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TOWN OF MILTON
DEPARTMENT OF PUBLIC WORKS
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WATER REGULATION

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Table of Contents

DIVISION 1	GENERAL	1
SEC. 1-1.	INTENT AND PURPOSE	1
SEC. 1-2.	DEFINITIONS	1
DIVISION 2	GENERAL PROVISIONS	3
SEC. 2-1.	APPLICATION FOR WATER SERVICE	3
SEC. 2-2.	RESPONSIBILITY FOR CHARGES	3
SEC. 2-3.	PRIVATE WELLS	3
SEC. 2-4.	EXTENDED SERVICE	3
SEC. 2-5.	UNUSUAL CONSTRUCTION	3
SEC. 2-6.	RIGHT OF ENTRY	4
SEC. 2-7.	FIRES	4
SEC. 2-8.	CONDITIONS OF SERVICE	4
SEC. 2-9.	MWRA REQUIREMENTS	4
SEC. 2-10.	LIABILITY FOR SERVICE	4
SEC. 2-11.	LIABILITY FOR LOSS OF PRESSURE	5
SEC. 2-12.	OUTSIDE WATER USE	5
DIVISION 3	SERVICES AND FIXTURES	6
SEC. 3-1.	SERVICES	6
SEC. 3-2.	SERVICES TO BE INSPECTED	6
SEC. 3-3.	CONNECTIONS TO SERVICES	6
SEC. 3-4.	REPAIR OF SERVICES	6
SEC. 3-5.	REPAIR OF METER	6
SEC. 3-6.	TURNING ON OR SHUTTING OFF SERVICES	7
SEC. 3-7.	SERVICES INSTALL SEASON	7
SEC. 3-8.	SERVICE PIPE TRENCHES	7
SEC. 3-9.	CROSS CONNECTION CONTROL	7
SEC. 3-10.	TEMPORARY SERVICE	7
DIVISION 4	FIRE SERVICES	8
SEC. 4-1.	GENERAL	8
SEC. 4-2.	APPLICATION	8
SEC. 4-3.	CONNECTION TO DOMESTIC SERVICE PROHIBITED	8
SEC. 4-4.	NUMBER OF SERVICES	8
SEC. 4-5.	PRIVATE HYDRANTS	9
SEC. 4-6.	INSPECTION	9
SEC. 4-7.	BACKFLOW PREVENTER	9
SEC. 4-8.	USE OF SERVICE	9
SEC. 4-9.	ILLEGAL USE	9
SEC. 4-10.	VIOLATION OF RULES	9
DIVISION 5	METERS	10

SEC. 5-1.	METER INSTALLATION	10
SEC. 5-2.	OWNERSHIP OF METERS	10
SEC. 5-3.	DEFECTIVE METERS	10
SEC. 5-4.	METER INSTALLATION	11
SEC. 5-5.	METER TAMPERING	11
SEC. 5-6.	METER SIZE	11
SEC. 5-7.	RIGHT TO CHANGE METERS	11
SEC. 5-8.	ACCESS TO THE METER	11
SEC. 5-9.	METER PITS	11
SEC. 5-10.	SEASONAL METERS	11
DIVISION 6	CHARGES	12
SEC. 6-1.	GENERAL	12
SEC. 6-2.	MINIMUM CHARGE	12
SEC. 6-3.	COLLECTION OF CHARGES	12
SEC. 6-4.	CLAIMS FOR ADJUSTMENT ON BILLS	12
SEC. 6-5.	ALL WATER USE TO BE PAID	12
SEC. 6-6.	FAILED METER	12
SEC. 6-7.	PAYMENT	12
DIVISION 7	VIOLATIONS	14
SEC. 7-1.	VIOLATIONS OF REGULATIONS	14
SEC. 7-2.	CROSS CONNECTIONS	14
SEC. 7-3.	ADULTERATION OF SUPPLY	14
SEC. 7-4.	MANDATORY WATER USE RESTRICTIONS	14
SEC. 7-5.	UNAUTHORIZED WATER USE	14
SEC. 7-6.	DAMAGING, DEFACING AND LITTERING DEPARTMENT PROPERTY	15
DIVISION 8	REGULATIONS FOR WATERMAINS AND SERVICES	16
SEC. 8-1.	GENERAL	16
SEC. 8-2.	WATERMAIN REQUIREMENTS	17
SEC. 8-3.	DISINFECTING AND FLUSHING	18
SEC. 8-4.	RESTRAINED JOINTS	19
SEC. 8-5.	HYDRANT CONNECTIONS	19
SEC. 8-6.	SERVICE CONNECTIONS	20
SEC. 8-7.	GENERAL CONSTRUCTION REQUIREMENTS	20

DIVISION 1 GENERAL

Sec. 1-1. Intent and Purpose

The purpose of this Ordinance is the regulation of the Water Distribution System in the interest of public safety and convenience, and the operation and protection of public works infrastructure. Excavation and restoration standards are required to preserve the integrity, operational safety, and function of the Water Distribution System.

Sec. 1-2. Definitions

The following words and phrases, when used in this ordinance, shall have the meanings respectively ascribed to them:

Town shall mean the Town of Milton

Department shall mean the Town of Milton Department of Public Works, the water supplier.

Commissioners are the elected Board of Selectmen of the Town of Milton.

Director shall mean the Director of Public works.

Owner shall mean the individual, firm, or corporation listed as the owner of the property. The Owner is the party responsible for payment for water service and other water-related charges.

Engineer shall mean the Town of Milton Engineer or any engineer assigned by the Engineer.

MWRA shall mean the Massachusetts Water Resource Authority

Watermain shall mean the supply pipe laid in the street, right-of-way or easement, public or private to which service connections are made.

Service shall mean pipe, fittings and appurtenances on private premises from the curb stop and box at the property line to and including all piping within the premises. The meter (5/8-through 1-in. in size) attached to service piping within the building or in a meter pit is the Department's property. All other service materials are the owner's property and responsibility.

Fire Service shall mean the service for fire systems including backflow prevention device, fire service meter, hydrants on private premises and appurtenances. Fire services are the owner's property and responsibility.

Public Watermains shall be determined as follows:

- a) Watermains located in Town accepted public roadways are public watermains;
- b) Watermains located in roadways with unrestricted public access that are owned by all landowners directly abutting the roadway are public watermains;
- c) Watermains located in roadways or easements with unrestricted public access that connected to Town watermains in two or more locations (looped) are public watermains.

Private Watermain shall be determined as follows:

- a) Watermains located in any single private ownership property;
- b) Watermains located in any property with restricted access.

Connection Fee shall be a fee chargeable to applicants for new services that grants the owner the right to connect to the Department's system and only the right to connect. Other charges for connection not included in the connection fee, such as the cost of labor and materials, may also apply.

User shall mean any person, owner or otherwise, who uses water supplied by the Department through an authorized water service.

Cross connection shall mean an actual or potential connection between a potable water system and any waste pipe, soil pipe, sewer, drain or other unapproved source.

Regulations refer to the document adopted, and as amended to date, by the Commissioners of the Town of Milton entitled "Water Regulations".

DIVISION 2 GENERAL PROVISIONS

Sec. 2-1. Application for Water Service

Application for water service shall be made to the Director on the Department's general permit application available at the Town of Milton Office, 525 Canton Avenue, Milton, MA.

The applicant shall be the property owner or the owner's authorized agent. The applicant shall state fully the primary use to which water service is to be applied. Should the water service subsequently be required for other purposes, the owner must submit a new application for service.

All applications for service shall be approved by the Director. All Town of Milton permits and applications shall be received and all fees for water service shall be paid before service is initiated.

All applications for service shall include documentation of required insurances and bonding as required by Section 8.1 of the Regulations.

Sec. 2-2. Responsibility for Charges

The owner of a water service shall be charged with and held responsible for all water passing through his service meter until such time as the Department is notified in writing that he no longer desires the use of water service. In case of the sale of the property, the Department shall be notified of the name of the new owner upon request for a final meter reading.

Sec. 2-3. Private Wells

There shall be no interconnection of private water systems with the Department's system. All owners using Department water service who also have private wells shall register the wells with the Milton Board of Health, install backflow prevention devices, on the Department service, and permit periodic inspection of public and private water systems on their premises.

The owners shall comply with section 310 of Code of Massachusetts Regulations 22 as amended to date.

Sec. 2-4. Extended Service

No water user shall supply water purchased from the Department to parties not entitled to its use except by written permission of the Commissioners.

Sec. 2-5. Unusual Construction

~~Owners of property desiring water service for any unusual construction, alterations or attachments shall submit plans and specifications for the proposed work to the Director for~~

approval. The Department shall determine whether service to the proposed work is permissible and the terms, charges and conditions under which the proposed service shall be permitted.

Sec. 2-6. Right of Entry

Owners or occupants of commercial, industrial or residential premises served by the Department shall, upon presentation by Department personnel of their credentials, authorize entry without a warrant to inspect the water service or to remove, repair, or replace any water meter at any time the Department deems necessary. Water service apparatus shall be readily accessible. Should access be refused, the water may be shut off and may not be turned on until such access has been allowed and appropriate fees paid.

Sec. 2-7. Fires

Whenever a fire occurs in areas served by the Department, it is the duty of users to discontinue the use of water as much as possible.

Fire Department personnel may operate fire hydrants only during a fire and shall notify the Department of any hydrants that were used during a fire.

Sec. 2-8. Conditions of Service

The Department shall endeavor to provide constant and uninterrupted service to its users with quality that meets or exceeds the levels set forth by the United States Environmental Protection Agency and the Massachusetts Department of Environmental Protection.

Because conditions within a water system vary, the Department cannot guarantee users volume of water or constant pressure.

Sec. 2-9. MWRA Requirements

All water in the Town of Milton is purchased from the MWRA. Owners and Users shall be subject to the rules, regulations and policies, as amended to date, and charges, rates, fees and assessments the MWRA imposes on the Department, Owners and/or Users.

Sec. 2-10. Liability for Service

The Department shall have the right to interrupt water service as necessary for water system maintenance, repair or other cause beyond the Department's control. It shall not be responsible for damages caused to or in user services by water quality or routine or emergency activities. No user shall be entitled to damages or to payment refund for any interruption of supply or water quality.

Sec. 2-11. Liability for Loss of Pressure

The Department reserves the right at any time and without notice to shut off the water in the mains for necessary purposes. Users having appliances on their premises dependent on routine pressure for proper operations are CAUTIONED that they should provide, at their own expense, safety features to protect the appliances against such danger.

The Department is not liable for any damage resulting from low, no or negative pressure, whether through accident or necessity.

Sec. 2-12. Outside Water Use

The Department reserves the right to regulate or ban outside water use in order to insure adequate volume and pressures for essential use.

The Department may also issue water use restrictions in accordance with Sec. 7-4 Mandatory Water Use Restrictions of the Regulations

DIVISION 3 SERVICES AND FIXTURES

Sec. 3-1. Services

Application for water service must be made to the Department in writing on the Department form for new services. Installation of service beyond the end of an existing watermain is prohibited.

Services are furnished, owned and maintained by the property owner. Services include piping, valves and fittings, including meter pit if applicable, on the owners premises.

The Department shall own materials between watermain and curb stop. The curb stop shall be installed at the property line.

Owners shall properly construct and maintain private watermains, services and fixtures at their own expense.

Upon installation, the owner shall provide the Department an as-built plan of service.

Sec. 3-2. Services to be Inspected

Department personnel shall inspect all services before trench backfilling. Materials and installation shall meet Department requirements.

Sec. 3-3. Connections to Services

Connections to services shall be brought to the curb stop, at the owner's property line by an approved installer at the owner's expense.

Sec. 3-4. Repair of Services

It is the duty of the owner to maintain and repair services. Maintenance and repairs shall be done at the owner's expense. The Department may turn off service until such time as the work has been completed and inspected.

Service pipes between the curb stop and meter shall be repaired or replaced, as directed by the Department, for protection of water supply and service and prevention of waste. Upon request, the Department may assist in the detection of a service leak, but **will not** repair services after the curb stop. The Department may charge the owner for leak detection assistance.

Sec. 3-5. Repair of Meter

Any meter or ert (encoder-register transmitter) damaged due to any cause shall be repaired or replaced by the Department at the expense of the owner.

Sec. 3-6. Turning On or Shutting Off Services

Requests for turning on or shutting off domestic services shall be made a minimum of 48 hours in advance (weekends and holidays excluded), except in case of an emergency. Owners shall be charged for each such service in accordance with the rate schedule. Only the Department shall open or close curb stops.

Sec. 3-7. Services Install Season

The Director shall determine the dates each year when service installations can begin in the spring and when no further service installations can be completed in the fall.

Sec. 3-8. Service Pipe Trenches

Service pipes shall not be placed within 10 feet of any other utility, except as specifically approved by the Department.

Sec. 3-9. Cross Connection Control

The Department's Cross Connection Control Program as amended to date can be found in the Appendix to Water Regulations.

Sec. 3-10. Temporary Service

The Department will accept application for temporary service. A surety must be provided to ensure payment of service charges as well as restoration of any disturbed areas due to the temporary service.

DIVISION 4 FIRE SERVICES

Sec. 4-1. General

The Department may authorize service to private property for private fire protection purposes. All equipment shall be installed entirely at the expense of the owner and with the approval of the Director. The entire installation and upkeep of such equipment shall be at the owner's expense.

Applications for fire service shall be made by the owner of the property or his authorized agent and will be subject to all the provisions and charges described herein, as applicable.

The Department does not guarantee the adequacy of available water supply to meet the needs of the fire service.

Sec. 4-2. Application

The owner shall demonstrate the need for fire service.

The owner shall submit for approval two complete sets of drawings and specifications for the fire service. The drawings shall show the premises to be served, together with location of all valves, pipes, hydrants, tanks, sprinkler heads and other appurtenances on the premises. The plans will remain the property of the Department.

Prior to construction, the owner shall conduct a hydrant flow test to determine the available volume and pressure at the location of the fire service. The test shall be conducted by an independent testing agency and scheduled in advance with the Department. The owner shall be responsible for all charges related to the flow test and shall submit a flow test report as part of the application.

The completed service shall be inspected and approved by the Department prior to activation of service.

The owner also agrees to furnish the Department with two sets of record drawings showing piping and appurtenances as constructed, upon completion of the installation and prior to activation of service.

Sec. 4-3. Connection to Domestic Service Prohibited

No connection shall be made at any time between the fire system and the domestic water supply.

Sec. 4-4. Number of Services

Only one service will be allowed for any one building, unless in the opinion of the

Department, more than one is necessary for proper protection. Where two or more connections are allowed for one building, they shall be kept separate, unless permission is granted by the Department to interconnect multiple systems.

Sec. 4-5. Private Hydrants

Fire hydrants on private property shall be the property of the owner but may be inspected and serviced once every two years by the Department, for a fee payable by the owner. Any repairs necessary for proper operation of hydrants shall be the responsibility of the owner and shall be completed within thirty days after notice in writing has been given to the owner by the Department.

Except in case of fire, hydrants shall only be operated by the Department or persons authorized by the Department.

Sec. 4-6. Inspection

The Department shall subject all fire services to periodic inspection. The Owner shall provide service information and reasonable access for inspection.

Sec. 4-7. Backflow Preventer

Every fire service shall be fitted with a backflow preventer. The Department's Cross Connection Control Program as amended to date can be found in the Appendix to Water Regulations.

Sec. 4-8. Use of Service

No water shall be drawn from fire service pipes except for fire fighting, fire system testing or system maintenance. No water shall be taken or used through fire systems for the purpose of testing or maintenance unless the Department issues written permission. Such testing or maintenance shall be conducted only under the supervision of the Department.

Sec. 4-9. Illegal Use

When the owner or any occupant is found to be using water from a fire service for purposes other than fire fighting, testing or maintenance, the water shall be shut off until the owner shall give assurance to the Department that the offense will not be repeated and all fees paid.

Sec. 4-10. Violation of Rules

For any violation of the rules governing fire service or illegal use of water, the Department has the authority to assess a fine and to discontinue water service.

DIVISION 5 METERS

Sec. 5-1. Meter Installation

All water supplied by the Department for use shall be metered through a Department approved meter. Only one meter will be installed on the owner's premises unless otherwise approved by the Director. The meter will be located in an accessible area within the building served except where a meter pit is allowed or required by the Department.

Every service shall have an approved manual screw type ball valve immediately upstream and ball valve downstream of the meter. Services without the manual shut-off valves shall be required to immediately have them installed at the owner's expense.

All meters shall be fitted with a Department approved radio-based, ITRON® encoder-reader-transmitter (ert) programmed to the Department's mobile reader frequency.

Water service will not be activated without proper meter installation or without payment of all charges due.

Sec. 5-2. Ownership of Meters

All 5/8- through 1-in. meters shall be furnished and owned by the Department and installed at the expense of the owner. All meters over 1-in. in size will be furnished by the Town at the owner's expense and maintained (as directed by the Department) and owned by the owner.

The installation of all meters shall be done in the presence of the Department.

Sec. 5-3. Defective Meters

The Department has the right at any time to remove, test, repair or replace any 5/8- through 1-in. meter at its expense.

If an owner requests his meter be tested or replaced, and such meter is found to be defective, the Department shall pay costs associated with the work. If the meter is found not defective, a fee shall be paid by the owner to cover the cost of testing, labor, materials and reinstallation in accordance with the fee schedule.

For meters larger than 1-in. in size, the Department has the right to require annual testing. The owner shall pay the cost of testing. If such meter is found to be defective, the owner shall repair or replace it to the satisfaction of the Department at the owner's expense.

Meters damaged by accident or neglect by the owner or occupant of the premises shall be repaired or replaced at the owner's expense.

Sec. 5-4. Meter Installation

Only the Department shall install, remove, repair or replace meters.

Sec. 5-5. Meter Tampering

Tampering with water meters or erts by any person shall be subject to fine. Necessary repairs or replacement shall be at the owner's expense.

Sec. 5-6. Meter Size

The size and type of meter required for any service shall be 5/8-inch unless larger meter is requested in writing. The request shall include proposed use, estimated peak flow and other requirements necessary for a larger meter. The request shall be included with the application for service and will be reviewed by the Department for approval.

Sec. 5-7. Right to Change Meters

If, in the opinion of the Department, a meter does not fit the conditions of the service installation, the Department has the right to require such meter to be changed. Such change shall be made in accordance with Department regulations and paid for by the owner.

Sec. 5-8. Access to the Meter

The owner of the premises shall ensure accessibility to meters at all times. Failure to remove any obstruction to meter accessibility within three (3) days after being notified by the Department may result in the water service being shut off until all obstructions are removed, all regulations complied with and all charges for shutting off and turning on water service are paid.

Sec. 5-9. Meter Pits

Meter pits are required for services longer than 300 feet between curb stop and service entrance to buildings, unless determined otherwise by the Director. Meter pits shall be installed at the property line and shall be the owner's property. Installation and maintenance of meter pits shall be at the owner's expense, as determined by the Department.

Sec. 5-10. Seasonal Meters

The Department shall remove meters, which are for seasonal use, at the request of the owner . The owner shall be responsible for all fees for shutting off the service, removing the meter, installing the meter in the spring and turning the service on in accordance with the fee schedule.

DIVISION 6 CHARGES

Sec. 6-1. General

The Department shall charge owners for water service as stipulated in the Charges and Rate Schedule.

Sec. 6-2. Minimum Charge

A minimum charge shall be assessed to the owner for active water services whether or not water is used.

Sec. 6-3. Collection of Charges

The Department will send each service owner a water usage bill four times a year.

Additional charges for labor, material, fees or violations billable to an owner shall be billed separately and are subject to the same conditions as bills for water use.

Sec. 6-4. Claims for Adjustment on Bills

To be considered, all claims for adjustments of water bills must be made within thirty (30) days of billing date.

Sec. 6-5. All Water Use to be Paid

All metered water use must be paid for.

Sec. 6-6. Failed Meter

If a meter fails to register correctly, the charge for water use shall be based on average daily consumption, as shown by records when the meter was in order, for the corresponding period of the preceding two years.

Failed meters must be replaced per Section 5.3 of the Regulations.

Sec. 6-7. Payment

All bills for water must be paid within thirty (30) days of billing date. Overdue bills will immediately become delinquent. The Department will impose interest in accordance with the Charges and Rates Schedule on the balance owed on all delinquent bills.

The Department reserves the right to discontinue service to delinquent accounts in accordance with Massachusetts General Laws Chapter 40 Section 42b. All charges and ~~additional fees associated with the collection of payments, including but not limited to legal~~ fees, shall be paid in full prior to the Department turning the service on.

The Department has adopted Chapter 40, Sec. 42A through F of the Massachusetts General Laws Relating to the Imposition of Liens Against Delinquent Accounts.

Delinquent accounts for each calendar year shall be turned over to the Collector of Taxes.

DIVISION 7 VIOLATIONS

Sec. 7-1. Violations of Regulations

Any violation of the Rules and Regulations may result in the shutting off water service to the violator's premises in accordance with the Massachusetts General Laws Chapter 40 Section 42b as amended to date. When the water has been shut off for violation, it shall not be turned on again until the Department is satisfied that there shall be no further violation and until fees and fines have been paid as appropriate.

Sec. 7-2. Cross Connections

The Department's Cross Connection Control Program as amended to date can be found in the Appendix to Water Regulations.

Sec. 7-3. Adulteration of Supply

Intentional introduction of foreign materials or adulteration of the Department's water supply in any manner that allows such adulterated water to enter the Department's water system shall be subject to prosecution.

Sec. 7-4. Mandatory Water Use Restrictions

The Department has the authority to implement mandatory water use restrictions, when it is deemed by the Director to be in the interest of the Town, and to assess fines for restriction violations in accordance with the Town of Milton General Bylaws Section 40 Water Supply Protection. The owner of any service found in violation of a mandatory water use restriction shall be fined as follows:

- First Offense – written warning
- Second Offense - \$50.00 fine
- Third - \$100.00 fine
- Any Subsequent Offense - \$100.00 fine

In addition, the Massachusetts Department of Environmental Protection has authority to declare a state of water emergency (M.G.L. c. 21G) and assess fines for violations.

Sec. 7-5. Unauthorized Water Use

Any user who intentionally damages a water meter or ert, prevents such from accurate registration of the quantity of water supplied or uses or causes water to be used without consent of the Department may be fined \$500.00 for each offense, charged a minimum of 10,000 cubic feet usage per billing cycle and shall pay for replacement and installation of a new meter and ert.

Appendix to Water Regulations.

Sec. 7-6. Damaging, Defacing and Littering Department Property

Any person willfully damaging, defacing and/or littering Department-owned property may be fined \$500.00 for each offense plus three times the actual value of the cost to repair or clean the property, in accordance with the Massachusetts General Laws Chapter 40 Section 39G.

DIVISION 8 REGULATIONS FOR WATERMAINS AND SERVICES

Sec. 8-1. General

Prior to initiation of watermain construction, an updated reproducible Mylar together with three prints of plans showing watermain extensions shall be submitted to the Department for review. The Applicant shall pay the cost of review.

All plans approved by the Department shall be valid for one year. At the end of one year, plans for any watermain extension not under construction shall be deemed null and void and new plans submitted for review.

The Applicant shall submit four (4) sets of construction shop drawings to the Department, detailing the materials to be used during construction and the suppliers of the materials being used. Local contact information for all material suppliers shall be provided in the submittal.

All permits required to perform the work and 24-hour emergency contact shall be received prior to any work being started.

On completion of the watermain extension, as-built plans (diskette, mylar plus 3 prints) shall be submitted to the Department. The as-built plans shall include locations of service taps in the main, curb stops, gate valves, tees, caps, reducers, hydrants and blowoffs. Tie sheets shall be provided to the Department with a minimum of three oblique ties to permanent structures for each service tap in the main, curb stop, gate valve, tee, cap, reducer, hydrant and blowoff.

Construction and pressure and disinfection testing of all watermain extensions shall be inspected. Inspections shall be contracted for by the Department and paid for by the Applicant in full, upon completion of inspection and pressure and disinfection testing, before watermain extensions are activated. The Department will not accept Watermain extensions until all work has been completed, all expenses paid and as-built plans submitted.

All public watermain piping, valves, hydrants, services (within the street right-of-way) and appurtenances included with construction of watermain extensions, shall become the absolute property of the Town of Milton and the Applicant shall have no right, title or interest therein after acceptance. The Department retains the right of access for maintenance, repair and inspection of watermain extensions.

Watermain extensions shall be as approved by the Engineer.

Liability insurance shall be provided in the minimum amount of \$1,000,000 and the "Town of Milton" shall be listed as additionally insured.

Sec. 8-2. Watermain Requirements

Inspection and Testing - The Applicant shall supply the Department with certificates of compliance with these specifications and certification that each piece of ductile iron pipe has been tested at the foundry for ductility by test methods approved by the Ductile Iron Pipe Research Association.

Handling and Cutting Pipe - Care shall be taken in handling and laying pipe and fittings to avoid damaging any part of the pipe or fittings.

Any fitting or pipe showing a crack and any fitting or pipe which has received a severe blow that may have caused an incipient fracture, even though no such fracture can be seen, shall be marked as rejected and removed at once from the job site.

Except as otherwise approved, all cutting shall be done with a machine having rolling wheel cutters, or a mechanical saw. All cut ends shall be examined for possible cracks caused by cutting.

Cut ends shall be carefully chamfered to prevent cutting the gasket when the pipe is laid.

Installing Pipe and Fittings - Each pipe and fitting shall be cleared of all debris, dirt, etc., before being laid and shall be kept clean until accepted in the complete work.

The pipe shall be installed with a minimum cover 5'-0" and a maximum of 7'0". The Engineer may waive this requirement if necessary.

The deflection of alignment at a joint shall not exceed the appropriate permissible deflection as specified in the following tabulation:

PIPE DEFLECTION ALLOWANCES

Maximum permissible deflection (inches)*

<u>Size of pipe</u>	<u>Push-on Joint</u>	<u>Mechanical Joint</u>
4	17	28
6	17	24
8	17	18
10	17	18
12	17	18
14	10	12
16	10	12

* Maximum permissible deflection for 18-ft. length; maximum permissible deflections for other lengths shall be in proportion of such lengths to 18 ft.

Temporary Plugs - At all times when pipe laying is not actually in progress, the open ends of pipe shall be closed by temporary watertight plugs to keep the interior of watermain clear of dirt, water, animals and other sources of possible contaminations at all times. If water is in the trench when work is resumed, the plug shall not be removed until all danger of water

entering the pipe has been eliminated.

Pressure and Leakage Tests - All acceptance tests shall be conducted by a test company approved by the Department, in the presence of a Department representative. Scheduling with the Department shall be at least 48 hours in advance of all acceptance tests. All pipelines shall be given combined pressure and leakage tests.

The test shall be conducted as soon as possible after completion of each pipeline section, allowing at least 7 days after the last concrete thrust block has been cast (3 days with the use of high-early-strength, Type III, Portland cement).

Hydrant laterals shall be included in all pressure tests. The Applicant shall furnish and install suitable temporary testing plugs or caps; blowoffs and all necessary pressure pumps, pipe connections, meters, gages, and other similar equipment; and all labor required. The Department representative shall inspect all pressure gages prior to tests.

Filling and flushing of new mains from existing mains shall be done only at a time, rate and location approved by the Department. Operation of existing hydrants and valves shall be by Department personnel only. Flushing water shall be handled in an approved manner.

The section of pipe to be tested shall be filled with water of approved quality, and all air shall be expelled from the pipe. If hydrants or blowoffs are not available at high points for releasing air, the Applicant shall make the necessary excavations and do the necessary backfilling and make the necessary taps at such points and shall plug said holes after completion of the test.

The section under test shall be maintained full of water for a period of 24 hours prior to the combined pressure and leakage test being applied.

The pressure and leakage test shall consist of first raising the water pressure to 200 pounds per square inch, or as directed by the Department. While maintaining this pressure for two hours, the Applicant shall make a leakage test by metering the flow of water into the pipe. If the average leakage during the two-hour period exceeds a rate of 0.833 gallons per inch of diameter per mile, the section shall be considered as having failed the test.

If the section fails to pass the pressure and leakage test, the Applicant shall do everything necessary to locate, uncover, and repair or replace the defective pipe, fitting, hydrant or joint. Additional tests and repairs shall be made until the section passes the specified test.

Sec. 8-3. Disinfecting and Flushing

The Applicant shall furnish all equipment and materials necessary to do the work of disinfecting, and shall perform the work in accordance with the procedure outlined in the AWWA Standard for Disinfecting Water Mains, Designation C-651 and C-651a as amended to date. The method used shall be that described in Section 5.2 of the AWWA Standard as

amended to date.

The dosage shall be such as to produce not less than 10 ppm concentration of free chlorine after a contact period of not less than 24 hours.

Chlorine shall not be placed in mains during installation.

Chlorine shall not be left in the mains for more than 48 hours. After treatment, the main shall be flushed with clean water until the residual chlorine content does not exceed current MWRA residuals for the Town of Milton.

During the disinfection period, care shall be exercised to prevent contamination of water in existing mains.

Water used for disinfecting and flushing shall be dechlorinated prior to disposal and shall be disposed in an approved manner.

After final flushing and a 24-hour period, two consecutive bacteriological water samples shall be collected at least 24 hours apart, from the new watermain at each selected point. Spacing of samples shall not exceed 1200 feet. In addition, one sample set shall be collected from the point of water entry into the new main, at the ends of the new main, and at the ends of all branches off the new main. Hoses or hydrants may not be used for the collection of samples. Sample sites and procedures shall be reviewed and approved by the Department prior to sampling.

Consecutive sampling shall be repeated for any failure until both samples within each set meet the acceptance criteria described below.

A laboratory certified by the State and approved by the Department shall analyze the samples. A State-approved laboratory must receive samples, properly preserved, no more than 24 hours after they are taken from the main. Test results shall demonstrate that all water sampled from the watermain has a total-coliform count of zero and an increase in heterotrophic plate count of 100 per ml or less above that in point-of-entry water. In no case shall total HPC exceed 500 per ml.

Sec. 8-4. Restrained Joints

A restrained mechanical gland shall be used for all mechanical joints

Sec. 8-5. Hydrant Connections

Hydrant connections shall be 6-in minimum and of the mechanical-joint type with a maximum spacing of 500 feet. Ductile-iron restrained joints and anchor tees shall be provided

Sec. 8-6. Service Connections

Service connections shall consist of a corporation stop, curb stop, curb box, service saddle (for services larger than 1-in.), copper tubing and splicing couplings as necessary. Meter pits shall be required for services as prescribed in Section 5.10 of the Regulations

Sec. 8-7. General Construction Requirements

The following General Requirements of construction shall be required.

The Applicant shall notify Dig-Safe prior to the start of construction and shall comply with all Federal, State and Local regulations including but not limited to safety.

The Applicant shall handle groundwater in a manner consistent with all federal, state and local laws, regulations and by-laws as amended to date.

The Applicant shall restore areas disturbed by construction to "Right of Way Regulation" requirements.

The Applicant shall verify the location of underground utilities, including services, with utility owners and shall comply with their requirements for protection of utilities.

The Applicant shall immediately repair any damage to existing utilities (Town owned or otherwise) resulting from his work, at no expense to the Department.

Except where otherwise directed, eighteen (18) inch minimum clearance shall be provided between the exterior of water mains and other utilities. Where new mains pass under utilities, they shall cross without use of bends. When new mains cross an existing sewer, it shall be done without the use of bends and/or joints.

All fittings shall be backed with concrete thrust blocks as indicated on the standard details. Thrust block sides shall be formed with plywood and bearing areas shall be not less than indicated in the Appendix.

All trenches shall be rolled and/or mechanically tamped to achieve compaction in excess of 95%.

**APPENDIX A
STANDARD MATERIAL FOR WATERMAIN CONSTRUCTION**

STANDARD MATERIAL FOR WATERMAIN CONSTRUCTION

Sec. 1-1. General

The standard materials set forth are the current Department requirements for watermain construction and shall be subject to review and change periodically by the Commissioners

Sec. 1-2. Watermain Materials

All pipe, fittings, and accessories shall conform to the requirements of the latest edition of the following standard specifications as applicable:

AMERICAN NATIONAL STANDARDS INSTITUTE STANDARDS

- A21.4 Cement-Mortar Lining for Cast-Iron and Ductile-Iron Pipe and Fittings for Water
- A21.11 Rubber-Gasket Joints for Cast-Iron and Ductile-Iron Pressure Pipe and Fittings
- A21.51 Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids
- A21.53 Ductile-Iron Compact Fittings, 3-in. through 16-in. for Water and Other Liquids

Sec. 1-3. Pipe

Unless otherwise indicated or specified, ductile-iron pipe shall be at least thickness Class 52 for pipe 12-in. and smaller and at least thickness Class 51 for pipe 14-in. and larger. Pressure class pipe will not be accepted.

Fittings shall conform to the requirements of the above-mentioned ANSI A21.53 and shall have a pressure rating of 350 pounds per square inch. Unless otherwise indicated or specified, fittings shall be all-bell fittings.

Joints for push-on and mechanical-joint pipe shall conform to ANSI A21.11. Ring-type gaskets, suitable for exposure to the liquid within the pipe, shall be used. Bolts for any joint shall be of the high-strength low-alloy steel type, except as otherwise noted. All mechanical-joints shall be formed using a restrained mechanical gland.

Restrained Mechanical Gland shall be EBAA Iron's Meg-A-Lug ® retainer gland or other non-set-screw type retainer gland that will not void the warrantee of the pipe manufacturer.

Couplings shall be of cast iron and shall be Dresser Style 153, Smith-Blair 441, Baker Allcast, or approved equal products. The couplings shall be provided with high strength, low alloy, corrosion resistant bolts and nuts. All couplings shall be furnished with the pipe stop removed. Couplings shall be provided with gaskets of a composition suitable for exposure to the liquid within the pipe.

Lining and Coating - The inside of pipe and fittings shall be given a cement lining and bituminous seal coat in accordance with ANSI A21.4. Particular care shall be used to insure proper bonding of the seal coat. Lining shall be double thickness.

The outside of buried pipe and fittings shall be coated with the standard bituminous coating specified under the appropriate ANSI Standard Specification for the pipe and fittings.

Joint lubrication for gaskets shall be suitable for lubricating the parts of the joint assembly. The lubricant shall be non-toxic, shall not support the growth of bacteria, and shall have no deteriorating effects on the gasket material. It shall not impart taste or odor to water in the pipe. The lubricant containers shall be labeled with the trade name or trademark and the pipe manufacturer's name. The lubrication shall be only that recommended by the pipe and fitting manufacturers. No other lubricant is acceptable.

Sec. 1-4. Valve, Hydrant And Service Connections

Butterfly valves shall be Class 150-B and suitable for a shutoff pressure of 150 psi and shall provide drop-tight shutoff and shall conform to the AWWA Standard for Rubber Seated Butterfly Valves, Designation C504. Operators shall be totally enclosed with cast-iron case and shall open right (clockwise).

Gate valves shall be 150-lb. nonrising stem, iron-body, bronze-mounted, resilient-seated wedge type gate valves having mechanical-joint ends, and shall conform to the AWWA Standard for Gate Valves for Water and Other Liquids, Designation C509. Gate valves shall open right (clockwise).

Hydrants shall conform in design and manufacture to the latest issue of AWWA Standard C502 "Dry Barrel Fire Hydrants". Hydrants shall comply with the following:

- Main Valve Opening: 5.25 inches
- Outlets:
 - 2 - 2.50 inch hose connections
 - 1 - 4.50 inch steamer connection
- Operating Nut Size: Pentagon 1.50 inches point to flat
- Thread Type: National Standard
- Shoe: 6-inch mechanical joint (Range 6.90 - 7.10 O.D.)
- Direction of Opening: Clockwise
- Bury Length: 5.5 feet
- Sub-Seat Material: Bronze
- Model: Traffic (breakaway design)
- Color: black body, orange cap

Valve boxes shall be of rough, even-grained cast-iron and of the adjustable, slip, heavy-pattern Buffalo 64 type. The boxes shall be adjustable through at least 6-in. vertically

without reduction of the lap between sections to less than 4-in. Valve boxes shall be of North American origin.

Sec. 1-5. Service Connections

Corporation stop shall be all bronze construction with a lapped ground key and AWWA-type inlet threads and shall be Ford Meter Box Co. Model FB-1000 or Mueller Co.; Model H-15008.

Curb stop without drain shall be all bronze construction suitable for copper tubing connections and shall be Ford Meter Box Co. Model B44-444, open left, 1-in. by 1-in. or Mueller Co.; Mark II Oriseal Model H15209.

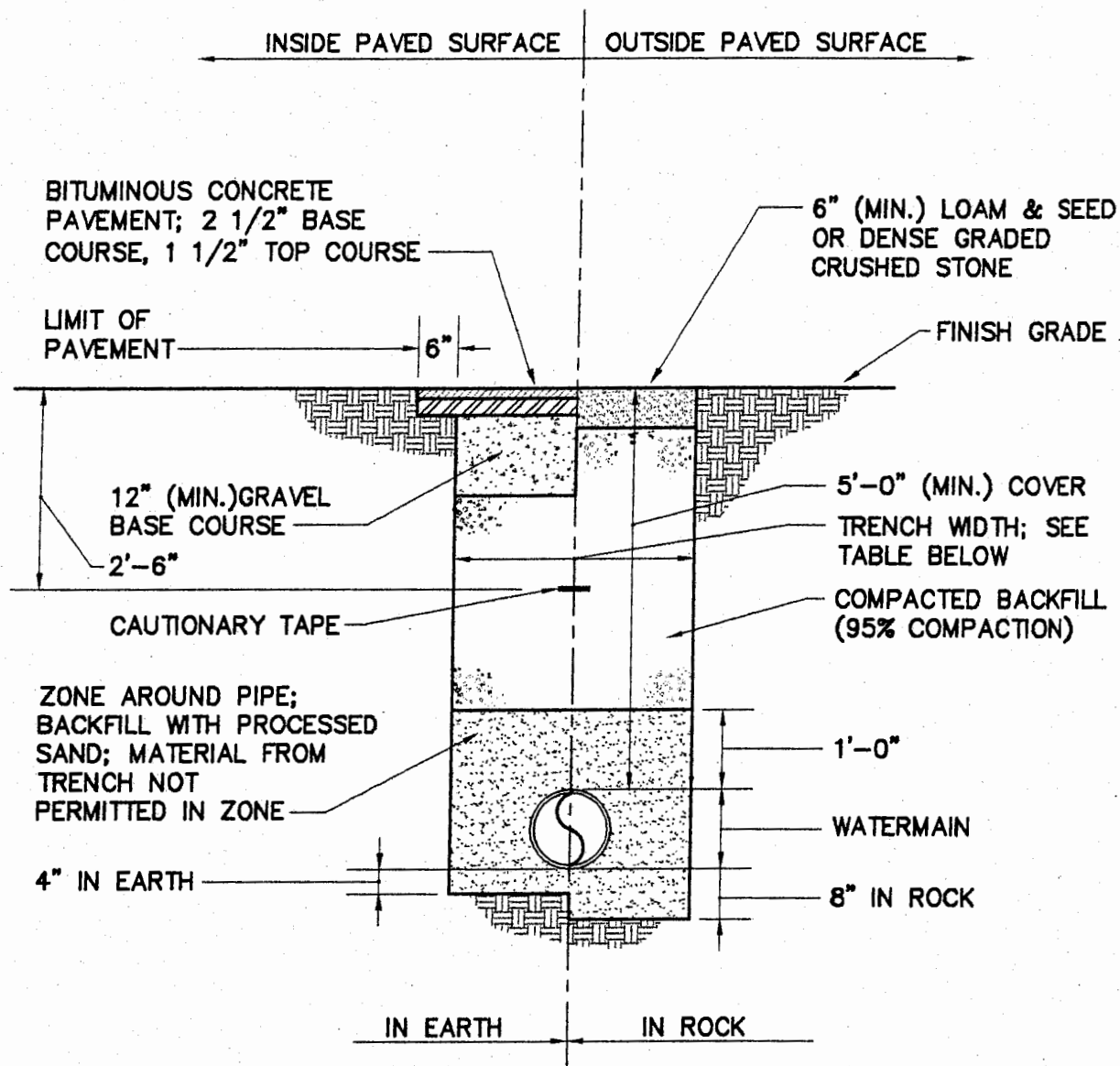
Curb box shall be of the telescoping type; tar-base enamel-coated inside and out and shall be provided without operating extension rod. The lid shall be of extra heavy cast-iron construction with brass pentagon plug. The curb box shall be a model 90 and of North American Origin.

Copper tubing shall be Type K, annealed and shall meet Federal Specification WWT-799 and ASTM B-88.

Service saddle shall be enamel coated ductile iron with double stainless bales. Saddle shall have an NBR gasket for use with potable water.

Meter Pit shall conform to AWWA Standard C800 (ASTM B-62) and shall include a Cast Iron double lid cover with an asphalt black paint conforming to ASTM A48-92, Class 25 as manufactured by the Ford Meter Box Company or an approved equal.

**APPENDIX B
STANDARD TECHNICAL DETAILS**



TRENCH WIDTH TABLE		
PIPE DIA.	12" & UNDER	16"
TRENCH WIDTH	3'-0"	3'-4"

TITLE

WATERMAIN TRENCH DETAIL



TOWN OF MILTON

DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO. WATER

DRAWING NO. 5-2003-A1

SCALE: NOT TO SCALE

SHEET NO. A-1

REV. 0

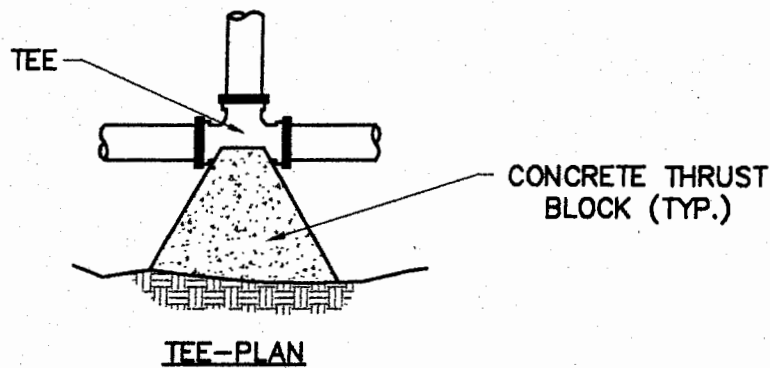
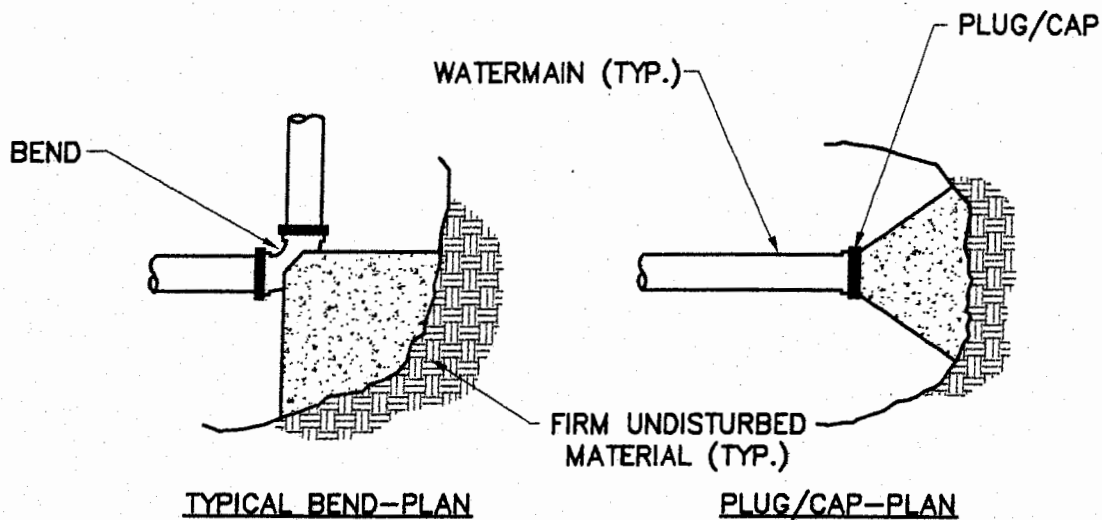


TABLE OF BEARING AREAS (S.F.)			
SIZE OF MAIN (IN.)	BENDS (90°)	BENDS (45° & UNDER)	TEES, CAPS OR PLUGS
16	22	12	16
12	12	6	9
≤8	6	3	4

- NOTES: 1. CONCRETE FOR THRUST BLOCKS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS DETERMINED OTHERWISE BY THE ENGINEER OR OWNER
2. THRUST BLOCK BEARING AREAS SHALL BE IN ACCORDANCE WITH TABLE, UNLESS DETERMINED OTHERWISE BY THE ENGINEER OR OWNER DUE TO SOIL CONDITIONS.
3. THRUST BLOCK SIDES SHALL BE FORMED WITH PLYWOOD.

TITLE

THRUST BLOCK DETAIL



TOWN OF MILTON

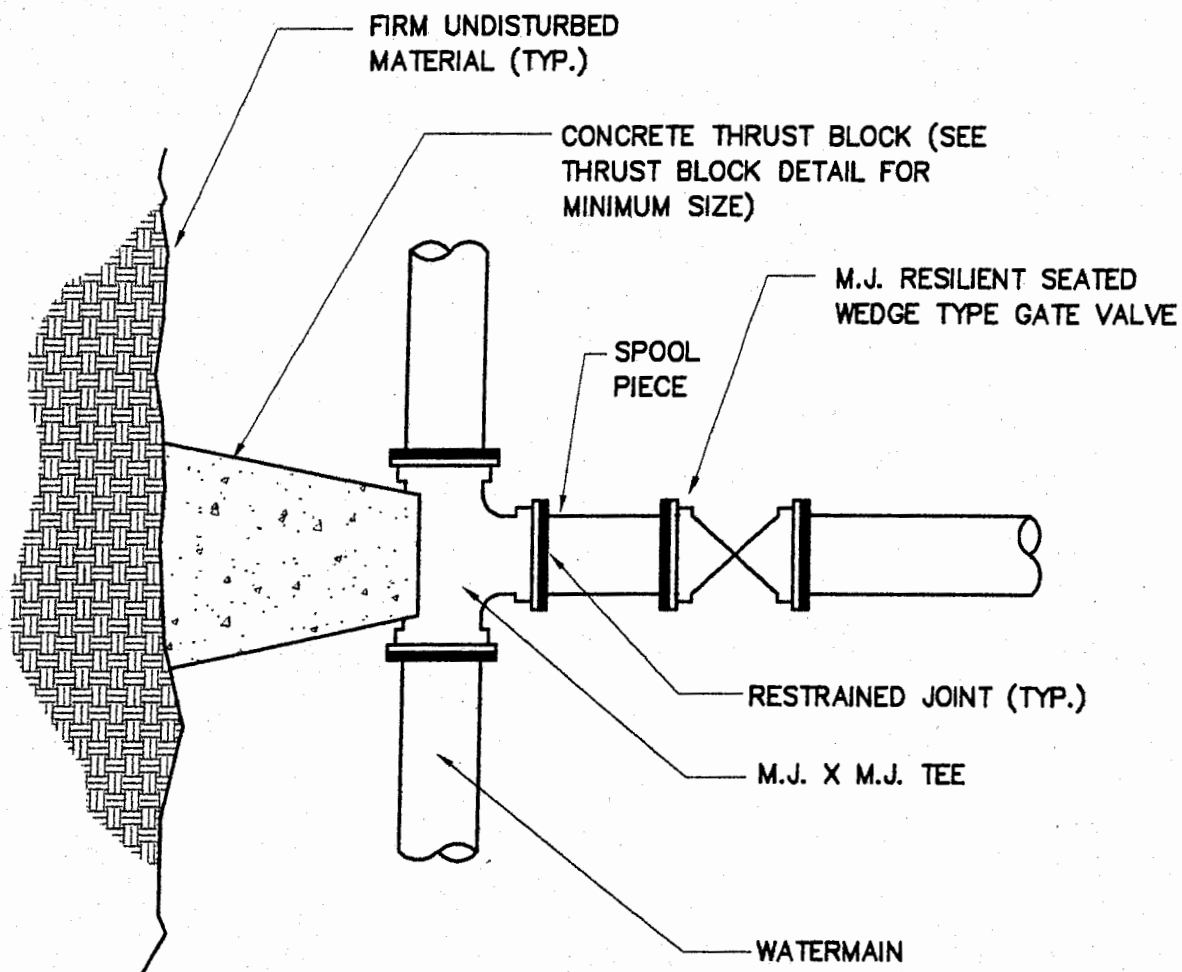
DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO. WATER	DRAWING NO. 5-2003-A2	SCALE: NOT TO SCALE	SHEET NO. A-2	REV. 0
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TITLE

GATE VALVE DETAIL I



TOWN OF MILTON

DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO.

WATER

DRAWING NO.

5-2003-A4

SCALE:

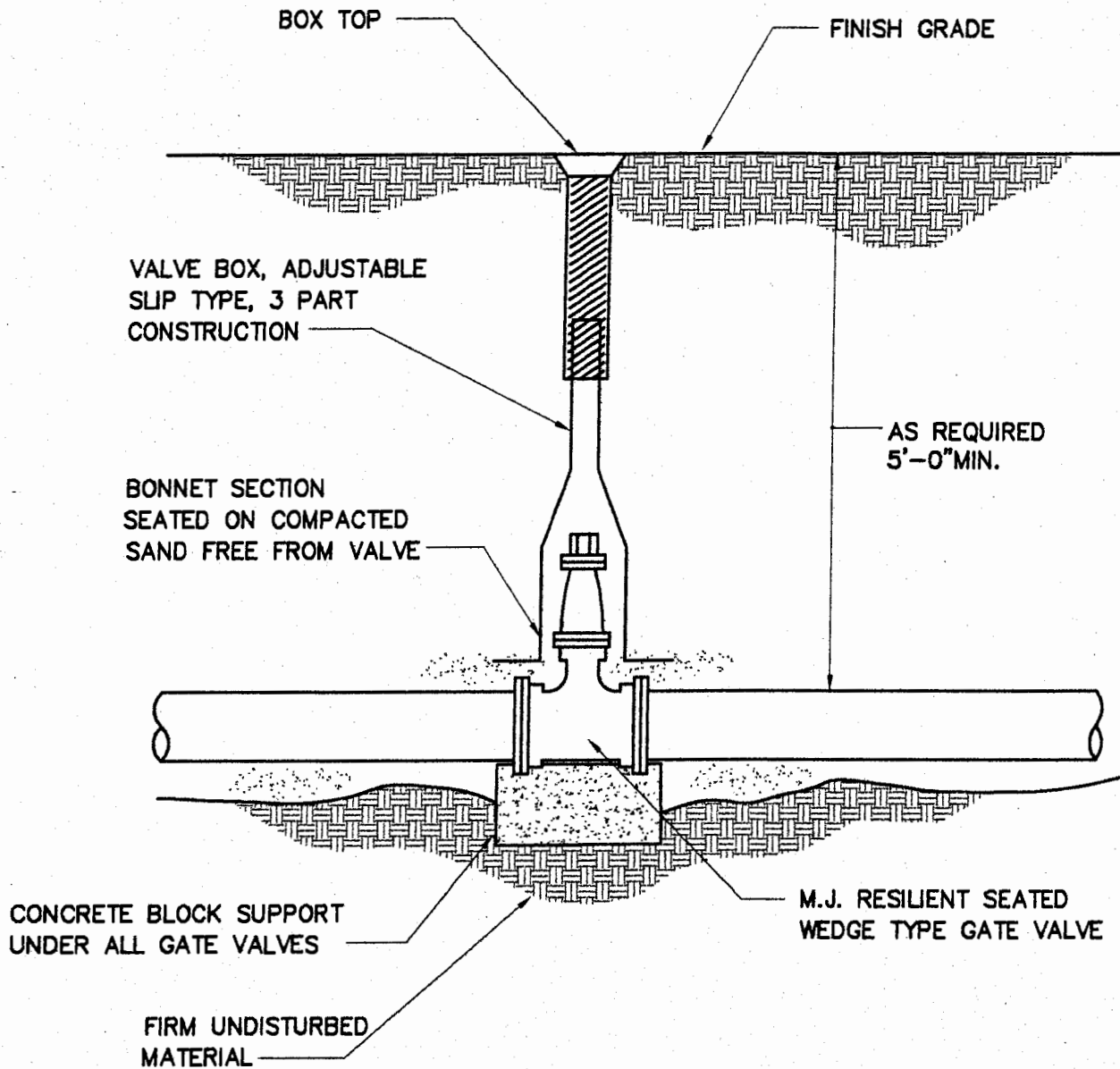
NOT TO SCALE

SHEET NO.

A-3

REV.

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TITLE

GATE VALVE DETAIL II

TOWN OF MILTON

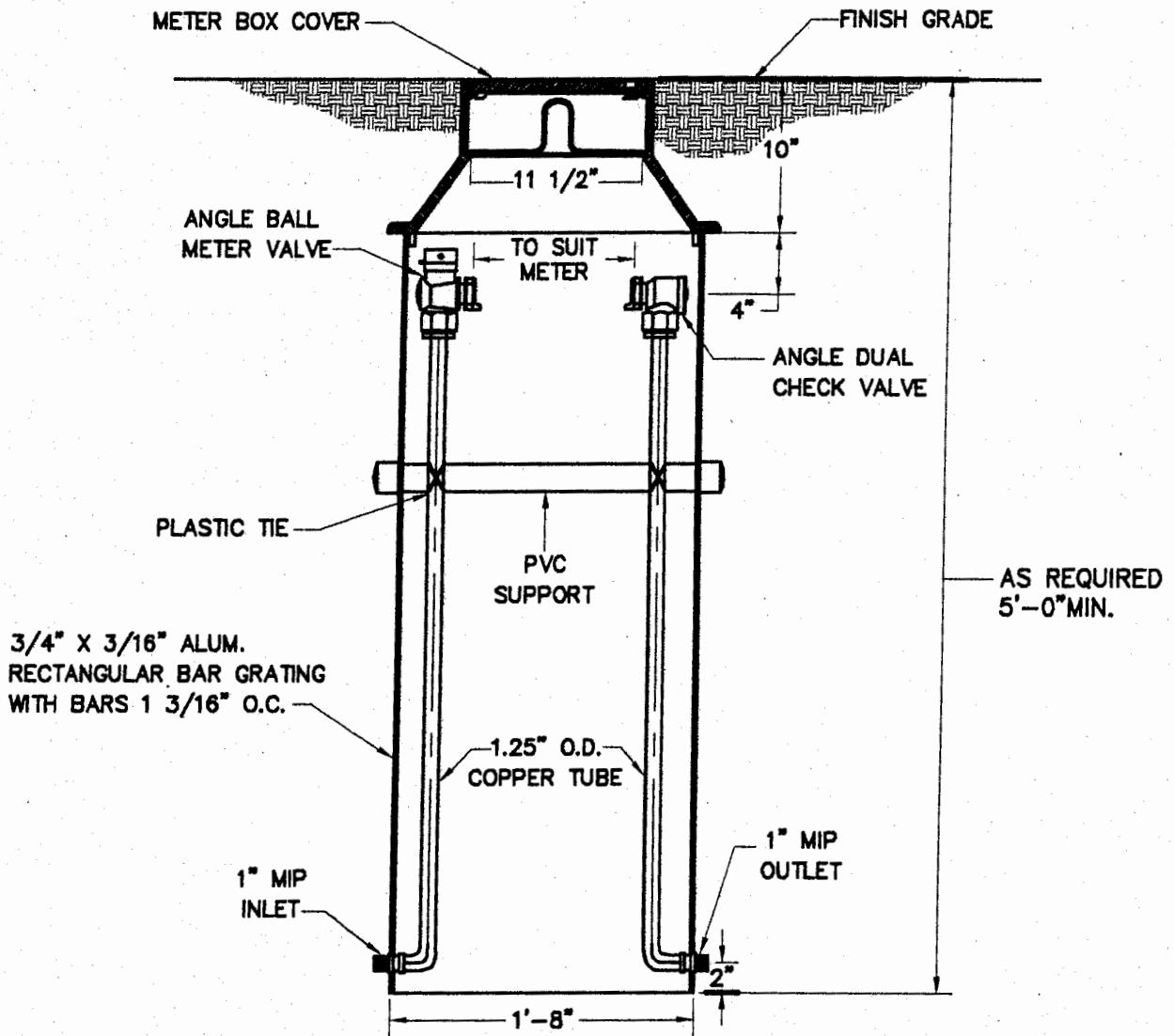
DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO.	DRAWING NO.	SCALE:	SHEET NO.	REV.
WATER	5-2003-A3	NOT TO SCALE	A-4	0



TITLE

METER PIT DETAIL



TOWN OF MILTON

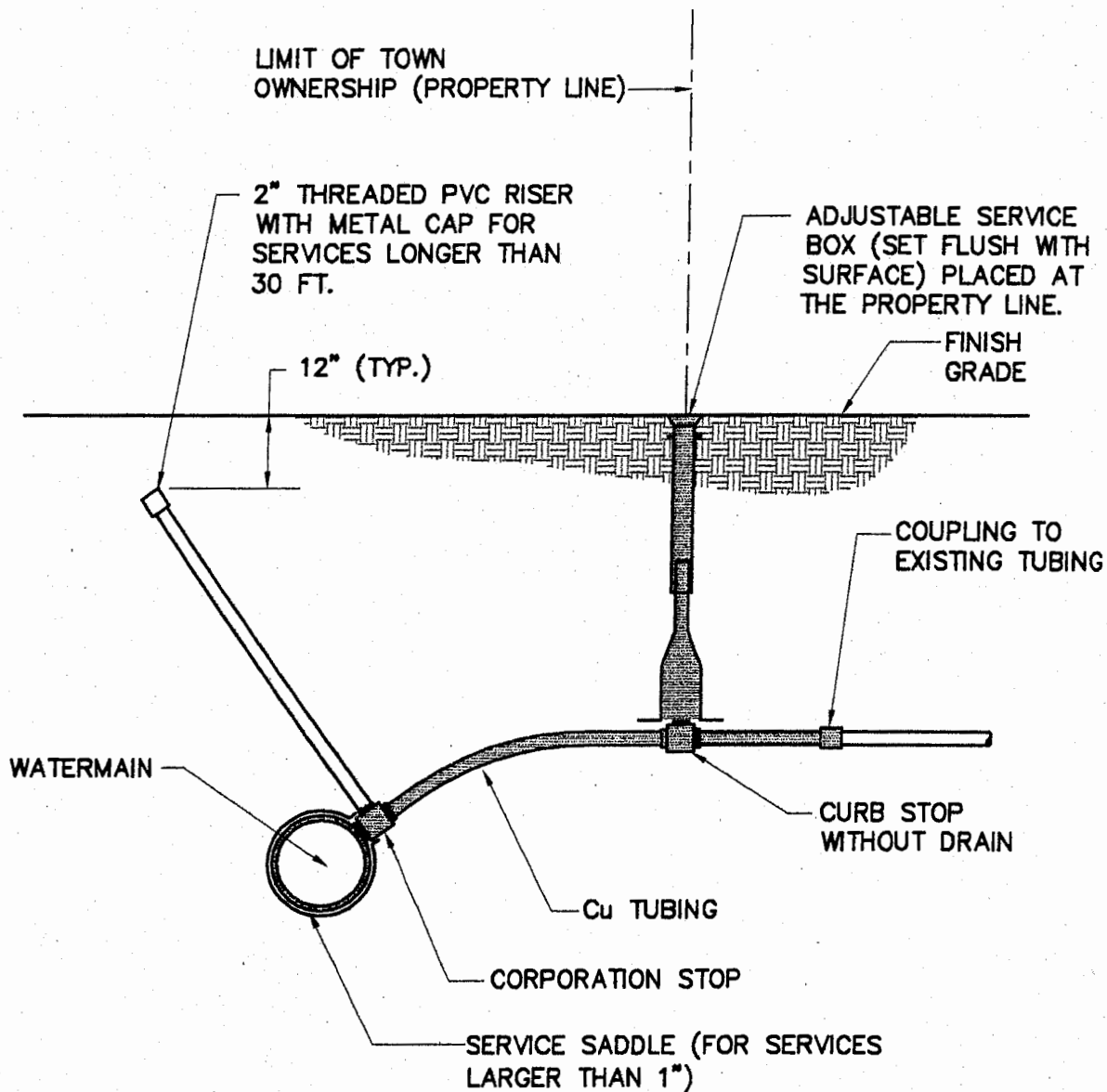
DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO.	DRAWING NO.	SCALE:	SHEET NO.	REV.
WATER	5-2003-A5	NOT TO SCALE	A-5	0



- NOTE: 1. SERVICE MATERIAL SHALL BE AS SPECIFIED IN THE STANDARD MATERIALS.
 2. SERVICES SHALL BE INSTALLED TO A 4'-6" TO 6'-0" DEPTH .
 3. SERVICES SHALL BE INSTALLED ON A MINIMUM OF 0'-6" OF SAND AND BACKFILLED WITH A MINIMUM 1'-0" SAND OVER THE TUBING.

TITLE

SERVICE CONNECTION DETAIL



TOWN OF MILTON

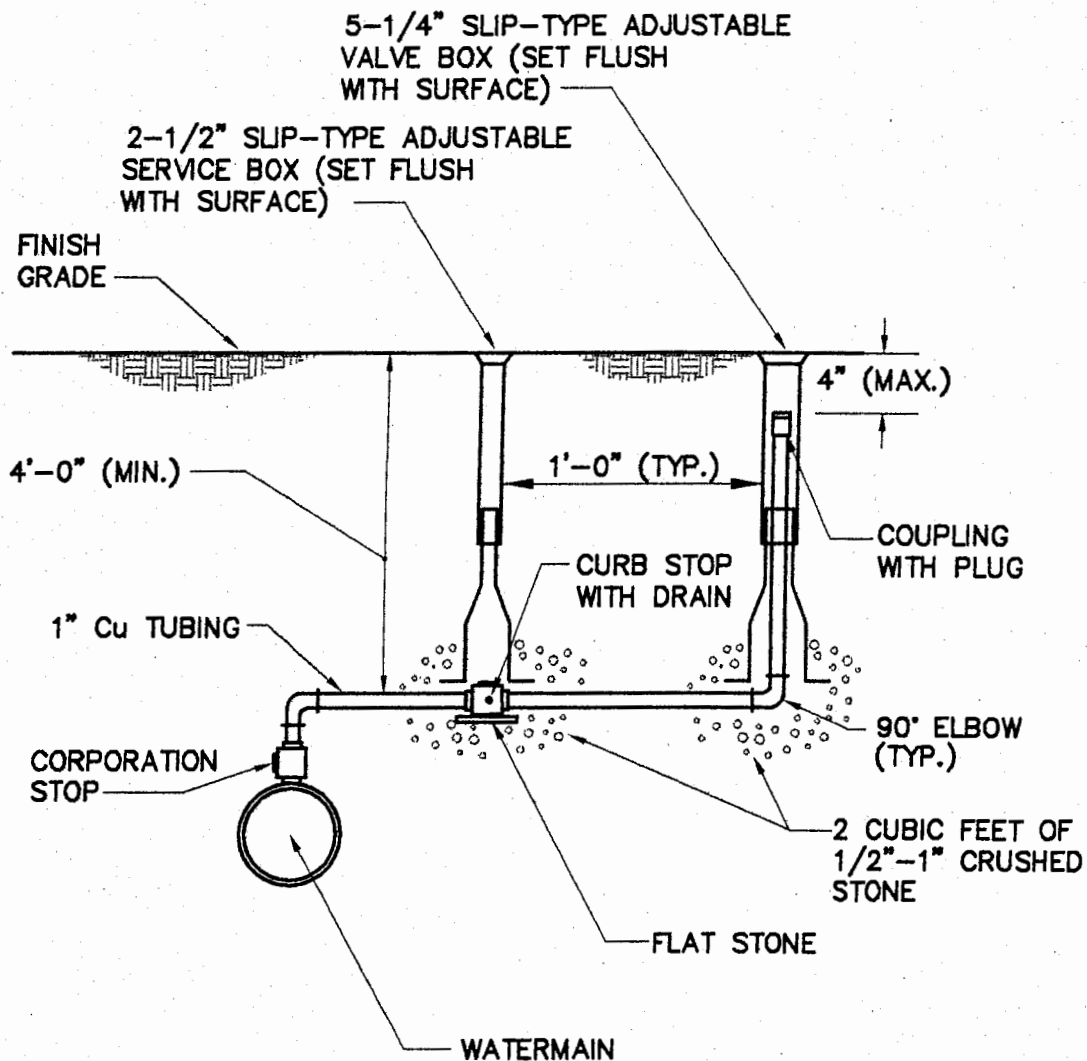
DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO. WATER	DRAWING NO. 5-2003-A6	SCALE: NOT TO SCALE	SHEET NO. A-6	REV. 0
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NOTES:

1. ALL JOINTS SHALL BE COMPRESSION TYPE.
2. COPPER TUBING TO BE BACKFILLED WITH SAND BY HAND TO 6" ABOVE TUBING.

TITLE

PERMANENT BLOW OFF DETAIL



TOWN OF MILTON

DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



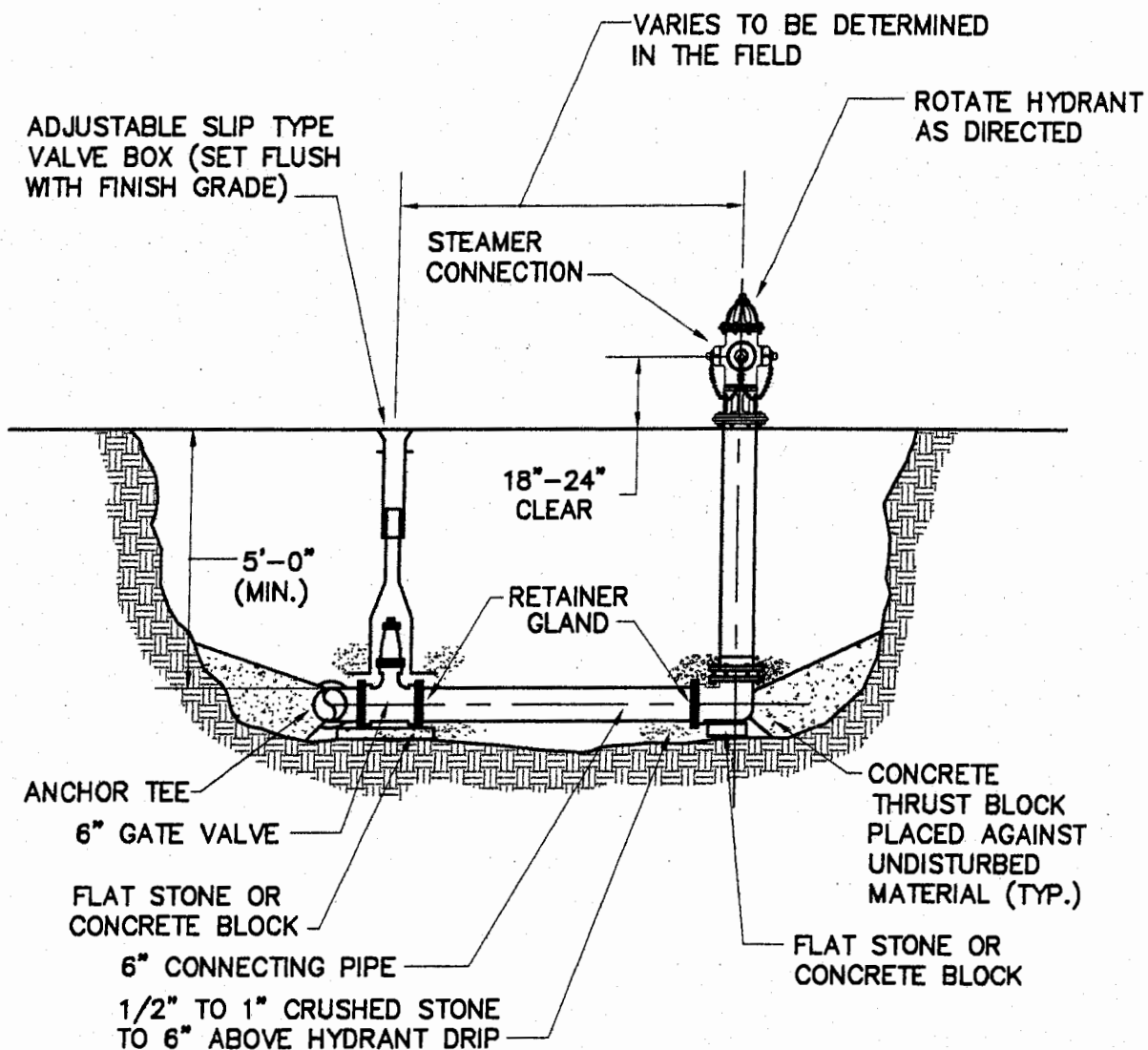
PROJECT NO. WATER

DRAWING NO. 5-2003-A7

SCALE: NOT TO SCALE

SHEET NO. A-7

REV. 0



NOTES:

1. DEPTH OF HYDRANT BURY TO SUIT INSTALLED DEPTH OF COVER OVER WATERMAIN.
2. HYDRANT SHALL MEET AWWA C502 AND HAVE STANDARD TOWN OF MILTON, MA HOSE CONNECTIONS.

TITLE

HYDRANT ASSEMBLY DETAIL

TOWN OF MILTON

DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO.
WATER

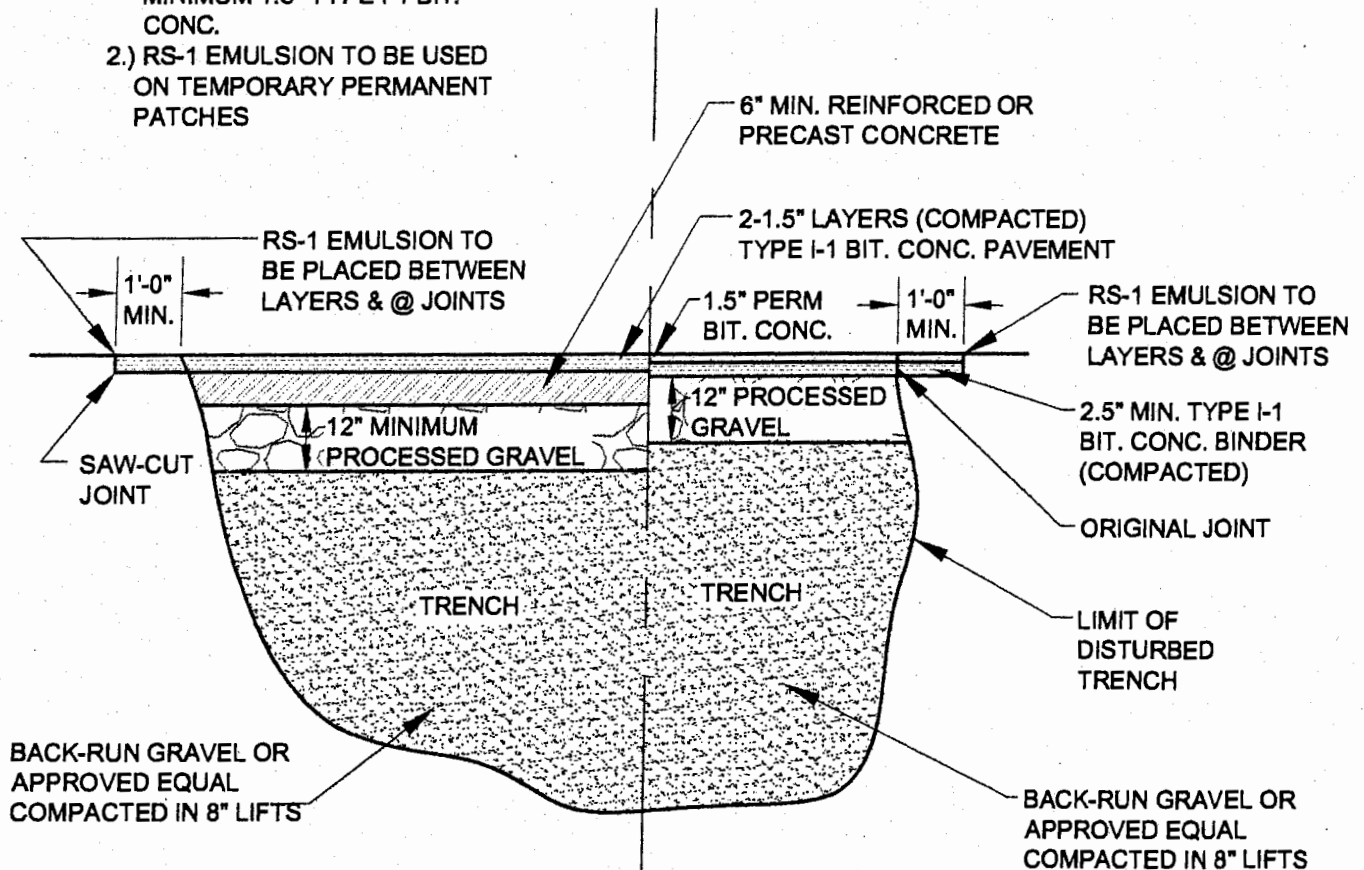
DRAWING NO.
5-2003-A8

SCALE:
NOT TO SCALE

SHEET NO.
A-8

REV.
0

- NOTE: 1.) TEMPORARY PATCH TO BE MINIMUM 1.5" TYPE I-1 BIT. CONC.
2.) RS-1 EMULSION TO BE USED ON TEMPORARY PERMANENT PATCHES



**CEMENT CONCRETE
PATCH**

ASPHALT PATCH

TITLE

TYPICAL STREET REPLACEMENT DETAIL



TOWN OF MILTON

DEPARTMENT OF PUBLIC WORKS

525 CANTON AVENUE MILTON, MASSACHUSETTS

TEL: (617) 696-5722 FAX: (617) 698-6741



PROJECT NO.

DETAIL

DRAWING NO.

5-2003-A1

SCALE:

NOT TO SCALE

SHEET NO.

A-1

REV.

A

**APPENDIX C
GENERAL PERMIT APPLICATION**

TOWN OF MILTON
General Permit Application

PW - 0100

Date: _____

APPLICANT INFORMATION

PROJECT LOCATION: _____

Contact Person: NAME _____ PHONE _____

MAILING ADDRESS: _____

Property OWNER: NAME _____ PHONE _____

CONTRACTOR: NAME _____ PHONE _____

*ENGINEER / NAME _____ PHONE _____

ARCHITECT: _____

* If developer is different from owner or contractor, both shall be listed. Name of engineer responsible for design shall also be listed.

AUTHORIZATION: In accepting this permit I/We agree to hold the Town of Milton harmless from loss, cost or damage of every name or nature arising wherefrom. I/We have read and agree to the applicable Town of Milton regulations pertaining to this application.

If owner is a corporation, there shall be attached a certificate authorizing the signatory to act on behalf of the said corporation. Said authorization shall carry the corporate seal and signature of the clerk of the corporation.

PROPERTY OWNERS SIGNATURE

DATE

CONTRACTOR'S SIGNATURE

DATE

THIRTY DAY PERMIT (check All that apply)

1. ☐ Excavation in Right of Way
2. ☐ Driveway Entrance
3. ☐ Occupy Right of Way

DIG SAFE # _____

Driveway Entrance Approval

Planning _____
Engineering _____
Building _____

UTILITY CONNECTION PERMIT (check All that apply)

- **1.** ☐ Sewer: Size and pipe material (attach sewer application)

GPD Discharge: _____

- **2.** ☐ Water: Size and pipe material

Domestic Service: _____

Lawn Service: _____

Fire Service: _____

GPD Discharge: _____

- **3.** ☐ Drain: Size and pipe material

Type: Surface Roof

GPD Discharge: _____

** Shop Drawings of proposed pipe and appurtenances i.e., Fire Hydrants, Gate Valves, Manholes and Catch Basins shall be attached and subject to approval. A utility plan stamped by a registered professional engineer and satisfactory to the Town Engineer shall also be attached.

Describe proposed work as a sketch below or attach plans to this application.

APPENDIX D
REQUIREMENTS FOR PROPOSED PLANS & ASBUILT PLANS

REQUIREMENTS FOR PROPOSED PLANS & ASBUILT PLANS

Sec. 1-1. Proposed Plans

The following specifications are minimum requirements for the proposed plan to be accepted:

- a) All elevations shall be given relative to Milton Town Base. The following elevations are required.
 - Invert of building sewer connection at the foundation wall and at the connection to the main sewer
 - Rims and inverts of town sewer manholes at each end of service connection to town sewer main
 - Basement floor and first floor of building
 - Topography of entire work area (home, sewer, water, etc.), proposed and existing contours
 - A firm benchmark will be shown on plan to check elevations
 - Plan and profile of sewer showing lengths, slopes, pipe material and diameter
- b) A sewage flow estimate is required (110 gallons per bedroom).
- c) Location of new water service and gate will be shown on plan.
- d) All town utilities will be shown on plan.
- e) Typical details of trench and structures.
- f) French drains and dry wells will be shown on plans.
- g) Pipe Material: An individual sewer service shall be a minimum of six (6) inches in diameter, pressure-fitted, type SDR, Polyvinylchloride (PVC) pipe or ductile iron (class 52). Fittings and pipes shall conform to ASTM standard specifications and Town specifications.
- h) The following shall be noted on the plans in the note section of the plans being submitted:
 - Minimum pitch is 1/4-inch (2 %) per foot for sewer service (max 8 %)
 - All sewer services shall run in a straight line, any change in direction requires a clean-out or manhole
 - There shall be a minimum of 4' of cover above sewer service or if minimum cover can not be used, pipe will be insulated
 - A clean out is required 10 feet outside of building. Pipe will be PVC schedule 40 or ductile iron within 10 feet of the building.
 - Eight inch and above mains will be independently pressure tested and manholes will be independently vacuum tested
 - Castings and covers will be town specification (LeBaron).
 - Doghouse manholes can **not** be used.
 - All pipes, joints and structures are watertight. No cement mortar joints

- will be permitted
- Manholes will be cored for pipes
- Top of cesspool will be crushed and cesspool will be filled with gravel
- Metallic tape will be used one foot above service
- All chimney connections shall be encased in concrete
- Water service is a minimum 10 feet from sewer
- Any deviations from plan and specifications, drain layer will call professional engineer and Milton Engineering Department
- i) The following note shall be on plans in its entirety:
 - "A preconstruction meeting with the Milton Engineering Department, design engineer and contractor will occur prior to construction of sanitary sewer."
 - "The Contractor shall not backfill any portion of the sewer trench until the pipe and manholes have been inspected and approved by the Milton Engineering Department or their designated representative."

Note ~ If the proposed site is within 100 feet of wetlands or within 200' of a perennial stream an Order of Conditions must be obtained from the Milton Conservation Commission and the wetlands boundary and buffer zone must be shown on the plan.

Sec. 1-2. Asbuilt Plan

The following specifications are minimum requirements for as-built plan to be accepted.

- a) Plan and profile of all sewer services (lengths, slopes, rims, inverts, etc.).
- b) Location of any manholes, water gates, utilities, cesspools, french drains, etc.
- c) Location of all new installations and material of manholes, wyes, 3-way tees, bends and other appurtenances.
- d) Swing ties shall be used for all sewer and water appurtenances (sewer clean outs, bends, water gates, etc.)
- e) Length to service connection from nearest manhole.
- f) Invert elevation of all sewer services at the manholes, house and clean outs.
- g) Depth of sewer service, clean outs and connections.
- h) Size and type of all pipes, manholes, etc.
- i) Show all utilities encountered. If damaged, show a detail on the repair.

Note ~ If any testing was required, all test results shall be submitted with the asbuilt plan.

APPENDIX E
WATER REGULATION FEE SCHEDULE

Town of Milton
Department of Public Works
Description of Fees

General. It is the stated purpose of these fees to obtain from applicants full cost recovery. Processing applications, providing inspections and reviewing plans is a costly and labor intensive activity. The role of the Department of Public Works is to insure that permits are given lawfully, that the publicly owned infrastructure is protected and that all work in the public way is done in a safe and complete manner. The Department of Public works processes and issues the following types of permits:

- Street Opening/Excavation
- Sidewalk Opening/Excavation
- Curbing removal/cut
- Street or Sidewalk Occupancy
- Sewer Connection
- Drain Connection
- Water Connection

Application Fee. An application fee is charged for each permit issued by the Department. The fee is to cover the administrative cost of processing an application including clerical time, engineering review and field operations review. The application fee is due at the time of application and is not refundable. It is estimated that application review requires between two and eight hours of combined staff time to review.

Inspection Fee. An inspection fee is established to cover the cost of engineering and field personnel involved in the inspection of work within the public way. The Department of Public Works is responsible for insuring that work is done in accordance with specifications, which have been established to protect the Town's investment in a public works infrastructure. The inspection includes both field observations of the actual work as well as review of as built drawings by engineering personnel.

Connection Fee. A connection fee is charge to recoup the Town's capital investment in the provision of its infrastructure. New connections benefit from the investment by the users of the system in its capacity. The ability of a system to accommodate new users is at a cost to which the user/investors are entitled.

**Town of Milton
Department of Public Works
Schedule of Fees**

Application Fee **\$75.00**

(non refundable)

For each new sewer, water,
street opening, second curb
cut or street/sidewalk occupancy
permit. Due at time
of application.

Inspection Fee

For each new sewer, water or
Drain connection. **\$500.00**

New Connection Fees:

Sewer	\$1,000.00 per equivalent unit (see attached)
Sewer Mitigation	\$4,000.00 per equivalent unit (see attached)
Water	\$1,000.00 per inch of connection size plus cost of meter at Town bid price.
Drain	\$10.00 per 25 sq feet of impervious surface

Deposits:

Sewer, Water and Drain \$2,500.00 each

Refunded upon satisfactory completion of work and submission of as built plans
to the Town Engineer.
