with or remove any meter (or parts thereof), or any seals, or insert a meter by-pass without the permission of the Director of Public Utilities.

No person shall operate, open, or otherwise tamper with any valve, corporation stop, curb stop, or any other device, after the same shall have been closed for violation of any rule or regulation of the City Utility, or unlawfully secure a supply of water through such corporation stop, curb stop valve, or other device after the same shall have been closed for the violation of any rule or regulation of the City Utility, including non-payment of any charges, or in any way take water for private use unlawfully Director of Public Utilities If the City Utility finds evidence of tampering, the water shall be immediately shut off and shall not be turned on again until the consumer or owner of-the premises shall pay for the estimated quantity of water which has been used and not registered, and in addition thereto a fee.

CROSS REFERENCE: 919.03 Service Lines and Connections; Grant of Permit for Water Use. (a) 919.08 Rules of Water Department, (i) Consumer's Installation, (8); (n) Consumer's Liability, (1-4); (o) Other Use of Water.

## **CONTAMINATION**

No person shall do injury to, bathe in, or put filth, animal matter, cans, bottles, or any other substance or contaminants into any City water supply or distribution system. The utility also reserves the right to refuse service or to discontinue service once the same has been established where possible water contamination can result from the use of the water service by the consumer. (Refer to Backflow Prevention, Cross Connections, Boilers)

CROSS REFERENCE: 919.08 Rules of Water Department, (d) Use of Service; (i) Consumer's Installation, (1), (7), (8)

## APPLICATION FOR CONNECTION

There shall be two (2) classes of service line permits:

- (1) Residential Water Service
- (2) Service to all other consumers

**Any person, firm, contractor, or corporation desiring a water connection shall make application ten (10) days in advance for said connection in person, at the office of Mount Vernon City Engineer, 40 Public Square, Mount Vernon, Ohio.**

The permit application shall be supplemented by any plans, specifications, or other pertinent information as required by the water and wastewater utility. A permit fee per approve rate schedule shall be paid at the time the application is filed. If permits are not obtained prior to line installations, a permit fee shall be charged. Permits shall be for each separate service. Subsequent services shall be covered by separate permits and include installation costs and expenses.

CROSS REFERENCE: 919.03 Service Lines and Connection; Grant of Permit for Water Use

## INITIAL BILLING CHARGES

When a consumer discontinues or transfers location for utility service, the water service availability charge (WSAC) minimum, pro-rated to the nearest whole week from the date of receipt of service or termination of service to the end of the appropriate current quarter, shall be paid at the time of the initial receipt or termination of the service.

CROSS REFERENCE: 919.08 Rules of Water Department, (e) Billings and Payments

## DISCONTINUATION OF SERVICE BY UTILITY

The utility reserves the right to discontinue the supply of water for any of the following reasons:

- (1) The non-payment of water bills, including any other charges referred to herein.
- (2) The non-payment of sewer charges.
- (3) For repairs or unavoidable shortage or interruption in the source of supply.
- (4) If the consumer's water consumption requirements or connections are detrimental to the water system as supplied to other consumers or to utility's water system in general.
- (5) For fraud or illegal diversion of water.
- (6) Failure to follow any portion of the Water Department Rules and Regulations.  
(Example, meter accessibility, final plumbing inspections, backflow rules.)

Whenever service is discontinued for non-payment of accounts or fraudulent misrepresentation a charge (refer to fee schedule) will be made by the utility to cover the cost of disconnection and reconnection service when the same is again re-established.

CROSS REFERENCE: 919.08 Rules of Water Department, (p) Discontinuation of Service

## DISCONTINUATION OF SERVICE AS REQUIRED BY CONSUMER

Any property owner, firm, or corporation may discontinue water service with proper notice to the City Water and Wastewater Department Office. The meter may be removed at the discretion of the Department and the water will be shut off at the curb by the department. The WSAC charges for the property will continue even though there is no longer usage.

## **WAVIER OF MINIMUM CHARGES**

Property owner who have vacant homes or lots which no longer require full-time water service may qualify wavier of minimum charges. In order to qualify for wavier of minimum charges:

1. You must have your account balance paid up to date.
2. You must make application request in writing with the Water & Wastewater Department.
3. Payment of reconnection fee (refer to fee schedule) must be paid at time the account is made inactive.

If you qualify for wavier of minimum charges the City will disconnect your water service and you will be billed for usage up to the time of disconnection.

1. The City will disconnect your water service and you will be billed for usage up to the time of disconnection.
2. You will not be billed during disconnection period.
3. Your meter will be removed.

If at some future date you decide to reinstate the water service you will need to:

1. Request a reconnection for water service from the Water Department in writing. Billing will continue from the time the account was inactive.

Cross Reference: 919.07 Waiver of minimum charges (i)

## **WATER TAP AND METER CHARGES**

Prevailing costs will be charged for taps 2 inches or less in size. Costs for metering any service 2 ½ inches or larger will be estimated at the time of the installations and payments shall be made prior to tapping. The schedule of water tap charges will be revised as needed. The service line construction in conjunction with the tap shall extend from the main to the meter pit or curb stop. Services in excess of 2-inches shall be extended from the valve at the main, by the owner.

CROSS REFERENCE: 919.03 Service Lines and Connection; Grant of Permit for Water Use.

## **WATER SERVICE LINES MAIN TO CURB STOP**

### **A. Advance Service lines**

1. Advance service lines are those deemed necessary by the Water and Wastewater Utility running across areas to be paved or connected to water mains under areas to be paved; also lines through areas where underground electrical power, telephone, cable, television, gas or any other underground installations are anticipated. Advance service laterals may also be installed with new water main installations.

2. Where an open trench installation is necessary, it is to be performed by the City, the owner, or by the paving or developer's contractor; at a price mutually agreeable to said owner or contractor. Waiving of this requirement may be permitted when mutually agreed upon by the applicant and the Water and Wastewater Commission.
3. Backfilling of open trench is to be performed by the City or the paving or developer's contractor with compacted approved granular material. Waiving of this requirement may be permitted when mutually agreed upon by the applicant and the Water and Wastewater Commission.
4. The owner of the property to be served by the service lateral shall pay in advance the usual tap fee for the appropriate size tap at the time that application is made for water connection. The tap fee shall be in accordance with the fee schedule included in these Rules and Regulations Governing the City of Mount Vernon, Ohio Water Utility.

**B. Service Lines** (Other than the above advanced service lines)

1. These service lines shall be installed at the desired location at the time that service is required.
2. The City Water and Wastewater Department is to install the service lines in accordance with Water Tap Charges.
3. The owner of the property to be served by this service line shall pay IN ADVANCE the usual tap fee for the appropriate size tap in accordance with Water Tap Charges.

**C. Service Lines to Trailers**

1. All service lines laid from the curb shut-off are required to be minimum ¾" K-type copper, to the service shut-off valve beneath the mobile home.

CROSS REFERENCE: 919.08 Rules of Water Department, (a) Application for (b) Tap and Installation; Utility's Installation; (i) Consumer's installation; (q) New Paving; Water Connections Shall be made to Unserved Lots

**SERVICE LINE EXTENSION TO BUILDING**

All service lines laid from the curb to shut-off or end of service to the inside wall of the premises to be supplied with water shall be constructed of "K" type copper or ductile iron, not less than ¾ inch in size and shall have a covering of not less than four (4) feet of earth and shall not be laid within ten (10) feet of any sewer trench and shall be laid on a ninety (90) degree angle from the main to structure entrance, unless otherwise so designated by the Water and Wastewater Commission. The consumer must provide suitable housing facilities for the meter, where it will be readily accessible for reading and removal for repair. All service lines shall be inspected by the City Water and Wastewater Department or the Engineering Department before they are covered. The portion of service laterals, which are constructed by the owner in accordance with the Water Tap Charges, shall be the responsibility of the owner and shall be maintained and repaired by the owner. A signed written record of said inspection will be kept in the Water and Wastewater Department.

CROSS REFERENCE: 919.08 Rules of the Water Department; (h) Utility's Installation; (i) Consumer's Installation. 919.06 Power and Authority of Inspectors.



## SANITARY SEWER SERVICE LINE INSTALLATION

**Control of systems**-The sewer systems of the sewer districts of the City, as constructed, or as hereafter added to or changed, shall be under the charge and control of the Water and Wastewater Commission under whose supervision the sewer systems shall be used by property owners. No person shall enter into, open, or interfere with, or use or do any repair or maintenance work with respect to the sewer systems, except under the inspection and direction of the Water and Wastewater Commission after a written permit has been issued by the Water and Wastewater Commission. Such written permit shall be issued on payment of a fee established by the Water and Wastewater Commission.

**Permits**-All proposed service lines and connections to the City sanitary sewer system shall be required to have a connection permit from the City Engineering Department. Fees are to be paid to the City Water and Wastewater Department. All costs and expenses related to the installation of the sewer line shall be the responsibility of the owner.

**After the fact permit**-Sewer line construction started before a permit is issued by the City Engineering Department will require an after the fact permit. Cost for this permit will be three times the normal permit fee.

**Permit Refusal**-The Water and Wastewater Commission reserves the right to refuse to issue a permit based on the capacity of the sewer system and treatment plant. It may also refuse to issue a permit, due to chemical, biological or any other discharge, which in the opinion of the Administrator of Treatment and Distribution, might be harmful or incompatible with the treatment process.

**Prohibited Connections**-Downspouts, foundation drains, catch basins or any source of unpolluted water shall not be connected to the sanitary sewer system. Any such connections shall be removed from the system by the property owner. If the unpolluted source of water is not removed from the sanitary system within 90 days after notification by the City, the City shall remove the source of the unpolluted water (upon authorization of the Water and Wastewater Commission) at the property owner's expense.

**Materials**-All materials used for the construction of sanitary sewers shall meet City requirements and City standards. Any deviation from the requirements and standards must be submitted to the City Engineering Department in writing and approved by the City Engineer.

**Service Lines**-Sanitary sewer lines shall be constructed by the open trench method unless otherwise approved by the City Engineer. The lines shall be a minimum of 4 inch diameter, slope shall meet 10 States' Standards and have a minimum velocity of 2 feet per second (FPS). Service lines shall be set in a uniform and firm bed with suitable bell holes. Bedding material shall be 57 or 67 stone a minimum of 4 inches thick. Pipe shall be backfilled with 57 or 67 stone to a minimum of 6 inches above crown of pipe. Contractor is to follow the manufacturer's recommendation for installation to insure a watertight system. Clean-outs shall be installed every 100 feet and at any change in horizontal direction. A minimum of 10-foot horizontal separation shall be maintained from any proposed or existing water line. All construction work in the Ohio Department of Transportation (ODOT) right of way shall meet ODOT requirements. All work in the City of Mount Vernon right of way will require a street opening permit before any work can begin.

**Inspection**-All sewer line installation is to be inspected by the Engineering Department. No sewer line shall be placed in service without the Engineering Department's approval. The owner or

contractor is to notify the Engineering Department 24 hours in advance to schedule an inspection. Sewer inspections can be scheduled between the hours of 8 AM and 3:30 p.m., Monday through Friday, except holidays. If the contractor requires an inspection during hours other than specified, a per-hour fee will be required for each hour or fraction of an hour. The sewer line shall be left exposed until the sewer line is inspected and approval is given to backfill the sewer.

**Clean Up and Restoration**-It shall be the responsibility of both the owner and contractor to restore the area to the same or better condition than existed prior to construction. All construction material and excess dirt shall be removed from the site.

**Safety**-The contractor is responsible for all safety on the job site. The contractor shall insure that all federal state and local regulations on safety are followed and that he has competent, trained personnel on site to insure that all regulations are followed.

**Installation of Service Connection**-If a sewer wye does not exist at the main the City will install the wye after the appropriate permit fee has been paid. The contractor will be responsible for excavating the sewer main and insuring that the excavation is safe and acceptable to the City. If the excavation in the City's opinion does not meet safety standards, the contractor will be required to correct the excavation.

**Septic Tank**-If the existing sewer system permitted is serviced by a septic system, the owner will be responsible for complying with the Knox County Health Department's rules and regulations for septic abandonment and pay any required fees. (7/14/99)

### **SEPARATE WATER SERVICE**

Single structures with multiple units are permitted on a single service and are required to have individual shut-off valves located outside of the units. Meters will be furnished in accordance with Water Tap Charges. There shall be only one residence or structure on a service line and each line shall be metered. Each house or structure shall have a separate curb stop located outside the premises and on public right-of-way or public easement unless otherwise approved. The Director of Public Utilities may require properties or premises not so equipped, to install additional services and/or curb stops at the expense of the property owner.

Each parcel shall have a separate tap and the service lateral for that tap shall run directly to and through the property, which it serves.

CROSS REFERENCE: 919.08 Rules of Water Department, (a) Application for Service

### **SEPARATE WATER SERVICE FOR LANDSCAPE WATERING SYSTEMS**

A meter to bill water only may be installed if:

1. The property currently obtains domestic water and wastewater service from the City Utility.
2. Plumbing plans for the water only line are submitted to and approved by the City Water and Wastewater Department
3. A permit has been issued/separate tap has been installed for the watering system.

4. The system has been inspected prior to backfilling.

The billing for the water only meter will be subject to the following:

The meter is billed year round for water consumption only, regardless of whether or not there is usage. If there is no usage, the minimum charge will apply. There is no temporary waiver of minimum charges permitted for water only meters.

Should the property be vacated and the main service be placed on waiver of minimum charges, the water meter may also be placed on waiver of minimum charges. There will be a disconnection fee for each meter at the time the service is disconnected.

## **REPAIR TO SERVICE LINE**

Whenever a break, leak, or freezing occurs in any service line between the main line and the curb shut-off, the City Water and Wastewater Department will repair it and restore the service at the City's expense as soon as possible. If said break, leak, or freezing is in the property owner's line between curb box shut-off (or street property line in the absence of a curb box) and the structure, the City Water and Wastewater Department, in order to prevent waste or damage has the right to discontinue water service. If in doing so it becomes necessary for the City Utility to dig up the curb box or line, the owner of the property will be charged with the cost of doing said work and for all necessary material used therein.

The portion of service laterals which are constructed by the owner or paid for by the owner in accordance with Water Tap Charges and shall be the responsibility of the owner and shall be maintained and repaired by the owner at the owner's cost and expense.

The City Water and Wastewater Department will not be responsible for breakage of pipes or valves occurring during removal or installation of meters where such breakage is due to old or faulty plumbing.

Whenever a break or leak occurs in the service lateral and the service lateral is anything other than ductile iron or K-Copper, the entire lateral must be replaced.

CROSS REFERENCE: 919.05 Installation, Repair and Maintenance Work (a), (b) 919.08 Rules of Water Department, (g) Access to Premises; (h) Utility's Installation, (3), (6); (i).Consumer's Installation, (4)

## **METER SPECIFICATION**

All meters shall conform to the standard specifications for meters on file and approved by the City Water and Wastewater Department. Meters are required to be installed outside in approved pits, unless otherwise approved by the Water and Wastewater Commission. In the event that a meter is installed inside the structure, additional installation of remote registering devices shall be required. Remote device will meet specifications of the City Water & Wastewater Department.

## **METER LOCATION AND PROTECTION**

The City Utility will furnish, maintain, and own the meter housing, curb stop, meter mounting yoke, meter, and accessory equipment. The meter will be installed by the City. In all new installations, the City will allow the contractor to install the meter housing and all accessory equipment, except the meter. In addition, meters one (1) inch or larger may be installed by the contractor. These installations must have flanges and bypasses, if a yoke is not used. All contractor installed meters and housings are subject to signed written inspections by the Utility.

Meters shall be located outdoors, below the frost line so as not to be subject to freezing under normal water use conditions of the consumer. When it is impossible for the meter to be installed in a meter pit, the location shall be determined by the Water and Wastewater Commission. For inside installations, the consumer must provide a suitable location for the meter where it will be readily accessible for reading and repair.

Upon installation of an inside meter a one-half (1/2) inch inside diameter (ID) conduit shall be installed for the outside register cable. Masonry buildings shall provide a one-half (1/2) inch inside diameter (ID) conduit through an exterior wall for the outside register cable. Installation of the conduit for the register cable must be approved by the Water and Wastewater Utility. Any freezing of the meter due to the premises being unoccupied and/or no water usage shall be the responsibility of the owner. Should the property owner damage the meter pit so as to cause freezing, the Utility will thaw the meter, billing the owner for the repairs to the meter.

The Utility may issue a freeze credit, not to exceed 900 cubic feet over the average billing unit, in an effort to assist consumers when temperatures are extreme. A written request must be submitted to obtain the credit. This will allow consumers to leave a thin stream of water running in order to keep lines from freezing. Extraordinary maintenance and repairs caused by service line freezing back to the meter, back up of hot water through the meter or other negligence on the part of the consumer shall be paid for by the consumer. The Utility shall bill the consumer for all material, including replacement of meter if necessary, labor, transportation, and other properly chargeable expenses.

CROSS REFERENCE: 919.08 Rules of Water Department, © Meter Installation; (i) Consumer's Installation, (6), (7)

## **METER RELOCATIONS – INSIDE METERS TO OUTSIDE LOCATIONS**

When a leak or change occurs in a line where there is an inside meter, the meter shall be moved from inside the dwelling to a meter pit outside the building. The work will follow the guidelines listed below:

1. The City of Mount Vernon's Water and Wastewater Distribution Crew will be responsible for the installation of the pit.
2. The inside meter will be removed and service reconnected by the City of Mount Vernon's Water Meter Division.
3. If the consumer had followed the instructions of the City of installing the inside meter, the consumer will not be responsible for any part of the cost of meter relocation.
4. Cannot be installed in pit.

This policy is intended to address single unit residential meter relocation. All other relocations are at the expense of the owner.

## **METER SUBSTITUTION**

The City Water and Wastewater Department reserves the right to remove a meter from any premises and substitute another in its place for purposes of testing, calibration, repair, or permanent replacement.

CROSS REFERENCE: 919.06 Power and Authority of Inspectors

## **TESTING**

Upon request and after submission of a \$60.00 deposit, the City Water and Wastewater Department will remove and test (at the City Water Meter Division Shop) any meter 2-inch in size or less. If requested, the test will be made in the presence of the owner or consumer. If the meter tests within 2 percent (plus or minus) on all streams from 10 to 20 gallons per minute and within 10 percent (minus) on one-half (1/2) gallon per minute (the established tolerance limits), the meter is functioning properly and a charge of \$60.00 will be made for the test.

CROSS REFERENCE: 919.08 Rules of Water Department, (e) Billings and Payments, (3)

## **METER BY-PASS**

All meters 2-inch in diameter or larger shall be provided with a by-pass. Said by-pass must be valved so that it can be sealed to prevent its use by anyone except City Water and Wastewater Department personnel. The size of the by-pass shall be equal to the size of the meter.

## **VALVES**

Each meter installation shall be provided with an approved shut-off valve at both the inlet and outlet side of said meter and such shut-off valves shall be readily accessible.

CROSS REFERENCE: 919.08 Rules for Water Department, (i) Consumer's Installation, (3)

## **BACKFLOW PREVENTION**

No person or firm shall make or maintain any physical connection between any other source of water or liquid and the public water supply piping. No spigot or outlet shall be submerged below a free overflow. The Mount Vernon Water and Wastewater Department will require an approved backflow prevention device on each water line at the outlet side of the water meter where an actual or potential health hazard exists, as determined by the Director of Public Utilities or the Water and Wastewater Commission. The type of backflow device is to be determined by the Administrator or the Water and Wastewater Commission. It shall be the responsibility of the owner to provide, test, and maintain backflow devices as required. Director of Public Utilities shall inspect and approve all devices to make sure they are installed properly.

CROSS REFERENCE: 919.11 Backflow Prevention

## **CROSS CONNECTIONS**

The City reserves the right to require consumer to install in his water piping system a suitable backflow device, the installation of which shall be approved by the Utility, so as to prevent hot water and/or excessive pressures from entering the utility's system. If utility's meter is damaged by hot water, steam, rough use, or any cause other than natural wear and usage, the consumer shall be charged the amount of the repair. The amount shall be placed on the water bill of the consumer for the succeeding month and shall be due and payable within the payment period specified for bills. If the amount of charges is not paid within the time provided for the payment of such bills, the water service may be disconnected as in other cases for non-payment of bills.

In order to avoid possible contamination of the Utility's water supply, under no condition will any cross connections be permitted between any piping of consumer and any other sources of water supply or drainage. When any such cross connections exist, the Utility reserves the right to immediately shut off without notice its water service to the consumer involved. In this event, service will not be re-established until the condition is corrected at owner's expense and to the utility's satisfaction.

CROSS REFERENCE: 919.08 Rules of Water Department, (d) Use of Service, (1); (i) Consumer's Installation, (1), (7), (8)

## **METER READINGS**

Meter readings will be taken quarterly or monthly and as near the same date as practical for the Water Utility. If the meter reader is unable to obtain a reading by reason of the meter being out of order, it will be replaced in accordance with Meter Location and Protection, and an estimated charge will be made.

If the meter reader is unable to gain entrance to the premises, the current bill will be estimated. Estimates will be based on the four previous actual readings. Water consumption will not be estimated two quarterly billing periods in succession.

CROSS REFERENCE: 919.08 Rules for Water Department, (e) Billings and Payments, (1), (2)

## **WATER RATES, COLLECTION AND PENALTIES**

Charges for water service shall be as determined by the Service Director in accordance with authority granted by Section 743.04 of the Ohio Revised Code and as journalized by the Water and Wastewater Commission.

### **Availability**

This schedule is applicable to all water services within the corporate limits of the City and all other areas covered under the current contract with the County and/or townships. Service will be furnished

in accordance with the City's General Rules, Terms, and Conditions covering water service on file at the City's Water and Wastewater Department Office.

Every improved lot and/or structure where water service is available 200 feet from water line or easement to foundation as determined by the Water and Wastewater Commission, shall be charged the WSAC minimum charge whether connected or not.

The Water Service Availability Charge per service for any billing period or part thereof shall in no event be less than the charge for 1200 cubic foot quarterly.

When the City's water supply has been available for 90 days, the WSAC shall apply and be due and payable with each and every billing. This WSAC will also apply when the water is shut off at the request of the consumer.

### **Terms of Payment**

The rates set forth are net rates and apply only in the event all accounts for water service are paid on or before the date specified on the bill. If not paid, the gross rates shall apply which are the net rates plus ten percent.

### **Direct Sales to Tank Trucks**

Metered sales from City's water utility will be made to tank trucks with the location, time, and hour to be specified by the Administrator of Treatment and Distribution. The charge for all water furnished shall be per current charges. Payment can be made at the City Water and Wastewater Department Office, 3 North Gay Street, Mount Vernon, Ohio, during regular business hours, or for consumer convenience at approved financial institutions.

**Credit for Registered Senior Citizens** In order to be eligible for such credit, any and all citizens of the City who have reached the age of sixty-five (65) years shall make application therefore to the Water and Wastewater Department of the City. Consumers who have reached the age of 65 can obtain the Senior Citizen Discount Credit by completing the approved form at the Water and Wastewater Office.

### **Billings and Payments**

- (1) Bills for water service shall be rendered monthly and are payable on or before the 15<sup>th</sup> day of the billing monthly. Failure to receive the billing will not entitle consumer to the net rates nor the remission of any charge for non-payment within the time specified. Industrial consumers, depending upon the quantity of water used, can be billed monthly. Monthly billings are due and payable on or before the 15<sup>th</sup> of the billing month.
- (2) In the event of the failure of any water meter to register the full amount of water consumed, the consumer will be billed on an estimated consumption basis based upon consumer's normal use of water in a similar period during the time the meter was registering correctly.
- (3) All meter readings and billings shall be in units of either 100 or 1,000 cubic feet, depending upon the size of the meter.

- (4) For service involving a partial billing period and where either the initial billing after service is first established or the final billing period up to that time of discontinuance of service by the consumer is less than the regular billing period, the following billing procedure will apply:
  - (a) When service is initially established to the consumer or where the consumers account is being transferred from one location to another and the period of service involves seven (7) days or less of the utility's regular billing period, the consumer's initial usage at the new location will be carried over into the next succeeding billing period at that location and shall be combined with and considered as part of same.
  - (b) For all other service furnished for a partial billing period, including all final bills, the bill shall be calculated in accordance with the rate blocks and charges, including the WSAC as set forth in the applicable rate schedule.
- (5) A consumer who intends to move from the premises or discontinue the use of water, shall give the utility reasonable notice of such intention and the consumer and/or owner shall be liable for all water that may be used upon the premises until such notice is given and the utility has made the final meter reading.

### **Responsibility of Payment of Bills by Owner**

The present owner of record of the real estate to which water service is furnished shall be responsible for the payment of all water bills, irrespective of who incurred such unpaid bills or when such bills were incurred or who owned or occupied the property at the time the bills were incurred. All unpaid water bills shall be assessed as a tax lien against the property involved, collectible according to law.

All gross bills and other charges due for water service, if not paid within ninety days after the same are due and payable, shall become a lien upon the premises being supplied with water service. Such a lien shall be certified to the Auditor of Knox County, at which time the lien shall vest and the Auditor shall place same on the tax duplicate of the County, together with the interest and penalties allowed by law and be collected in the same manner as other taxes.

CROSS REFERENCE: 919.08 Water Rates, (Entire Section); 919.09 Rules of Water Department, (e) Billings and Payments, (f) Responsibility of Payment of Bills by Property Owner

### **USE OF WATER FOR CONSTRUCTION PURPOSES**

When a service connection is made to a City main for new construction, a water meter will be set to measure all water used during the construction period; in which case, the regular metered rate will be charged in accordance with the current schedule. No person, other than an authorized agent of the City Water and Wastewater Department, shall turn on water for such purposes. Water will not be made available until after the tap charge and construction charges have been paid.

CROSS REFERENCE: 919.08 Rules of Water Department, (k) Temporary Service



## **INSPECTION OF METERS, BACKFLOW DEVICES, PIPING, ETC.**

The Director of Public Utilities and other duly authorized employees of the water and wastewater utility, bearing proper credentials and identification, shall be permitted to enter upon all properties at all reasonable hours for the purpose of inspection, observation, measurement, sampling, and testing for proper activities in accordance with the terms of this chapter or any regulations promulgated herein. The powers and authority herein granted shall be in addition to the powers of inspection otherwise granted by law to water and wastewater utilities.

All information in possession of the owner bearing on the industrial, commercial or other processes which, in the judgment of the Director of Public Utilities affects the water system, shall be made available to the Administrator or his/her authorized representative.

In case any authorized inspector, meter reader, or employee is refused admittance to any premises or shall be hindered or prevented from making such examination, the water service will be discontinued and not reinstated until free access is given.

CROSS REFERENCE: 919.05 Installation, Repair and Maintenance Work; 919.06 Power an Authority of inspector

## **FIRE SERVICE TAPS**

For installation of water main extensions, which are required solely for the purpose of providing fire protection to the consumer, the consumer shall pay the entire cost of such special mains including any special or check meters required as provided for in the rate schedule. In no event will special extensions of water mains be made to provide fire protection service unless the consumer agrees, in writing, to purchase 100 percent of their other water requirements from the utility.

The installation of fire protection service connections to supply water to standpipes and sprinkler systems for fire protection only shall be permitted when applications and plans for such service have been submitted and approved and the classification of such service determined by the Director of Public Utilities. Pipes intended for fire protection shall not be tapped or used for the general water supply of any building, structure, or premises, unless so authorized by the Administrator. All fire service taps shall be made by the contractor in accordance with Water Tap Charges. The fire service line shall be extended from the end of the main line by any contractor approved by the Administrators. The required distance between hydrants is 500 feet or as otherwise specified by the Fire Chief or the Engineering Department.

All new fire service lines shall include an approved backflow preventer and flow detection device or meter. The City Water and Wastewater Department reserves the right to order installation of a check valve and a meter or flow detecting device of a type acceptable to and approved by the National Board of Fire Underwriters in any existing fire line.

CROSS REFERENCE: 919.07 Water Rates, 919.08 Rules of Water Department, (j)  
Fire Protection Service

## **FIRE PROTECTION SERVICE REQUIREMENT**

For all fire protection service requiring a special fire service line located on consumer's premises, consumer shall install, at his expense and subject to City's approval and inspection, all of the necessary complete and separate piping system extending from the meter vault connecting to the consumer's system.

All separate fire service lines shall, at the discretion of the Director of Public Utilities, upon reasonable written notice, require installation of an approved meter that will measure any flow of water in it and deter any illegal diversion of water from the fire line. The check meter and its installation shall meet City's specification and the entire installation shall be at the expense of the consumer. The consumer's fire protection system shall be defined as a separate piping system to which are connected one or more of the following fire protection devices or equipment, including but not limited to: fire hose, hydrants, sprinklers, fire or booster pumps, elevated water storage tanks or other equipment or devices usually considered as fire protection equipment.

A combination service shall be defined as a water service line, whose size (two inches (2")) or less with a maximum of three (3) sprinkler heads), in the opinion of the water utility, is determined primarily by consumer's fire protection requirements. Such fire flow shall be estimated by the water utility and deducted from consumer's water bill.

CROSS REFERENCE: 919.07 Water Rates, (f) Fire Protection Service; 919.08 Rules of Water Department, (j) Fire Protection Service

## **FIRE DEPARTMENT USE OF HYDRANTS AND APPURTENANCES**

In case of fire, training exercises and maintenance purposes, the City Fire Department shall have the right to use any hydrant, hose, pipe, or other fixture wholly or in part for fire protection.

### **FIRE HYDRANT USE**

No person, except an authorized agent of the City Water and Wastewater Department or the City Fire Department shall utilize or take any water from said hydrant under any circumstances. In case any damage is done to a fire hydrant by a person, he shall, upon demand of the City Water and Wastewater Department, pay such damages and all cost and expense incurred by reason thereof.

CROSS REFERENCE: 919.08 Rules of Water Department, (j) Fire Protection Service

In addition, all water used from a hydrant must be metered. A valve and meter will be installed by City Water and Wastewater Department personnel on an approved fire hydrant after permission has been granted. Water usage will be billed according to the current water rate.

CROSS REFERENCE: 919.08 Rules of Water Department, (j) Fire Protection Service

## **WATER LINE EXTENSIONS IN NEW SUBDIVISIONS AND ALLOTMENTS**

In the case of a new multiple lot subdivision or development, all taps and service lines must be installed at the time the water mains are installed. The service line installation shall extend from the main up to and including the water service shut-off valve box. The installation will conform to the standards and specifications of the utility.

In all cases where new water mains are being installed, every owner/developer will be required at that time and at his expense to have service line, service shut-off valve, and box installed for each lot regardless of when the lot is to be occupied.

The utility will operate, maintain, and repair the distribution line and appurtenances extending from the main up to and including the service shut-off valve box and meter.

No person, other than an employee of the City Water and Wastewater Department, shall tap a water main or extend a service in the street from the main to the curb. Provided, however, that where a developer is making a number of taps the Director of Public Utilities may, at his/her discretion, permit the developer to make his own taps, provided such taps are made in accordance with the specifications of the Commission.

All distribution lines from the main to the service shut-off valve shall be of not less than 0.75-inch (3/4-inch) inside diameter of Type K soft copper pipe, with approved fittings.

Normal maintenance and repair of the meter will be done by City Water and Wastewater Department, at its expense. However, extraordinary maintenance and repairs caused by freezing, back up of hot water through the meter or by other negligence on the part of the consumer shall be paid for by the consumer. The cost is to be the City's total cost of all materials, including replacement of the meter if necessary, labor, transportation, and other properly chargeable expenses.

## **CONSUMER'S INTERNAL PLUMBING INSTALLATION**

The utility reserves the right to refuse service or to discontinue service after once established, whenever the consumer's installation is of such nature that it would jeopardize, contaminate, or otherwise affect the service to other consumers.

The consumer's installation shall conform to State Plumbing Code or other governmental authority having jurisdiction over the same. Regular water service shall not be established until consumer's installation is inspected and approved by the Regulatory Authority.

All consumers shall have shut-off valves installed at a suitable location to be specified by the utility before service is established or reconnected.

The service line and all connections extending from service shutoff valve to and throughout consumer's premises shall be installed, owned, operated, and maintained by the property owner. Such service line extending from the utility's service shut-off valve shall conform to and be installed in accordance with the utility's specifications. (See Service Line Extension to Building.)

All property owners shall maintain, at their expense, the service pipes and connections in good repair. All service lines shall be located below the frost line (four feet below grade) in order to protect them from frost or other damage.

The consumer shall have an adequate number of valves and/or drain valves and his piping so arranged that water can be drained so as to prevent freezing of the meter.

No person, without a written permit from the City Water and Wastewater Department, is allowed to turn a stopcock, hydrant, or valve of the utility other than as provided; except however, members of the Fire Division in the performance of their duties. In case trouble occurs between the main and the shut-off valve or in the meter, the City Water and Wastewater Department must be contacted.

CROSS REFERENCE: 919.05-Installation, Repair and Maintenance Work; 919.08 Rules of Water Department, (a) Application for Service; (b) Tap and Service Line Installation; (c) Meter Installation; (d) Use of Service; (g) Access to Premises; (h) Utility's Installation; (i) Costumers Installation; (l) Line Extension; (n) Consumer's Liability; (q) New Paving; Water Connections Shall be Made to Unserved Lots.

### **WATER LINE EXTENSIONS IN EXISTING OR ESTABLISHED SUBDIVISIONS OR ALLOTMENTS**

Special extensions of the utility's water mains will be determined by the Water and Wastewater Commission and the consumer shall pay such cost of extension as provided in the Water and Wastewater Commission's "Line Extension Policy." Where a consumer, group of consumers, or developer pays for the cost of a special extension, the terms and security of payments shall be as prescribed by and shall meet the approval of the Water and Wastewater Commission. Line Extensions in previously established subdivisions having no water service shall be petitioned for by the adjoining lot owners and will be installed on an assessment basis as provided in the Ohio Revised Code.

CROSS REFERENCE 919.07 Rules of Water Department, (l) Line Extensions

### **POLICY FOR WATER SERVICE TO EXISTING TRAILER PARKS**

When the water utility becomes available to an existing trailer park, meter may be handled in the follow two ways:

- A) **Master metering.** The property owner shall install a master meter to record all consumption in the complex. Use of this option will not require the property owner to change existing lines within the complex. However, the property owner will be responsible for the maintenance of all lines' water loss within the park.
- B) **Individual metering.** The property owner shall install individual meters at each trailer. In order to exercise this option, the owner must first come into compliance with current City specifications. Presently the City requires a minimum 8" ductile iron line for the main truck line and a minimum ¾" k copper, and approved fittings for each individual trailer's service line. All meters shall be placed outside the trailers in meter pits. Prior to individual metering, the owner shall be required to give proper utility easements to the City.

## **CONTRACTOR TO BE APPROVED**

All water line or service lateral extensions shall be installed by an experienced contractor and subject to the approval of the Administrators of Water and Wastewater or the City Engineer.

## **SIZE OF WATER MAINS**

The City may, at its option, furnish materials to satisfy its participation in the cost of the increased size of a water main and appurtenances.

The minimum size for water mains shall be 8-inch, except for short lateral mains. Short lateral Mains not requiring fire service may be permitted as 4-inch when approved by the Water and Wastewater Commission.

All other extensions are considered private lines as determined by the Water and Wastewater Commission. All water lines not in the right-of-ways or dedicated easements are considered to be private lines.

## **DISINFECTION**

No new water mains, main extensions, main replacements, and/or other appurtenances which will be connected to or become a part of the City water distribution system shall be activated or placed into service until they have been properly disinfected in accordance with the current AWWA specifications (C651). It shall be the responsibility of the contractor making the installation to provide approved sampling taps at locations suitable to the City Water and Wastewater Department.

All potable service lines two (2) inches or larger shall be disinfected in accordance AWWA standard specifications. Upon completion of disinfection and subsequent flushing of the line, the contractor shall be responsible for collecting water samples and having the samples tested at an Ohio EPA approved laboratory at the contractor's cost.

## **COVER**

All water mains shall be installed so as to have a minimum cover of four (4) feet from the ground surface or proposed future street grade.

CROSS-REFERENCE: 919.08 Rules of Water Department, (i) Consumer's Installation, (5)

## **LOCATION**

The location of all water lines and appurtenances, including service laterals, shall be approved by the City Engineer and the Administrator of Water and Wastewater Department. Where necessary, the City Engineer will require plans and profiles to be submitted. All installations shall be in accordance with the standard specifications of the City Engineering Department.

CROSS-REFERENCE: 919.03 Service Lines and Connection: Grant of Permit for Water Use

## **EMERGENCY SERVICE CALLS**

The City Water and Wastewater Department shall make a charge set by the Water and Wastewater Commission for the cost of labor and equipment necessary for **non-emergency service calls** on Saturdays, Sundays, and holidays. Such charge shall be determined by the Water and Wastewater

Commission and shall be assessed for turning water off or on, or to complete a special request of the consumer.

**Emergency shut-off calls** due to breakage or freezing of the customer's service line or plumbing facilities, shall not require a charge. However, if any breakage or leakage is caused by negligence of the consumer or repeated responses to a residence, charges shall be billed to the customer. The Utility shall bill the consumer for all materials, including replacement of meter, if necessary, labor, transportation, and other properly chargeable expenses. After normal working hours, extra service requests should be directed to the Police Department who will then contact the proper people to complete the request.

## UTILITY LIABILITY

The utility will use reasonable diligence in supplying a regular, uninterrupted supply of water. However, the Utility shall not be liable for damages in case such supply should be interrupted or fail by reason of an act of God, the public enemy, accidents, strikes, legal processes, other governmental interferences, breakdowns or injury to the machinery or water distribution lines of the City or for normal and extraordinary repairs. Consumer is responsible for reserve supply where needed.

CROSS REFERENCE: 919.08 Rules of Water Department, (m) Utility's Liability.

## VALIDITY

Each section or part thereof in these Rules and Regulations is hereby declared to be a separate and distinct enactment and should any section or part thereof be held inoperative or void, it shall not affect the validity of any other section or part thereof.

## AUTHORITY, PENALTIES FOR VIOLATION

Penalties for violation of these Rules and Regulations are contained within the Codified Ordinances of the City of Mount Vernon and the Ohio Revised Code, Section 4933,

## UNIT DEFINITIONS

- Single Unit:** A structure that has been build or remodeled to accommodate a single living quarter or business, being served by one water and/or sanitary sewer line or having the availability to be served by the City Utilities.
- Multi-Units:** A structure that has been built or remodeled to accommodate multiple living quarters or businesses, being served by one water and/or sanitary sewer service line or having the availability to be served by the City Utilities.
- (EDU) Equivalent Dwelling Units:** The Ohio EPA sewage flow guide is the reference for determining the Equivalent Dwelling Units (EDU's) for residential or non-residential Customer.

**The following Equivalent Dwelling Units (EDU's) have been established by the Mount Vernon Water and Wastewater Department:**

<b>Home:</b>	1 unit per home (single dwelling)
<b>Apartments:</b>	1 unit per apartment
<b>Bed &amp; Breakfast Houses:</b>	.5 units per sleeping room
<b>Sleeping Rooms:</b>	.5 unit per sleeping room
<b>Motels/Hotels</b>	.5 unit per sleeping room
<b>Hospitals:</b>	.5 units per sleeping room
<b>Businesses</b>	1 unit per advertised business

**MISCELLANEOUS WATER CHARGES**

**Construction water** - will be metered and billed at the current charge for bulk water. As with other bulk water, a minimum fee set by the Water and Wastewater Commission will be charged per month.

**Temporary Service** - Whenever the service requested by the consumer is temporary, special, short-term, or emergent, the written application for such service shall specify the period of service, the character of service, and the consumer shall pay for all extra charges involved in connection with the installation and removal of the service and connections together with all material, labor, and other expenses incidental thereto. Temporary service shall be defined as water service that is to be furnished to establishments or for purposes that are, in the opinion of the utility, considered to be non-permanent in character.

The rate to be charged for such temporary service shall be the same as the billing rate established by the Commission for bulk water.

CROSS REFERENCE: 919.08 Rules of Water Department, (k) Temporary Service

# FEES AND CHARGES

## Bad Check Charges

Bad check corrected after 1<sup>st</sup> notice from office..... \$ 30.00  
Bad check which requires certified letter for collection ..... \$ 40.00

## Turn on charges or fines

Card charge for door hanger ..... \$ 10.00  
Non-payment fee Water off/on whether service terminated or not.....\$40.00  
Reconnection charge-water off for waiver of minimum ..... \$75.00  
Turn on charge for when water off for tampering ..... \$125.00  
Non-emergency call out charge .....\$120.00  
Fine for tapping into main without authorization ..... Penalty per  
Ohio Revised Code

## Water Service Application Fees

Water tap permit fee obtained prior to tapping service..... \$ 40.00  
Water tap permit fee obtained after tap has been installed..... \$120.00  
Water line extension permit .....\$ 40.00  
\* Individual taps per attached chart

## Sewer Service Application Fees

Sewer Tap Permit Fee obtained prior to tapping service.....\$ 40.00  
Sewer Tap Permit Fee obtained after tap has been installed.....\$120.00  
Tapping fee (cutting new tap on main) .....\$145.00  
Sewer trunk line extension (per future unit served).....\$ 25.00  
Assessment fee \*Per Ordinance..... \$800.00 min or  
Actual charge per Ordinance  
Tank Truck..... \$10.00 per 1000 gallons  
Septic Waste Charges.....\$35.00 per 1000 gallons

Revised September 19, 2017



## FIRE LINE CHARGES

QUARTERLY CHG	LINE SIZE	MONTHLY CHARGE
N/A	1 1/2 INCH	\$14.01
N/A	2 INCH	\$21.01
N/A	4 INCH	\$28.00
N/A	6 INCH	\$49.01
N/A	8 INCH	\$96.61
N/A	10 INCH	\$142.82
N/A	12 INCH	\$172.22

## In City

### Water Service Charges – Rates effective April 1, 2017

#### Monthly

Less than	4	\$23.76*
Next	60	\$4.76
Next	600	\$3.97
Next	5936	\$2.82
Next	4095	\$3.28
Over	10695	\$3.71

#### **\*Water Service Availability Charge**

Base rate charge for first 400 cubic ft. and under \$5.94 per hundred cubic ft. monthly.

#### Water Service Availability Charge

Meter size	Capacity Factor	Monthly Meter Charge
5/8"-3/4"	1.00	\$23.76*
1"	2.50	\$59.40
1 1/2"	5.00	\$118.80
2"	8.00	\$190.08
3"	16.80	\$399.17
4"	27.50	\$653.40
6"	56.30	\$1,337.69
8"	85.00	\$2,019.60
10"	130.00	\$3,088.80

**\*Water Service Availability Charge Applies for first first 400 cu ft (monthly).**

## Out of City

### Water Service Charges – Rates effective April 1, 2017 billing

Monthly		
Less than	4	\$33.26*
Next	60	\$6.66
Next	600	\$5.56
Next	5936	\$3.95
Next	4095	\$4.59
Over	10695	\$5.19

**\*Water Service Availability Charge (W.S.A.C. charge) applies to first 400 cu ft of usage. Balance at sliding scale per 100 cubic ft over. (\$8.315 at 400 minimum)**

#### Water Service Availability Charge

Meter size	Capacity Factor	Monthly Meter Charge
5/8"-3/4"	1.00	\$33.26
1"	2.50	\$83.15
1 1/2"	5.00	\$166.30
2"	8.00	\$266.08
3"	16.80	\$558.77
4"	27.50	\$914.65
6"	56.30	\$1,872.54
8"	85.00	\$2,827.10
10"	130.00	\$4,323.80

**Base rate charge for under 400 (monthly) cubic ft. and is \$8.315 per hundred cubic ft.**

## IN CITY

### Wastewater Service Charges- Rates effective April 1, 2017 billing

#### Monthly

Meter size	Theoretical Capacity Factor	WSAC chg Per meter size
5/8"-3/4"	\$1.00	\$ 19.60*
1"	1.35	26.46
1 1/2"	3.10	60.76
2"	5.40	105.84
3"	12.30	241.08
4"	21.90	429.24
6"	49.10	962.36
8"	87.20	1709.12

Usage computed as WWSAC charge for first 400 cubic ft and \$4.90 per 100 cubic ft charged for all over 400 cubic feet.

In City flat rate connected without water access \$28.95

\*\*Ref Council Ordinance

## Out of City

### Wastewater Service Charges April 1, 2017\*\*

#### Monthly

Meter size	Capacity Factor	WSAC chg Per meter size
5/8"-3/4"	1.00	\$ 27.44*
1"	1.35	\$37.04
1 1/2"	3.10	\$85.06
2"	5.40	\$148.18
3'	12.30	\$337.51
4"	21.90	\$600.94
6"	49.10	\$1347.30
8"	87.20	\$2392.77

Usage computed as WWSAC charge for first 400 cubic ft and \$6.86 per 100 cubic ft charged for all over 400 cubic ft.

Out of City Flat rate charge per unit is \$40.53 (sewer connected, not metered)

Clinton Township charge is either minimum metered or flat rate plus Clinton charge of \$18.47 per unit.

Services may also be billed by meter size minimums or by number of existing units.

\*\* Reference City Council Ordinance 2017-09, March 3, 2017

## **LAWN WATERING CREDIT/ADJUSTMENT FOR TREE PLANTING**

When consumers have newly planted yards, trees, or shrubs, the City will issue a one-time SEWER ONLY credit for this landscaping. The consumer must submit a drawing to the Water and Wastewater Office to indicate how much will be seeded and the number of shrubs or trees to be watered. This diagram must accompany a request letter for credit of all sewer charges over his/her average bill.

### **BACKFLOW PREVENTION – RULES AND REGULATIONS:**

#### **SECTION 1**

##### **A. Purpose.**

The purpose of these Rules and Regulations is:

1. To protect the public potable water supply from contamination or pollution by isolation within the consumer's water system contaminants or pollutants which could backflow through the service connection into the public potable water system.
2. To promote the elimination or control of existing cross-connection, actual or potential between the public or consumer's potable water system and non-potable water systems, plumbing fixtures and sources or systems containing process fluids.
3. To provide for the maintenance of a continuing program of cross-connection control which will systematically and effectively prevent the contamination or pollution of the public and consumer's potable water systems.

##### **B. Application.**

These Rules and Regulations shall apply to all premises served by the public potable water system of the City of Mount Vernon, Ohio.

##### **C. Policy.**

The Water & Wastewater Commission shall be responsible for the protection of the public potable water system from contamination due to backflow of contaminants through the water service connection. If, in the judgment of the Commission, an approved backflow prevention device is necessary at the water service connection to any consumer's premises for the safety of the water system, the Commission or its authorized representative who shall report to the Commission as needed, shall give notice to the consumer to install such approved backflow prevention device at each service connection to the consumer's premises. The consumer shall immediately install such approved device or devices at his own expense, and failure, refusal or inability on the part of the consumer to install such device or devices immediately shall constitute grounds for discontinuing water service to the premises until such device or devices have been installed.

## SECTION 2

### DEFINITIONS.

- A. The following definitions shall apply in the interpretation and enforcement of these rules and regulations:
1. **Air Gap Separation**---means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or other device and flood level rim of the receptacle.
  2. **Approved**---means that a backflow prevention device or method has been accepted by the supplier or water and the director as suitable for the proposed use.
  3. **Auxiliary Water Supply**---means any water system on or available to the premises other than the public water system and includes the water supplied by the system. These auxiliary waters may include water from another source such as wells, lakes or streams; or process fluids; or used water. They may be polluted or contaminated or objectionable or constitute a water source or system over which the supplier of water does not have control.
  4. **Backflow**---means the flow of water or other liquids, mixtures or substances into the distributing pipes of a potable water supply from any source other than the intended sources of the potable water supply.
  5. **Backflow Prevention Device**---means any device, method, or type of construction intended to prevent backflow into a potable water system.
  6. **Consumer**---means the owner or person in control of any premises supplied by or in any manner connected to a public water system.
  7. **Consumer's Water System**---means any water system located on the consumer's premises, supplied by or in any manner connected to a public water system.
  8. **Contamination**---means in impairment of the quality of the water by sewage or process fluid or waste to a degree which could create an actual hazard to the public health through poisoning or through spread of disease by exposure.
  9. **Cross-connection**---means any arrangement whereby backflow can occur.
  10. **Degree of Hazard**---means the potential risk to health and the adverse effect upon the potable water system derived from an evaluation of that potential.
  11. **Director**---means the director of environmental protection or his duly authorized representative.
  12. **Double Check Valve Assembly**---means an assembly composed of two single, independently acting, check valves including tightly closing shutoff valves located at each end of the assembly and suitable connections for testing the water-tightness of each check valve.
  13. **Health Hazard**--- means any condition, device, or practice in a water system or its operation that creates, or may create, a danger to the health and well-being of users. The word "severe"

as used to qualify “health hazard” means a hazard to the health of the user that could reasonably be expected to result in significant morbidity or death.

14. **Interchangeable Connection**---means an arrangement or device that will allow alternate but not simultaneous use of two sources of water.
15. **Non-potable water**---means water not safe for drinking, personal, or culinary use.
16. **Person**---means the state, any political subdivision, public or private corporation, individual, partnership, or other legal entity.
17. **Pollution**---means the presence in water of any foreign substance that tends to degrade its quality so as to constitute a hazard or impair the usefulness or quality of the water to degree which does not create an actual hazard to the public health but which does adversely and unreasonably affect such water for domestic use.
18. **Potable Water**---means water which is satisfactory for drinking, culinary, and domestic purposes and meets the requirements of the Environmental Protection Agency.
19. **Process Fluids**---means any fluid or solution which may be chemically, biologically or otherwise contaminated or polluted in a form or concentration such as would constitute a health, pollution, or system hazard if introduced into the public or a potable consumer’s water system. This includes, but is not limited to:
  - a. Polluted or contaminated waters;
  - b. Process waters;
  - c. Used waters originating from the public water system which may have deteriorated in sanitary quality;
  - d. Cooling waters;
  - e. Contaminated natural waters taken from wells, lakes, streams or irrigation systems;
  - f. Chemicals in solution or suspension;
  - g. Oils, gases, acids, alkalis and other liquid and gaseous fluids used in industrial or other processes, or for firefighting purposes.
20. **Public Water System**--- means that which is ascribed to such term in rule 3745-81-01 of the Administrative Code.
21. **Reduced Pressure Principle Backflow Prevention Device**---means a device containing a minimum of two independently acting check valves together with an automatically operated pressure differential relief valve located between two check valves. During normal flow and the cessation of normal flow, the pressure between two check valves. During normal flow and the cessation of normal flow, the pressure between these two checks shall be less than the supply pressure. In case of leakage of either check valve, the differential relief valve, by discharging to the atmosphere, shall operate to maintain the pressure between the check valves at less than the supply pressure. The unit must include tightly closing shutoff valves located at each end of the device, and each device shall be fitted with properly located test cocks.



22. **Service Connection**--- means the discharge side of the service shut off, to the first shutoff valve located inside the structure. This consists of all the piping of fittings, valves and appurtenances on the consumer's side of the service shut off.
23. **Supplier of Water**---means the owner or operator of a public water system.
23. **System Hazard** --- means a condition posing an actual or potential threat of damage to the physical properties o the public water system or a potable consumer's water system.
24. **Pollution Hazard**---means a condition through which an aesthetically objectionable or degrading material not dangerous to health may enter the public water system or a potable consumer's water system.
25. **Used Water**---means any water supplied by a supplier of water from a public water system to a consumer's water system after it has passed through the service connection and is no longer under the control of the supplier.

### SECTION 3.

#### **WATER SYSTEM**

- A. The water system shall be considered as made up of two parts; the public potable water system and the consumer's water system.
- B. The public potable water system shall consist of the source facilities and the distribution system, and shall include all those facilities of potable water system under the control of the Water & Wastewater Commission up to the point where the consumer' water system begins.
- C. The source shall include all components of the facilities utilized in the production, treatment, storage, and delivery of water to the public distribution system.
- D. The consumer's water system shall include those parts of the facilities beyond the service connection which are utilized in conveying water from the public distribution system to points of use.

### SECTION 4.

#### **CROSS-CONNECTIONS PROHIBITED**

- A. No water service connection shall be installed or maintained to any premises where actual or potential cross-connections to the public potable or consumer's water system may exist unless such actual or potential cross-connections are abated or controlled to the satisfaction of the Water & Wastewater Commission.
- B. No connection shall be installed or maintained whereby water from an auxiliary water system may enter a public potable or consumer's water system unless such auxiliary water system and the method of connection and use of such system shall have been approved by the Water & Wastewater Commission and by the Director of the Ohio Environmental Protection Agency as required by Section 6109.13 of the Ohio Revised Code.

## SECTION 5.

### **SURVEY AND INVESTIGATIONS**

It is the duty of the Water and Wastewater Commission to cause or conduct surveys or investigations.

- A. The consumer's premises shall be open at all reasonable times for the conduction of surveys and investigations of water use practices within the consumer's premises to determine whether there are actual or potential cross-connections in his water system through which contaminants or pollutants could backflow into the public potable water system.
- B. On request by the Water & Wastewater Commission, or its authorized representative, the consumer shall furnish information of water use practices with his premises.
- C. It shall be the responsibility of the water consumer to conduct periodic surveys of water use practices on his premises to determine whether there are actual or potential cross-connections in his water system through which contaminants or pollutants could backflow into the consumer's water system or the public potable water system.

## SECTION 6.

### **WHERE PROTECTION IS REQUIRED**

- A. An approved backflow prevention device shall be installed on each service line to a consumer's water system service premises, where in the judgment to the Water & Wastewater Commission or its representative, actual or potential hazards to the public potable water system exist.
  - 1. Premises having an auxiliary water system, unless such auxiliary system is accepted as an additional source by the Water & Wastewater Commission and the source is approved by the Director of the Ohio Environmental Protection Agency;
  - 2. Premises on which any substance is handled in such a fashion as to create an actual or potential hazard to the public potable water system which are no longer under the sanitary control of the Water and Wastewater Commission;
  - 3. Premises having internal cross-connections that, in the judgment to the Water & Wastewater Commission, are not correctable, or intricate plumbing arrangements which make it impractical to determine whether or not cross-connections exist;
  - 4. Premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete cross-connections survey;
  - 5. Premises having a repeated history of cross-connections being established or reestablished.
  - 6. Others specified by the Water & Wastewater Commission or Director.

B. An approved backflow prevention device shall be installed on each service line to a consumer's water system serving, but not necessarily limited to, the following types of facilities unless the Director determines that no actual or potential hazard to the public water system exists:

1. Hospitals, mortuaries, clinics, nursing homes;
2. Laboratories;
3. Piers, docks, waterfront facilities;
4. Wastewater treatment plants, wastewater pumping stations or storm water pumping stations.
5. Food or beverage processing plants;
6. Chemical plants;
7. Metal plating industries
8. Petroleum processing or storage plants;
9. Radioactive material processing plants or nuclear reactors;
10. Car washes;
11. Others specified by the Director.

C. An approved backflow prevention device shall be installed at any point of connection between the public potable or consumer's water system and an auxiliary water system, unless such auxiliary system is accepted as an additional source by the water and Wastewater Commission and the source is approved by the Director of the Ohio Environmental Protection Agency.

## SECTION 7.

### **TYPE OF PROTECTION REQUIRED**

A. The type of protection required under Sections 6A, 6B and 6C of these regulations shall depend on the degree of hazard which exists as follows:

1. An approved air gap separation shall be installed where the public potable water system may be contaminated with substances that could cause a severe health hazard.
2. An approved air gap separation or an approved reduced pressure principle back flow prevention device shall be installed where the public potable water system may be contaminated with any substance that could cause system or health hazard;
3. An approved air gap separation or an approved reduced pressure principle backflow prevention device shall be installed where the public potable water system may be polluted with substances that could cause a pollution hazard not dangerous to health.

- B. The type of protection required under Section 6D of these regulations shall be an approved air gap separation or an approved interchangeable connection.
- C. Where an auxiliary water system is used as a secondary source or water for a fire protection system, the provisions of Section 7.B for an approved air gap separation or an approved interchangeable connection may not be required, provided:
1. At premises where the auxiliary water system may be contaminated substances that could cause a system or health hazard, the public or consumer's potable water system shall be protected against backflow by installation of an approved reduced pressure principle backflow device;
  2. At all other premises, the public, or consumer's potable water system shall be protected against backflow by installation of either an approved reduced pressure principle backflow prevention device or an approved double check valve assembly.
  3. The public or consumer's potable water system shall be the primary source of water for the fire protection system;
  4. The fire protection system shall be normally filled with water from the public or consumer's water system;
  5. The water in the fire protection system shall be used for fire protection only with no other use of water from the fire protection system downstream from the approved backflow prevention device;
  6. The water in the fire protection system shall contain no additives.

## SECTION 8.

### **BACKFLOW PREVENTION DEVICES**

- A. Any backflow prevention device required by these rules and regulations shall be of a model or construction approved by the Water and Wastewater Commission and the Director and shall comply with the following;
1. An air gap separation to be approved shall be at least twice the diameter of the supply pipe, measured vertically above the top rim of the vessel, but in no case less than one inch.
  2. A double check valve assembly or a reduced pressure principle backflow prevention device shall be approved by the Water and Wastewater Commission, and shall appear on the current list of approved backflow prevention devices of the Ohio Environmental Protection Agency.

3. An interchangeable connection, to be approved, shall be either a swing type connection or a four-way valve of the lubricated plug type that operates through a mechanism, which unseats the plug. Four-way valves shall not be used as stop valves but must separate stop valves on each pipe connected and the threads or flange on this port shall be destroyed so that a connection cannot be made.
- B. Existing backflow prevention devices approved by the Water and Wastewater Commission or the Director of the Ohio Environmental Protection Agency at the time of installation and property maintained shall, except for inspection, testing and maintenance requirements, be excluded from the requirement of Section 8.A of this regulation providing the Water and Wastewater Commission is assured that they will satisfactorily protect the public potable water system. Whenever the existing device is moved from the present location or requires more than minimum maintenance, or when the Water and Wastewater Commission finds that the maintenance of the device constitutes a hazard to health, the device shall be replaced by the backflow prevention device meeting the requirements of these regulations.

## SECTION 9.

### INSTALLATION

- A. Backflow prevention devices required by these rules and regulations shall be installed at a location and in manner approved by the Water and Wastewater Commission and at the expense of the water consumer. In addition, any backflow prevention device required by Section 7.B and 7.C of these regulations shall be installed at a location and in a manner approved by the Director of the Ohio Environmental Protection Agency as required by Section 6109.13 of the Ohio Revised Code.
- B. Backflow prevention devices installed on the service line to a consumer's water system shall be located on the consumer's side of the water meter, as close to the meter as reasonable, practical, and prior to any other connection.
- C. If the meter is located in a pit the backflow prevention device will be located just inside the structure, providing there are no other connections between the meter and the structure. The backflow device must be between the meter and any other connections. In the event that a meter is  $\frac{3}{4}$ " or less in size, the backflow device may be installed in the pit with the approval of the Water and Wastewater Commission.
- D. Normal location for the backflow prevention devices shall be above ground. They shall be located within the building or be protected by approved housing to prevent freezing. In the event that the backflow device cannot be installed above ground, permission may be granted by the Water and Wastewater Commission to install the device in a pit or vault.

- E. In the event that a device must be installed in a pit or vault, the pit or vault shall be of water tight construction be so located and constructed as to prevent flooding and shall be maintained free from standing water by means of either a sump and pump or suitable drain. Such sump pump or drain shall not connect to a sanitary sewer not permit flooding of the pit or vault by reverse flow from its point of discharge. An access ladder and adequate natural or artificial lighting shall be provided to permit maintenance, inspection, and testing of backflow prevention device.
- F. Reduced pressure principle backflow prevention devices must be installed above ground level or floor level, whichever is higher.
- G. All backflow devices shall be installed horizontally. No vertical installations will be permitted.

## SECTION 10.

### **INSPECTION AND MAINTENANCE**

- A. If shall be the duty of the consumer at any premises on which backflow prevention devices required by these regulations are installed to have inspections, tests and overhauls made in accordance with the following schedule, ore more often where inspections indicate a need:
  - 1. Air gap separations shall be inspected at the time of installation and at least every twelve months thereafter;
  - 2. Double check valve assemblies shall be inspected and tested for tightness at that time of installation and at least every twelve months thereafter.  
  
They shall be dismantled, inspected internally, cleaned and repaired whenever needed and at least every five years.
  - 3. Reduced pressure principle backflow prevention devices shall be inspected and tested for tightness at the time of installation and at least every twelve months thereafter;  
  
They shall be dismantled, inspected internally, cleaned and repaired whenever needed and at least every five years.
  - 4. Interchangeable connections shall be inspected at the time of installation and at least every twelve months thereafter.
- B. Inspections, tests and overhauls of back flow prevention devices shall be made at the expense of the water consumer and shall be performed only by a person qualified to inspect, test, and overhaul backflow prevention devices.
- C. Whenever backflow prevention devices required by these regulations are found to be defective, they shall be repaired, overhauled, or replaced at the expense of the consumer without delay.

- D. The water consumer must maintain a complete record of each backflow prevention device from purchase to retirement. This shall include a comprehensive listing that includes a record of tests, inspections, repairs, and overhauls. Records of inspections, tests, repairs, and overhaul shall be submitted to the Water and Wastewater Department.
- E. Backflow prevention devices shall not be bypassed, made inoperative, removed, or otherwise made ineffective without specific authorization by the Water and Wastewater Commission.

## SECTION 11.

### **BOOSTER PUMPS**

- A. Where a booster pump has been installed on the service line to or within any premises, such pump shall be equipped with a low-pressure cut-off device designed to shut off the booster pump when the pressure in the service line on the section side of the pump drops to ten pounds per square inch gauge or less.
- B. It shall be the duty of the water consumer to maintain the low-pressure cut-off device in proper working order and to certify to the Water and Wastewater Commission, at least once a year, that the device is operating properly.

## SECTION 12.

### **VIOLATIONS**

- A. The Water and Wastewater Commission, or its representative shall deny or discontinue, after reasonable notice to the occupants thereof, the water service to any premises wherein any black flow prevention device required by these regulations is not installed, tested, and maintained. In a manner acceptable to the Water and Wastewater Commission, or if it is found that the backflow prevention device has been removed or bypassed,, or if an unprotected cross-connection exists on the premises, or if a low pressure cut-off required by these regulations is not installed and maintained in working order.
- B. Water service to such premises shall not be restored until the consumer has corrected or eliminated such conditions or defects in conformance with these regulations and to the satisfaction of the Water and Wastewater Commission.



## City of Mount Vernon, Ohio Water Line Extension Policy

May 5, 2005

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All water line construction shall comply with the requirements of the City of Mount Vernon including, but not limited to, the *Recommended Standards for Water Works*, (known as the “Ten State Standards”), the Codified Ordinances of the City of Mount Vernon, *The Rules and Regulations of the Water and Wastewater Commission*, City of Mount Vernon’s Standard Specifications of Water Lines, policies, procedures, specifications and standards. These documents are all presently on file for public inspection at the Engineering Department.

No person shall enter into, open, or interfere with or use or do any repair or maintenance work with respect of the water system except under the inspection and direction of the Water and Wastewater Commission and after a written permit shall have been issued on payment of the fee established by the Commission. This oversight authority applies to the main lines and all appurtenances used in whole or in part with the pumping, filtration, purification, storage, transmission, distribution and metering of potable water.

The owner or his agent shall make application on a form furnished by the Engineering Department. The application shall be supplemented by any plans, specifications or other documentation considered to be necessary to provide adequate information for review by the Water and Wastewater Commission. All plan and profile drawings submitted shall be signed and sealed by a registered engineer licensed to practice in the State of Ohio. The City Engineering Department will have the right of final review and approval of the proposed improvement.

All costs associated with the construction of the line(s), including any inspection costs, are the responsibility of the applicant. (For example: Lineal feet of pipe (from property line to property line) times the cost per foot of pipe plus average cost of all appurtenances (hydrants, valves, etc.) on extension, Credits will be allowed for corner properties.)

All water line extensions shall be constructed the full width of the property being served and shall be constructed in the public right of way. In cases where a public right of way does not exist, the Commission will require a minimum 15’ sized easement creating a utility right of way for said line installation. This proposed easement will be reviewed by the City Engineering Department for appropriateness regarding width and proximity to pipe and by the City Law Director as to legal form. This easement shall be dedicated to the City of Mount Vernon and be completed and filed for record prior to issuance of any permits and beginning construction.

All water mains shall be sized based on flow demands, pressure requirements, and to accommodate future expansion of the system. Minimum size for water mains providing fire protection shall be eight (8) inches in diameter. Larger main sizes may be required where good engineering practice dictates or where there is an increased need for fire flow or general capacity. Dead end lines are not considered appropriate and tie-ins are to be made whenever practical. In the event there is no alternative to a dead end line, the line shall be provided with a fire hydrant, an approved flushing hydrant or blow-off for flushing purposes.

If a waterline is extended to serve an existing private system, the private system shall continue to be maintained by the property owner and will be under the Regulatory Authority of the Water and Wastewater Commission.





## City of Mount Vernon, Ohio Wastewater Line Extension Policy

May 5, 2005

All wastewater line shall comply with the requirements of the City of Mount Vernon including, but not limited to, the *Recommended Standards for Wastewater Facilities*, (known as the "Ten state Standards"), the Codified Ordinances of the City of Mount Vernon, the Rules and Regulations of the Water and Wastewater Commission, City of Mount Vernon's *Standard Specifications for Sewer Lines*, policies, procedures, specifications and standards. These documents are all presently on file for public inspection at the Engineering Department.

No person shall enter into, open, or interfere with or use or do any repair or maintenance work with respect to the wastewater system except under the inspection and direction of the Water and Wastewater Commission and after written permit shall have been issued upon payment of the fee established by the Commission. This oversight authority applies to the main lines and all appurtenances used in whole or in part with the pumping, transmission, and treatment of wastewater.

The owner or his agent shall make application for review by the Commission on a form furnished by the Engineering Department. The application shall be supplemented by any plans, specifications or other documentation considered to be necessary to provide adequate information for review by the Water and Wastewater Commission. All plan and profile drawings submitted shall be signed and sealed by a registered engineer licensed to practice in the State of Ohio. The City Engineering Department will have the right of final review and approval of the proposed improvement.

All costs associated with the construction of the line(s), including any inspection costs, are the responsibility of the applicant. (For example: Lineal feet of pipe (from property line to property line) times the cost per foot of pipe plus average cost of all appurtenances on extension. Credits will be allowed for consider properties.)

All wastewater line extensions shall be constructed the full width of the property being served and shall be constructed in the public right of way. In cases where a public right of way does not exist, the Commission will require a minimum 15' easement creating a utility right of way for said line installation. This proposed easement will be reviewed by the City Engineering Department for appropriateness regarding width and proximity to pipe and by the City Law Director as to legal form. This easement shall be dedicated to the City of Mount Vernon and be completed and filed for record prior to issuance of any permits and beginning construction.

All public gravity sewers conveying raw wastewater shall be no less than eight (8) inches in diameter and be designed for ultimate tributary population. Sizing is critical when designing lines to service large commercial/residential areas, institutions, and industrial parks. Terminal manholes shall be constructed to accommodate future line extensions.

If a wastewater line is extended to serve an existing private system, the private system shall continue to be maintained by the property owner and will be under the Water and Wastewater Commission. When a lift station is constructed as a part of a private system, construction and maintenance shall be the responsibility of the property owner; however, construction plans for the lift station must be approved by the Water and Wastewater Commission.

City of Mount Vernon, Ohio  
**Water Service Connection Charges**  
**EFFECTIVE: January 2, 2018**

<b>Water Permit Charges for Existing Service Line (Meter Only)</b>			1 1/2-inch *	2-inch *	3-inch *	4-inch *	6-inch *
Description	3/8-inch	1-inch	OMNI	OMNI	OMNI	OMNI	OMNI
Material Cost (meter & fittings)	\$534.88	\$1,008.90	\$1,851.93	\$1,859.36	\$2,311.45	\$3,791.10	\$5,934.55
Application Fee	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00
Permit Fee	\$574.88	\$1,048.90	\$1,891.93	\$1,899.36	\$2,351.45	\$3,831.10	\$5,974.55
Capacity Fee	\$650.00	\$1,375.00	\$2,750.00	\$4,400.00	\$9,212.50	\$15,125.00	\$30,937.50
<b>Total Cost - Existing Service (Meter Only)</b>	<b>\$1,124.88</b>	<b>\$2,421.90</b>	<b>\$4,441.33</b>	<b>\$6,299.36</b>	<b>\$11,563.95</b>	<b>\$18,956.10</b>	<b>\$36,912.05</b>

<b>Water Permit Charges for New Service Line (Complete Installation)</b>			1 1/2-inch *	2-inch *	3-inch *	4-inch *	6-inch *
Description	3/8-inch	1-inch	OMNI	OMNI	OMNI	OMNI	OMNI
Material Cost (meter & fittings)	\$534.88	\$1,008.90	\$1,851.93	\$1,859.36	\$2,311.45	\$3,791.10	\$5,934.55
New Tap and Service Line	\$2,185.20	\$2,416.41	\$2,894.32	\$3,291.81	Tap made by others		
Application Fee	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00
Permit Fee	\$2,761.08	\$3,463.31	\$4,586.25	\$5,191.17	\$2,351.45	\$3,831.10	\$5,974.55
Capacity Fee	\$650.00	\$1,375.00	\$2,750.00	\$4,400.00	\$9,212.50	\$15,125.00	\$30,937.50
<b>Total Cost - New Service (Complete Installation)</b>	<b>\$3,310.08</b>	<b>\$4,838.31</b>	<b>\$7,336.25</b>	<b>\$9,581.17</b>	<b>\$11,563.95</b>	<b>\$18,956.10</b>	<b>\$36,912.05</b>

\* Owner/Contractor responsible to construct all pits 1 1/2-inch and larger.

The actual costs outside the expertise of city personnel shall be paid by the consumer.

In the event an owner/contractor performs some of the labor for a new service, the services provided by city personnel will reflect the actual cost of time and materials.

## GENERAL NOTES

THE FOLLOWING SPECIFICATIONS ARE MINIMUM REQUIREMENTS, WHERE LOCATIONS, SOIL CONDITIONS, GROUND WATER, OR OTHER CONDITIONS DICTATE, INDIVIDUAL PIT DESIGN MAY BE SUBMITTED TO THE WATER WORKS FOR APPROVAL.

METER PIT WALLS ARE TO BE 8" THICK AND ARE TO BE CONSTRUCTED OF CONCRETE BRICK, CONCRETE BLOCK, OR REINFORCED CONCRETE. THE TOP SLAB CONSTRUCTION IS TO CONSIST OF 8" REINFORCED CONCRETE WITH 5/8" REINFORCING RODS, 4" ON CENTER SHORT SPAN AND 18" ON CENTER LONG SPAN, 5/8" RODS, 2' LONG IN TOP AND BOTTOM OF SLAB DIAGONALLY AT THE CORNERS OF THE PIT LID.

METER PIT FLOOR IS TO BE CONSTRUCTED OF CONCRETE 6" IN DEPTH. THE TOP SLAB AND CASTING SHALL BE SET TO THE FINISHED GRADE OR HIGHER.

METER PITS SHALL BE LOCATED IN THE UTILITY EASEMENT OR RIGHT OF WAY UNLESS OTHERWISE APPROVED BY THE MOUNT VERNON WATER AND WASTEWATER DEPARTMENT. IN THE EVENT THAT A METER PIT IS APPROVED FOR INSTALLATION WITHIN A PARKING OR TRAFFIC AREAS, POSTS SHALL BE INSTALLED AT EACH CORNER OF THE PIT AND AT INTERVALS TO PREVENT TRAFFIC FROM CROSSING PIT.

## CONSTRUCTION SPECIFICATIONS

### **PRECAST CONCRETE CONTRUCTION**

ALL CONCRETE VAULTS USED IN METER PIT CONSTRUCTION SHALL BE CLEAN AND FREE OR DIRT, PAINT, GREASE AND OTHER FOREIGN SUBSTANCES, AND SHALL BE THOROUGHLY WETTED BEFORE LAYING IN MORTAR. THE INTERIOR MORTAR JOINTS SHALL BE NEATLY POINTED UP AND THE SURFACE CLEANED OF ALL SURPLUS MORTAR. OUTSIDE JOINTS SHALL BE ENTIRELY FILLED WITH MORTAR.

MORTAR SHALL BE COMPOSED OF ONE PART CEMENT AND TWO PARTS SAND BY VOLUME.

### **CONCRETE CONSTRUCTION**

ALL CONCRETE USED IN CONSTRUCTION OF THE METER PIT WALLS, FLOORS, AND REINFORCED SLABS SHALL BE COMPOSED OF ONE PART CEMENT, TWO PARTS SAND, AND THREE PARTS AGGREGATE BY WEIGHT AND A MAXIMUM WATER CEMENT RATIO OF 0.50.

ALL DIRT, MUD, WATER, DEBRIS, AND OTHER FOREIGN MATTER SHALL BE REMOVED FROM THE SPACE TO BE OCCUPIED BY THE CONCRETE. CONCRETE SHALL BE DEPOSITED AND COMPACTED IN THE WALL FORMS BEFORE ANY REINFORCING IS PLACED IN THE SLAB AREA AND SHALL SETTLE AT LEAST TWO HOURS BEFORE THE SLAB CONCRETE IS POURED. CONCRETE SHALL BE PROTECTED FROM THE LOSS OF MOISTURE FOR A CURING PERIOD OF AT LEAST 7 DAYS.

**REINFORCING STEEL**

ALL REINFORCING STEEL SHALL BE FREE FROM DIRT, OIL, GREASE, AND RUST WHEN PLACED IN THE CONCRETE. REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE DURING THE CONCRETE OPERATION. IN NO CASE SHALL THE REINFORCING STEEL BE DRIVEN OR FORCED INTO THE CONCRETE AFTER IT HAS TAKEN ITS INITIAL SET.

REINFORCING STEEL IN CONCRETE ROOF SLABS SHALL BE LOCATED IN THE BOTTOM PORTION OF THE SLAB, AT LEAST 2" FROM THE SURFACE OF THE CONCRETE.

**WATERPROOFING**

THE EXTERIOR SIDE OF PIT WALLS SHALL BE WATERPROOFED WITH TWO COATS OF ONE OF THE FOLLOWING MATERIALS APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THOROSEAL, USS CHEMICAL TARMASTIC #102, KOPPERS BUTIMASTIC SUPER SERVICE BLACK, DAMCHEX, AMBERCOAT #78 OR AN APPROVED EQUAL. VOIDS BETWEEN PIPES AND CHAMBER WALLS SHALL BEGROUTED WITH HYDRAULIC CEMENT SUCH AS WATERPLUG OR A WATER WORKS APPROVED EQUAL.

**DRAIN**

EACH PIT SHALL BE DRAINED BY MEANS OF A 3” X 3” X 3” SEALED SUMP PIT. THE PIT SHALL BE IN A CORNER WITH THE FLOOR SLOPING TOWARD THE PIT. THE HOLE FOR THE SUMP MUST BE DUG PRIOR TO PIT PLACEMENT, IN SUCH A MANNER AS TO CREATE A SOLID BASE OF SOIL FOR SUPPORT.

**PIT LIDS**

PIT LIDS SHALL BE A SYRACUSE CH-4AL, MINIMUM SIZE 3’ X 3’, DEPENDING ON THE SIZE OF METER ASSIMBLY. LID SHALL BE CENTERED OVER METER OR THE DCDA, WHICHEVER IS LARGER, UNLESS OTHERWISE APPROVED IN WRITING, BY THE WATER AND WASTEWATER DEPARTMENT.

**PIPE AND FITTINGS**

SERVICE BRANCHES ¾” THROUGH 2” SHALL BE TYPE “K” COPPER FROM THE WATER MAIN TO THE METER AND FROM THE METER TO THE BUILDING. ALL COPPER SERVICE LINES SHALL HAVE FLARED FITTINGS. SERVICE BRANCHES LARGER THAN 2” SHALL BE EITHER TYPE “K” COPPER OR CLASS #52 DUCTILE IRON FROM THE WATER MAIN TO THE METER AND FROM THE METER TO THE BUILDING. DUCTILE IRON FITTINGS SHALL BE BELL AND SPIGOT UNLESS OTERHWISE APPROVED IN WRITING BY THE WATER AND WASTEWATER DEPARTMENT.

THURSE BLOCKS MUST BE APPROPRIATELY PLACED AT ALL CHANGES IN WATER DIRECTION AND FLOW, TO INCLUDE ALL FITTINGS AND SHUT OFF VALVES.

THE WATER AND WASTEWATER DEPARTMENT (PRIOR TO BACKFILLING MUST INSPECT ALL LINES, FAILURE TO HAVE LINES INSPECTED WILL RESULT IN THE REQUIREMENT OF RE-EXCAVATION OF SAID LINES FOR INSPECTION A CONSUMER’S EXPENSE.

**BACKFLOW PREVENTERS**

THE LOCATION OF THE BACKFLOW PREVENTER AND THE TYPE TO BE USED SHALL BE DETERMINED BY THE WATER WORKS. ANY BACKFLOW PREVENTER USED SHALL BE ONE THAT HAS BEEN APPROVED BY BOTH THE WATER WORKS AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS SHALL BE INSTALLED HORIZONITALLY AND MAY NOT BE INSTALLED IN A PIT.

**REMOVEABLE METAL LADDERS**

THE REMOVABLE METAL LADDER SHALL BE AN OSHA TYPE 1 INDUSTRIAL-HEAVY, 250 POUND RATING LADDER MEETING THE LATEST REVISION OF ANSI STANDARD FOR PORTABLE METAL LADDERS. THE LADDER MUST REACH FROM THE PIT FLOOR AND EXTEND INTO THE PIT OPENING.

FOR INSPECTION PHONE: 740-393-9504

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

DIVISION OF WATER AND WASTEWATER  
CITY OF MOUNT VERNON STAND 101.6