

Town of Arlington
Water & Sewer Division
51 Grove Street
Arlington, MA 02476
(781) 316-3000 ext. 3310
FAX (781) 316-3309

SEWER, WATER & DRAIN REGULATIONS AND SPECIFICATIONS

General Work Rules:

1. No work shall be started before 8:00 a.m.
2. No work shall be done on Saturdays, Sundays, or Holidays observed by the Town of Arlington except in the case of an emergency.
3. All water, sewer, and drain construction work must be completed by a contractor licensed by vote of the Select Board to complete such work by the Town of Arlington.
4. All underground water, sewer, and drain construction work must be inspected by the Water & Sewer Division prior to being backfilled. Inspections shall be requested a minimum of 24-hours prior to the start of work and can be requested from the Water & Sewer Division between the hours of 8:00 a.m. and 2:00 p.m. by calling 781-316-3310 or 781-316-3106. Upon receipt of a request, the Water & Sewer Division will provide a 2-hour window during which the inspection will occur.
5. An approved Street Opening Permit must be issued by the Engineering Division before any work is started except in the case of emergency as approved by the Water & Sewer Division.
6. The Contractor is responsible for the coordination of Police Details and Road Safety for any work completed within the roadway right-of-way.
7. The Contractor must identify a Competent Person who understands and can enforce OSHA excavation requirements.
8. Pipe bed material for water, sewer, and drain construction work shall be new and as specified in the following sections. Backfill material placed above bed material shall also be new and shall be "3-inch minus" gravel. Existing material shall be removed and disposed of by the contractor.
9. The Contractor is responsible for the restoration of all excavations to the sidewalk or road to the satisfaction of the Engineering Division. Excavations must be patched within 24-hours of completion of the work. Sidewalks must be restored with the same material as the pre-existing sidewalk. Any existing concrete sidewalk panels that are disturbed, damaged, or otherwise impacted by the work must be removed, disposed of, and replaced with a new concrete pour. If restoration of concrete sidewalk is not feasible at the completion of the work, such panels shall be patched with temporary asphalt and the concrete restoration completed no later than one (1) week from the completion of work unless otherwise approved by the Engineering Division.
10. Applications and permit fees for the work covered by these regulations can be found online at <https://www.arlingtonma.gov/departments/public-works/engineering/street-occupancy-trench-permit-application>, or by contacting the Engineering Division office at (781) 316-3320.
11. The Water & Sewer Division Superintendent, or their designated representative/inspector, shall have the authority to enforce these specifications and shall have final say on all interpretations of said specifications.
12. All protective devices, check valves and back flow devices shall be installed as needed and inspected in accordance with CMR 310-22.00.
13. Anything not outlined in these specifications will be subject to the review and approval of the Water & Sewer Superintendent, the Engineering Division, or their designee.

SEWER

Residential Sewer Service Connection:

Min. Pipe Diameter (single sewer structure)	6-inch
Min. Pipe Diameter (more than one sewer structure)	8-inch
Pipe Material	PVC
Min. Pipe Thickness Classification	SDR 35
Min. Pipe Cover	4-feet
Min. Pipe Slope	2%, ¼-inch per foot
Min. Horizontal Separation from Water Service	10-feet
Pipe Bedding Material	¾-inch crushed stone
Pipe Bedding Thickness	6-inch below and above pipe
Min. Vertical Distance Below Water Service	18-inches
Max. Distance Between Cleanouts:	100-feet
Max. Bend Without Cleanout	22°
Depth of Cleanout (deeper requires a manhole)	5-feet
Cleanout at Building Exterior	Required
Manhole at Junction of 2 or more Services	Required
Max. Length of Service Without Manhole	200-feet
Max. Bend Without Manhole	45°
Min. Distance between Bends	10-feet
Min. Manhole Inner Diameter Outside Town ROW	2.5-feet
6-inch Service Connection to Vitrified Clay Town Main	Cut in Wye
6-inch Service Connection to Asbestos Cement Town Main	Wye to Saddle
8-inch Service Connection to Town Main	Manhole
Design Sketch	Required with Permit Application
Professional Engineer Design for Service Length >250-feet	Required
Certified "As -Built" Plan for Service Length > 250-feet	Required
Pressure Test for Service Length > 250-feet	Required

Notes:

1. For all new sewer services, all underground piping from the structure/building up to and including the physical connection at the Town Main must be installed to Town Standards, and must comply with State Plumbing code within 10-feet of the building.
2. For all sewer service renewals or repairs, the existing services shall be brought to current Town Standards to the extent possible. For existing clay services, this shall mean replacement to the physical connection at the sewer main. Asbestos Cement services may be left in place unless directed otherwise by the Water & Sewer Division or the Engineering Division.
3. Applicants proposing to install sewer services which crossover parcel boundaries must furnish proof that the proper easements have been obtained.

Sewer Pump & Forced Main Connections:

Approval by Engineering Division	Required
Professional Engineer Design	Required
Certified "As-Built" Plan	Required
Min. Pipe Cover	4.5-feet
Flushing Manhole(s)	As Required By Engineering Division

Extension of Town Sewer Main:

Min. Pipe Diameter	8-inch
Pipe Material	PVC
Min. Pipe Thickness Classification	SDR 35
Pipe Bedding Material	¾-inch crushed stone
Pipe Bedding Thickness	6-inch below pipe, to top of pipe
Max. Distance Between Manholes	300-feet
Min. Cover Over Pipe	4.5-feet

Min. Design Flow Velocity	2 fps
Design by Professional Engineer	Required
“As-Built” Plan	Required
Pressure Testing	Required
Min. Horizontal Separation from Water Main	10-feet
Min. Distance Above Water Main	18-inches
Sewer Manhole Frame & Cover	LeBaron LT 105 or Approved Equal

WATER

Residential Water Service Connections:

Min. Cover Over Pipe	4.5-feet
Pipe Bedding Material	Sand
Pipe Bedding Thickness	6-inches below and above pipe
Tubing Material	Type K Copper
Min. Tubing Diameter	1-inch for new services ¾-inch for renewals (match existing)
Min. Horizontal Separation from Sewer Service	10-feet
Min. Distance Above Sewer Service	18-inches
Curb Stops	Open right ball valves rated 300 psi and AWWA approved
Corporations	Open right ball valve type rated to 300 psi and AWWA approved
Service Boxes	Slide type, Buffalo style

Notes:

1. For water service renewals or repairs, the existing services shall be brought to current Town standards to the extent possible. For existing services of material other than copper, or for pipes larger than ¾-inch, this shall mean replacement to the curb box.
2. Contractor must notify the Water & Sewer Division immediately if lead services are encountered between the Town Main and the curb box.
4. Where an existing service is being replaced to the main, the old service shall be capped at the main. See note below regarding abandoned water services.
5. Services taps for water services larger than 1-inch diameter will require a saddle and are subject to the approval of the Water & Sewer Division.
6. The Town no longer supplies water service tubing/pipe of any size. The Contractor is responsible for procuring and supplying all tubing/pipe required to complete their work.

Water Service Abandonment:

Abandoned Corporation Stops must be wrapped at the main with a stainless steel corporation cap.

Extension of Town Water Main:

Min. Pipe Diameter	8-inch
Pipe Material	Double Cement Lined Ductile Iron
Min. Pipe Thickness Classification	Class 52
Pipe Bedding Material	Sand
Pipe Bedding Thickness	6-inch below pipe, 12-inch above crown
Gate Valves	200-psi resilient wedge AWWA Approved
Hydrants	Waterous
Valve Box Top	Heavy duty; 2-foot recessed top flanged; manufactured by Quality Water Products or approved equal
Valve Box Lid	Heavy duty; solid interface between lid and top without fluted or scalloped design; Manufactured by Quality Water Product or approved equal
Valve Box Base Section	Belled type
Valves and Fittings	Secured with mechanical joint with restraint wedge action retaining gland (mega lug)

STORM DRAIN

Drain Connections:

Approval by Engineering Division	Required
Pipe Material (gravity)	RCP or PVC
Pipe Material (force main)	PVC or HDPE
Min. Pipe Diameter (gravity)	8-inch
Min. Pipe Cover (gravity)	2.5-feet
Min. Pipe Cover (force main)	4.5-feet
Min. Slope	1%
Min. Pipe Thickness Classification (gravity)	Class V or SDR 35
Pipe Bedding Material	¾-inch crushed stone
Pipe Bedding Thickness	6-inch below and above pipe
Sketch Showing Elevations and Drainage Area	Required
Manhole at Connection to Town Main	Required

Extensions of Town Drain:

Pipe Material	PVC or HDPE
Min. Pipe Diameter	12-inch
Min. Pipe Cover	2.5-feet
Min. Design Flow Velocity	2 fps
Pipe Bedding Material	¾-inch crushed stone
Pipe Bedding Thickness	6-inch below and above pipe
Drain Manhole Frame & Cover	LeBaron LT 105 or approved equal
Catch Basin Frame & Gate	LeBaron LF 248-2 or approved equal