

SECTION 02633

WATER SERVICE CONNECTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Water service installation in new developments.
- B. Connection of water service to existing water mains.

1.02 REGULATORY REQUIREMENTS

- A. Conform to applicable Authority, State Department of Environmental Protection and Department of Transportation code for materials and installation of the Work of this Section.
- B. A water service permit is required from the Authority prior to constructing any service from the curb stop to the building.
- C. All local, state, and other laws and regulations governing blasting.
- D. A road occupancy permit must be received from PennDOT (State owned roads) or Hilltown Township (Township owned roads).

1.03 SUBMITTALS

- A. Submit shop drawings under provisions of Section 01300.
- B. Submit sufficient descriptive literature to demonstrate compliance with these specifications. Include manufacturer's installation, operation, and maintenance instructions.

1.04 PROJECT RECORD DOCUMENTS

- A. Legibly mark to record actual depths, horizontal and vertical location of underground piping and appurtenances referenced to permanent surface improvements. The record drawings shall show field changes; changes by change order; and details not on original contract drawings.
- B. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.05 QUALITY CONTROL

- A. Inspection and testing shall be performed in accordance with this section.

- B. Prior to covering any portion of the water service, it must be inspected by the Authority. No work will be accepted unless it has been inspected and tested. All testing shall be per the pipe manufacturer's specifications.

1.06 NOTIFICATION OF AUTHORITY

- A. The Contractor must notify the Authority at least 48 hours prior to beginning operation so that an Observer can be scheduled to be present. Under no condition are operations to commence without this notification and an Observer present.

PART 2 PRODUCTS

2.01 PIPE MATERIALS

- A. Ductile Cast Iron Pipe (Service Connection 3” And Larger)
 - 1. Ductile cast iron pipe shall conform to ANSI A21.51 and shall have an ANSI Class 52 thickness unless otherwise specified. All pipe must be AWWA approved (C-100).
 - 2. Ductile iron pipe and fittings shall have a minimum 1/8 inch cement lining with bituminous seal coating in accordance with the ANSI A21.4, latest edition. All pipe shall have bituminous outside coating in conformance with ANSI A21.51, latest edition.
 - 3. Above ground or exposed ductile cast iron pipe shall be flanged in accordance with ANSI A21.10. Buried ductile cast iron pipe shall have flanges (Ansi A21.10); push on joints (Clow Super Bell-Tite or approved equal; or mechanical joints).
 - 4. Ductile iron pipe and fittings shall have mechanical restrained joints or push-on joints, and shall be for 350 psi working pressure with a thickness Class 52 in accordance with ANSI A21.50, latest edition.
 - 5. The pipe will be laid on 6” stone bedding with select backfill as per Section 02225 of these specifications. The backfill will be compacted and 4’ of cover will be maintained over the top of the pipe except as stated otherwise on the plans.
- B. Fittings (Service Connection 3” And Larger)
 - 1. Fittings shall in general be of the same material, weight, and class and shall have the same lining and coating as the pipelines in which they are installed.
 - 2. Unless otherwise approved, cast iron flanged fittings and blind flanges shall meet ASA B16.1 standards for Class 125 fittings. AWWA C110 fittings, where shown on the Drawings, shall be Class D. Base fittings shall be provided where shown or required. Where indicated, fittings or specials shall be provided with AWWA Standard lugs.

3. Restrained mechanical joints shall be used at all tees, bends, reducers, and valves. Push-on joints are suitable for all other joints. Mechanical joints shall be Snap-Lock; Push-on joints shall be "Super Bell-Tite" in accordance with ANSI A21.10, latest edition. Joints shall have natural rubber or SBR gaskets as manufactured by Griffin Pipe Products Company or equal.
4. Where flexible pipe couplings are necessary, shall be Dresser Style 53 with coupling bolts of corrosion resistant special alloy "Dresserloy" as manufactured by Dresser Manufacturing Division, Bradford, PA.
5. Ductile iron pipe compact fittings, in accordance with ANSI 21.53, latest edition, may be furnished in lieu of standard joint fittings.

C. Copper Pipe

1. Material:
 - a. 1-1/2" and smaller: Type "L" hard.
 - b. 2" and Larger: Type "K" hard.
 - c. Underground: Type "K" soft.
2. Standards: ASTM B-88
3. Fittings: Wrought copper, ANSI B16.22; dielectric fittings between copper and steel pipe as manufactured by EPCO or equal.
4. Joint material: Silver-solder shall be used on all copper piping.

2.02 VALVES

A. Gate Valves (Service Connection 3" And Larger)

1. Valves shall be located so that the operators are positioned to be readily accessible for operation. The valves shall be inspected prior to installation, and shall be so installed that they will carry no stresses induced by loads transmitted by adjacent piping. Valves shall be lubricated and ready for service prior to installation.
2. All ductile iron gate valves 3" through 16" shall be resilient seated gate valves, and shall consist of a gate with a bonded elastomer seat, which in the closed position is fully encapsulated and affects a seal upon a cast iron body resulting in a bubble-type seal across this disk at a full differential of 250 psi. The valve shall be equipped with a corrosion-resistant threaded bronze stem, acting through a bronze stem nut fixed into the disk in such a way as to force the disk seat into the body, effecting a seal when the stem is torqued in the desired direction. All internal parts shall be accessible without removing the main body from

the pressure line. All ductile iron internal parts shall be coated completely with a bonded epoxy corrosion resistant coating. All outside surfaces of ferrous parts shall be protected with the same fusion bonded epoxy coating and meet ANSA/AWWA C550 standards. The resilient-seated gate valve shall meet or exceed AWWA C509 standards. The valves shall be U.S. Pipe Metro Seal 250*. All gate valves, except those for underground service, shall be of the rising stem type (OS & Y with handwheel). Buried valves shall have non-rising stems and shall be furnished with a 2 inch operating nut and valve boxes with covers. All valves shall open left. Gate valves 3 inches and smaller shall be bronze-bodied, bronze-mounted, wedge disk outside screw-in yoke construction for 200 pounds static water pressure.

* 5460 for buried service / 5120 for interior service.

B. Valve Boxes (Service Connection 3" And Larger)

1. Valve boxes shall be two-piece screw type cast iron with flared round base. Boxes to be equipped with cover and the word "WATER" cast into the cover. Boxes to be used on each buried valve. Boxes shall be of sufficient length that when installed to the depth of the cover required, they shall be capable of an additional three (3") to full extension.
2. Valve boxes shall be two-piece with 5-1/4" diameter shaft, Model H-10360, as manufactured by Mueller Company or equal Tyler.

C. Corporation Stops

1. Corporation stops shall be a minimum of (one) 1" and shall be installed after lines have been flushed, charged with water, and are ready to serve water to customers. Corporation stops will be of the Mueller thread configuration.
2. When installation is made on top of a main, use Mueller Company Corporation Stop (H-15000) with a quarter bend coupling with gasket (H-15069) except the flare-fitting outlet on the bend shall be replaced with a corporation stop straight coupling with gasket (H-15071).
3. When tapping is made at the 10:00 or 2:00 position on the pipe, use a Mueller 110 compression corporation stop connection (H-15008).
4. No horizontal (side) tapping is permitted unless approved by the Engineer, in which case corporation stop may be of the thread configuration Mueller inlet and compression outlet as manufactured by Mueller Company (H-15008).
5. A service saddle will not be required when installing a corporation stop into Class 52 pipe.

D. Curb Stops

1. Curb stop shall be 1" and shall be installed with each corporation stop.
2. Curb stop will be of the configuration copper inlet by copper outlet inverted key style as manufactured by the Mueller Company, Oriseal H-15201 with H-15071 compression couplings.

E. Curb Boxes

1. Curb boxes shall be "Buffalo Type" cast iron extension type, 2 1/2" shaft – screw type, with removable lid and 27" stationary rod. Curb box to be Series 6500, as manufactured by the Tyler/Union Company. The boxes shall be the word "WATER" cast in the lid.

2.03 TAPPING SLEEVES AND TAPPING VALVES

A. Tapping valves shall be mounted vertically and shall be of the same construction as described for gate valves, with the exception:

1. Inlet ends of the tapping valve shall have an inlet flange Class 125 and conform to the configuration of the Mueller Company #667
2. Tapping sleeves shall have an outlet flange Class 125. They shall be of the mechanical joint type as manufactured by Mueller Company #H-615 or approved equal.

2.04 WATER METERS

A. General

1. Invensys Metering Systems shall manufacture all water meters. Approval of the meter by size, type and brand shall be obtained from the Authority prior to purchasing the meter. All meters shall be pre-tested by the manufacturer prior to installing the meter in the meter setting to assure compliance with current "Remote Read" systems in use by the Authority.

B. Magnetic Drive Displacement-Type Water Meters – Residential Meters

1. All magnetic drive displacement-type meters shall conform to the ANSI/AWWA C-700.
2. The meter shall be model SR11 for Water meters with a TouchRead Electronic Communication Register (ECR) located on the outside of the Building.

C. Compound Meters – Commercial Meters

1. Compound meters shall conform to the ANSI/AWWA C-702.

2. The meter shall be model SRC for Water meters with a TouchRead Electronic Communication Register (ECR) located on the outside of the Building.

D. Meter Stops

1. Meter stop shall be 1" copper inlet with swivel nut with Mueller 110 conductive compression couplings. Mueller type H-14258 for key angle meter stops and H-1509-6 for straight way meter stops.

E Valves for Use with 1-1/2 Inch and 2 Inch Meters

1. Gate valves 2 inches and smaller to be used with copper service pipe shall be brass with non-rising stems and solid wedge disc, manufactured in accordance with ASTM Specification B-62 and Federal Specification W.W.-V54 Class A 125 PSI W.S.P., 200 PSI, W.O.G.

PART 3 EXECUTION

3.01 WATER SERVICE INSTALLATIONS

- A. Tapping: All new service lines and, where applicable, service line replacements.

1. All water connection and tapping charges due must be paid before water taps will be made. All replacement water taps are subject to a water tap fee unless otherwise approved by the Hilltown Water and Sewer Authority.
2. Tapping permits for existing lines must be applied for at the Hilltown Water and Sewer Authority, PO Box 365, Sellersville, PA 18960, and paid for at least twenty four (24) hours prior to tapping. Refer telephone numbers in the back of these specifications.
3. All service taps on water mains on existing lines owned by Hilltown Water and Sewer Authority shall be tapped by a Contractor approved by the Authority.
4. No water taps shall be made unless property corners are clearly marked so measurements of taps and curb boxes can be made at the time of tapping.
5. Minimum size tap for water service is one inch (1"). For service line sizes in excess of two inches (2"), the corporation shall be a tapping valve and the curb stop shall be a curb stop box. See Drawing No. WS-10 for taps 4" and larger.
6. Cribbing, sheeting or sloping of the banks of tapping holes, to include holes five feet (5') deep or deeper will be the responsibility of the contractor and will be in accordance with the rules and regulations of the OSHA and Commonwealth of Pennsylvania.

7. Barricading of tapping holes is the responsibility of the Plumbing or Pipeline Contractor and shall be in accordance with the Hilltown Township Engineer for work within the Township Roads in accordance with PennDOT standards for work within State Highway rights-of-way.
8. Backfilling and compaction of tapping holes shall meet the specifications of the governing body in whose jurisdiction work is being done, i.e., Hilltown Township or Commonwealth of Pennsylvania.
9. Replacement of Existing Corporation Stops: Where an existing corporation stop is to be relocated with a new corporation stop of equal or larger size, then the owner of the property shall be responsible, at his expense, to have the old corporation stop excavated and then contact the Hilltown Water and Sewer Authority, which will shut off the old corporation stop at no expense to the owner. Backfill, compaction and replacing of the corporation stop following shut off by the Hilltown Water and Sewer Authority is then the responsibility of the property owner at the property owner's expense.

Abandoning Existing Taps: Where an existing water service is to be abandoned, the owner of the property shall be totally responsible as of these Specifications.

a. Service lines are generally described as:

- (1) the Authority's responsibility is from the water main (in the street or alley) to the property line.
- (2) the owner's responsibility is from the property line to the facility.

B. Water Service Line Excavations - All new and replacement service lines.

1. Excavation, safety and backfilling, to include proper compaction of nonpotable water service line ditches, are the responsibility of the contractor, all in accordance with the specifications of the governing body in whose jurisdiction the work is being done, i.e., Hilltown Township or the Commonwealth of Pennsylvania. Comply with all OSHA requirements.
2. Water service line ditches must enter the lot as near ninety (90) degrees to the street as is practical and not at an extreme angle unless otherwise approved.
3. Water service line ditches and separation of Water Service and Building Sewer: Except as permitted below, the water service line and the building drain or building sewer shall be not less than ten feet (10') apart horizontally and shall be separated by undisturbed or compacted earth. The water service line may be placed in the same trench with the

building drain or building sewer provided the Authority and the following conditions are met:

- a. The number of joints in the water service line shall be kept to a minimum.
- b. The materials and joints of sewer and water service lines shall be installed in such a manner and shall possess the necessary strength and durability, to prevent escape of solids, liquids and gases there from. This shall be true under all known adverse conditions such as: Corrosion strains due to temperature changes, settlement, vibrations and superimposed loads.
- c. The potable water service line shall have a minimum cover of four feet (4') at all points, and shall be according to the following options:
 - Option 1: Potable water and sewer trenches shall be ten feet (10') apart horizontally from sewer and nonpotable water services and shall be separated with unobstructed or compacted earth.
 - Option 2: The potable water service may be placed on a solid shelf excavated at one side of the common trench a minimum of one foot (1') above the top of the sewer pipe.
- d. From the property curb box to the main, the water service pipe shall be type "K" copper.

C. Service Line Installation and Material - all new and replacement service lines.

- 1. An expansion loop, as shown in Drawing No.WS-2 (Potable Water: 1 inch through 2 inch only) must be left in the service line where it is connected to the corporation stop at the water main to allow for expansion and contraction. Existing water services or taps which are not 1 inch or larger r and do not consist of copper, or that will not meet the specifications referred to in this section, will not be permitted. If an existing tap has been deleted from our system at the time of demolition, under no circumstances will the Hilltown Water and Sewer Authority allow a service to be reconnected, the tap shall be deleted and dresser in with a pup. It would constitute a new tap and service.
- 2. Potable water service lines shall be a minimum of one inch in diameter.
- 3. Water service lines between the corporation and the curb stop (Potable Water: one inch through two only) shall be constructed of type "K" copper. Water service lines over 2 inches shall be ductile iron or other Hilltown Water and Sewer Authority approved material.

4. Water service lines (Potable Water: 1 inch – 2 inch only) shall have only flared joints between the corporation and curb stop. No sweat or welded joints shall be allowed underground. Between the stop box and structure, flared joints of silver brazing joints may be used. No flared joints shall be under a vertical foundation wall or footer.
5. All water service lines from the corporation at the main to the curb stop shall have a minimum of four feet (4') of cover except at the expansion loop unless otherwise approved. Depth of bury shall be determined from finished street grade and finished grade of property being served. No curb stop shall be more than six feet (4') in depth at finish grade.
6. Water service lines shall be installed in a continuous open trench except that in special locations such as under curbs or ornamental shrubs, borings or short tunnels may be used. The Authority may specify the use of borings or tunneling to pass obstructions or to minimize traffic interference. Open trenches will be of sufficient width to permit proper installation of pipe materials and compaction of backfill materials.
7. A coarse sand blanket or screenings with a minimum thickness of 4" shall be placed in the trench prior to placing the copper service pipe. Special care shall be taken to insure that copper service lines are not in contact with any rock, cobble, and stones or other material, which may dent, puncture, deform or otherwise effect the function or life of the installation. Service lines shall be positioned in the center of the excavation prior to backfilling.
8. After installation, a pre-cover of 12" of coarse sand or screenings backfill shall be placed over the pipe before backfill is placed. When backfill is to be coarse sand or screenings, the pre-cover need not be placed as a separate operation.
9. All service line backfill shall be compacted to the densities specified for trench backfill.
10. Conditions on some replacement projects, including type of service line material and subsurface conditions, may allow the Contractor to "pull" new service lines. Pulling shall be allowed only when specifically approved by the Authority. The Contractor shall be responsible for all additional work required should pulling be unsuccessful. Service lines shall be continuous from the main to the meter without couplings or splices.
11. A service line reduced to less than three inches (3") outside a building, must be accomplished by a "wet tap" approved by the Hilltown Water and Sewer Authority or reduced inside the building above floor level unless otherwise approved by Hilltown Water and Sewer Authority Inspector.
12. Where a one and one half (1-1/2") inch or larger water service line crosses another utility or any underground structure, the potable water

service line shall preferably pass over the other utility or structure, but in no instance shall there be less than six inches (6") clearance between the potable water service and the other utility or structure. The space between the potable water service line and the utility or structure shall be backfilled with sand or screenings when the clearance is less than twelve inches (12"). Where a one-inch (1") potable water line passes under a sewer main, it shall be encased in a flexible conduit and Hilltown Water and Sewer Authority shall determine resolution of larger diameter installations.

13. Water service lines between the curb stop and the building (Potable Water: one inch through 2-inch only) shall be constructed of type "K". No other materials are allowed.
 14. All fire service lines (potable water only) shall meet the same requirements as a domestic potable water service line for material and installation specification.
 15. Combined commercial fire and domestic services (potable water only) will require additional control valves outside the building, as well as a "wet tap" for any service extension off another service.
 16. Residential fire suppression installations must have plans approved by the Hilltown Township Building Inspector.
- D. Curb Stop and Curb Box – all new and replacement service lines.
1. All service lines, regardless of size, must have a curb stop valve and curb box installed in accordance with Drawing No.WS-2. The curb box shall be centered over the curb stop and shall be plumb.
 2. All curb stop boxes will be installed on the property line closest to the public right-of-way and corporation valve, unless designated otherwise by the Hilltown Water and Sewer Authority. (See Drawing No.WS-2.) The stop box shall be three foot 6 inches (3'-6") in depth at finished grade.
 3. The responsibility of the contractor for the curb box ends only when sidewalks, curbs, driveways, etc. have been installed and all backfilling and final grade has been completed or the subdivision is accepted for dedication.
 4. After the responsibility of the contractor or all other warranties has ended, Hilltown Water and Sewer Authority will assume responsibility for repair and maintenance of the "curb box" or secondary valve box.

3.02 WATER METERS

A. General.

1. All water supplied by the Hilltown Water and Sewer Authority to a property must be metered. The only exception to this requirement is fire lines.
2. All potable water meters are owned, installed and maintained by the Hilltown Water and Sewer Authority.
 - a. Acceptable locations for 1-inch water meters shall be limited to basement, utility room or utility closet unless otherwise approved. The Hilltown Water and Sewer Authority shall approve locations for 1-1/2 inch or larger water meters prior to installation of the water meter loop.

B. Water Meter Installations.

1. Residential potable water meter locations must be in the basement or other lowest level of the building, not to include any crawl space or designated storage area. A two -inch (2") minimum or two times the diameter of the supply line floor drain is to be located by the inside water meter with three (3') to five (5') feet, unless otherwise approved by the Hilltown Water and Sewer Authority.
2. Water meter locations shall be such that the water meter is unobstructed on one side, i.e., easily accessible for reading or servicing, with a minimum of ten inches (10") clearance around the remainder of the meter with a minimum of three feet (3') of clearance above the meter. Meter locations shall not require stooping or crawling to gain access to the meter.
3. Water meter locations shall include an inlet and outlet valve as shown on Drawing No's. WS-2 for single-family homes. Inlet and outlet valves shall be full opening waterway, handwheel operated, compression valves, which shall be installed to close in the direction of the flow.
4. Inside 1-1/2 inch and larger: Plans for inside potable water meter loop (to include support) installations for 1-1/2 inch and larger potable water meter shall be submitted to the Hilltown Water and Sewer Authority for approval prior to installation of the meter loop and should be similar in design to the meter loop piping and support shown on Drawing No. WS-3 except that the bypass piping may also be extended under or over the meter and that adequate meter loop support may require a different design. A floor drain two times the diameter of the inlet supply pipe shall be located within three (3') to five (5') feet unless otherwise approved by Hilltown Water and Sewer Authority. No victoric pipefitting shall be allowed for inside meter loops. Victoric pipe may be used after the back flow device.

C. Combined Domestic and Fire Line Water Meters.

1. Only water meters approved by the National Board of Fire Underwriters shall be installed in potable water lines providing both domestic and fire demands. Requests to install a meter in a potable water line providing both domestic and fire demands shall be submitted and approved by Hilltown Water and Sewer Authority a minimum of 90 days in advance of construction.

D. Remote Readers

1. Water meter installations shall include the installation of the three-wire interconnecting cable between the meter and the remote reader.
2. The remote reader three-wire interconnecting cable shall not exceed fifty (50') feet in length. The cable used shall be two conductor No. 22-220V stranded with plastic jacket and shall be installed along the approximate center of studs and joists using No. 1 insulated staples leaving a two (2") inch stress loop within the wall and shall be extended through the exterior wall at a distance approximately three feet (3') minimum and five feet (5') maximum above the ground. The cable cannot be spliced and a minimum of twenty-four inches (24") of extra cable must be left at the meter loop and at the proposed remote reader location for connection by Hilltown Water and Sewer Authority customer service personnel. The installed wire shall be tested for electrical continuity at the time of installation. If the cable is to be installed in concrete or masonry walls, electrical conduit must be installed in advance of the cable installation.

3.03 WATER SERVICE BACKFLOW PREVENTER

- A. A water service backflow preventer assembly shall be installed on all non-residential water supply lines and fire services as they enter the building and on all residential connections as required by the BOCA Plumbing Code. All backflow preventers shall meet the BOCA Code.

3.02 WATER PRESSURE REGULATORS

- A. A water pressure regulator designed for 250 PSI shall be installed in all water service lines on the inlet side of the meter. If a pressure greater than the recommended appliance and fixture pressures is required for outside silcocks or sprinkling systems, then a double regulator will be required. Under no circumstances will the pressure exceed 80 PSI at the inlet side of the meter. The regulator should be between the first shut off valve and before the meter.
- B. A water pressure regulator for service lines incorporating a 1-1/2 inch or larger meter, where a bypass is required, shall be installed so that the water passing through the bypass is also regulated into the building.
- C. A water pressure regulator shall be required with all large meter installations (1-1/2 inch and larger), regardless of type and location, and shall be installed between the first shut off valve and before the meter.

3.04 INSPECTION OF SERVICES - ALL NEW SERVICES.

- A. Water service lines shall be inspected by the Hilltown Water and Sewer Authority and the inspection shall include an inspection of the service line from the corporation to the curb stop and an inspection of the meter installation to include all of those items contained within these Specifications.
- B. All installations will require inspection of the entire service from the main to meter by the Hilltown Water and Sewer Authority inspector.
- C. Commercial properties will require inspection of the entire service, domestic, and fire, from main to meter by Hilltown Water and Sewer Authority Inspectors.
- D. All water services must be visually inspected by Hilltown Water and Sewer Authority prior to backfilling. The corporation, curb valve and coupling must be left exposed for test. The test shall involve pressuring the service and visually inspecting each joint along the service to insure that there is no leakage.
- E. The meter shall not be installed until Hilltown Water and Sewer Authority Inspectors have witnessed the installation, testing and flushing of the water service.

3.05 INSPECTION OF SERVICES - ALL REPLACEMENT SERVICES.

- A. Service Line Repair Due to Leaks. The Hilltown Water and Sewer Authority will repair all leaks occurring on a service line between the curb box and tap. The repair of all other service line leaks shall be the responsibility of the property owner.
- B. During the installation of any replacement service line, Hilltown Water and Sewer Authority will shorten and/or remove any service serving more than one building. Each building must have its own service line and tap. In all cases, the property owner will be notified of the work planned prior to installation and replacement. The property owner will also be given the opportunity to consider replacement of the remaining portion of the service line at the same time at the property owner's expense. If the service line being replaced and/or separated is on private property, Hilltown Water and Sewer Authority will contact a licensed plumber to perform the work and will be responsible for the expenses required to re-connect the service on private property.
- C. Hilltown Water and Sewer Authority is responsible for the service line from the tap on the main to the stop box including the curb box and curb stop
- D. Hilltown Water and Sewer Authority will replace all curb stops that are damaged by the Hilltown Water and Sewer Authority during any maintenance or installation work, including any curb box and/or curb stop that is damaged during the exchange of a meter or a shut off by the Hilltown Water and Sewer Authority.

- E. After dedication or the warranty period Hilltown Water and Sewer Authority will raise and lower and all stop boxes as requested by any internal or external customer of the Hilltown Water and Sewer Authority.

3.06 REPAIR AND REPLACEMENT OF EXISTING SERVICE LINES.

- A. The property owner is responsible for the repair and maintenance of the water service line (the owner shall be responsible for the service line that crosses any private property) from the property line at the water main to the facility being served
- B. For leaks occurring on a water service line between the curb line or edge of pavement (traveled way for graveled roads) where no curb line exists, alley line or easement line and the facility being served, the property owner shall, at his expense, repair all service line leaks or replace service lines as necessary to include backfilling and restoration of property. However, the Hilltown Water and Sewer Authority will, if requested to do so, shut off the water service line at the curb stop. The property owner shall contact the Authority for assistance with shut off.

If it is determined that a leak exists on the curb stop or secondary valve at the property line, the Hilltown Water and Sewer Authority will be responsible for repairs to include backfill and restoration of property, except when leaks and/or damage are caused by persons other than Hilltown Water and Sewer Authority employees or by natural causes.

- C. The "curb stop" and "secondary valve" shall be defined as the control at the property line or the first valve after connection of the corporation stop or tap valve to a water distribution main, not to include any stops or valves on private mains or services which will be the responsibility of the property owner.
 - (1) Paving cuts made by the plumbing or pipeline contractor shall be drilled, cut or sawed to assure pavement is cut in an approximate straight line and that remaining pavement edges are approximately vertical.
 - (2) Pavement shall not be removed in excess of that amount required to make necessary repairs. Any surface material, trees, shrubbery, fences, poles, grass, crushed rock or other property and surface structures within public or private property which are damaged, removed or disturbed by the plumbing or pipeline contractor, without consent of the owner (public or private), shall be repaired or replaced by the plumbing or pipeline contractor at his expense.
- D. The property owner is responsible for all damages that may occur to other property, real or personal, including property of the Township that were proximately caused by failure to repair and maintain the water service line, or from leaks occurring on a water service line or from bursting or other failure of the water line.

END OF SECTION