

YORKTOWN CONSOLIDATED WATER DISTRICT

1080 Spillway Road, Shrub Oak, NY 10588

Telephone: 914.245.6111

Fax: 914.245.8422

Application and Plans for Backflow Prevention Devices

Must Include the Following:

1. The original signature of the Engineer and the Owner on all the application forms.
2. Letter authorizing work to be performed.
3. An address on the plans where the device is to be installed.
4. Plot plan of building.
5. Location of service line entering building.
6. A backflow prevention device from the list approved by the New York State Department of Health.
7. If RPZ device, show where the drainage will go.
8. Ball valves on both ends of backflow prevention devices up to 3" in diameter.
9. Resilient wedge or resilient seated valves on both ends of backflow prevention devices 3" in diameter and larger.
10. The backflow prevention device is to be installed after the water meter and as close to it as possible, allowing for adequate space for service or removal of both device and water meter.
11. All water meters, including those in detector check lines, must be Rockwell (Sensus) with a remote touch read head to read in thousand gallons. A pressure regulator is required to be installed before the meter.
12. All water meters greater than 1 1/2 " must have a bypass equipped with a (Sensus) touch read meter to read in thousand gallons, and wired to the outside. **Do not** bypass backflow preventer!
13. Provision for lighting.

14. Provisions for heating backflow prevention device or, at least, keeping it from freezing.
15. Must submit five (5) copies of all drawings and forms.
16. A Professional Engineer's seal on all drawings.
17. A check in the amount of \$110 per device made payable to the Town of Yorktown Water District.

NOTE: Backflow prevention devices are not to be installed without written approval from both the Westchester County Health Department and the Yorktown Water District.

A list of approved backflow assemblies can be obtained from the NYS Department Health website at:
<http://www.newyorkhealth.gov/environmental/water/drinking/cross/cross.htm>

**REQUEST TO INSTALL AND COMPLETED WORKS
FOR A BACKFLOW PREVENTION DEVICE**

REQUEST TO INSTALL A BACKFLOW PREVENTION DEVICE

Description: Prior to the installation of a backflow prevention device, approval must be secured from the Westchester County Department of Health.

Applicable Codes: Part 5, Subpart 5-1 Section 5-1.31 of the New York State Sanitary Code and Chapter 873, Article VII, Section 873.707.1 of the Laws of Westchester County, NY.

Fees: Chapter 873, Article XXI, Section 873.2117 of the laws of Westchester County, NY.

Applicants should contact their local water purveyor to determine the required type of backflow prevention device for their facility. A completed application packet must be submitted to the water purveyor for their original endorsement and signature. Once signed, the water purveyor will forward submittal to the Westchester County Department of Health (WCDOH) for review and approval.

Submittal: When requesting approval of a project pursuant to the above provision, the following list serves as the minimum filing requirements:

- (1) A completed Form DOH 347 *Application for Approval of a Backflow Prevention Device*, plans, Engineer's Report, and specifications, in quadruplicate, are forwarded to the local water purveyor who in turn forwards the submittal to the Westchester County Department of Health. Plans and Engineer's Report must bear the original seal and original signature of a design professional (Professional Engineer or Registered Architect, licensed and registered in the State of New York).
- (2) Application fee of \$ 150.00 per device. Check should be made out the Westchester County Department of Health
- (3) A separate application is required for each backflow prevention device.
- (4) A completed Certification of Resolution (if the owner is a corporation).
- (5) Letter of Authorization which authorizes the design professional to file applications on behalf of owner.
- (6) The design professional's report must include the service water demand and a statement that the proposed device is capable of satisfying this demand.
- (7) All plans must be prepared pursuant to Title VIII, Article 142, Section 7209.2 of the New York State Education Law and bear the warning statement.
- (8) Piping for the device(s) must be shown in plan and profile views, clearly labeled, dimensioned and detailed.
- (9) Bypass piping without cross-connection protection is prohibited. If a bypass is necessary, a backflow prevention device must be installed on such.
- (10) The backflow preventer must be installed a minimum of thirty inches (30") above the floor level or eighteen inches (18") from the floor to the bottom of discharge port (whichever is greater). Devices must be installed so that there is access for servicing and testing. Any devices installed at greater than 5'-0" off the floor must include an OSHA approved safety platform for test procedures, and this must be noted on the drawings. A device cannot

be installed closer than twenty-four inches (24") from a ceiling or any vertical obstruction(s).

- (11) A minimum of twelve inches (12") of clear space shall be maintained above the shut off valve.
- (12) A minimum of thirty inches (30") is required in front of the backflow preventer. A minimum of eight inches (8") is required behind the backflow preventer. Devices in parallel must be thirty inches (30") apart.
- (13) Vertical installation of backflow preventers will be accepted if the device is approved by the State for that type of configuration. The flow direction must be denoted on the plans.
- (14) Reduced Pressure Zone (RPZ) Devices must be installed with an air gap. The air gap shall be twice (2x) the diameter of the discharge (relief valve) port. The air gap and discharge port size must be clearly noted on the drawings. All waste discharges must drain in general to a sanitary sewer or disposed of in an approved manner, which will be reviewed on a case-by-case basis. When the discharge pipe is to be connected directly to a sanitary sewer line, a P-Trap and Backwater Check Valve must be provided.
- (15) RPZ discharge piping and receptacles must meet the sizing criteria as delineated in the *supplement to the 1981 CROSS-CONNECTION Control Manual* for catastrophic failure. If this is not possible, then a discharge sensor, alarm, and automatic shutoff valve may be considered as a special circumstance by the Department of Health. All special circumstances are reviewed on a case-by-case basis.
- (16) Adequate provisions must be made for heat and light and such shall be clearly noted on the plans.
- (17) Valves must be situated on both sides of the backflow prevention device. A strainer must be placed on the feed side of all devices other than fire services utilizing Double Check Valves (DCV). These items must be clearly noted on the plans.
- (18) Site plan showing building address, building locations, cross streets, northern direction, water service and water main size and location, and device location within the premises is required.
- (19) If a building or facility has more than one backflow preventer, they may all be included on one plan, provided they are clearly located and identified. If they are all of the same make, model, and size, one typical detail may suffice, otherwise a separate detail for each shall be provided.
- (20) **For Devices Installed in Pits:** A pit must be capable of being drained by gravity to grade (daylight). The discharge piping must be of sufficient size and set at adequate grade to take the entire discharge of the RPZ. The discharge pipe shall be adequately supported and equipped with flap valve and screen to prevent the entrance of cold air, small animals and rodents and must discharge to a non-pedestrian area. The plans must clearly indicate that discharge to the outside is to a non-pedestrian area.

Design Approval Criteria

- **Application**
- **Site Plan** – (to scale or w/dimensions) of facility containing:
 - General Location Map
 - Name and address of facility
 - Property line
 - Buildings
 - Size and location of public water mains
 - All fire and domestic water services
 - Meter Pit
 - Yard piping and hydrants
 - Pumper connection(s)
 - Interconnection(s)
 - Proposed location of back-flow preventers
 - Designers stamp and signature
- **Plumbing Floor Plan** – (to scale or w/dimensions indicated from walls and nearby objects)
Plan view or partial floor plan indicating:
 - Water Services
 - Name and address of facility
 - Water meter layout
 - Proposed back-flow preventer(s)
 - Booster pump system(s)
 - Floor drain(s)
 - All nearby objects (electrical panels, boilers, chillers, storage tanks, fire pumps, fire sprinkler risers, etc.)
 - Designers stamp and signature
- **Vertical Cross-Section(s)** – of the proposed installation with elevations from the floor, ceiling, outside grade and all nearby objects.
 - Designers stamp and signature
- **Engineer's Report** – The report shall include:
 - General use of water in the facility
 - Size and descriptions of all fire and domestic and water services
 - Number of floors within the facility
 - Actual or estimated maximum flow demand
 - Pressure – existing and after the installation of back-flow preventers
 - Description of fire fighting facility – indicate the AWWA manual M-14 class of sprinkler service
 - Description of the proposed installation of the back-flow preventer with the location, drainage, lighting, heating, access to the unit, square footage of the floor level where the back-flow preventer is to be located

RPZ

INSTALLED WITHIN A FACILITY

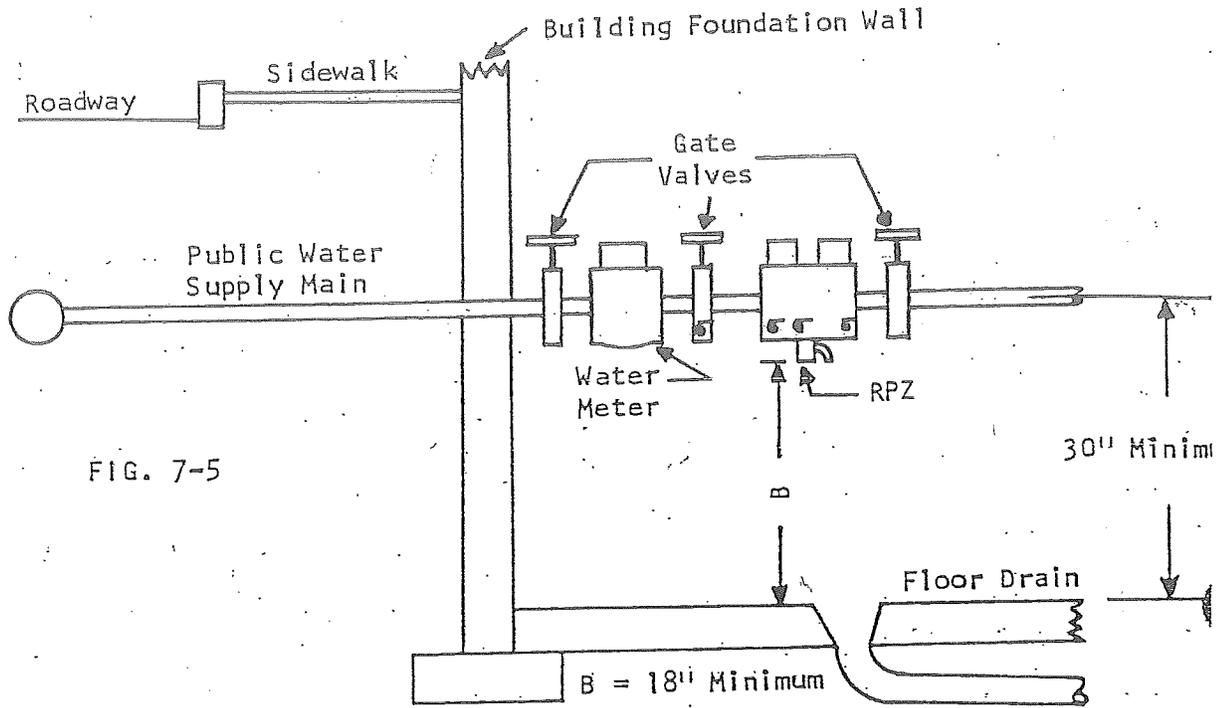
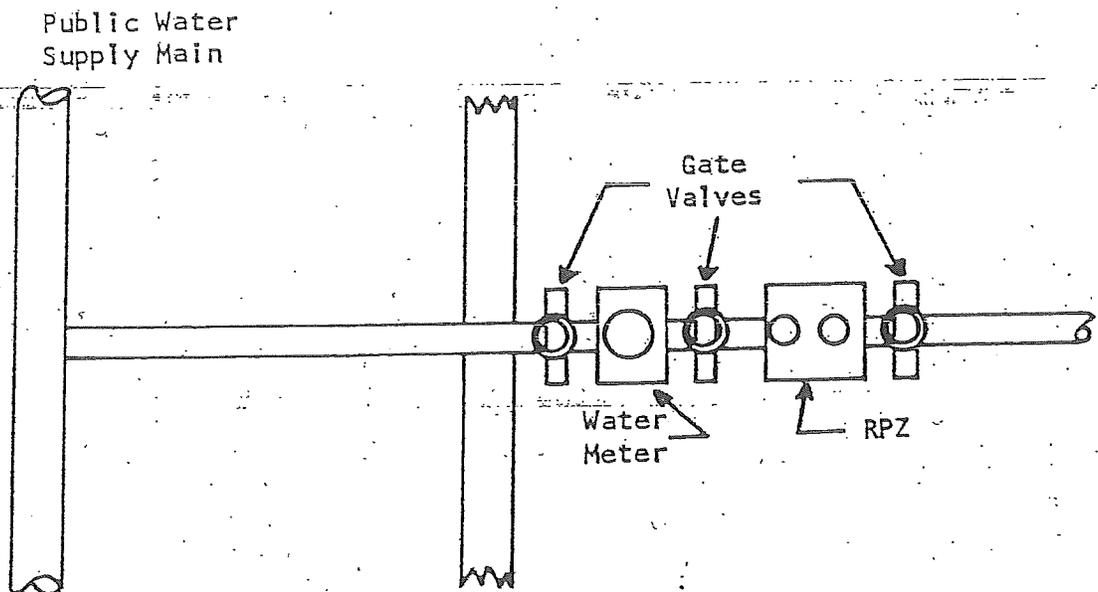


FIG. 7-5

NOTE: Device to be installed above highest possible flooding



DCV Installed
Within a Facility

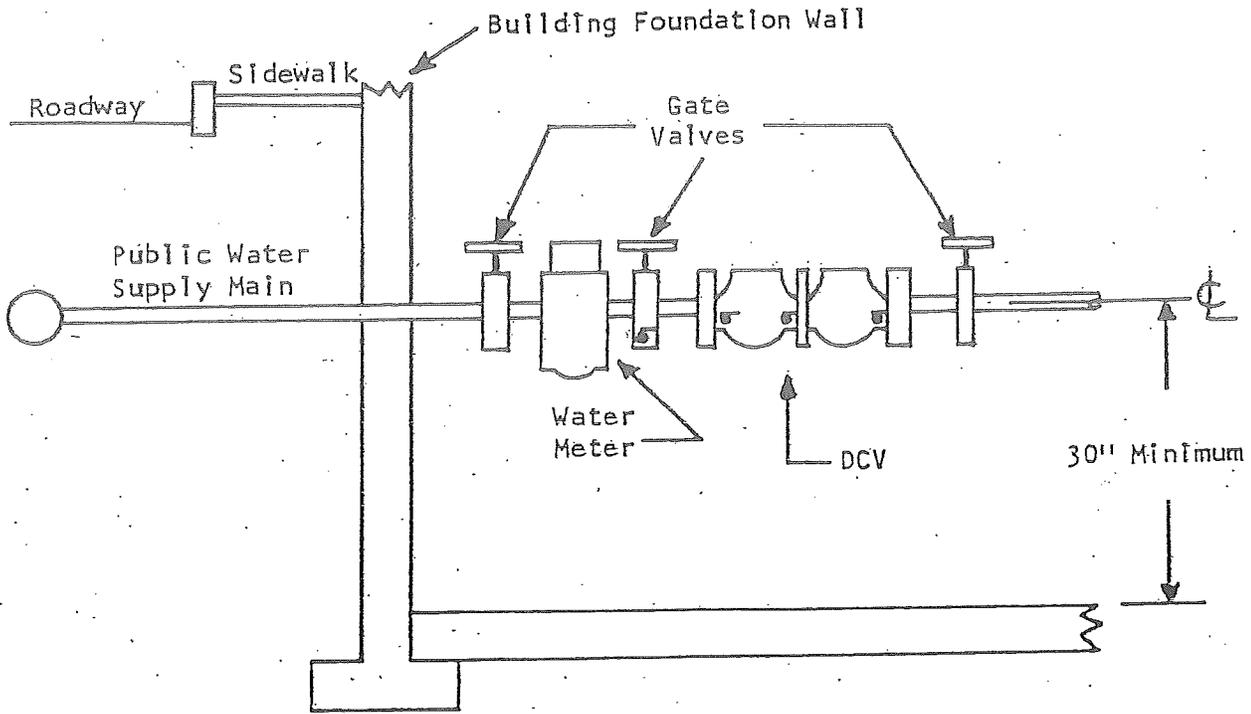
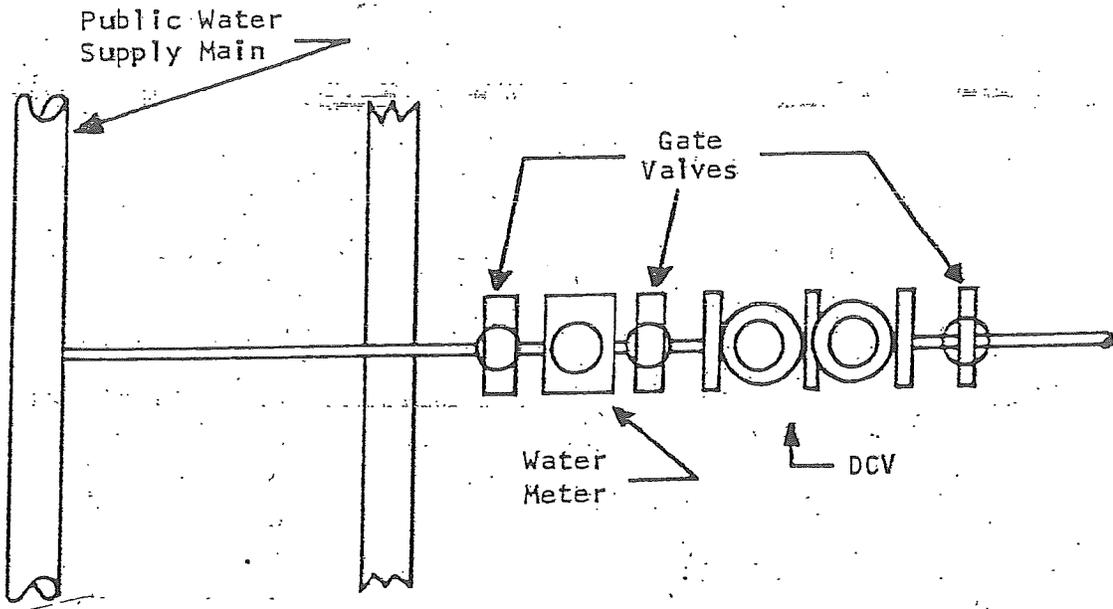


FIG. 7-2. NOTE: Device to be installed above highest possible flooding.



**CERTIFICATE OF RESOLUTION
FOR AUTHORIZATION**

The undersigned, _____ of _____

Name of Corporation _____, a corporation

Duly organized and validly existing under the laws of (State) _____

Hereby certifies that the following resolution was duly adopted by the Board of Directors, of said Corporation at a meeting duly called and held on the _____ day of _____ 20____

Be it resolved that the Board of Directors, or President, if there is no Board of Directors, of (Name of Corporation) _____

With Offices at: _____

Hereby authorized (Name if person authorized): _____

To execute and deliver to the Westchester County Department of Health, for and on behalf of said Corporation, and application for a permit to operate (type of operation): _____

To execute and deliver any and all additional documents which may be appropriate or desirable in Connection therewith.

The undersigned further certifies that said resolution has not been revoked, rescinded or modified and remains in full force and effect on the date hereof.

In WITNESS WHEREOF, the undersigned has duly executed this certificate on this _____ day of _____, 20____.

OFFICER'S SIGNATURE: _____

TITLE: _____

ACKNOWLEDGEMENT

STATE OF _____)

COUNTY OF _____): ss:



On this _____ day of _____, 20____, before me personally came _____ to me known, and known to me to be the _____ of the corporation referred to in the within Certificate of Resolution, who being by duly sworn did depose and say that (s)he is _____ of said corporation and that (s)he signed his/her name hereto.

Notary Public

County

Name _____

Address _____

Bureau of Environmental Quality
Westchester County Department of Health
145 Huguenot Street, 7th Floor
New Rochelle, NY 10801

Dear Sirs:

I _____ hereby authorize the installation of (a) Backflow Prevention
Device(s) on my property located at _____
_____, as designed by _____.

Signed _____

Notary _____

Sign & Seal

Yorktown Consolidated Water District

1080 Spillway Road, Shrub Oak, NY 10588

Telephone: 914.245.6111

Fax: 914.245.8422

Name of Facility: _____

In order to facilitate communication please provide
E-mail addresses for the following people.

Facility Owner Name: _____

E-mail Address: _____

Design Engineer/Architect: _____

E-mail Address: _____

You can reach Ken or Grace at the following:

Ken Rundle, Assistant Water Superintendent at: krundle@yorktownny.org

or

Grace at: gtausz@yorktownny.org

Report on Test and Maintenance of Backflow Prevention Device

PART A

Please use a separate form for each device.

For the year _____

- Initial test - Complete entire form
 Annual test - Complete Part A only

| | | | | | | |
|-------------------------------------|--|--|--|--|--|-----|
| Public Water Supply | | Account No. | | County | Block | Lot |
| Facility Name _____ | | | | Location of Device _____ | | |
| Address _____ | | | | _____ | | |
| Street | | City | | Zip | | |
| Device Information | Manufacturer | Type <input type="checkbox"/> RPZ <input type="checkbox"/> DCV | Model | Size (in inches) | Serial Number | |
| Test before repair | Check Valve No. 1 | | Check Valve No. 2 | | Differential Pressure Relief Valve | |
| | Leaked <input type="checkbox"/> Closed tight <input type="checkbox"/> | | Leaked <input type="checkbox"/> Closed tight <input type="checkbox"/> | | Opened at _____ psid | |
| Describe repairs and materials used | Pressure drop across first check valve _____ psid | | | | Line Pressure _____ psi | |
| | | | | | Date <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> M D Y | |
| Final test | Closed tight <input type="checkbox"/> | | Closed tight <input type="checkbox"/> | | Opened at _____ psid | |
| | Pressure drop across first check valve _____ psid | | | | Date <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> M D Y | |
| Water Meter Number | | Meter Reading | | Type of Service: (check one) <input type="checkbox"/> Domestic <input type="checkbox"/> Fire <input type="checkbox"/> Other _____ | | |

Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)

Certification: This device meets, does NOT meet, the requirements of an acceptable containment device at the time of testing
 I hereby certify the foregoing data to be correct.

Print Name _____ Certified Tester No. _____ Signature _____ / / _____
 Expiration Date

Property owner's (or owner's agent) certification that test was performed:

Print Name _____ Title _____ Signature _____ () - _____
 Telephone

PART B

Certification that installation is in accordance with the approved plans. (To be completed by the design engineer or architect or water supplier.)

I hereby certify that this installation is in accordance with the approved plans.

| | | | | | |
|----------------|-------------------------------------|-------|---------------|-------|-----|
| Name | Title | Date | NYS DOH Log # | | |
| License Number | Phone () | m d y | _____ | | |
| Representing | Describe minor installation changes | | | | |
| Address | | | | | |
| City | | | | State | Zip |
| Signature | | | | | |

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device. Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made. DOH-1013(9/91)

Backflow Consultants

The following have expressed an interest in backflow prevention. This list is not an endorsement from The Town of Yorktown Water District .

Site Design Consultants

2070 Saw Mill River Road
Yorktown Heights, New York 10598
914-962-4488

Larry Nardecia

21 McKinley Place
Ardsley, New York 10502
914-693-1126

MGM Burbon LLC

PO Box 136
Amawalk, New York 10501
914-245-2400

Tass Engineering

Consulting Engineers
Thomas A. Seery P.E.
124 Old Post Road South
Croton on Hudson, New York 10520
914-271-4609

Agostino Paese, P.E.

40 Beach Road
Ossining, New York 10562
914-941-0338

Cronin Engineering, P.E., P.C.

Professional Engineers & Planning Consultants
39 Arlo Lane
Cortlandt Manor, New York 10567
914-736-3664
James Annicchiarico/Project Engineer

Backflow Prevention Device Testers

The following have tested backflow prevention devices in the Town of Yorktown or have expressed interest in testing in the Town of Yorktown: *

J & J Backflow Device Testers
46 Fourth Street
New Rochelle, NY 10801
235-3127

Gruppuso Plumbing Corp.
84 McLean Avenue
Yonkers, NY 10704
Sal Gruppuso 237-5830

Frank & Lindy Maintenance
2 John Walsh Blvd
Peekskill, NY
737-2373

Thru Way Plumbing
184 Croton Avenue
Mt. Kisco, NY 10549
741-0918

Herlihy Backflow Testing
424-9311

S&F Plumbing and Heating
11 Peekskill Hollow
Cortlandt Manor, NY 10567
734-7766

L&L Backflow Prev. Testers
340 South Regent St. 1E
Port Chester, NY 10573
Leo Dragani 937-4784

John Hobby Jr. Plumbing
76 Kisco Avenue
Mt. Kisco, NY 10549
241-7858

Robert M. Spano Plumbing
152 Adams Street
Bedford Hills, NY 10507
666-5313

DLB Backflow
141 Willet Avenue
Port Chester, NY 10573
409-8597

Dave Goldberg Plumbing.
2566 Farsund
Yorktown Heights, NY 10598
760-4114

John Cinino
67 Lincoln Avenue
White Plains, NY 10606
227-8491