Naperville

Dear Customer,

Every year, some Naperville residents are faced with the inconvenience and expense of sanitary sewer backups that are caused by rainwater/groundwater surcharging the sanitary sewer system. These surcharges are caused by heavy rainfall events. If you had sanitary sewage coming up through your basement floor drain you experienced a sanitary sewer backup. If you had storm water entering your basement through cracks, window wells, doors, or your sump pump couldn't handle the storm water you did not experience a sanitary sewer backup.

The City of Naperville's, Department of Public Utilities-Water is committed to reducing and eliminating the frequency and severity of these sanitary surcharges. We have an ongoing program using city crews, consultant engineers, and contractors to locate and repair the problems. This is a long term and ongoing project. This program includes dye testing, televising of sanitary sewers, building inspections, flow monitoring, dig repairs, lining and sealing of sewers.

The Department of Public Utilities has found that certain areas of the city are more susceptible to reoccurring problems. We are offering you participation in our backflow prevention program. This allows you to have a backflow prevention device of your choice installed in your home and the City will reimburse you the homeowner 75% of the cost. If you have any questions, concerns or need technical assistance you can contact us at (630) 420-6137.

This program does not replace our relentless efforts to prevent all backups due to heavy rainfall events. Installation of a backflow prevention device may give you immediate protection and peace of mind from recurring sanitary sewer backups.

For storm water concerns call (630) 420-6095. If you have a claim to file contact our Legal Department at (630) 305-5559.

Department of Public Utilities-Water
Water Distribution & Collection Division

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Naperville

PAYMENT AGREEMENT FOR INSTALLATION OF
SANITARY SERVICE BACKFLOW PREVENTION DEVICE

The Department of Public Utilities-Water recognizes that certain areas of the city are more susceptible to reoccurring sanitary sewer backups due to heavy rainfall surcharges. We are committed to reducing the frequency and severity of these surcharges. We are offering you participation in our backflow prevention program. This allows you to have a backflow prevention device of your choice installed in your home and the City will reimburse you the homeowner 75% of the cost. We are doing this, although we have no direct responsibility to do so, to maximize trouble-free service to all our customers.

The conditions for this transaction are as listed below:

A) Homeowner must obtain (3) written quotes and send copies of the quotes to the Collection & Pumping Supervisor for preauthorization prior to any work beginning. These quotes must include restoration. The City will make only one payment. Once the City has given you authorization you may schedule the work. The City will normally select the lowest quote but reserves the right to reject all quotes should they exceed usual and customary charges for this type of installation.

B) Upon completion of the installation, the Homeowner must submit proof of payment for the installation to the Collection & Pumping Supervisor. Payment will then be made by the City for 75% of the agreed on quotation. This will be paid to the customer. No payment will be made to the plumber. This transaction is between the DPU Wastewater Utility and the customer, not the plumber.

C) The City assumes no responsibility for the selection, installation, maintenance or operation of the backflow prevention device. Any future costs related to maintenance or repair of the device will be paid by the Homeowner.

CUSTOMER NAME _____

ADDRESS _____

PHONE _____

QUOTE PRICE _____ PLUMBER _____

QUOTE PRICE _____ PLUMBER _____

QUOTE PRICE _____ PLUMBER _____

TYPE OF DEVICE _____

CITY'S 75% PAYMENT _____

CONDITIONS/PAYMENT AGREED TO BY:

_____ _____
Customer Signature Date

_____ _____
Collection & Pumping, Supervisor Date

Date Installation Completed _____ Plumber _____

Return to: **Dept. of Public Utilities – Water, Attn: Collection & Pumping Supervisor; 1200 W Ogden Ave, Naperville, IL 60563**

HOLD HARMLESS AGREEMENT FOR INSTALLATION OF SANITARY SERVICE BACKFLOW PREVENTION DEVICE

(Required for program participation)

In consideration for reimbursement by the CITY of costs incurred under the terms of the installation of a backflow prevention device, I the Homeowner, agree to release, waive, discharge and hold harmless the CITY, its officers, agents, servants, representatives and employees from any and all liability, claims, demands, actions, and causes of action whatsoever arising out of or related to any loss, damage, or injury, including death, that may be sustained by me or any of the property owned by me as a result of my participation in the backflow prevention program and the installation of a backflow prevention device. I further understand that my acceptance into the program by the CITY in no way implies liability by the CITY for any injury or property damage sustained by me as a result of any prior or future sanitary sewer backup.

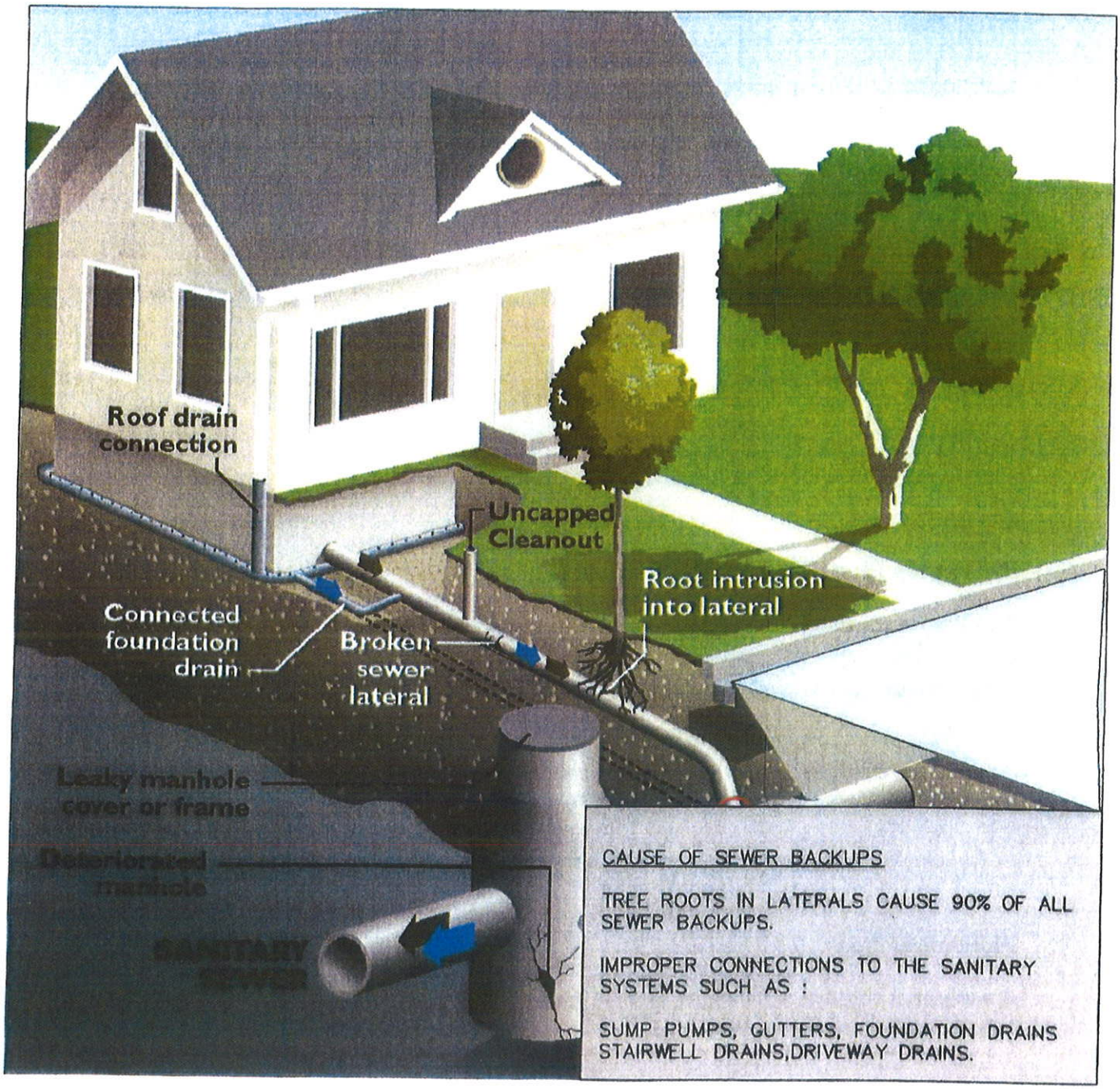
The terms set forth herein shall be in full force and effect during the installation of the device and shall survive thereafter and shall be binding upon my heirs, executors and representatives.

_____ _____

Homeowner Signature Date

Naperville

SANITARY SEWER BACKUPS CAUSES & PREVENTION



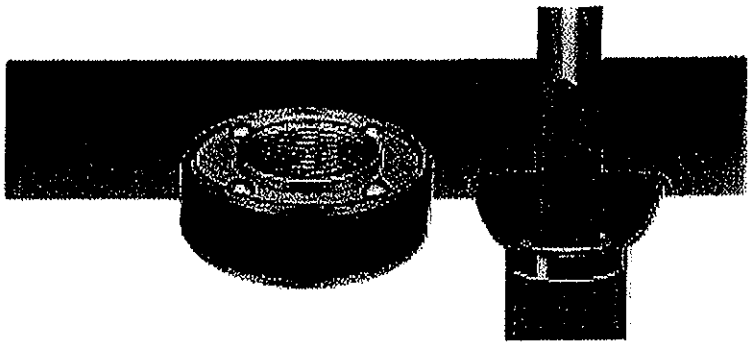
CAUSE OF SEWER BACKUPS

TREE ROOTS IN LATERALS CAUSE 90% OF ALL SEWER BACKUPS.

IMPROPER CONNECTIONS TO THE SANITARY SYSTEMS SUCH AS :

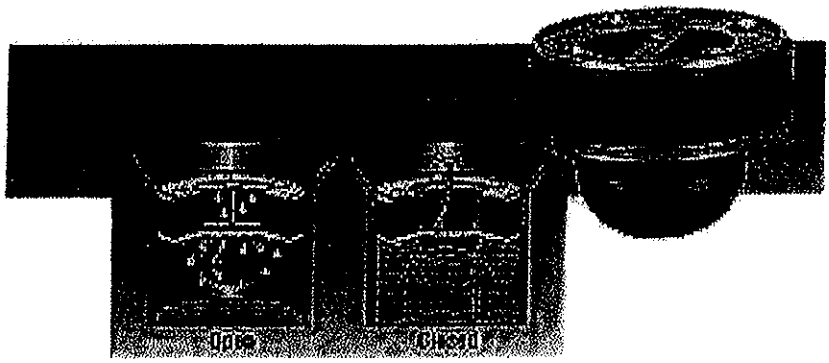
SUMP PUMPS, GUTTERS, FOUNDATION DRAINS STAIRWELL DRAINS,DRIVEWAY DRAINS.

Sanitary Sewer Back Up Prevention Accessories



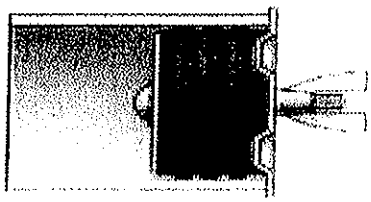
Stand Pipe

A standpipe is an inexpensive alternative to a floor drain plug. When the sewer backs up, the water moves up the pipe. If properly installed, water pressure cannot build up to blow a standpipe out of the floor drain. The system works unless the backup is so deep that it goes over the top of the pipe.



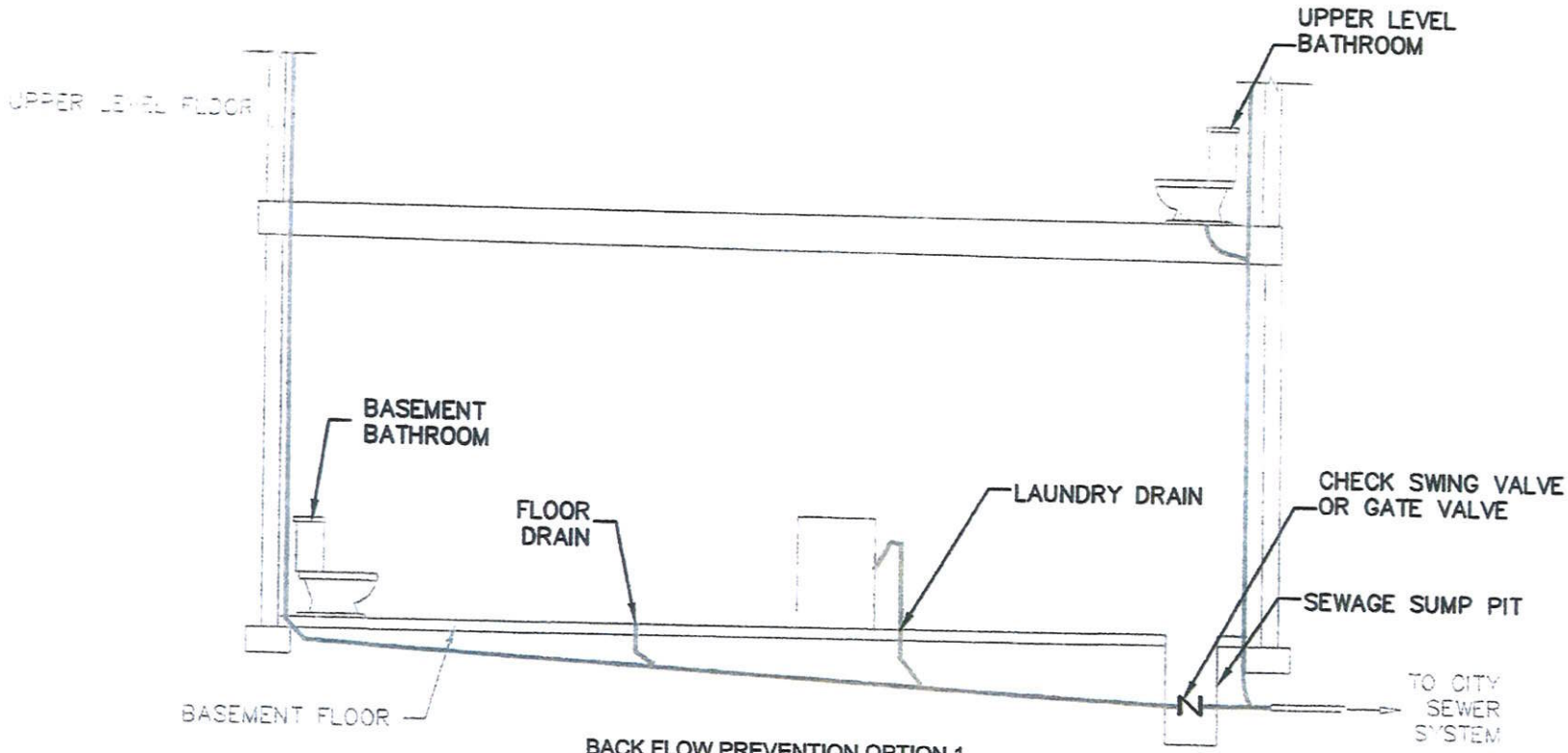
Floor Drain Float Plug

This Plug is an automatic backup valve installed to prohibit sewage backing ups. When the water level is down at (the left), the float hangs free and allows water to drain. As the water rises in the floor drain the float is pushed up into the plug effectively blocking the drain from flooding.

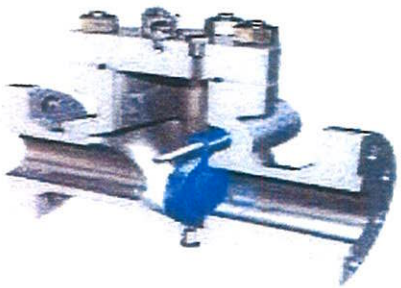


Mechanical Plug

A mechanical plug device for sealing pipeline drains. The plugs are installed mechanically and should only be installed in periods of heavy rains.



BACK FLOW PREVENTION OPTION 1
SWING CHECK VALVE/GATE VALVE -N.T.S.



SECTION VIEW OF A SWING CHECK VALVE

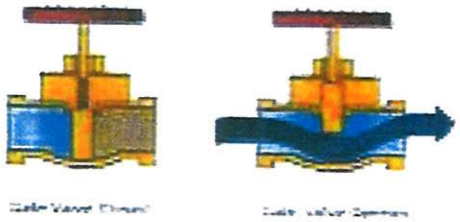
CHECK VALVES\GATE VALVES:

ADVANTAGES

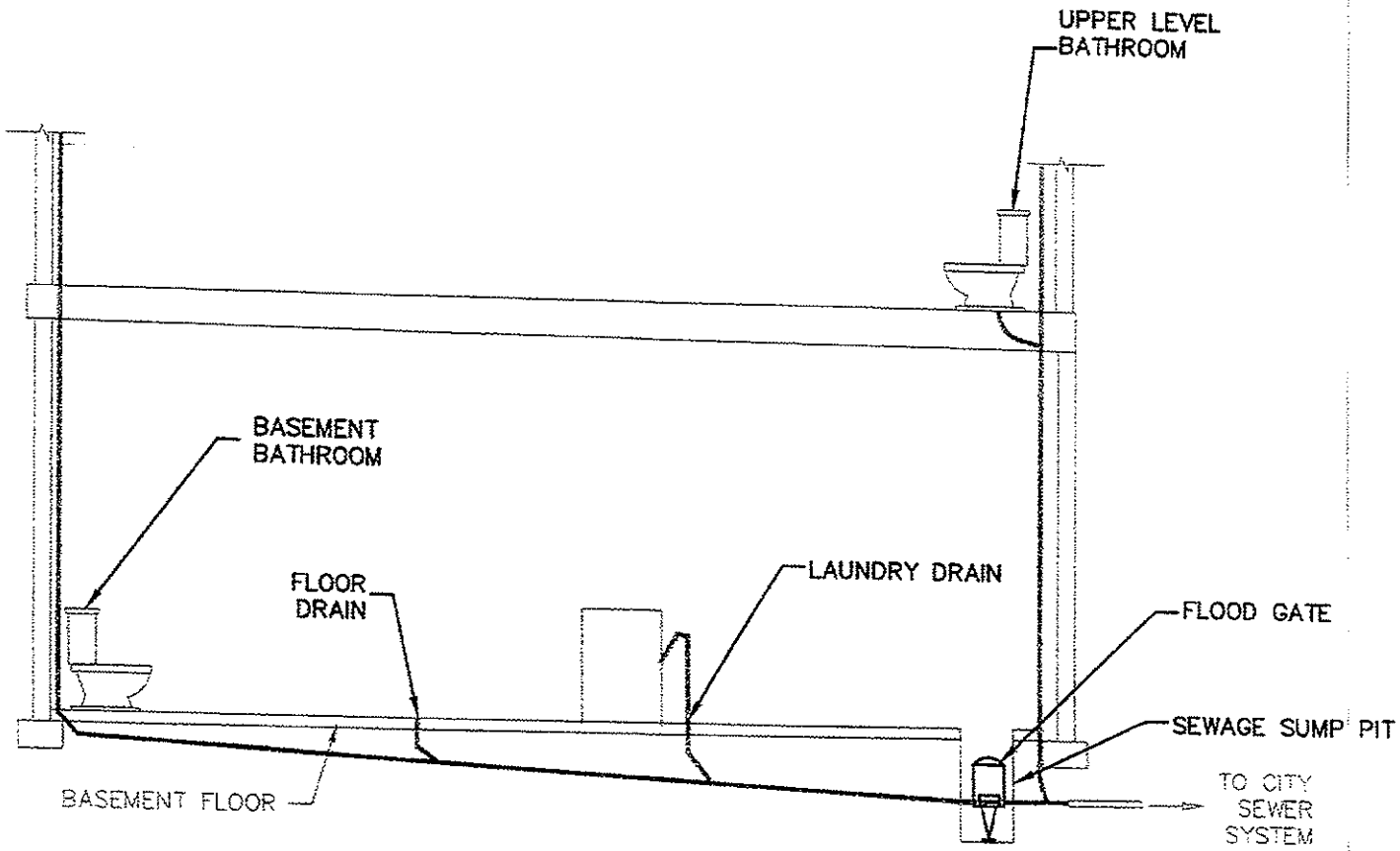
- NOTHING TO REMOVE TO RESTORE USE OF FLOOR DRAIN.
- NO PIPE PROJECTING FROM THE FLOOR DRAIN. (STAND PIPE)

DISADVANTAGES

- NEEDS ANNUAL MAINTENANCE TO OPERATE CORRECTLY AT AN ANNUAL COST.
- HOMEOWNER MUST BE HOME TO OPERATE GATE VALVE.
- CANNOT USE ANY PLUMBING IN THE HOME WHEN VALVE IS CLOSED.



SECTION VIEW OF A GATE VALVE



BACK FLOW PREVENTION OPTION 1
FLOOD GATE-N.T.S.

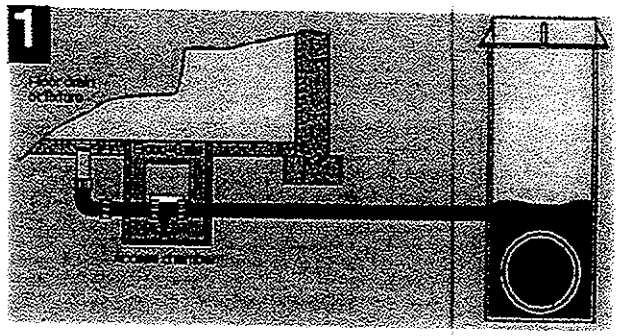
FLOOD GATE:

ADVANTAGES

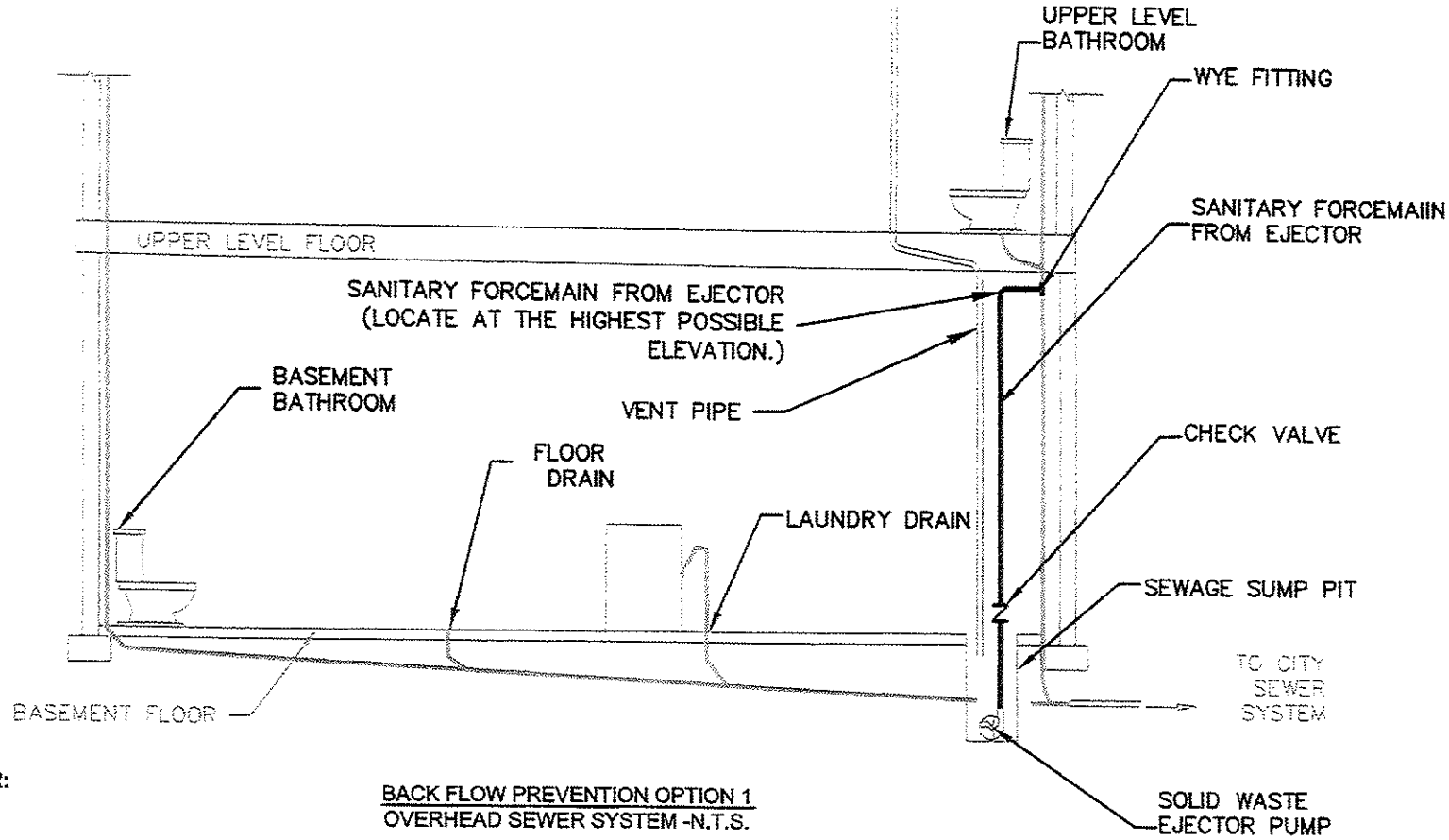
- OPERATES AUTOMATICALLY SO ON ONE HAS TO BE HOME TO OPERATE.
- OPTIONS ARE AVAILABLE TO KNOW WHEN VALVE IS OPEN OR CLOSED.

DISADVANTAGES

- NEEDS ANNUAL MAINTENANCE.
- CANNOT USE ANY PLUMBING IN THE HOME WHEN THE VALVE IS CLOSED.



FLOOD GATE



BACK FLOW PREVENTION OPTION 1
OVERHEAD SEWER SYSTEM -N.T.S.

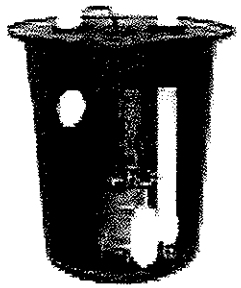
OVERHEAD SEWER:

ADVANTAGES

- NO ONE HAS TO BE HOME TO OPERATE.
- THE SYSTEM DOES NOT RELY ON A VALVE TO CLOSE TO PREVENT A SEWER BACK UP.
- LOSS OF POWER DOES NOT AFFECT USE OF UPPER LEVEL PLUMBING.

DISADVANTAGES

- SEWAGE EJECTOR PUMP WILL BE INOPERABLE DURING A POWER FAILURE.
- USE OF LOWER LEVEL PLUMBING DURING HEAVY RAIN SHOULD BE MINIMAL.



EJECTOR PUMP AND SUMP PIT