

TOWN OF KINGSTON WATER DEPARTMENT  
RULES AND REGULATIONS

EFFECTIVE JANUARY 1, 2010

The following rules and regulations, until further notice, shall be considered as part of the contract with every property owner who uses town water.

ARTICLE 1

All applications for the use of water must be made at the office of the Water Commissioners and state fully the purpose for which it is intended to be used and accompanied by the payment of the connection fee. When the ownership of the property changes, the full name and address of the new owner shall be given to the Water Commission, at once, in order that a bill may be properly rendered. The minimum charge for the installation of a new water service shall be:

\$3,700 for a 1" (minimum)  
\$5,900 for a 1 ½"  
\$9,480 for a 2"  
\$17,700 for a 3"  
\$59,000 for a 6"

Services larger than 6" shall be charged accordingly.

All new services being installed or existing services being renewed shall install a Sensus Radio Read meter that can be used with the town's reading system. Meter and Meter Reading Equipment (MXU) must be purchased through the water department. Water department must be contacted to inspect the meter installation and will install and program the meter reading equipment (MXU) at that time. Initial requests for inspections and turn-ons during normal working hours will be done free of charge. Should additional inspections or service calls become necessary due to non-compliance with these Rules and Regulations, there will be a \$50.00 charge for each additional call.

All meters requiring repair or replacement due to freezing, tampering or abuse shall be charged to the property owner.

If the water department is not permitted to install a radio operated metering system at any location, a direct read meter with remote will be installed and there will be a \$50 service charge each time the meter is read.

If the water department is not permitted to install/repair a water meter at any location, or not repair/replace the MXU/Remote Reader at any location in order to get an accurate reading from any location, the charge for water will be the same as the highest residential water bill of the previous quarter.

Any devices installed to by-pass the meter shall result in a Three Hundred Dollar (\$300.00) fine, possible criminal charges, and loss of service. Any tampering with the metering devices shall result in a One Hundred Dollar (\$100.00) fine, possible criminal charges and loss of service.

## ARTICLE 2

The water department will make all connections with the street mains and furnish and install all service pipes and fittings up to and including the curb stop and keep them in good repair and protected from frost at their own expense, and the Commissioners will not be liable for any damage resulting from failure to do so.

The Town of Kingston shall not be responsible for the maintenance or repair of any water system beyond the curb or gate valve.

No person, unless authorized by the Commissioners, shall shut off or turn on the water in any service pipe except beyond the curb stop. Any unauthorized turning of the water department's curb stops or gates shall result in the assessment of a Two Hundred Dollar (\$200.00) fine. Any damage resulting from the unauthorized turning on or off of any gate or stop or hydrant shall be assessed to the property owner.

Any unauthorized attachment of fittings, hoses or other appurtenances to a hydrant shall result in the assessment of a Two Hundred Dollar (\$200.00) fine.

Anyone requesting water department personnel to assist in the conducting of fire flow tests, shall provide the Superintendent with advance notification of the timetable, outlining dates, time and locations of tests. Written certification that all gauges to be used in the testing have been calibrated within thirty (30) days must be submitted prior to testing. The Board of Water Commissioners will require that a representative of the Town's Engineering Consultant monitor the test. In addition, the contractor/developer must reimburse the Town of Kingston for all charges for services by the Town's Engineering Consultant, as well as any hourly labor charges of water department personnel involved in conducting the tests.

Whenever by request of plumbers or other persons water is to be turned off or on at the curb stop, the water department shall be notified, allowing a reasonable time for this work to be done within normal business hours.

Turning water on or off outside normal business hours will be performed for an additional minimum charge of One Hundred Dollars (\$100.00) for each service call. Emergency shut off or water may be abated by a vote of the Commissioners.

The water cannot be left running to prevent freezing or for other purposes without permission of the Water Commissioners or their authorized representative.

The property owner shall repair any leaks in service pipes on the property owner's side of the curb stop. Failure to make such repairs within seven (7) days of notification shall result of a fine of Twenty Dollars (\$20.00) per day for each day after seven days.

No water service shall be placed closer than five feet (5') horizontally and three feet (3') vertically of any water service or main without the express consent of the Board of Water Commissioners.

No underground utility shall be placed within five feet (5') horizontally and three feet (3') vertically of any water service or main without the express consent of the Board of Water Commissioners.

No sewer line, leaching pit or field shall be placed closer than ten feet (10') horizontally from any water main or service. In the event of a vertical crossing of a sewer and water line, where possible, the sewer line shall be placed under the water line. All vertical crossings shall be sleeved a minimum of ten feet (10') on both sides of the crossing.

No service shall be coupled that is less than 1 ½" in diameter and One Hundred feet (100') from the curb stop to the building. All connections shall be the compression type.

All services shall be installed with a minimum of five-foot (5') cover and a maximum of six-foot (6') cover and inspected by the water department or their authorized representative prior to any backfilling of the trench. All services shall be laid on a bed of six inches (6") of clean sand and shall be covered with a minimum of twelve inches (12") of clean sand, when compacted. If not inspected, the service will be reopened by the applicant for inspection at the applicant's expense.

No service shall be made beyond lot lines. Anyone requesting a water service must have a water main six inches (6") or larger abutting the lot requesting a water service or an easement through abutting property to the lot requesting a water service. Any extension of water mains to provide a specific service will be at the property owner's expense.

One water line servicing multiple owners is expressly prohibited. If a dwelling is converted to condominium units, a separate water line and meter must be added for each unit at the owner's expense.

All new services being installed or existing services renewed from curb stop to house, shall be a 1" minimum type K copper, AWWA C901 200 PSI Black Plastic or Endot Endopure A S T M D2239 PE-3408 200 PSI.

### ARTICLE 3

Schedule water rates shall be payable as billed. Metered accounts are paid on actual water used for the previous billing period. All users shall be metered.

### ARTICLE 4

Multiple services from any curb stop are expressly prohibited.

### ARTICLE 5

Owners of the property of real estate shall in all cases be liable for the water rates or other proper due charges of the water department. If not paid when due, the water may be shut off for non-payment of charges. One Hundred Dollars (\$100.00) additional will be charged for turning the water on again.

## ARTICLE 6

No property owner shall supply water to parties not entitled to its use except by written permission of the Water Commissioners.

## ARTICLE 7

No person shall cause to be connected to any Town water main, any service parts, installed for any purpose, which are connected to any other sources of water supply unless such Town water main is protected from contamination by a D.E.P. approved back-flow prevention device, installed in accordance with the provisions of Commonwealth of Massachusetts laws and the requirements of the Department of Environmental Protection (DEP). Back-flow inspection fee - \$85.00 per inspection.

Underground irrigation systems and point of use treatment apparatus shall be subject to the requirements of this Article. Effective January 1, 2010 new underground irrigation systems are prohibited from using municipal water.

## ARTICLE 8

Water will be furnished for external fire protection free of charge, but no one will be allowed to use water through fire hydrants for any other purposes, except upon written consent from the Board of Water Commissioner. Such allowed use shall be for a period not to exceed two (2) weeks at a cost of water charges according to the measured water rates, plus a \$200.00 deposit for the use of a 1" meter and backflow prevention device or a \$700.00 deposit for a 2" set-up.

## ARTICLE 9

The Board of Water Commissioners reserve the right to change water rates and rules at any time, restrict the use of hose, fountains and sprinklers, to shut off the water in all cases when it becomes necessary to make extensions or repairs or for violations of any of the rules and regulations.

Any unauthorized use of sprinkler shall result in the following fines during one calendar year:

- 1<sup>st</sup> offense – Warning
- 2<sup>nd</sup> offense – Warning
- 3<sup>rd</sup> offense - \$50.00

Any service that uses a private irrigation source for watering shall be required to post a sign notifying the town of such action.

## ARTICLE 10

Water will in no case be supplied through a service pipe for less than the minimum service charge of \$96.00 per year, billed according to the current billing schedule.



Initial requests for inspections and turn-ons, during normal working hours, will be done free of charge. Should additional inspections or service calls become necessary due to non-compliance with these Rules and Regulations, there will be a \$50.00 charge for each additional call.

## ARTICLE 14

### **RULES GOVERNING INSTALLATION**

#### **PLAN APPROVAL**

The following information must be shown on plans submitted for approval to the Board of Water Commissioners with a certified check for Two Hundred Dollars (\$200.00) payable to the Town of Kingston, for review by the water department's consulting engineer. The developer shall assume all costs in excess of the Two Hundred Dollars (\$200.00) for a complete review, if the size and nature of the project exceeds the minimum charge.

Unless otherwise directed by the Board of Water Commissioners, the minimum size pipe that may be installed in any street or way is twelve (12) inches.

Unless otherwise directed by the Board of Water Commissioners, all intersections shall be triple-gated with the hydrant located within the gate cluster. There shall be hydrants every 500' and gate valves every 1000'. Unless otherwise directed by the Board of Water Commissioners, all water mains shall be looped.

Water mains must be extended to the subdivision property lines on all existing and future roadways and/or easements shown on the definitive sub-division plan approved by the Board of Water Commissioners. Where the Board of Water Commissioners determines that it will not unduly affect the public health and safety, it may, at its discretion, accept a water line easement in a form to be approved by the Board of Water Commissioners in lieu of this requirement. Where the existing or future roadway and/or easement does not extend to the subdivision property line, a water line easement must be provided to the water department in a form to be approved by the Board of Water Commissioners, to allow for the extension of such water line by the Water Department or its assigns.

All easements provided to the Water Department shall be accompanied by a plan showing the easement, along with documentation proving the easement is recorded with the Registry of Deeds. The plan and the recorded easement shall also be furnished to the Board of Assessors.

All projects that fall within an Overlay District of a public water supply will have additional requirements and fees as detailed in the Water Resource Overlay District Sections of the Town of Kingston Zoning By-laws.

## INSTALLATION

A full time inspector for the water department shall be present during all installations of water mains, hydrants, services, etc. and during testing. The contractor shall compensate the inspector at a rate equal to the top step in the current Kingston Town Employees Labor Union Contract rate for Water Department Foreman and shall carry all required insurances. The final selection of the inspector shall require approval of the Board of Water Commissioners. The developer shall notify the Superintendent of Water at least three (3) days prior to installation, to ensure that an inspector is available.

Before any water main is laid, the road must be at sub grade with grade stakes and limit stakes set by a Registered Land Surveyor.

Contractors making a connection to a water main or service under a Town Way shall be required to obtain a road-opening permit from the Board of Selectmen. All other openings to easements, private ways, Commonwealth of Massachusetts roads and highways, etc. shall require the posting of a certified check with the Board of Water Commissioners for an amount to be determined by them to insure the satisfactory completion of the installation of pipe and the restoration of any disturbed areas to the satisfaction of the Board of Water Commissioners.

All water mains must be installed by the developer with a minimum cover of five feet (5') and a maximum cover of six feet (6'). All mains shall be laid on a bed of six inches (6") of clean sand and covered with a minimum of twelve inches (12") of clean sand, when compacted.

All water mains 16" and under shall be DR18, Class 150 and conform to AWWA C-900 and C-905. IPEX, Inc., Toronto, Ontario (Canada); National Pipe & Plastics, Inc., Vestal, New York; Extrusions Technologies, Inc, Denver, Colorado/Wexford, Pennsylvania. installed with a locator wire. Ductile Iron Pipe is permitted for bridge and sprinkler line installations. Ductile Iron Pipe 12" and under shall meet the same specifications as for over 12".

The water department requires that the manufacturer of the PVC pipe furnish an original, notarized Affidavit of Compliance directly to the Board of Water Commissioners. This affidavit shall state that all materials and manufacturing of the specific pipe lengths to be furnished and installed in Kingston comply with the requirements of the AWWA C900 and C905 standards and of the Kingston Water Department's Rules and Regulations.

The Water Department may conduct field inspections and measurements of any length of pipe to be installed in Kingston, as they deem necessary.

If deemed necessary, the Water Department may require that the pipe manufacturer contract with a third party to independently test and certify that the manufacturer is complying with the above referenced materials.

All water mains above 16" are to be Ductile Iron. All ductile iron pipe shall have push-on joints, except as may be otherwise noted. Pipe shall be designed for the rated working pressure in

pounds per square inch shown below and for laying condition type 1 (Flat bottom trench, backfill consolidated to centerline of pipe) and for eight feet of earth cover. Thickness shall be as specified hereinafter. The grade of iron, from which the pipe is made, shall be 60-42-10, having psi minimum tensile strength, 42,000 psi minimum yield strength, and 10 per cent minimum elongation.

<u>Pipe Size</u>	<u>Thickness (inches)</u>	<u>Thickness Class</u>	<u>Rated Working Pressure</u>
16"	0.34	52	350

The interior of the pipe shall be cement lined to twice the thickness specified in ANSI A21.4 (AWWA C104) and asphalt seal coated twice. Asphalt seal coat shall be a product acceptable to the U.S. E.P.A. for use in potable water and shall be so listed in the most current E.P.A. summary of approved products. The asphalt seal coat shall be applied and cured in strict conformance with the coating manufacturer's cautions and instructions. The pipe manufacturer shall apply the seal coat or supplier under controlled factory conditions and field application is strictly prohibited. Outside of pipe shall be bituminous coated.

All service lines from water mains to property lines shall be minimum 1" Type K Copper, AWWA C901 200 PSI Black Plastic or Endot Endopure A S T M D2239 PE-3408 200 PSI or larger in diameter, saddles to the water main with a wide strap or double strap stainless steel or bronze saddle and tapped with a coupon type cutter. All corporation stops and curb stops are to be Red Head or Mueller Oriscal, open left, compression type. All service lines shall be installed by the developer with a minimum cover of five feet (5') and maximum cover of six feet (6'). All services shall be laid on a bed of six inches (6") of clean sand and shall be covered with a minimum of twelve inches (12") of clean sand, when compacted.

All hydrants are to be Mueller Super Centurian, 250, or U.S. Pipe Metropolitan 250 Model 94, open left, with M.J. shoe and Kingston steamer nozzle as approved by the Kingston Fire Department.

All hydrants shall be marked three feet (3') diagonally off the hydrant with a stake of 2 lb. channel post eight feet (8') long with five feet (5') exposed. Stake to be painted red with one foot (1') yellow reflective paint at the top. All hydrant tees and gates are to be anchor type, M.J. bolting directly together.

All hydrants shall be bagged until the water system is put into service.

All gate valves are to be M.J. open left, A.P. Smith, Metropolitan Trim, American 80CRS, Mueller Resilient Wedge Valve Model A-2360-20 or Mueller Double Disc NRS Gate Valve with Standard M.J. XMJ Ends Model A-2380-20.

All tapping valves are to be Mueller IBBM or Resilient Seat type Tapping Valves. All valves larger than 12" are to be butterfly valves.

All tapping sleeves are to be Mueller Model H-615 or Mueller Model H-619.

American-Darling Valve and Manufacturing, a division of American Cast Iron Pipe Co., or Dresser Industries, Inc shall manufacture all butterfly valves and operators.

Butterfly valves shall conform to the requirements of AWWA C504 with the specific requirements and exceptions to the AWWA C504, which follow:

Manual operator shall be submersible worm gear type (Philadelphia Gear, or equal), rack and pinion type, or lead screw type. All operators shall be positive adjustable stops to prevent over traveling of the disc in the open and closed positions. Operators shall be equipped with a two-inch (2") square-operating nut fully gasketed and greased for buried service. Gearing shall be totally enclosed, oil tight, and permanently sealed.

Valves shall have mechanical joint ends and shall open left. All valves shall be coated with a minimum of three applications of an approved bitumastic, over a rust free casting, prior to shipment. Valve interiors shall have a 100% solids thermoset or fusion bonded epoxy protective coating, holiday free in the waterway, which shall meet all requirements of AWWA C550. The epoxy coating shall not impart taste or odor to the water. The coating shall be a product acceptable to the U.S. EPA for use in potable water and shall be listed in the most current EPA summary of approved products. The coating shall be applied and cured in strict conformance with the coating manufacturer's cautions and instructions. The valve manufacturer shall apply the coating or supplier, under controlled factory conditions and field application is strictly prohibited. Valves shall have a rated working pressure of 150 PSI. Valve body shall be cast iron conforming to ASTM A126, Class B. Valve shaft shall be round, 18-8 stainless steel, and type 304. Dowel and taper pins shall be mechanically secured. Valve shafts with slip connections to the disc shall not be acceptable. Valve operator shall be capable of withstanding an overload input torque of 450 ft. lbs. at full-open or closed positions without damage to the valve or valve operator.

All fittings (tees, bends, offsets, etc.) are to be made in North America and are to be Megalug joint restraints, as manufactured by EBAA Iron Works, Inc.

No service shall be placed closer than five feet (5') horizontally and three feet (3') vertically of any water service or main without the express consent of the Board of Water Commissioners.

#### ACTIVATION OF WATER SUPPLY

Prior to supplying water the contractor/developer shall provide to the water department the following:

1. A recorded pressure test at 150 psi for two (2) one-hour periods.
2. Chlorinating, flushing and a letter certifying as to water purity from a lab approved by the Commonwealth of Massachusetts Department of Environmental Protection. Chlorination procedure shall be as follows:

1. Flush main
2. Chlorinate
3. Let Chlorine Set 24 Hours
4. Flush Main
5. Let New Water Set for 24 Hours
6. Take Sample
7. Take Second Sample 24 Hours later

The letter from the laboratory certifying water purity must be received in writing by the water department and must include the level of "background bacteria". A zero background is required by the Kingston Water Department.

3. An as-built plan, prepared by a Registered Civil Engineer or Land Surveyor, showing the water system with locations of mains, fittings, tees, bends, gates, hydrants, corporation stops and curb stops. The as-built plan shall be no larger than 48" wide and 36" deep. The scale shall be 1" = 40'. Hydrants, gates and curb stops shall be shown tied with two (2) or more measurements to existing permanent structures such as headwalls, catch basins, manholes, utility poles, etc. A registered civil engineer or land surveyor shall certify locations and grades of all roadway and water mains.

4. An easement and maintenance agreement providing access to water mains and services by the water department and a guarantee by the contractor/developer to make any repairs one (1) year after acceptance by the Board of Water Commissioners, this maintenance agreement shall be recorded at the Plymouth County Registry of Deeds.

5. Any other easements required for approval.

6. Hydrant Markers Installed.

7. The water connection fee for all proposed services in a subdivision/development, or for sizes larger than 1" will be paid at the time of the initial activation of the new water main. The service size shall be reviewed and approved by the water department.

#### WATER APPLICATION APPROVAL

All requirements for activation of water supply shall be met prior to the approval of any Applications for Water.

The basic water connection fee for the installation of all services installed by a contractor/developer shall be Twenty-Nine Hundred Fifty and no/100 (\$2950.00) required service of 1" minimum. If more quantity of water is required, the following fees shall apply: \$5,900 for a 1 ½"; \$9,480 for a 2"; \$17,700 for a 3"; \$59,000 for a 6". All services larger than 6" will be charged accordingly.

Any water connection approvals made to residences located outside the boundaries of the Town of Kingston will require a minimum fee of \$3,250 for a 1" service.

See Article 1 for additional meter charges which may apply.

All services shall comply with Article 1 of these Rules and Regulations.

## ARTICLE 15

### RULES GOVERNING MULTI-HOUSING, BUSINESS AND COMMERCIAL UNITS

- a. All units shall have individual outside curb stops.
- b. Each unit shall require a meter as specified in Article 1
- c. All common use of water such as irrigation, swimming pools, etc. shall be separately metered and have separate outside curb stops and meter pits if required
- d. All Rules Specified Under Article 14, Rules Governing Installation, shall apply.