Procedures for cross-connection or backflow device installations within a building:

- 1. Obtain the results of the most current cross connection survey completed by the Village of Broadview. This report will indicate changes or upgrades required. Submit a copy with the application.
- 2. Determine who will perform the required work. A State of Illinois Licensed Plumber is required to obtain the permit and to perform the work. Provide a copy of the 055- license with the application.
- 3. If there is work required on the fire sprinkler system, that work must be performed by an Illinois Licensed Sprinkler Contractor. The sprinkler contractor cannot perform the work on any backflow device.
- 4. Fill out the application for a backflow device installation permit. If there are multiple devices, file the additional sheet(s) for each additional device.
- 5. The application shall include catalog cut sheets for each backflow device being installed.
- 6. Indicate the required expansion tanks for all water heaters.
- 7. Indicate the area of discharge and approved receptor for any back flow device.
- 8. Changes to the fire protection system made necessary by this work shall be approved by the Broadview Fire Department.
- 9. The permit application shall be reviewed for compliance with all municipal, state and federal code requirements. Any deficiencies on the application or information submitted will require correction and resubmittal.
- 10. When the submittal is approved and the indicated fees paid, the permit will be issued. The application and supporting documentation, when approved, shall constitute the required Letter of Intent and the plan review.
- 11. When all work is complete, call for a final inspection and testing of all cross connection devices. All testable backflow devices within a building shall be scheduled and tested on the same day. The Village backflow device tester shall test each new and existing testable device.
- 12. If the building has a fire sprinkler system and an upgraded backflow device is being installed, see the separate page of additional information required to be submitted with that application.

Justin 1. Justin 1. Ols Caw Giregio-2227 2.

APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT

Applicat	tion Date:	Per	mit Number:
Compan	ny:	Contact t	elephone Number:
Installation	on address:	g address, billing address or home office	:
		work (NAME): ration Number (055-):	
Principal's	s License Number	(058-/PL):	10 g sa
Plumber's	s e-mail address: _	SER SE	
Device to	be installed:	* * * * *	•
Туре	Size	Manufacturer and Model	Orientation or Pattern
e.g. fire prote	ection system, lawn irrig	tem or equipment):	
rire spri n ki	er nydraulic calcula	ations or flow data for pipe sche	aule systems provided by:
Name	Credential	Company	Contact telephone number

- 1. The permit shall be issued when the fire sprinkler system hydraulic calculations have been approved, the installation plan and device specifications have been approved and the permit fee calculated and paid. Work may begin at any time following issuance of the permit. This application and the supporting documentation when approved shall constitute the required Letter of Intent and the plan review.
- 2. The plumbing contractor shall make the Manufacturer's Installation Instructions available at the job site at the time of all inspections beginning the first day of work.
- 3. The plumbing contractor shall contact the plumbing inspector at least 24 hours prior to the start of work to notify the Village of the start date.
- 4. The plumbing contractor shall call for an inspection and testing of all devices when all work is complete. All testing for multiple devices at one address shall be performed on the same day.
- 5. If the project has multiple new devices at the same address, complete the additional sheets.
- 6. Fees established are based on the information submitted. Additional work found in the field or re-inspections will require additional incurred fees.

ALL FIELDS SHALL BE FILLED-IN

Sheet of	
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APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT FIRE SPRINKLER INFORMATION

One of the following will be required based on the existing fire sprinkler system design.

- 1. If the existing sprinkler system can absorb the additional friction loss and comply submit the following:
 - a. List of hazard classifications in the building;
 - b. Hydraulic design criteria used in the building;
 - c. Catalog cut sheet for the new backflow device showing the friction loss based on the system flows;
 - d. Existing hydraulic calculations with the line showing the loss for the existing cross connection device and
 - e. Calculation showing the impact with the new cross connection device.
- 2. If the existing system will be out of compliance with a new cross connection device, submit the following:
 - a. List of hazard classifications in the building;
 - b. Hydraulic design criteria used in the building;
 - c. Revised sprinkler plan showing the changes to the sprinkler system;
 - d. Revised hydraulic calculations showing the changes to the sprinkler system;
 - e. Current water flow information.
 - f. An inspection of the system changes will be required by the Fire Department.
- 3. If the existing building has a pipe schedule system submit the following a only or b
 - a. Submit complete hydraulic calculations for the existing system and a set of sprinkler plans. All information required to verify the accuracy of the sprinkler calculation have to be submitted.
 - b. Submit the following with a calculation showing the pipe schedule is in compliance with NFPA 13;

Current water flow information;

Hazard classification/s of the building;

Height above grade for the highest sprinkler;

Catalog cut of the new cross connection device showing applicable friction loss; Calculation showing the residual pressure at the highest sprinkler with the water flows and pressures from NFPA 13.

APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT Additional device sheet

Addition	al device # 1	·	
Device to	o be installed:	3	
Туре	Size	Manufacturer and Model	Orientation or Pattern
		system or equipment):	tation system, dialysis, other equipm
Additional	device #		
Device to	be installed:		
	B) BC		
Device to be.g. fire prote	Size De installed on (section system, lawn indexided)	Manufacturer and Model ystem or equipment): migation system, process piping, sanita	Orientation or Pattern tion system, dialysis, other equipme
Device to be greated as a second control of the con	be installed on (section system, lawn i	ystem or equipment):	tion system, dialysis, other equipme
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Sheet ____ of __

Pipe Schedule Minimum Pressure Verification Form (Use this form for calculating systems constructed under pipe schedule regulations)

Name:				,
Name:		-		
Address: Sta	ote:	-		
City: Sta				
Contact Representative: Telephone Number:		-		•
refephone Number.		-		
			1	
Available Water Pressure (City and/or Fin	re Dumn*)			
Available water Tressure (City and/or Fil	ici ump)		3.5	F 9
Static Pressure:				
Residual Pressure:	50			
Flow: Test Date:				
1 001 1/400.				
Friction Loss Information				
LICHOU FOSS INTOLHISTION				
Elevation of the highest sprinkler:	(A) = 122 (nci/ft) =		(pei)
devanon of the nighest sprinkler.	_ (II) X .433 (I	han ii) —		(psi)
tatic pressure friction loss for new backflow d			Т	
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-	icvice	=,		(psi total
Tetal poi la	22	=_ Demoinis	na recidus	
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