

RAYNHAM CENTER WATER DISTRICT
RULES, REGULATIONS & SPECIFICATIONS

The following rules, regulations and specifications are part of the contract with every property owner, corporation, business or contractor who does business with the Raynham Center Water District. These regulations may be amended periodically to address new issues that arise, and to address changes in state or federal regulations.

BOARD OF WATER COMMISSIONERS

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SECTION 1

DEFINITIONS

RCWD - Raynham Center Water District

Board – Board of Water Commissioners for the Raynham Center Water District.

Consumer- The term consumer shall mean the individual, firm, or corporation whose name the RCWD has on its books as the responsible party who has applied for water service or any individual, firm or corporation who in fact uses the water service of the RCWD.

Single Family Unit – A detached dwelling designed to be occupied by an individual or a single average sized family.

Multi-Family Units – All non-single family residential units

Apartment Building – A Multi-family unit building that contains more than one residential unit which is owned by one party and is occupied by a party renting or leasing an individual unit.

Mobile Homes - A large trailer or transportable manufactured structure that is situated in one particular place and used as a permanent living accommodation.

Condominiums - A building or complex of buildings containing a number of individually owned Multi-family Units or houses with shared common grounds, and designated as a condominium by documents recorded at the Registry of Deeds.

Townhome or Townhouse – Single family homes usually having adjoining walls, having front and back yards as a part of the property, and having single family water services, and are designated as a Town home or Town house by documents recorded at the Registry of Deeds.

Commercial or Industrial Building – Any building used for the purpose of conducting an approved business or the manufacturing of goods for resale.

Multi-unit Commercial or Industrial Buildings – Any commercial or Industrial building which contains more than unit often rented or leased to another entity for the purpose of conducting an approved business or the manufacturing of goods for resale.

Water Main - The supply usually pipe laid within an Improved roadway or on private property from the street layout from which service connections are made.

Improved Roadway – A road or public way regularly traveled and maintained by the town which includes curbs and gutters, has a surface of asphalt, or another stable surface that has been professionally engineered and constructed as a durable roadway. Improved roadways may also include above or below ground utilities such as water mains, sewer lines, electric and other similar utilities.

Approved Contractors for New water Lines - Shall mean an individual, firm, or corporation who installs water mains, water services, and their appurtenance whether working for a private developer or the RCWD. These contractors will have shown experience in this type of work and that they maintain the proper liability insurance for the work being performed. Contractors working for the RCWD they must also show proper workman’s compensation insurance.

Residential Subdivision – Shall mean the division of a lot, tract, or parcel(s) of land into two or more lots for the purpose of constructing residential housing.

Commercial or Industrial Subdivision - Shall mean the division of a lot, tract, or parcel(s) of land into two or more lots for the purpose of constructing commercial or industrial buildings.

Developer – Shall mean a person, corporation, LLC, or other legal entity who develops existing property or vacant lands

Project Proponent – Shall mean the person or group proposing a new project that wished to tie into or extend water lines within the RCWD boundaries for domestic use or fire protection.

Water Service - The pipe running between the main and the meter for the purpose of supplying domestic water.

Water System – Refers to the all-water mains, water storage tanks, pumps stations, water treatment systems, or any other equipment or other structures used to convey potable water or fire protection to the customers of the RCWD.

Curb box – The shutoff usually located at the property line of a residential, commercial or industrial property.

Non-Essential Water Uses – include but are not limited to irrigation of lawns via sprinklers or automatic irrigation systems, filling pools, washing of vehicles, washing of exterior building surfaces, parking lots, driveways or sidewalks. Also included are any additional restrictions under the Massachusetts Water Management Act.

Fire Service Line - The pipe running from the main to the building used solely for the purpose of fire protection.

Residential Fire service - Single family - A fire system that is drawn directly from a domestic water service after the water meter for the purpose of protecting a detached single-family residence.

M.G.L or G.L. - The General Laws of the Commonwealth of Massachusetts, as amended.

MA DEP – Massachusetts Department of Environmental Protection

AWWA – American Water Works Association

ANSI – American National Standards Institute

NSF – National Sanitation Foundation

CTS – Copper Tubing Size

DI – Ductile Iron

PSI - Pounds per square inch

ISO – Insurance Services Office

NFPA - National Fire Protection Association

All rules, regulations, and specifications must be adhered to and, in the event a non-covered issue arises it will be the responsibility of the water superintendent to address the matter, or refer it to the Board for final a decision.

SECTION 2 General Provisions

2.1 Application and Fee's for Water Service:

All applications for introduction of RCWD water to private premises shall be made in writing at the office of the RCWD by the owner of said property or the person to be charged for, or by an authorized agent of the owner.

Applications for all Commercial, Industrial or agricultural projects must supply a complete set of plans along with the application for water. Plans must include the proposed size and locations of a water lines being proposed as described in section 2.3 below.

All residential sub-divisions, commercial buildings, condominiums, and apartment complexes and all other types of developments, excluding single family residences must have their plans approved at a monthly Commissioners meeting of the RCWD.

All Fee's for new construction including: Capitol Improvement fees, Demand fees, Inspection fees, Material & Installation costs, or other fees required for approval must be paid in full prior to the RCWD signing off on building permits, and is subject to the following:

- 1) All fees that are paid for Capital Improvement, Demand, Inspection, Material & Installation costs, or other fees paid are not refundable.
- 2) All fee's paid will be valid for 3 years from the date of fee payment to the RCWD there are no exceptions to this.
- 3) Projects must be substantially completed and all water lines installed prior to the expiration of the 3rd year.
- 4) The property owner may request in writing for an extension of up to 1 additional year only.
- 5) All requests for extensions must be in writing to the RCWD no later than 30 days prior to the 3-year expiration date. The letter must also include a project status update and include an updated estimated completion date.
- 6) At a minimum all approvals to extend applications beyond 3 years are subject to the following:
 - a. There have been no substantial changes in the project.
 - b. The applicant will be subject to pay any additional or at a minimum, the difference in any fees from the date of approval.

For an existing Customer; No fee's will be charged if an existing home or building has a fire or there is an unforeseen circumstance that requires the structure to be razed, subject the following conditions;

- 1) The home or building is rebuilt upon the same foundation or foot print.
- 2) There have been no changes in the structures size or the buildings use.

2.2 Plan Requirements for a New Single-Family units:

All proposed plans shall be drawn and stamped by a Massachusetts registered engineer, and include the following for approval. It is the Project proponent's responsibility to make sure the RCWD receives the plans to review the project.

1. Plans must be submitted on 24" x 36" sheets or on 22" x 34" sheets only.
2. Plans must include the following items:
 - a. Location of the proposed water service;

- b. The sewer service or proposed septic system;
 - c. The location of all existing and proposed structures; and
 - d. The location of any other proposed underground utilities such as lawn irrigation, pet fences, private electric lines, etc. within 20 feet of the proposed water service.
3. The final construction plans must reflect all requirements as stated in these Rules, Regulations, and Specifications prior to the approval of the RCWD.

2.3 Plan Requirements to extend the water system for, Residential Subdivisions, all Commercial and Industrial Development:

All proposed plans shall be drawn and stamped by a Massachusetts registered engineer, and include the following for the approval of the Board. It is the Project proponent's responsibility to make sure the RCWD receives the plans in time to review the project.

1. Plans must either be submitted on 24" x 36" sheets or 22" x 34" sheets only.
2. The plans must show all proposed water mains, gates, Fire Hydrants, proposed water services.
3. All Plans must be approved by the RCWD prior to installation. The RCWD requires 15 Business days for review but may take longer for more complex designs.
4. Fire services require a fire flow test as close as possible to the connection point.
5. The proponent of the new connection must prove, to the satisfaction of the RCWD, there will be no negative effect on the existing water system. A negative impact by the project on the existing water system may require the proponent to make upgrades to the water system at their expense. Any needed upgrades to the water system will be included as a condition of approval with timelines for completion. The RCWD, if needed, will use its consulting engineer to review the information supplied to make this determination. Any costs incurred will be charged to the project proponent and must be paid before receiving the results of the review.
6. All fees for the RCWD consulting engineer will be the responsibility of the project proponent. No water will be furnished to any project until all engineering fees have been paid in full.
7. The final construction plans must reflect all requirements as stated in these Rules, Regulations, and Specifications prior to the approval of the RCWD.
8. Once a development is complete, a complete set of as-built plans will be given to the RCWD. The As-Built Plans will include final locations and swing ties for all of the water main gates and service connection points at both the water main corporation and the curb box.

2.4 Service installation Fees:

All installation fees for new water connections shall be paid in advance of any work being done by either the RCWD or by an approved contractor.

2.5 Unusual Construction:

Owners of property desiring any unusual construction, alterations or attachments connected to the water supply must submit plans and specifications to the superintendent for his approval or disapproval, and his determination as to whether the same is permissible. The superintendent shall determine the terms, charges and conditions under which this will be allowed and if needed make a recommendation to the Board.

2.6 Access to Premises:

As a condition of being a consumer of the RCWD, the owner of the premises agrees that agents of the RCWD shall be permitted free access at all reasonable times (typically Monday through Friday 8AM to 5PM) to any premises supplied by the RCWD. This access is necessary to read and maintain water meters and ascertain the quantity of water being used and the manner of its use. During

Emergencies, such as boil water orders or other potential contamination events, RCWD agents will be allowed access at any time. When such access is not possible or denied the water will be shut off to protect the health and safety of the general public until such time as the property can be inspected and deemed safe.

2.7 Emergency Water Curtailment:

In the event of an unforeseen emergency, the RCWD can require the curtailment of all non-essential water usage until such time as the emergency has passed.

2.8 Conditions Under Which New Service is Furnished:

The RCWD supplies water that meets all state and federal laws and guidelines. The RCWD does not guarantee a constant pressure or uninterrupted service. The RCWD also does not guarantee the consumer a particular volume of water or pressure except as required by MA DEP regulations to effectively operate fire sprinkler systems or other appliances, the same being subject to the variable operating conditions that may take place within the water mains of the RCWD.

SECTION 3 **Liability**

3.1 Liability for Interruption of Service:

No consumer shall be entitled to damages, or to have payment refunded, for any interruptions of supply caused by the RCWD shutting off water supply for the purpose of emergency repairs, scheduled maintenance of the water works, or by the stoppage or shortage of supply due to causes beyond the control of the RCWD, such as excessive drought, contamination event, excessive use of water by other consumers, or by leaks or defects in the pipes.

3.2 Liability for Dirty Water:

The RCWD will not be responsible for damages caused by dirty water resulting from the opening of any hydrant, the opening or closing of any valves or the breaking of any pipe.

3.3 Liability for Consumers Pipes, Fixtures, Boilers, Appliances or other equipment:

The RCWD assumes no liability for conditions that exist within a customer's home, commercial, or industrial buildings plumbing system for any damage caused due to the RCWD shutting off water for the purpose of; repairing pipes, meters, hydrants, or any other work done by the RCWD to maintain the integrity of the water system. Consumers are hereby cautioned to maintain their interior plumbing and provide, at their own expense, any and all suitable valves or safety devices necessary to protect their plumbing, appliances or other equipment that may be affected by such incident's. In any event the RCWD expressly stipulates that it will not be held liable for any damage incurred by such circumstances.

3.4 Liability for Shutting of Water Without Notice:

When it becomes necessary to shut off water in any section of the RCWD because of an accident or for the purpose of making changes or repairs, the RCWD will endeavor to give timely notice to as many customers as possible, as time and the character of the repairs or accident will permit, and will so far as practicable use its best efforts to prevent any inconvenience arising from any such cause. Failure to give such notice will not render the RCWD responsible or liable for any damages or inconvenience that may result from shutting off the water.

SECTION 4 **Payment of Charges**

4.1 Responsibility for Charges:

Consumers of water will be charged with and held responsible for all water passing through their service meter until such time as they shall notify the RCWD in writing or in person at its office that they no longer desire the use of water and in case of the sale of the property such notice will be given to the new owner. In the case of rental properties where the property owner requires the tenant to pay for water usage, the property owner is liable to pay for all unpaid water use charges. In all cases any outstanding balances stay with the property.

4.2 Final Meter Readings:

Upon the sale of any property which is supplied water from the RCWD, it will be the responsibility of the current owner or their agent to notify the RCWD of the sale. All final meter readings require a minimum of five (5) business days' notice to allow for the reading to be completed and a final bill issued. Final meter readings are only done during regular business hours only.

A fee will be charged for each meter reading and bill generated. See rate Schedule D. In the event an additional final meter reading is requested, due to a closing delay or any other circumstances, the customer or agent will be responsible for the cost of the completed final meter reading, and will be responsible for the cost of the new final reading and bill.

4.3 Date of Consumer's Liability to Pay:

A minimum charge will be assessed for water service from the date the water is turned on whether the water is used or not. All water charges for usage will be due as of the due date shown on the current water bill.

4.4 Collections Miscellaneous Non-Water Consumption Charges:

All bills for labor or material on consumer's property and charges for shutting off or turning on water, and service repairs, will be subject to the same terms and conditions as bills for water use. See rate schedule D for charges.

4.5 Districts right to decline to do business with any person, persons, or business who are Delinquent:

No person who owes an overdue bill for water or service charges shall be entitled to the further use of water at the same or any other location until such water or service charges are paid in full, together with any associated costs.

4.6 Claims for Adjustments to Water Bills:

All claims for adjustments on bills shall be made by the due date shown on the bill. Except for verified reading or billing errors, any adjustments to reduce a RCWD bill is subject to the approval of the Board.

4.7 All Metered Water to be Paid For:

All water passing through a meter must be paid for any reason, whether used or lost, based on the current rates.

A minimum Quarterly ready to serve charge will be assessed for water service from the date the water is turned on whether any water is used or not.

4.8 When Meter is Out of Order:

If a meter becomes out of order or fails to register, the consumer will be charged the average yearly consumption of the previous eight (8) reading cycles. In all cases in the event the remote reader should fail and the inside meter continues to run the owner will be charged based on the correct reading.

4.9 No right to Furnish Water to Other Premises:

A consumer of water by meter may use it for purposes on their own premises but will not be permitted to supply the premises of another, except in emergencies and then only with the approval of the RCWD.

SECTION 5 **Water Meters**

5.1 General:

The RCWD has standardized on Badger meters and the Badger “*Orion*” radio read meter system all meters within the RCWD must be Badger with the Orion system. No exceptions.

New single family residential meters up to one inch (1”) can be purchased through and installed by the RCWD if prepaid for by the owner.

For new Commercial, Industrial building meters and residential non-single-family meters over 1” must be initially be purchased by the property owner, installed by a licensed plumber, inspected and tested by the RCWD prior to water being supplied to the property.

Once a water meter has been installed and inspected the RCWD will maintain water meters up to one inch (1”) at no cost. Meters over one inch (1”) in size will be maintained by the RCWD and the repair or replacement cost will be billed to the property owner.

Meters at all times must be protected from damage and freezing. Protection of the meter is the property owner or customer’s responsibility. All repairs or replacements resulting from damage or freezing will be billed to the customer of record.

Hydrant meters will be installed by the RCWD. All hydrant meters must have the appropriate backflow prevention devices installed on the meter. The RCWD Hydrant meters have basic hydrant check valves, in the event it is determined that additional protection is required the person renting the meter will be responsible to provide the approved additional protection. The person renting the meter will be responsible for the any damage to the meter or to the hydrant which it is attached.

5.2 Water from Non-Metered Source:

All water supplied by the RCWD for any purpose shall be drawn from a metered service.

5.3 Meter Installation:

The shut off valve at the meter inlet will be the first valve within the serviced building. An approved stop valve will be installed near the outlet of the meter, by the consumer, at their expense, to permit the removal of the meter to prevent back flow from the plumbing system.

5.4 Meter Size:

The proper size, type and kind of water meter for each application shall be approved by the RCWD. This is typically based on available system water pressure in the street and the customers estimated demand.

5.5 Tampering with Meters or Meter Removal:

All meters must be sealed and inspected by the RCWD. Under no circumstances is a meter to be moved or disturbed except by an employee of the RCWD. Anyone found removing or tampering with a RCWD meter is subject fines or possible water service termination. See Rate Schedule D

5.6 Meter Pits

On some installations it will be necessary to install a meter pit at the property line. All meter pits will be to the specifications of the RCWD and all costs will be to the owner or applicant. Acceptable brands are Mueller Water Corp and Ford Meter Box; See Specifications under section 7.20.

5.7 Right to Change Meters:

RCWD has the right to change or repair water meters for any of the following reasons:

If the meter is failing to read accurately or not recording;

If for any reason the RCWD is unable get a meter reading;

If, in the opinion of the Water Superintendent or his designee deems a new meter installed by the customer does not fit the conditions of the service installation; In this case the change shall be in accordance with current regulations and paid for by the consumer.

5.8 Auxiliary Meters:

The RCWD will **not** read or maintain auxiliary water meters. Irrigation meters, sub-let meters, secondary meters etc. are **not** the responsibility of the RCWD.

5.9 Access to Water Meters:

It shall be the duty of all RCWD consumers to see that meters are accessible to employees of the RCWD at all times for the purpose of reading or repairing of the water meter. Failure to provide such access in a timely manner will cause the water service to be discontinued until such time all obstructions are removed, and any associated water turn off/turn on fees are paid in full.

5.10 Testing Meters by Request:

The accuracy of the meter for any residence will be tested by the RCWD upon written request of the owner of record, who shall pay in advance a fee to cover the cost of such test. The district does not charge for the actual meter testing itself, but does charge a service fee payable in advance for the removal shipping and reinstallation of the water meter.

If, on such test, the meter is found to register over by two percent more water than actually passes thru it; the meter will be repaired/replaced and the service fee will be refunded, and the water bill will be adjusted in accordance with the result of the test. If, however, it shows that the consumer has been under billed more than two percent they shall be charged with the proper additional amount and shall pay the same, together with the expense of the meter test to the RCWD. This fee covers ¾" and 1" meters only.

In the case of a meter found to be under or over registering the water will be replaced by the RCWD. Commercial / Industrial water meters will be charged the rate at which the 3rd party testing company charges to come out and test the meter in place.

5.11 Water Meter Profiling:

The RCWD will perform one residential meter profile per 12-month period to determine if the homeowner has a leak resulting in a higher-than-normal water bill for the time period in question. Additional tests can be performed at the customer's request, but will be done at the rate shown on rate Schedule D. The profile fee is payable in advance of the work being completed.

SECTION 6 **General water line installation**

6.1 Water Line Inspections:

In all cases any new watermain or water service must be inspected by the RCWD prior to the line being backfilled. All water lines installed, which will be supplied by the RCWD, must be done by an approved contractor who regularly engages in the water main installation and is properly insured. Any water lines covered before inspection will have to be re-excavated for inspection. No water will be supplied to any street or premises without being inspected. All New Water Mains and services are subject to inspection fees. See rate Schedule D.

6.2 Pipe Installation General:

All water mains and appurtenances shall be installed according to the attached details. See addendums 1 & 2.

- Water piping shall be installed with a minimum of 5 feet of cover and no more than 7 feet without prior approval of the Water Division.
- Horizontal clearance from other utilities must have a minimum of 10 feet Per Mass Department of Chapter 9 regulations.
- A vertical clearance of at least 18 inches shall be maintained when crossing other utilities. All water lines must be installed over drain and sewer lines Per Mass Department of Chapter 9 regulations. In the event that a water line has to pass under a sewer or drain line the sewer or drain, the water line must be placed in a sleeve extending 10 feet either side of the sewer with a water tite mechanical seal at either end.
- In all cases the Chapter 9 DEP regulations will be followed.
- At no time will a water line share the same trench with another utility. Shelving a trench for another utility is Not permitted for any reason. Where a water service line and sewer lateral must cross the water line must be located above the sewer line.
- Fire hydrants will not be used during construction without the use of a backflow control device and water meter. People wishing to rent a Hydrant meter will have to contact the RCWD and sign a rental agreement. Fee's will be charged as outlined in the rates and charges section.
- All new water mains shall be installed within the roadway surface unless otherwise approved by the RCWD.
- Water Mains will not be run under sidewalks.

6.3 Use of Easements for new water lines:

Water lines may only be installed in an easement that is approved by the RCWD and meets the minimum specifications below.

- The primary reason for the use of easements is to allow a single-family residence to access a watermain when there is no other access and they have a failed private well. The use of easements for water mains is limited to emergency connections, and secondary access to large subdivisions which require a second connection point for the purpose fire protection, or eliminating a dead end over 1500 feet, and have no other access to existing water distribution main.
- The easement provided must be at least 20 feet wide.
- The water line must be buried in the center of the easement unless otherwise approved by the RCWD.
- No other utility shall share the same easement unless the easement is widened to allow for a separation of 10 feet between the water line and the other utility, and there must be a minimum of 10 feet from the waterline to the sideline of the easement.
- Easements shall be approved and signed by the Board or their designee, then be recorded at the registry of deeds by the RCWD attorney prior to the water line being installed.

- All engineering and legal fee's including any fees for the RCWD's attorney associated with the easement filing shall be paid in full prior to water being supplied.

6.4 Domestic Water & Fire Services General:

Residential water services within a public way from the water main to the property line or curb box are maintained or repaired by the RCWD. Water Services from the property line into the home on private property are the home owner's responsibility. The home owner has the option to have RCWD make the repair based on the current rates shown on Fee Schedule D, or the homeowner can hire an approved contractor to make the repair and the RCWD will inspect the work.

All water lines for Commercial or Industrial customers are the responsibility of the property owner. The RCWD will maintain or repair the service within the road layout up to the service box or property line whichever is closest to the improved roadway. For all domestic service and fire lines beginning at the property line are the responsibility of the property owner.

Only contractors that are approved by the RCWD will perform installation of services and repairs to services. A list of approved contractors is available at the water district office upon request. All installations and repairs will be subject to RCWD rules, regulations, and specifications.

The RCWD will install new water services under the following conditions:

- The RCWD will only install 1" residential water services on existing town ways only. The owner will be charged based on the current rate schedule, see rate Schedule B.
- The RCWD will not install services over 100 feet from the edge of the road to the point of entry into the house.
- All services over 1" shall be installed by an approved contractor.
- All water services longer than 200 feet from the road to the point of entry into the house will use a RCWD approved meter pit located no more than 5 feet from the curb box. The RCWD will be responsible to repair up to and including the meter pit. The service line from the meter pit to the house will be the responsibility of the property owner.

6.5 Water Service Installations:

The minimum size water service will be ¾" for residential and 1" for commercial. The RCWD may require larger line sizes to meet the minimum flow and pressure requirements.

- All curb stops will be set at the property line of the building being served.
- During peak usage lines will need to provide residential customers with a minimum of 5 Gallons per minute at 35 PSI of pressure on the first floor of each residence. Commercial properties; it will be the responsibility of the design engineer to verify the size of the line based on the water needs.
- Water services cannot be run along a public roadway. If the premises to be served is beyond the end of an existing water main, the water main will have to be extended to the farthest property line of the premises.
- All Buildings, single family homes, duplexes, triplexes, commercial, Industrial buildings etc. must each have their own water service tapped at the water main.
- On ductile Iron water main, ¾" and 1" Service taps will be directly tapped into the water main NO Saddles.
- On existing asbestos cement pipe all taps will require the use of a saddle.
- For 1 ½" and 2" service taps on all pipe types service saddles must be used.
- In the event the domestic water service is tapped off of the fire line it must be tapped a minimum of 100 feet from the fire line riser. An additional fire line service valve will also be required between the domestic water tap and the building to insure uninterrupted domestic water service during fire system maintenance and repairs. In the event the 100 feet falls

within the roadway the domestic line must be tapped directly on to the distribution main and not the fire line.

- A tracer wire, 10-gauge of continuous copper wire will also be attached to the curb box, and run the entire length of the water service and appropriately clamped to the copper to ensure the RCWD ability to locate the water service.
- In the event that polyethylene tubing is installed from the curb box to the house a transition to copper will take place a minimum of 10' outside the foundation to the water meter to insure a rigid pipe for meter and plumbing installation.
- No curb boxes will be located in any driveways, walkways or sidewalks. All service boxes where possible shall be placed within the roadway easement as close to the property line as space allows.

6.6 Fire Service Lines:

The RCWD does not make recommendations for fire service line sizes. Registered engineers will be required to verify that ample water and pressure is available for the fire system needs. The RCWD makes no guarantee of available flow or pressure within the existing system.

In areas where there is no data available, or the data on file is more than 3 years old, the applicant will be required to perform a fire flow test. The test results and a stamped letter from the fire system design engineer stating that there is acceptable pressure and flow, must be forwarded to the RCWD before any applications can be approved. Fire flow testing will be allowed from March 15th through November 30th weather permitting. The RCWD will charge a fee to operate the hydrants. See Rate Schedule D

All fire service lines will have an approved backflow prevention device installed in strict accordance with Massachusetts 310 CMR 22.22, and the RCWD rules, regulations and specifications.

Any Fire service vaults will be to the RCWD's specifications and the cost will be to the owner or applicant.

Backflow preventer device installations will not be allowed in underground fire vaults where there is a possibility of vault flooding. All backflow preventers installations must be above ground.

6.7 Fire Booster Pumps:

Fire booster pumps will not be allowed unless it can be definitively proven that the booster pump, when operating, will not have any detrimental effects such as low pressure or adverse water quality to the existing water system or to the customers of the RCWD. The project proponent will be responsible to provide all necessary documentation for review by the RCWD and it's consulting engineer.

All costs for the RCWD's consulting engineer to review the proponent's proposal and supplied documentation will be the responsibility of the project proponent.

Any Distribution or storage system modifications needed to accommodate a fire booster pump will be the responsibility of the project proponent.

6.8 Water Main Gate Valve locations:

All water gates that connect to the RCWD system shall meet the following minimum installation specifications.

- The maximum distance between inline water main gates will be no more than 1000 feet.
- Each intersection will have either a three-way gate assembly for a side street, or a four-way gate for a cross street intersection.
- All water main gates must be within public ways or an easement granted to the RCWD.

6.9 Water Main Size:

The minimum size of all new water mains for new construction shall be 8 inch. Water Mains will be installed on the same side of the street for the entire length of the street. The size of the water mains installed within any development Public or Private must provide the following:

- The water main must provide a minimum of 45 PSI at the meter under normal conditions.
- The water main must also provide for a minimum of 20 PSI during fire flow conditions
- The flow rates shall meet or exceed the minimum ISO requirements for the applicable construction.
- The flow rates shall meet or exceed the minimum ISO requirements for the applicable construction unless approved in writing by the Town of Raynham Fire Department.
- No Dead-end water main shall be more than 1500 feet in length without looping back to the water system to allow for adequate flow to maintain DEP minimum water quality requirements. If there is a question of possible water quality issues, the RCWD will consult its engineer to verify any water quality issues. Any costs associated with this will be charged to the project proponent.

6.10 Extending existing water Mains in existing Public Ways:

Anyone wishing to extend an existing main along a public road or way must comply with the following:

1. All extensions and associated work will be done solely at the expense of the proponent; this includes all permits and fees associated with the job, along with any expenses incurred by the RCWD for inspection purposes.
2. Dead ends will be subject to the 1500 feet rule listed under Water Main size.
3. No domestic water or fire services will be allowed to be connected without the new water mains being tested under section 8.
4. All extensions shall be the same size as the line being extended.
5. The proponent must supply a plan showing the proposed extension.
6. If a valve does not already exist on the end of the existing main, the proponent will supply one at no charge.
7. Fire hydrant placement will be as required in the Fire hydrant section 6.11.
8. The new main shall meet all pressure tests and disinfection requirements included in the RCWD regulations.
9. All new water main extensions, within public ways, where the new main will pass existing residential dwellings; a water service stub will be left at the centerline of all existing homes.

6.11 Fire Hydrant Installation:

Fire hydrants shall be installed as follows:

- Fire Hydrants shall be no more than 700 feet apart, unless the Raynham Fire Department requires a shorter distance.
- The first Fire hydrant on a new roadway shall be located no farther than 700 feet from the nearest Fire hydrant located in the existing water system.
- Fire hydrants must be installed on the same side of the road as the water main unless otherwise approved by the RCWD. All fire Hydrants will be installed using anchor tees with the auxiliary Fire hydrant gate mounted directly to the tee. The breakaway flanges must be 3 to 5 inches from ground level. All fire hydrant laterals shall utilize mega lug style retaining glands.

- Fire hydrants that must installed within a sidewalk shall be set so the bolts on the breakaway flange can be easily accessed without cutting the sidewalk.
- Fire hydrants shall not be installed in a manner which blocks the sidewalks. Clearances must meet minimum ADA clearances to be accepted.
- All Fire Hydrants will be red in color with a white top.
- A Fire hydrant must be installed on all dead-end water mains.
- On dead end installations the Fire hydrant should be connected using a reducer with a 6” auxiliary valve. Mega Lug style retainer glands shall be used on the reducer, auxiliary gate, and Fire Hydrant. Depending on ground conditions a thrust block may be needed.
- Regardless of soil conditions all fire hydrants will have a minimum of 1/3 cubic yards or 1/2” to 3/4” crushed stone around the drain to allow for proper drainage of the hydrant barrel. The hydrant drains will not be blocked by anything that will prevent the drains from operating properly.
- All Fire Hydrants will be installed per manufactures instructions.

6.12 Fire Hydrants located on Private Property

All fire hydrants, which are located on private property, are owned by the property owner and therefore are not maintained by the RCWD.

If a property owner wishes to test or flush these fire hydrants, they must first contact the RCWD and Raynham Fire Department.

Someone from the RCWD must be present during any hydrant testing or flushing. All Testing or flushing must be done in a way that is does not disturb the RCWD customers or water system.

SECTION 7 **Materials Specifications**

7.1 Approval of Materials:

Only new materials shall be incorporated into the work. All materials shall be supplied by the contractor and are subject to the approval of the RCWD.

Prior to beginning work, the contractor shall submit to the RCWD specification sheets for all the materials and related equipment to be used in the construction of the new water line. Such data shall contain enough detail to allow the RCWD to form an opinion as to the materials conformity to the specification contained within this. This information shall be submitted no later than 10 days prior to the start of the work so the RCWD has sufficient time to review the materials.

The materials on the job shall be free from defects and conform to the approved specifications.

All materials which do not conform to the specifications provided or have been damaged in shipment shall be promptly removed from the construction site.

7.2 General:

All Materials used within the RCWD distribution system shall meet the specification listed below. In the event the RCWD agrees to furnish water to an existing water system the system being supplied must prove the materials used within the system meet or exceed the minimum requirements contained in the RCWD Materials section.

The RCWD is willing to review requests for the use of “or equal” materials. The RCWD has the sole right to decide whether materials are equal to what is listed in the specification, and will do so with the following stipulations:

- 1) It is the sole responsibility of the person/company making the request to supply all necessary documentation to prove the materials will serve the function equally or better, and are of equal or better design and quality. The RCWD may request additional information if it deems necessary to properly review new products.
- 2) The RCWD may retain professional services to review these requests.
- 3) Sufficient time must be given to the RCWD to perform the review.
All materials, regardless of the manufacturer, must meet all applicable ANSI/AWWA, NSF standards for materials to be used with drinking water.
- 4) All proposed materials to be considered as “or equal” must be domestically manufactured.

7.3 Pipe for Water Main:

All new water main shall be cement lined ductile iron pipe and shall conform to AWWA standard C-151 latest revision, Class 52 manufactured by US Pipe, Griffin Pipe Co., Atlantic States pipe or approved equal.

Fused High Density Polyethylene Pipe (HDPE) water Main may be used in special circumstances, and may only be used under special approval in applications where Ductile Iron may not be suitable. HDPE pipe shall meet the latest version of AWWA C901/C906, ASTM D2239, ASTM D2737, ASTM D3035, and F714.

7.4 Fittings for Water Mains:

All fitting shall conform to AWWA standard C-153 latest revision, made of ductile iron, compact, Mechanical Joint, double cement lined, and bitumen coated, manufactured by domestic manufacturers US Pipe, American Cast Iron Pipe, or approved equal.

7.5 Restrained Joints:

Retainer glands shall be Meg-A-Lug type as manufactured by EBBA Iron, Series 2100, or approved equal. All gland bolts must be ductile iron. Restrained Joints may be used for some thrust applications. Where specified by the RCWD field lock gaskets may also be required. Some applications may require thrust blocks in place of, or in addition to, the retainer glands.

7.6 Gate Valves:

All gate valves will meet AWWA standard C509 latest revision, be mechanical joint, have at minimum double O-ring stem seals, and have an all epoxy coated body. Valves will be rated for 350 PSI operating pressures. All Gates must be OPEN LEFT.

All gates from 4” through 16” will be designed vertical installation only. All gates will be a resilient seat style with mechanical joint ends. Acceptable Manufacturers are Mueller, Dresser

7.7 Butterfly Valves:

Butterfly valves of any size **WILL NOT** be allowed within the RCWD water distribution system.

7.8 Roadway Water Gate Valve Boxes:

Every Gate valve will have a gate box manufactured by Bibby STE-Croix or Bingham & Taylor 2 piece 5-1/4”, sliding type adjustable top, roadway gate boxes with 13 lb. covers with “WATER” label in the casting. If extensions are needed to bring the casting to grade, the intermediate style sliding extension must be used. There must be a minimum of 6” of overlap between the top and bottom sections of all gate boxes. The RCWD will consider “or equal” gate boxes so long as they are domestically manufactured and meet the above specifications.

7.9 General Water Service Fittings:

All fittings to be used for water services or other connections to the public water supply will be domestically manufactured, certified to be lead free and meet all ANSI/NSF 61 standards for use with drinking water.

All fittings will have either iron pipe threads or compression ends. Soldered fittings will not be allowed between the water main and the water meter. NO Exceptions.

7.10 Corporation Stops:

3/4" through 2" Corporation Stops will conform to AWWA C800 Standards (ASTM B584) Certified to be lead free and meet NSF/ANSI standards 61. All corporation stops will be OPEN LEFT, be the ball valve type with the AWWA CC standard thread with pack joint suitable for use with copper tubing or copper tubing sized polyethylene pipe (CTS). All corporations will be rated for 300 PSI and include any needed restraints. Corporation stops shall be equal to Mueller 300 series, Ford Brass FB 1000.

7.11 Curb Stops:

3/4", 1", 1 1/2", and 2" Curb Stops will conform to AWWA C800 Standards (ASTM B584) Certified to be lead free and meet NSF/ANSI standards 61. All corporation stops will be OPEN LEFT, be the ball valve type with pack joints on both ends suitable for use with copper tubing or copper tubing sized polyethylene pipe (CTS). All curb stops will be rated for 300 PSI and include any needed restraints. Curb Stops will NOT have drains. Curb Stops will include a hole drilled in the Key to allow for the attachment of a curb box rod. Curb stops will be equal to the Mueller 300 series with Mueller pack joint, or Ford Brass B44 series with pack joint nuts.

7.12 Curb Boxes:

Each curb Box will have an Erie Style Curb Box with an arch style base and include a 36" long rod with brass or stainless cotter pin for attachment. Boxes and rods shall have a bituminous coating for corrosion resistance. Curb Boxes shall have the plug type top with the "WATER" label cast in the top. For 1 1/2" or 2" curb Stops a curb box base adapter will be used. Boxes and adapters shall be domestically manufactured by Ford meter box, Bingham & Taylor, Bibby Ste-Croix or approved equal.

7.13 Meter Valves:

All meter valves will be Angle ball valve type with handle. Valves will have copper tube sized compression fitting with a meter nut corresponding to the approved meter size. All valves will be Brass meeting AWWA/ANSI C800, Lead free, and meeting NSF61 for potable water use.

Larger valves will be approved by the RCWD depending on the installation. In all cases the valves supplied will need to meet the AWWA/ANSI C800, lead free, meeting NSF61 standard for potable water use.

7.14 Service Saddles:

Service saddles shall be Ductile Iron with 12 Mill Epoxy Coating with 2 Stainless Steel Straps only. The Saddle will meet AWWA/ANSI Standard C800 and NSF61 for use in potable water. All saddles shall have the AWWA/Mueller CC standard thread. Saddles shall be manufactured by Smith-Blair series 317, Mueller DR 2S series, or approved equal.

7.15 Tapping Sleeves:

For a 4 inch or larger wet tap on existing water mains, requires a full diameter ductile iron mechanical joint sleeve. Tapping sleeves will be made of Ductile Iron constructed to ASTM A536 standards mechanical joint rated for 250 PSI. All sleeves must have a test port for air testing. Tapping sleeves shall be manufactured by American flow control series 2800, Mueller H-615, or approved equal.

Fabricated Stainless-steel Tapping saddles made be used for 4” taps and above. The saddles must be all 304 (18-8) Stainless including all hardware and rated for 250 PSI. The sealing gaskets must fully wrap around the pipe. The flange must be a Stainless-steel ANSI class 150, AWWA C228 tapping flange. All sleeves must have a tap for air testing. Acceptable Stainless saddles are the Ford Fast Series, Mueller H 304 series (all Stainless), ROMAC SST III style, or approved equal.

7.16 Tapping Valves:

Tapping valves shall conform to AWWA/ANSI C515, NSF61 approved for potable water. All valves will be OPEN LEFT, epoxy coated, with resilient wedge. The valve will have one side flanged and one side mechanical Joint. Tapping valves where possible should be supplied by the same manufacturer as the tapping sleeve to be used unless otherwise approved by the water Superintendent. Tapping sleeves shall be manufactured by American Flow Control, Mueller, or approved equal.

7.17 Fire Hydrants:

Fire Hydrants shall conform to AWWA C502, FM 1510, and UL 246 listed. The hydrant main valve will be 5-1/4”, OPEN LEFT. All hydrants will have two 2-1/2” NST and one 4 1/2” NST pumper nozzle. Fire hydrants will be equipped with a break away traffic flange which is field repairable. Fire hydrants will have buried depth to match the finished grade. Hydrants will have a 6” mechanical joint connection. All fire hydrants shall be Mueller Super Centurion 250

7.18 Water Service Tubing:

All water service tubing will be a minimum of 1” in diameter. Acceptable pipe sizes are 1”, 1/1/2”, and 2”.

All copper water service tubing will be Lead free, Type K, with Soft Temper meeting ASTM standard B-88.

Polyethylene Water service pipe meeting AWWA C901-08 Standard for copper tubing sized (CTS) pipe rated for 200 PSI. The tubing must be ANSI/NSF 61 certified for use with potable water. All Plastic water piping shall be Blue in color or have a blue stripe molded into the pipe and labeled water pipe.

7.19 Pipe Insulation Specifications:

All pipe installed with less than 4 ½ feet of cover. or exposed piping, (i.e., bridge or culvert crossings etc.) shall be insulated to RCWD specifications.

The insulation shall be a 2-inch thick prefabricated and preformed urethane pipe insulation of the type used for water mains.

The covering shall be a protective stainless-steel jacket with a minimum thickness of 0.016 hundredths of an inch and shall be wrapped around the insulation and held in place by locking stainless steel bands. The covering system shall be designed for use with the type of insulation specified.

7.20 Residential Water Meter Pits

All meter pits will be manufactured by Ford Meter Box or Mueller Corporation. Inside all meter pits; Will be a ball angle valve on the meter inlet, and a dual check valve on the outlet side of the meter. Minimum bury depth will be 5ft and cover will be adjusted to grade so the pit will not be subject to flooding. Meter pits, where possible, will have an internal coil pipe system to allow the meter to be brought up to ground level for maintenance. All meter pits will have a frost cover or insulation panel supplied by the meter pit manufacturer to prevent freezing. In all cases the RCWD must approve the meter pit. Contractors should check with the RCWD prior to placing orders for any meter pits.

SECTION 8 **Pressure testing and chlorination of new water lines**

8.1 General:

All pressure and chlorination of new water lines are the responsibility of the contractor who installed the lines. All costs associated with this testing are the responsibility of the contractor. No water will be furnished to any water line where the RCWD has not witnessed the pressure test and chlorination of the new pipe. The RCWD must also receive a written copy of the results for both the pressure testing and the coliform and HPC results. The RCWD will charge a fee for witnessing pressure tests. See Rate Schedule D.

8.2 Pressure Testing:

Testing and chlorination within the RCWD will be performed by independent, professional testing companies. Under no circumstances will contractors be allowed to pressure test, chlorinate, or sample their own work. A list of approved contractors is available at the water district office.

The RCWD requires a pressure test of 200 PSI for 1 hour or a 150 PSI test for two hours depending on pipe material.

Before beginning the pressure test all air will be expelled from the pipe. Hydrants are not considered an acceptable form of air release unless agreed upon by the RCWD or its engineers. The contractor shall make any necessary taps to expel such air. After the test has been performed all stops shall be left in place or removed and plugs inserted as directed by the RCWD.

The newly laid pipe shall be tested in valved or plugged sections as determined by the RCWD. In no case shall more than 1000 feet of pipe be tested at any one time.

The pressure shall be raised to the test pressure required for each section being tested as determined by the RCWD.

The addition of excessive amounts of water shall constitute immediate test failure.

8.3 Leakage Test:

Method of testing. The leakage test shall be conducted concurrently with the pressure test. Leakage shall be defined as the quantity of water that must be supplied to the newly laid pipe, or any section thereof, to maintain pressure within 5 psi of the specified test pressure after all air has been expelled and the pipe has been filled with water. Leakage shall not be measured by a drop in pressure in a test section over a period of time.

Table 1

Allowable leakage per 1000 ft of pipeline –gph

Nominal pipe diameter-in

Psi	bar	3"	4"	6"	8"	10"	12'	14"	16"
200	(14)	.32	.43	.64	.85	1.06	1.28	1.48	1.70
175	(12)	.30	.40	.59	.80	.99	1.19	1.39	1.59
150	(10)	.28	.37	.55	.74	.92	1.10	1.29	1.47

No pipe installation will be accepted if leakage is greater than the chart in Table 1.

All visible leaks are to be repaired regardless of the amount of leakage. At the end of the test period if the amount of water added to the main from the calibrated vessel is less than the allowable leakage, and if the line shows no visible leaks or other problems that part of the main tested will be approved.

8.4 New Water Line Disinfection:

All new water lines installed within the distribution system must be disinfected in strict accordance with AWWA standard C-651 latest revision.

- Disinfection must be performed using Calcium Hypochlorite granules dissolved in water drawn from the distribution system and pumped continuously into the new water line until a chlorine residual is seen at the blow off location.
- Chlorination shall be performed by a third party approved by the RCWD and witnessed by a RCWD inspector. Disinfection companies may, under the supervision of the RCWD, operate the water gates & Fire hydrants in the water line being treated to allow proper distribution of the chlorine.
- Before chlorination begins, the lines should be flushed at a rate of no more than 500 GPM until the water runs clear of discolored water and debris. Only one Fire hydrant will be allowed to be opened at a time for flushing new mains.
- Sampling and chlorination taps will be through a corporation stops in the water main with either copper or Polyethylene tubing to chlorinate and sample from. No Fire Hydrants or hoses will be used for chlorination or sampling of the mains. Sample locations along new water main shall be no more than 1000' apart.
- Sampling Can be done by the approved testing contractor. All new mains will be tested for **Coliform and HPC's** (Heterotrophic Plate Count) as required by DEP.
- If a line should fail the bacteria or HPC testing, the contractor will have to re-chlorinate & flush the lines that failed and be resampled.
- No lines will be allowed to be put into service without passing the bacteria tests and the results given to the RCWD.
- The third-party contractor shall submit a written copy of the chlorination of the water main which should include at a minimum; the date and time of the chlorination, the pipe length and diameter, the location of the chlorination point and bleeder / test points, the amount of chlorine used, the chlorines % strength, and certification that 50-ppm chlorine residual was reached at each sample testing point.

SECTION 9 **Backflow Prevention**

9.1 General Information

The RCWD, as required by the Commonwealth of Mass regulation CMR 310 22.2, maintains an aggressive backflow prevention program to prevent the public drinking water supply from coming in contact with dangerous contaminants, or from all non-potable water sources.

The following will apply to all customers:

- No other source of water shall be connected to any pipe, public or private that is supplied with water by the RCWD.
- When any rules or regulations are in question, the higher standard of either the RCWD'S backflow prevention program, or the Commonwealth of Mass regulations CMR 310 22.2 shall govern.
- No Residential, Commercial, industrial, agricultural or other building will be connected to both a private well and the RCWD'S water supply. In the event a building has a split water system. The RCWD system will be protected by a reduced pressure zone backflow preventer located at the service entrance or just after the water meter. There are no exceptions to this.

9.2 Backflow preventer type and installation

- To determine the type of Backflow device, the degree of potential hazard will be determined by one of the RCWD backflow prevention licensed technicians. All backflow prevention device types and manufacturers proposed to be installed are to be approved by the RCWD.
- All commercial and industrial buildings must have a containment device located directly after the water meter. The building containment device is required regardless of the business or industry located on the premises.
- All commercial, industrial, or residential irrigation systems that are connected to the public water supply must have a testable pressure vacuum breaker installed a minimum of 12 inches above the highest lawn sprinkler head.
- In no case will the RCWD supply water to any building which utilizes an irrigation system with an automatic fertilizer system that is connected to the water supply.
- All Backflow devices will be installed and repaired when needed as per the Mass plumbing code by a licensed plumber.
- Residential customers who have fire systems or lawn irrigation systems that require a testable device will be required to follow the same testing and repair requirements as commercial and industrial customers.
- All repairs to faulty backflow preventers must be made within 14 days of notification of failure. All repaired devices must be retested by the RCWD within 10 days of the repair. All costs associated for repairs and testing are the responsibility of the property owner.
- Failure to make repairs with the time frame stated will result in the termination of water until such repair are made and the device is successfully retested.

9.3 Backflow Testing

- All testable backflow devices must be tested as per Commonwealth of Mass regulation CMR 310 22.2. All devices will be tested by the RCWD. Double check valves assembly's and testable pressure vacuum breakers will be done annually. All Reduced Pressure Zone assembly's will be tested bi-annually. Fee's for testing these devices can be found in rate Schedule D.

SECTION 10 **Lawn Irrigation**

10.1 Lawn Irrigation systems General

Due to changes in M.G.L., Water Management Act requirements, which require the curtailment of all non-essential water use, the RCWD strongly recommends that lawn irrigation alternatives be considered. The use of irrigation wells, reclaimed water system or drought tolerant landscapes are strongly recommended. The use of these alternatives will also help alleviate high water bills as most Irrigation system usage is usually charged at the highest rate tier.

Future regulations or restrictions in the RCWD Water Management Act Permit from the state may restrict or ban the use of lawn irrigation connected to domestic water supply. These restrictions may also apply to all outdoor water uses including, but not limited to, hand held hoses for any purpose and including the filling of pools. In any Case the RCWD reserves the right to limit all non-essential water use during any emergency.

Please note the Raynham Center Water District may decline to allow irrigation systems to be used if they show excessive water use. All customers should be aware that the Raynham Center Water District, or the State of Massachusetts, DEP, can impose mandatory outside water use restrictions.

10.2 Lawn Irrigation System Requirements:

All lawn irrigation system must have control timers set to run according to the RCWD's water restriction times. All systems will have rain sensors to prevent operation during rain events. All sprinkler heads will be set to only water lawns or flower beds with no over spray onto hard surfaces.

10.3 Dedicated Irrigation services:

The RCWD does not allow dedicated irrigation services, except as allowed by the MassDEP water management act for the sole purpose of crop irrigation.

10.4 Chemical fertilizers:

The RCWD does NOT permit the use of automatic chemical lawn fertilizer feed systems to be used when the irrigation is connected the domestic water supply.

10.5 Irrigation Backflow Devices:

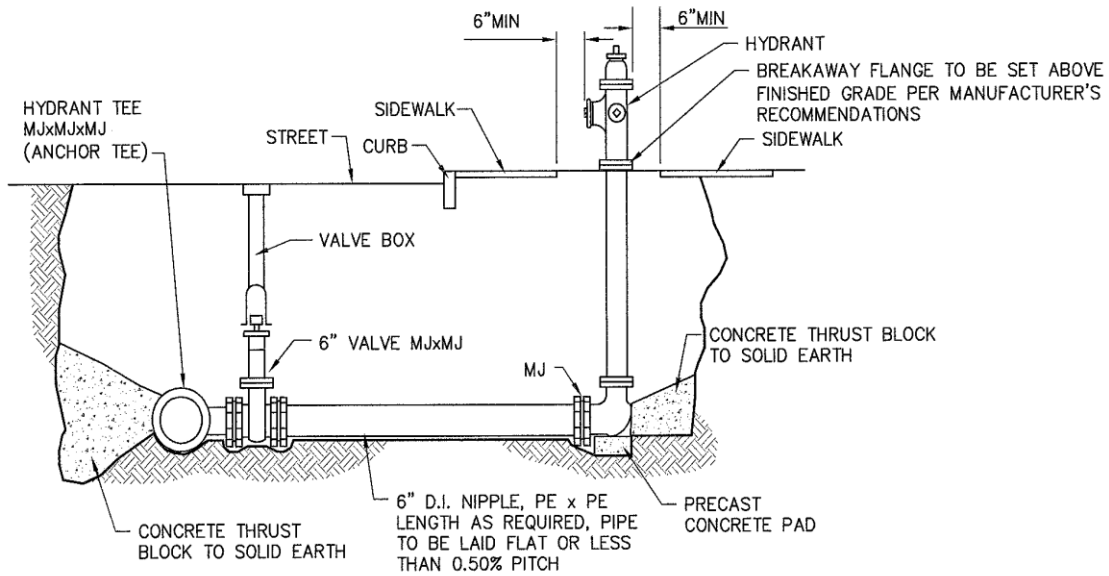
All lawn irrigations systems must have the appropriate backflow device as required under MassDEP section 310 CMR 22.22.

10.6 Violation of Water Use Restrictions:

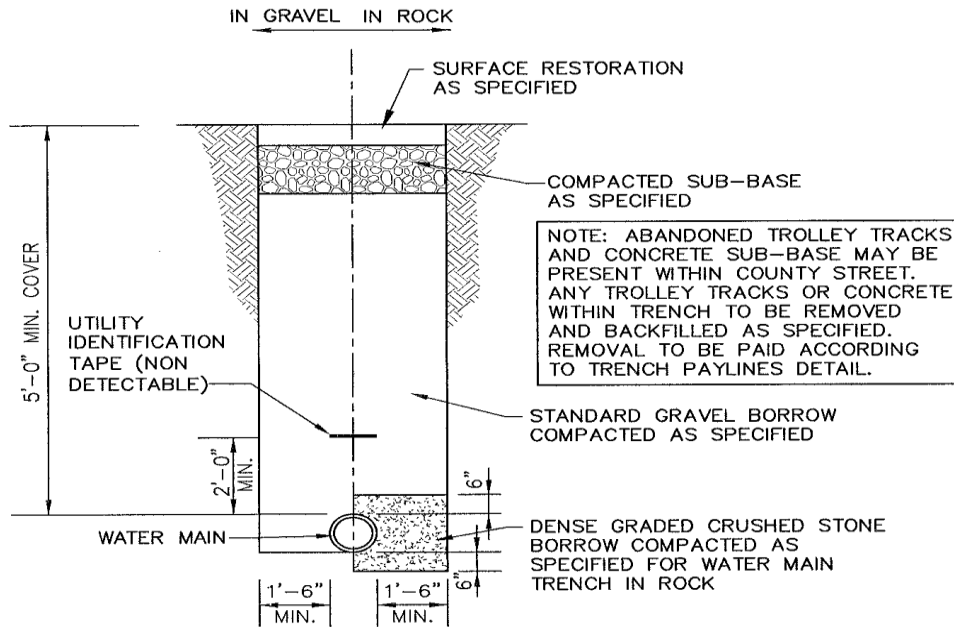
Anyone found violation mandatory water use restrictions will be subject fines, possible suspension of water service or possible service termination. See Rate Schedule D for fines.

Appendices

Fire Hydrant Detail



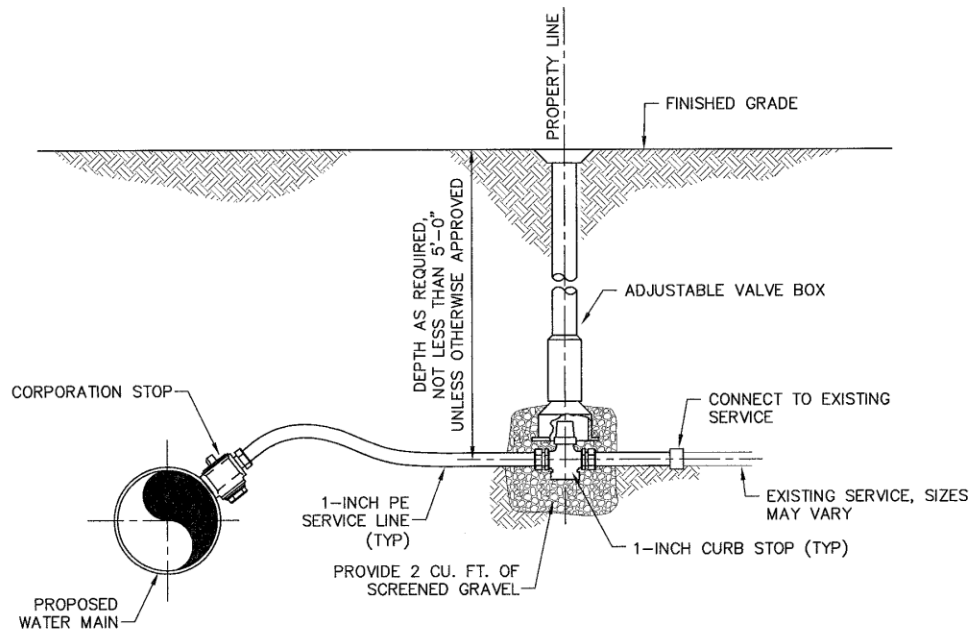
ELEVATION



TYPICAL WATER MAIN TRENCH

NO SCALE

Appendices continued



NOTES:

1. SERVICE CONNECTION TO BE FIELD VERIFIED.
2. PROVIDE SERVICES AT ALL PROPERTIES. LOCATIONS TO BE FIELD LOCATED WITH TAUNTON WATER DEPARTMENT.

WATER SERVICE CONNECTION

NO SCALE