

## INFORMATION REGARDING AGRICULTURAL WATER RATES

Agricultural Rates for water are available to those who qualify. In order to qualify, you must be actively engaged in crop production, stock raising or dairy farming on a commercial basis.

In order to obtain these rates, you must submit an application. The application for Agricultural Rate must be submitted with a copy of the General Excise License; and the Cross-Connection Control and Backflow Prevention Agreement for Agricultural Meters.

When the application is received with all the attachments noted above, an investigation is made in the field. The agricultural rate will be effective upon approval. To retain the agricultural rate, an application must be submitted on an annual basis each fiscal year.

If there are any questions, please call Customer Care at 748-5030.

BOARD OF WATER SUPPLY  
City and County of Honolulu  
630 South Beretania Street  
Honolulu, Hawaii 96843

PREPARE IN DUPLICATE

### APPLICATION FOR AGRICULTURAL RATE

In accordance with the provisions of Board of Water Supply Resolution No.470, 1979, Schedule of Rates and Charges for the Furnishing of Water Service in the City and County of Honolulu, I hereby apply for the Agricultural Rate for all water used each month through the below-described water service.

Premise ID# \_\_\_\_\_ Customer ID# \_\_\_\_\_  
Customer \_\_\_\_\_ Res. Ph. \_\_\_\_\_  
Premise Address \_\_\_\_\_ Bus. Ph. \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
Area Under Cultivation \_\_\_\_\_  
Type of Crop or Stock \_\_\_\_\_

\*\*Estimated Yearly Gross Sales \$ \_\_\_\_\_ \*\*Please attach a copy of your  
\*\*General Excise Tax License ID# \_\_\_\_\_ "General Excise Tax License".

I certify that I am actively engaged on a commercial basis in:  Agriculture  Stock Raising  Dairy Farming

I understand that if this application is approved, the Agricultural Rate will continue in effect for the remainder of this fiscal year unless I cease being actively engaged on a commercial basis in agriculture, stock raising or dairy farming. In addition, I understand that I may be assessed a "Water Systems Facilities Charge" (WSFC).

\_\_\_\_\_  
DATE SIGNATURE OF CUSTOMER

(FOR BWS USE ONLY)

Inspected \_\_\_\_\_, 20\_\_\_\_ Application No. \_\_\_\_\_

Approval Recommended:  Yes  No

Justification \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVED  DENIED

\_\_\_\_\_  
INVESTIGATOR

\_\_\_\_\_  
CUSTOMER CARE RECORDS SUPERVISOR DATE

BOARD OF WATER SUPPLY  
City and County of Honolulu  
630 South Beretania Street  
Honolulu, Hawaii 96843

PREPARE IN DUPLICATE

### APPLICATION FOR AGRICULTURAL RATE

In accordance with the provisions of Board of Water Supply Resolution No.470, 1979, Schedule of Rates and Charges for the Furnishing of Water Service in the City and County of Honolulu, I hereby apply for the Agricultural Rate for all water used each month through the below-described water service.

Premise ID# \_\_\_\_\_ Customer ID# \_\_\_\_\_  
Customer \_\_\_\_\_ Res. Ph. \_\_\_\_\_  
Premise Address \_\_\_\_\_ Bus. Ph. \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
Area Under Cultivation \_\_\_\_\_  
Type of Crop or Stock \_\_\_\_\_

\*\*Estimated Yearly Gross Sales \$ \_\_\_\_\_ \*\*Please attach a copy of your  
\*\*General Excise Tax License ID# \_\_\_\_\_ "General Excise Tax License".

I certify that I am actively engaged on a commercial basis in:  Agriculture  Stock Raising  Dairy Farming

I understand that if this application is approved, the Agricultural Rate will continue in effect for the remainder of this fiscal year unless I cease being actively engaged on a commercial basis in agriculture, stock raising or dairy farming. In addition, I understand that I may be assessed a "Water Systems Facilities Charge" (WSFC).

\_\_\_\_\_  
DATE SIGNATURE OF CUSTOMER

(FOR BWS USE ONLY)  
Inspected \_\_\_\_\_, 20\_\_\_\_ Application No. \_\_\_\_\_

Approval Recommended:  Yes  No

Justification \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVED  DENIED

\_\_\_\_\_  
INVESTIGATOR

\_\_\_\_\_  
CUSTOMER CARE RECORDS SUPERVISOR

\_\_\_\_\_  
DATE

**CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION  
AGREEMENT FOR AGRICULTURAL RATE METERS**

Name: \_\_\_\_\_

Premise Id Number: \_\_\_\_\_

Customer Id Number: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Residence Phone Number: \_\_\_\_\_

Business Phone Number: \_\_\_\_\_

Pager/Cellular Phone Number: \_\_\_\_\_

Tax Map Key: \_\_\_\_\_

To insure the protection of the potable water system from potential contamination by agricultural uses, a backflow prevention assembly is required in accordance with Sec. 2-213 of the Honolulu Board of Water Supply's (BWS) Rules and Regulations.

Therefore, a BWS Approved Reduced Pressure Principle Backflow Prevention Assembly (RP) shall be installed, at the owner's expense, on the consumer side of the property line, as close as physically possible to the domestic water meter serving the property and prior to any tees or branches. A decrease in service pressure to the subject property can be expected with the installation of an RP. The plumbing contractor or mechanical engineer should verify that the property's plumbing system can accommodate the additional pressure loss.

The undersigned understands that the RP must be installed prior to issuance of the Agricultural Rate. Failure to comply with the BWS Rules and Regulations regarding backflow prevention may result in the discontinuance of water service.

Please sign and return this form with the application for Agricultural Rate.

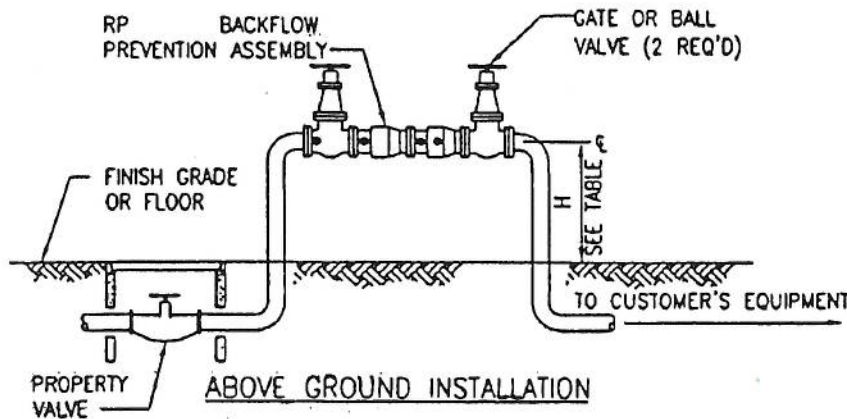
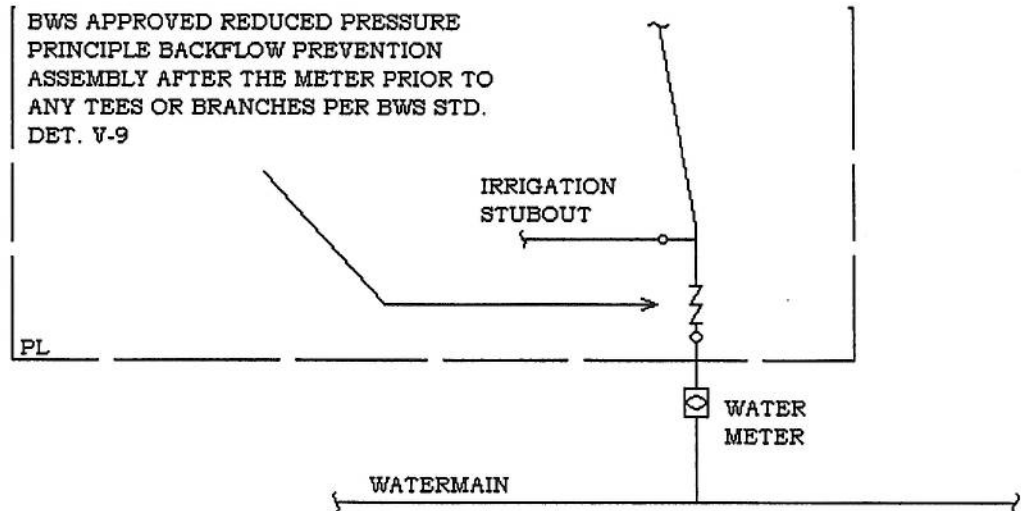
AGREED:

\_\_\_\_\_  
Customer Signature Date

Attached, for your information, is a list of approved backflow prevention assemblies.

If you have any questions, please call our Cross-Connection Control Unit at 748-5470.

# TYPICAL BFPA INSTALLATION DETAIL PLAN VIEW



SIZE (INCHES)	H (INCHES)
3/4 TO 1-1/2	18
2 TO 3	24
4 TO 6	30
8 TO 10	36

## Note:

1. The backflow prevention assembly must be installed after the meter and the property valve prior to any tee or branch piping.
2. The plans must also reflect the following callout, **“BOARD OF WATER SUPPLY APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY PRIOR TO ANY TEES OR BRANCHES PER BOARD OF WATER SUPPLY STANDARD DETAIL V-9”** or refer to a specific make and model of a Board of Water Supply approved backflow prevention assembly. (Whichever is applicable)
3. At no time shall the bottom of the assembly be less than **12 inches** above the ground, floor, or flood level nor shall the bottom of the assembly exceed more than **48 inches** above the aforementioned grades.  
(BWS approval required for exemption from installation height restrictions.)
4. The plans must show the backflow prevention assembly in relation to the water meter, property valve, and any tee or branch piping in the vicinity.

If there are any questions, please contact the Board of Water Supply's Cross-Connection Control Section at (808) 748-5470.

# BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843



MURI HANNEMANN, Mayor

RANDALL Y. S. CHUNG, Chairman  
SAMUEL T. HATA  
ALLY J. PARK  
ROBERT K. CUNDIFF  
WILLIAM K. MAHOE

JEFFREY S. CUDIAMAT, Ex-Officio  
BRENNON T. MORIOKA, Ex-Officio

WAYNE M. HASHIRO, P.E.  
Manager and Chief Engineer

DEAN A. NAKANO  
Deputy Manager and Chief Engineer

## LIST OF ACCEPTABLE BACKFLOW PREVENTION ASSEMBLIES MEETING AWWA STANDARDS C510-92 & USC-FCCC & HR October 2009

### APPROVED LIST OF REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLIES

<u>COMPANY</u>	<u>MODEL</u>	<u>SIZE</u>
Ames	4000 RP	- 4", 6", 8", 10"
	4000SS	- 2 1/2", 3", 4", 6"
	4000B (Watts 009)	- 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
	4000BM2	- 1"
	4000CIV	- 2 1/2", 3", 4", 6", 8", 10"
	Colt 400	- 2 1/2", 3", 4", 6", 10"
	Maxim 400	- 2 1/2", 3", 4", 8", 10"
	ARI	RP 500
Cash Acme	RPZ	- 3/4", 1", 1 1/2", 2"
	RPZ II	- 1/2", 3/4"
Cla-Val	RP-4"	- 2 1/2", 3", 4", 6", 8", 10"
	RP6LW	- 3/4", 1", 1 1/4", 1 1/2", 2"
	RP6VW	- 3/4", 1", 1 1/2", 2"
	RP7LW	- 2 1/2", 3", 4", 6", 8", 10"
	RP7LY	- 2 1/2", 3", 4", 6", 8", 10"
	RP8LW	- 2 1/2", 3", 4", 6", 8"
	RP8LY	- 2 1/2", 3", 4", 6", 8"
	RP8NW	- 2 1/2", 3", 4", 6", 8", 10"
	RP8NY	- 2 1/2", 3", 4", 6", 8", 10"
	RP8VW (N & Z configurations)	- 2 1/2", 3", 4", 6", 8", 10"
	RP8VY (N & Z configurations)	- 2 1/2", 3", 4", 6", 8", 10"
Conbraco	40-201-02 & A2 & A2S & T2	- 1/4"
	40-202-02 & A2 & A2S & T2	- 3/8"
	40-203-02 & A2 & A2S & T2	- 1/2"
	40-204-02 & A2 & A2S & A2U & A2Z & T2 & TC2 & TC4	- 3/4"
	40-205-02 & A2 & A2S & A2U & A2Z & T2	- 1"
	40-206-02 & A2 & A2U & A2Z & T2	- 1 1/4"
	40-207-02 & A2 & A2U & A2Z & T2	- 1 1/2"
	40-208-02 & A2 & A2U & A2Z & A4 & T2	- 2"
	40-209-02 & O3 & O5	- 2 1/2"
	40-200-02 & O3 & O5	- 3"
	40-20A-02 & O3 & O5	- 4"
	40-20C-02 & O3 & O5	- 6"
	40-20E-02 & O3	- 8"
	40-20G-02 & O3	- 10"
Febco	760	- 2 1/2", 3", 4", 6", 8", 10"
	760N	- 2 1/2", 3", 4" (VUVD)
	760Z	- 2 1/2", 3", 4" (VUVU)
	825Y	- 3/4", 1", 1 1/4", 1 1/2", 2"
	825YA	- 3/4", 1", 1 1/2", 2"
	825 Type YD	- 2 1/2", 3", 4", 6", 8", 10"
	825YAR*	- 3/4", 1", 1 1/2", 2"
	825YR*	- 3/4", 1", 1 1/2", 2"
	860	- 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 6", 8"
	860U	- 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
	880*	- 2 1/2", 3", 4", 6", 8", 10"
	880V (N & Z configuration)	- 2 1/2", 3", 4", 6", 8", 10"
	Flowmatic	RPZE
RPZ-III		- 1/2", 3/4"
RPZ		- 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 6", 8"

Pure water...our greatest need - use it wisely

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLIES con't

	RPZII	- ½", ¾"
Watts	909	- ½", ¾" (vertical up), 1" (vertical up), 1 ¼", 1 ½", 2", 2 ½", 3", 4", 6", 8", 10"
	009	- ¼", 3/8", ½", ¾", 1", 1 ¼", 1 ½", 2", 2 ½", 3"
	009QI	- ½"
	009M2QI	- 1", 1 ¼", 1 ½", 2"
	009M3QI	- ¾"
	U009	- ½", ¾", 1", 1 ¼", 1 ½", 2"
	919QI	- 1", 1 ¼", 1 ½", 2" (H)
	919AQI	- 1", 1 ¼", 1 ½", 2" (VUVD)
	U919QI	- 1", 1 ¼", 1 ½", 2" (H)
	919ZQI	- 1", 1 ¼", 1 ½", 2" (VUVU)
	U919AQI	- 1", 1 ¼", 1 ½", 2" (VUVD)
	990-RW	- 4", 8", 10"
	992-RW	- 4", 10"
	994 (Ames 4000SS)	- 2 ½", 3", 4", 6"
	995	- 1 ¼", 1 ½"
	957	- 2 ½", 3", 4", 6", 10"
	957QI	- 2 ½", 3", 4" (H)
	957NQI	- 2 ½", 3", 4" (VUVD)
	957ZQI	- 2 ½", 3", 4" (VUVU)
	967	- 2 ½", 3", 4", 6", 10"

(Note: Watts uses various alpha sub-designations not listed here and subject to change.)

Wilkins (Neptune/SMR)	375	- 2 ½", 3", 4", 6", 8", 10"
	375A	- 2 ½", 3", 4", 6", 8" (H)
	375 MS	- 2 1/2", 3", 4", 6", 8", 10"
	375 XL	- ½" (H)
	475	- 2 ½", 3", 4", 6", 8", 10"
	475 MS	- 2 ½", 3", 4", 6", 8", 10"
	475V	- 2 ½", 3", 4", 6", 8", 10"
	475V MS	- 2 ½", 3", 4", 6", 8", 10"
	575*	- ¾", 1"
	575A	- ¾", 1"
	575	- 1 ¼", 1 ½", 2", 2 ½", 3", 4", 6"
	575-M8*	- 4" x 4" x 8" Manifold
	575-M10*	- 6" x 6" x 10" Manifold
	957	- 6"
	975*	- ¾", 1", 1 ¼", 1 ½", 2", 2 ½", 3", 4", 6", 8", 10"
	975A*	- ¾", 1", 1 ¼", 1 ½", 2"
	975 BMS*	- 2 ½", 3", 4", 6", 8", 10"
	975 MS*	- 2 ½", 3", 4", 6", 8", 10"
	975 XL	- ¼", 3/8", ½", ¾", 1", 1 ¼", 1 ½", 2"
	975 XLMS	- ¾", 1", 1 ¼", 1 ½", 2"
	975 XLTCU	- ¾", 1", 1 ¼", 1 ½", 2" (H)
	975 XLU	- ¾", 1", 1 ½", 2"
	975 XLV	- ¾", 1"
	975 XL BMS	- ¾", 1", 1 ¼", 1 ½", 2"
	975 XL2	- ¼", 3/8", ½", ¾", 1", 1 ¼", 1 ½", 2"

(Note: Wilkins uses various alpha sub-designations not listed here and subject to change.)

\*No longer manufactured, replacement parts may be available.

Assemblies no longer manufactured and without replacement parts are not listed.

Various manufacturers offer assemblies that are capable of being installed vertical-up and vertical-down, contact manufacturers representative to confirm vertical installation capabilities.

**BOARD OF WATER SUPPLY BACKFLOW PREVENTION ASSEMBLY  
INSTALLATION AND TEST FORM REPORT**

Cross-Connection Control Unit  
Honolulu Board of Water Supply  
630 South Beretania Street  
Honolulu, Hawaii 96843

Return no later than  
30 days after assembly  
has been installed  
Phone: 748-5470 FAX: 550-5550

Building Permit Number: \_\_\_\_\_  
Assembly Owner: \_\_\_\_\_  
Address: \_\_\_\_\_  
Premise Id #: \_\_\_\_\_  
Customer Id #: \_\_\_\_\_  
Premise Address: \_\_\_\_\_

TMK: \_\_\_\_\_  
Meter Number: \_\_\_\_\_  
Make: \_\_\_\_\_  
Model: \_\_\_\_\_  
Type: RP / DC / PVB Size: \_\_\_\_\_  
Serial Number: \_\_\_\_\_

SPACE ON THE BACK IS PROVIDED FOR A SKETCH OF THE BACKFLOW PREVENTION ASSEMBLY INSTALLATION

INITIAL TEST: PASS___ FAIL___	REDUCED PRESSURE PRINCIPLE ASSEMBLY			PRESSURE VACUUM BREAKER	
	DOUBLE CHECK VALVE ASSEMBLY		DIFFERENTIAL RELIEF VALVE	AIR INLET	CHECK VALVE
LINE PRESSURE _____ Psi	Check Valve #1 Tight [ ] _____ Psid (Held at) Leak [ ]	Check Valve #2 Tight [ ] _____ Psid (Held at) Leak [ ]			
RP Buffer Zone _____ Psid	Shut Off Valve #1 Tight / Leak	Shut Off Valve #2 Tight / Leak			
REPAIRS:	CLEANED [ ] Disc Spring Guide Module Seat Hinge Pins Other	CLEANED [ ] Disc Spring Guide Module Seat Hinge Pins Other	CLEANED [ ] Disc Spring Guide Module Seat Diaphragms Other	CLEANED [ ] Disc Spring Float Module Poppet Other	CLEANED [ ] Disc Spring Float Module Poppet Other
FINAL TEST: PASS___ FAIL___	Check Valve #1 Tight [ ] _____ Psid Leak [ ]	Check Valve #2 Tight [ ] _____ Psid Leak [ ]	DIFFERENTIAL RELIEF VALVE Opened at _____ Psid Did Not Open [ ]	AIR INLET Opened at _____ Psid Did Not Open [ ]	CHECK VALVE Tight [ ] Check held at _____ Psid Did Not Open [ ]
RP Buffer Zone _____ Psid	Shut Off Valve #1 Tight / Leak	Shut Off Valve #2 Tight / Leak			

Malfunctioning Assemblies should be Repaired or Replaced Immediately. (circle action taken)

Does this assembly isolate the entire property? Yes [ ] No [ ]

Comments: \_\_\_\_\_

**THIS REPORT IS CERTIFIED TO BE TRUE**

INITIAL TEST BY \_\_\_\_\_  
COMPANY \_\_\_\_\_  
REPAIRED BY \_\_\_\_\_ DATE \_\_\_\_\_

CERTIFIED TESTER NUMBER \_\_\_\_\_  
INITIAL TEST DATE \_\_\_\_\_  
COMPANY / LICENSE # \_\_\_\_\_

By Contractors Licensing Rules, only Licensed Contractors / Plumbers can repair the assembly.

FINAL TEST BY \_\_\_\_\_  
COMPANY \_\_\_\_\_

CERTIFIED TESTER NUMBER \_\_\_\_\_  
FINAL TEST DATE \_\_\_\_\_

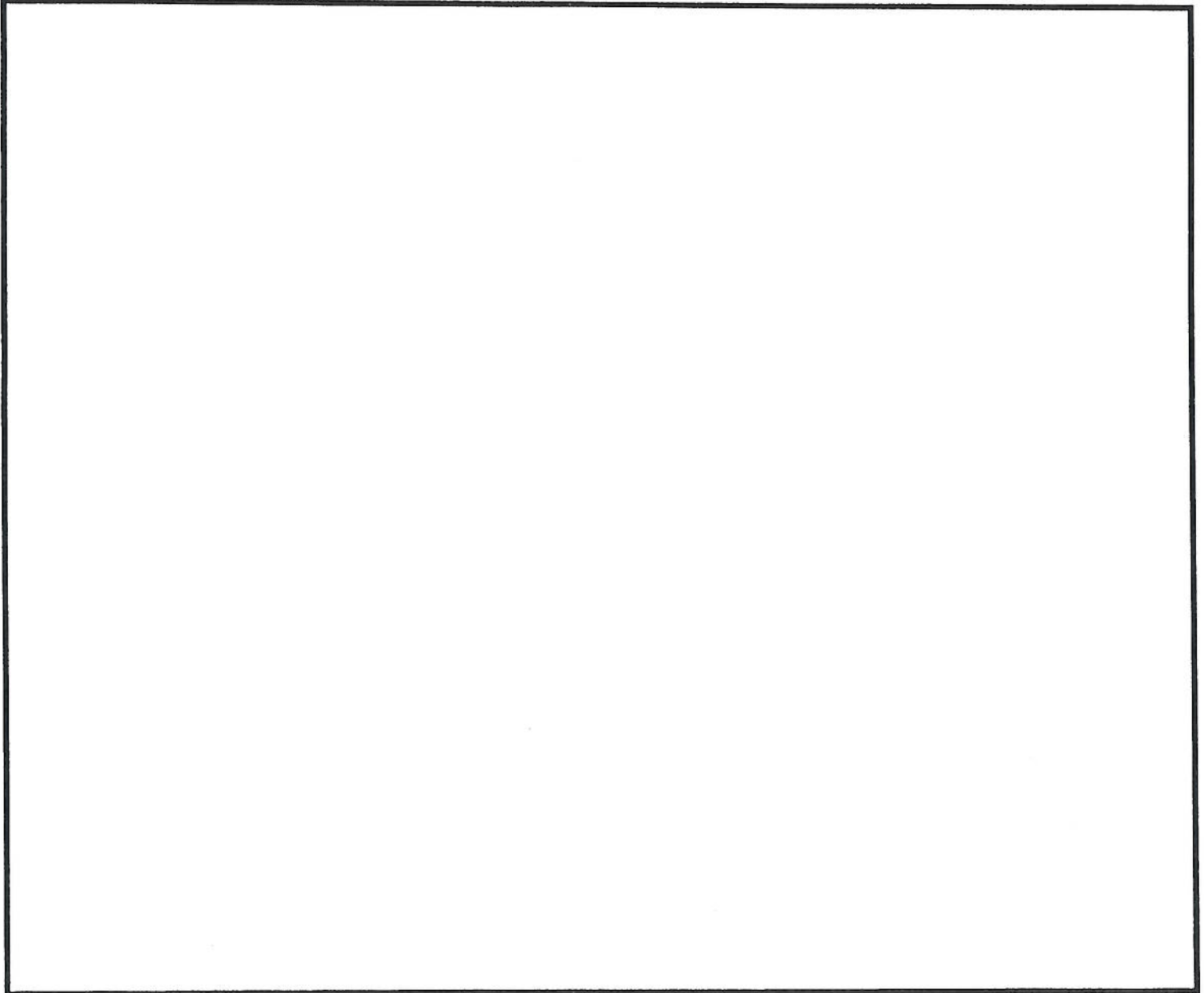
Assembly Owner Signature: \_\_\_\_\_ Date \_\_\_\_\_

BWS Use Only: Date Received: \_\_\_\_\_ Date Inputted: \_\_\_\_\_ BFPA Id #: \_\_\_\_\_ Initials: \_\_\_\_\_



**THE BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED ACCORDING TO THE APPROVED CONSTRUCTION PLANS IN ACCORDANCE WITH BWS RULES AND REGULATIONS.**

THE SKETCH SHOULD INCLUDE THE FOLLOWING: NORTH ARROW, WATER METER NUMBER, METER LOCATION, PROPERTY VALVE, PROPERTY LINE, BACKFLOW PREVENTION ASSEMBLY, STREET NAME, AND ALL TEES AND BRANCHES.



COMPANY NAME: \_\_\_\_\_  
(PRINT NAME)

INSTALLATION DATE: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_  
(PRINT NAME)

LICENSE NUMBER: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_  
(SIGNATURE)

DATE: \_\_\_\_\_

**BY CONTRACTORS LICENSING RULES, ONLY LICENSED CONTRACTORS / PLUMBERS CAN INSTALL THE BACKFLOW PREVENTION ASSEMBLY.**