

Agenda
Village of Glen Ellyn
Village Board Workshop
Monday, May 20, 2013
7:00 P.M. – Galligan Board Room
Glen Ellyn Civic Center

1. Call to Order

2. Streetscape Plan and Parking Study – Planning and Development Planner Stegall

3. April Flood Event Update – Public Works Director Hansen
 - a. Sanitary System – RJN Engineers Presentation
 - b. Storm Water
 - c. Sanitary Sewer Service Line Repair /
Overhead Sewer Backflow Prevention Valve Grant Programs
 - d. FEMA Update

4. Other Items?

5. Adjournment

MEMORANDUM

TO: Mark Franz, Village Manager

FROM: Staci Hulseberg, Planning and Development Director
 Michele Stegall, Village Planner *MJS*

DATE: May 6, 2013

SUBJECT: Streetscape Plan and Parking Study Steering Committee

Background. In August of 2011, the Village was awarded a \$50,000 grant from the Chicago Metropolitan Agency for Planning (CMAP) to complete a Downtown Streetscape Plan and Parking Study. The completion of a streetscape study was recommended by the 2009 Downtown Strategic Plan and was to include recommendations for streetscape enhancements such as pavers, landscaping, street furniture and crosswalks. The Strategic Plan also recommended the construction of two parking garages in the downtown, one on the north side and one on the south side of the railroad tracks. The grant application proposed further evaluation of these two locations along with four other potential parking garage locations. The Village's grant was awarded with the condition that the Village also conduct a parking management study.

A Request for Proposals (RFP) was prepared and distributed in February of 2012. The Village received 14 proposals in response to the RFP. On May 21, 2012 the Village Board approved a contract with the team of Houseal Lavigne Associates, Gary R. Weber Associates, Engineering Resource Associates, Inc. and Walker Parking to complete the study. The consultant team then completed an assessment of current streetscape and parking conditions and began developing recommendations. A steering committee made up of key stakeholders and residents was formed to work with the consultant team. The committee met four times between October 2012 and April 2013 to review the consultant team's progress and provide feedback on the recommendations. As part of the process a business owner questionnaire, resident questionnaire and visual preference survey were also conducted and a public open house was held in March of 2013. The results of the questionnaires and survey as well as the input received at the open house all helped to inform the recommendations in the Plan.

Recommendation. At their April 10, 2013 meeting, by a vote of 7-0, the Streetscape and Parking Study steering committee unanimously recommended that the Village Board approve the study with a handful of suggestions, all of which have been incorporated into the proposed Plan.

Village Board Action. The Village Board is scheduled to review the Plan at its workshop meeting on May 20. Per the terms of the grant, the Plan must be approved by June 1. Therefore, action on the Plan is scheduled for the May 28 meeting. We are forwarding the Plan to the Board now to give Trustees additional time to review this large document. If any Trustees have questions about the Plan in advance of the May 20 meeting, please let us know.

Attachments: Minutes from October 16, 2012 Steering Committee Meeting
Minutes from January 30, 2013 Steering Committee Meeting
Minutes from February 6, 2013 Steering Committee Meeting
Minutes from April 10, 2013 Steering Committee Meeting
Resident Correspondence
Open House Comment Cards
Steering Committee Member List
Streetscape and Parking Study

Cc: Staci Hulseberg, Planning and Development Director
Phil Norton, Police Chief
Julius Hansen, Public Works Director
Bob Minix, Public Works Professional Engineer
Dan Gardner, Houseal Lavigne Associates
Lindsay Bayley, CMAP
Steering Committee Members

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MEMORANDUM

DATE: 5/13/13
TO: Mark Franz, Village Manager *MF*
FROM: Julius Hansen, Director of Public Works
RE: April 18, 2013 Storm Recap and Plans for Future Projects



1. Storm Recap:

The rain started on Wednesday April 17th and by midnight the Village had received about 2.25 inches of rain. Parts of the sewer system had reached maximum capacity but it continued to rain. Another 3.75 inches fell by early morning Thursday for a total of 6.64 inches of rain in less than a 24 hour period. Municipal sewer systems are not designed to handle that amount of rain in that amount of time. The storm was of such magnitude that the entire county was officially declared disaster area. Even so, the storm is an opportunity for the Village to make improvements to the system based on the information that was obtained. Recommendations for moving forward, along with costs, benefits and other considerations, will be presented to the Village Board.

2. Sanitary Issues

Sanitary sewer issues that involve having a sewer back-up into people's homes are considered the highest priority. Many citizens experienced sewer back-ups in the lower level of their homes during the April rain event. We want to correct that problem for as many people as possible and reduce the occurrence of these backups in the future. Citizens are encouraged to report sewer back-ups to the public works department so information can be gathered to identify areas of concern. We had 135 reports of sewer back-ups from this one rain event. It is likely that many other backups were not reported.

This is not an easy problem to solve because the sanitary sewer cannot be diverted anywhere when the system is at its maximum capacity. In fact there is no solution that is 100% guaranteed to solve all the problems for every storm because of this reason. However, steps can be taken that will reduce the sanitary sewer problems by improving both the public infrastructure and private property. The Village working together with the citizens can make a difference. It will take a commitment from the Village Board and the citizens of Glen Ellyn to support policies that reduce clear water (non-sanitary) into the sanitary sewer system and to improve the infrastructure.

A). RJN Group Consultant Engineers

RJN Group, consulting engineers from Wheaton, IL, have been working on evaluation of the Village sanitary sewer system. Project Engineer Karol Giokas and Project Manager Mike Young will be giving a presentation at the 5/20 workshop including an overview of the Village sanitary sewer system, from the sewer pipes on private property to the Glenbard Wastewater plant, and the work they have performed for the Village. They have also indentified work that needs to be completed in both the public and private sectors to reduce the storm water infiltration into the sanitary sewer system, as well as other potential options for system improvement.

The reduction of storm water into the sanitary system is a key component of any system improvements, increasing effective sewer capacity and helping to prevent sewage back-ups into people's homes. A surprising contributor of storm water to the sanitary system is sump pumps and footing drains in homes. The Village currently has a program to gradually eliminate these sources, but the program needs to be enhanced to remove these sources more quickly. Measures will be discussed at the workshop to improve the effectiveness of these programs. In addition to citizens doing their share of reducing storm water into the sanitary system the Village can take additional measures to improve infrastructure. These measures will be discussed. Both the private and public sector need to work together to make improvements to the sanitary system.

This is not unique to Glen Ellyn.

B). Current Proactive Programs

Utility Division Superintendent will discuss the following current proactive programs. Two programs need to be improved to reduce sanitary sewer flooding.

Sanitary Sewer Service Line Replacement Grant Program

The Sanitary Sewer Replacement Grant Program funded by a \$3.00 monthly fee attached to the sewer portion of the water and sewer bill has been in effect since December 20, 2004. This program is a onetime program that reimburses the resident 50% of the cost to replace the sanitary service line from where it ties into the main in the center of the street to 10 feet behind the curb. This program also funds 100% of the roadway and parkway restoration within the area of the share cost program. There is no cap on this program. No changes are recommended for this program.

Overhead Sewer Backflow Prevention Grant Program

The Overhead Sewer Program has been in effect since October 13, 2001. Since inception, 111 residents have utilized this program to convert to overhead sewers or installed backwater valves in their homes. This is a one time share cost program that will reimburse the owner of the residence 50% of the cost to install overhead sewers or a backwater valve with a program cap of \$2,500.00 per grant.

There are essentially two types of backflow systems that are typically installed. The simpler, less expensive and less reliable is a backwater valve that is essentially a check valve that allows

the sewage to only flow out of the residence. In theory, a check valve will work but they are prone to debris building up in the seat of the valve causing a failure to seal. Installation of a backwater valve should be followed by regular cleaning and maintenance to the valve. In addition, if the private sewer line is filled from the street back to the valve, any discharge from the home will begin to backup into the home.

Overhead sewer conversion consists of disconnecting all sub grade fixtures and floor drains from the gravity sewer system and re-plumbing them to a sealed and vented ejector pit that hydraulically lifts the effluent via an ejector pump to the floor joists level where a check valve is installed just prior to teeing into the vertical portion of the main sewer stack. This process is more costly and disruptive in the short term, but is more effective in the long term and is the system that we encourage residents to install.

Based on calls post April 18th, I estimate between 20 and 40 residents will convert to overhead sewer. To date, 49 grants or (44%) of the 111 grants maxed out at the current ceiling of \$2,500.00. As the cost of the conversion has increased since 2001 and will continue to increase with time, it is my recommendation that the Village fund this program at 50%, with no cap on reimbursement, just as the Sanitary Sewer Service Line Replacement Program is funded. This recommended change will be a greater incentive for citizens to participate in the program.

Clearwater inspection program

At the time of sale or title transfer the Village requires a Real estate Transfer Stamp to be issued. One of the requirements for the stamp to be issued is to pass a Clearwater inspection. Since January 1st of this year the Utilities Division has inspected 176 properties to ensure that no sources of clear water, such as storm sump pumps, downspouts or foundation drains, are directly plumbed to the sanitary sewer system. It is recommended that the Village increase the number of inspections annually and become more proactive in reducing this form of infiltration. A pilot program in a strategic problem area of the Village that would allow for a door to door systematic inspection would serve this purpose. These inspections in a well defined pilot area, along with enforcement, would allow for a true measurable reduction in clear water infiltration into the sanitary sewer, and once completed the program would be expanded. This is the most cost effective way to increase sanitary sewer capacity.

C). Public Works Sanitary Sewer System Improvements and Ongoing Maintenance

Professional Engineer Bob Minix will provide information on the improvements of the sanitary sewer system that have been completed and are ongoing. The street improvement program is a systematic reconstruction of streets but it is also the means of maintaining the infrastructure that is in the Village right of way. The improvements to the sanitary system as part of the street improvement program will be discussed. This infrastructure involves the sanitary sewer system. Portions of the sanitary sewer system is cleaned and inspected to maintain it to function as designed. This work is completed each year by a contractor and by public works employees.

The sanitary sewer system consists of 85 miles of sanitary sewer main. Every year Public Works construction projects replace approximately a half mile of old clay sanitary main with new PVC sanitary main and rehabs an additional two miles with cured in place (CIPP) pipe liner. Cured in

place lining essentially creates a new pipe inside of an old pipe without causing disruption to the roadways and right of ways that the sewers reside in. In addition, the Village has performed two manhole lining projects to rehabilitate manholes and correct defects.

The Utilities Division in conjunction with the help of contractors hydro-jets approximately 15 miles and televises 4 miles of sanitary sewer. In addition the division cleans approximately 260 storm sewer catch basins annually.

3. Storm Water Issues

The storm water system was overwhelmed just as the sanitary system was at maximum capacity. When the storm system has reached its maximum capacity overland flooding begins to occur. The storm water rapidly collects in low areas of the Village. Every low area in the street at the bottom of a hill collected storm water. Barricades were placed to the side at these street locations to caution motorists. If the water is at a depth that is too deep the street is closed completely. The water drains from all the streets rapidly once the rain stops.

Lake Ellyn is a low area and overland flooding occurs from the west into the lake at a tremendous rate. The lake overtopped on the north end and the emergency plan was deployed by Police, Park District and Public Works. A study of the lake has been completed to determine the best way to reduce the frequency of overtopping of the lake, and these recommendations will be forthcoming to the board for action (increase the capacity of the outfall structure, control the flow of water once the overtopping occurs).

The area of the Library near Melrose and Duane is another collection point for storm water because it is a naturally low area taking water from nearly all directions. The area of 277 Geneva is another collection point. The storm water filled back yards with water in these neighborhoods and in some cases the flood water entered homes. This type of storm water flooding needs to be looked at on a case by case basis and a plan developed to get the water to the street to drain without damaging property. Public Works will be working closely with Planning and Development to reduce overland flooding in as many cases as possible.

4. Summary of Future Plans

The storm has proven the need to take action to improve the Village sanitary sewer system. Eliminating storm water infiltration into the sanitary sewer system increases effective capacity of the system, reduces sewer back-ups, protects the environment, reduces the risk of enforcement action (EPA, IEPA, etc), and is a best management practice. This must involve both private and public sectors working together. On the public side this includes commitment of resources to maintain the public system, implementation of programs and education to encourage private cooperation, and where necessary enforcement of Village ordinances. This needs to be the objective moving forward. It will need to be a multi-faceted approach requiring Village Board commitment.

Several general recommendations should be considered to take further action:

- Investigate and evaluate all reports of flooding
- Improve Overhead Sewer Backflow Prevention Grant Program
- Improve Clearwater Inspection Program
- Review of Village ordinances
- Prioritize and recommend potential system improvements
 - System rehabilitation – manholes/pipes
 - Private Sector source removal
 - Capacity improvement options, including storage
- Commitment from the Village Board to allow enforcement of private sector clear water removal
- Consider and Finalize Lake Ellyn Improvements budgeted for FY 13/14
- Review other storm water flooding issues and consider improvements
- Manage both the public and private FEMA reimbursement processes

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SANITARY SEWER SERVICE LINE REPAIR COST SHARING PROGRAM



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Special points of interest:

- Share cost program became effective on July 26, 2000.
- Effective December 20, 2004, property owners constructing **Class II Additions** may be eligible to participate in some cases.
- Residents should contact the Village first if they experience sewer problems.

PUBLIC WORKS DEPARTMENT
 30 S. LAMBERT ROAD
 GLEN ELLYN IL 60137
 Phone: (630) 469-6756
 Fax: (630) 469-3128

GLEN ELLYN VILLAGE BOARD ADOPTS NEW PROGRAM

On July 26, 2000 the Glen Ellyn Village Board adopted a new program to share in the cost of some sanitary sewer service line repairs incurred by property owners. The current policy, which holds individual property owners' responsible for the maintenance and repair of sanitary sewer service lines, has not been modified.



The new cost sharing program became effective on July 26, 2000.

The new program provides a sharing of certain repair costs a property owner may incur when repairs are made to a sanitary sewer service line. The policy and all aspects of the cost sharing became effective

on July 26, 2000; it does NOT apply to any repairs made prior to that date. The cost for this program is estimated at \$180,000 per year. In order to pay for this program, a service charge of \$2.00 per user

per month has been established and is collected on the water and sewer bill. These funds will be used to pay for the Village's portion of the service line repair costs incurred by individual property owners.

WHEN DOES THE SHARE COST PROGRAM APPLY?

The Village will share in the cost of the repair of a sanitary sewer line when the repair falls under a Village street or within ten feet inside the edge of the curb or the edge of the street. In addition to sharing the cost of repair, the Village will pay for the restoration costs for this excavation. The new policy reduces the exposure of residents to major ex-

penses in the event of a sanitary sewer service line repair under or near the street.

Property owners constructing a new building or a **Class III Addition**, Alteration, Remodeling or Change of Use are not eligible to participate in this program.

Effective December 20, 2004 property owners constructing a **Class II Addition**, Alteration, Remodeling or Change of Use may participate in this program if the work is part of a project to replace the entire private sanitary service line from the building to the Village sanitary sewer main.

WHAT IS MY AREA OF RESPONSIBILITY?

The sanitary service line runs between the property owner's building to the connection point at the Village's sewer main. See typical diagram on page 4.

The property owner is responsible for maintenance and repair of the service line on private property and on the Village right-of-way. What is maintenance? Maintenance is the removal of materials that are flushed, dropped, inserted or growing in the service line including toys, baby diapers, construction debris and tree roots. When a plumber is unable to dislodge material in the sewer and restore service and feels that the blockage is in the right-of-way, the property owner must contact the Public Works Department while the plumber is still present.

There may not be an easy point of reference to determine where a repair is needed. It is the homeowner's responsibility to engage a plumber who can utilize electronic device to determine the location of sanitary service line and point of obstruction. This is to be supplemented by televising and video taping the interior of the service line to confirm the location of the obstruction and determine the extent of repair required in the service line.

Village staff must observe the efforts to determine the location of the needed repair and review a video tape showing the sewer service line pipe interior. Costs associated with determining the location of the obstruction and video taping of the service line are the responsibility of the property owner regardless of where the repair occurs.



The Village of Glen Ellyn requires a building permit for installation and repair of sanitary sewer service lines.

WHAT IF MULTIPLE LOCATIONS OF THE SEWER SERVICE LINE NEED REPAIR?

The Village will participate in the cost of the installation of a new service line within the described area for cost sharing if the information gathered supports this effort. This cost sharing is applicable only for the repair of blocked service lines on existing homes.

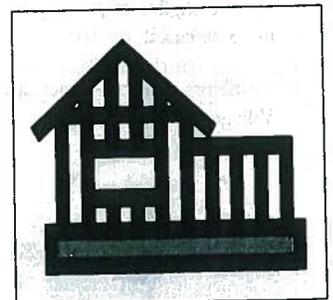
Cost sharing does not apply when a service line serves new homes or homes with significant (Class III) major additions or other modifications.

DO I NEED A PERMIT?

WHAT OTHER FEES SHOULD I ANTICIPATE?

The Village requires a building permit for the installation and repair of sanitary sewer service lines. The Village will collect a permit fee for all repairs done to sanitary sewer service lines. The permit fee pays the Village's cost for inspectors to oversee the work.

A security deposit of \$1000 is required on all work performed within the right-of-way. The security deposit provides assurance that any repair work located in the portion of the right-of-way the Village will not be restoring will be completed by the property owner. The security deposit will be returned upon complete restoration such portions.



A building permit is required for the installation and repair of a sanitary sewer service.

HOW DO I FIND A CONTRACTOR?

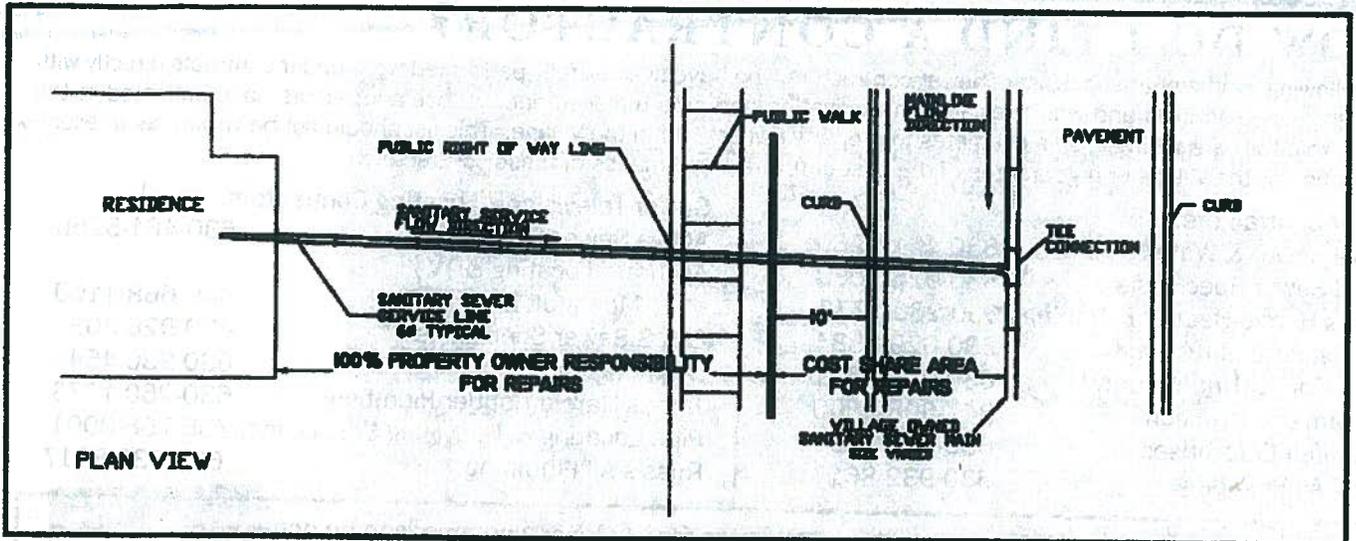
The following is an alphabetical list of sewer contractors who have successfully performed work under contracts directly with the Village of Glen Ellyn and who specialize in excavation and pipe replacement. These contractors have indicated to the Village that they are willing to give estimates to property owners within the Village. This list should not be viewed as a recommendation by the Village or a guarantee of the past or future performance of these contractors.

Sewer Contractors:		Sewer Televising / Locating Contractors:	
Active Sewer & Water	630-461-5260	Active Sewer & Water	630-461-5260
B & G Sewer Specialists	630-926-3038	Accurate Locating & TV / Muehlfelt Enterprises	630-668-1100
James Harold Beutjer Plumbing	630-260-1773	B & G Sewer Specialists	630-926-3038
John Neri Construction Co.	630-629-8384	Drainmaster	630-980-4544
Kane County Underground	630-945-7201	James Harold Beutjer Plumbing	630-260-1773
Martam Construction	847-608-6800	Pipe Locating & Televising Service Inc.	708-758-0001
Muehlfelt Enterprises	630-668-1100	Russ's All Plumbing	630-932-8617
Russ' All Plumbing	630-932-8617		

- The Village suggests that you receive three estimates for whatever work needs to be done.
- The estimates must be reviewed by Village staff prior to authorization of participation.
- In an emergency situation, Village staff may agree to sharing repair costs without receipt of three repair estimates.
- The property owner must receive the Village's approval before making a decision on a contractor.

WHAT STEPS MUST I TAKE TO BE REIMBURSED FOR MY EXPENSES?

1. A Grant Application must be submitted to the Public Works Department for evaluation and approval.
2. A private contractor must determine the location of the needed repair.
3. Village staff must concur with the private contractor's findings or agree to make a final decision after the excavation is completed if the information is inconclusive.
4. The property owner must obtain two to three acceptable quotes for any sanitary sewer service line repair work and a quote for a complete service line repair.
5. A DVD or VHS format video tape that requires no additional software downloads to view with location, date, project owner and contractors name must be submitted. A reviewable television report must accompany all sewer televising and utilize voice-over (or written report) and include starting and ending locations, direction of camera movement and description, starting and ending points of pipe failures.
6. After review of video tape and proposed quotes for repair, Village staff will provide the property owner with a letter obligating the Village of Glen Ellyn to pay one-half of the repair cost. The reimbursement would include the excavation, spoil removal, pipe removal and replacement, and backfilling costs associated with the repair. Village staff may authorize payment beyond the original estimate of the work if the scope of the work changed during the repair and the change was reviewed and observed by Village staff in the field.
7. The Village will use a separate contractor to restore the pavement and parkway with 100% of the costs borne by the Village. Any restoration of the portion of the Village parkway greater than 10' from the existing pavement or curb is the responsibility of the property owner.
8. Upon receipt of a paid in full itemized bill from the contractor utilized by the resident and a signed release form, the Village will reimburse one-half of the cost attributable to the work completed underneath the street or within ten feet of the curb or edge of the pavement. The Village will not reimburse the property owner for the costs incurred to determine the location of the repair, televising the sewer, or any maintenance costs incurred prior to the repair of the service line.



SANITARY SEWER SERVICE DIAGRAM

Questions?
Call Public Works at
(630) 469-6756

SEWER BACK-UP? CONTACT THE VILLAGE FIRST

When experiencing a sewer back-up, residents and homeowners are urged to call the Village before contacting a sewer or plumbing contractor. Village staff will check the main sewer lines to determine if the source of the problem is the responsibility of the Village or the homeowner and will advise the resident or homeowner of their findings.

Call Public Works at (630) 469-6756 Monday through Friday 7:00 a.m. to 3:30 p.m. and the Police Department non-emergency line at (630) 469-1187 after hours and on weekends.

WHAT DOES THE VILLAGE CODE SAY?

Chapter 9 Section 7-9-22 COST OF MAINTAINING SERVICE LINE: All users shall maintain and repair any service line from the user to the sanitary sewer, including any lifting means required by Section 7-9-15 of this Chapter, at their own cost and expense. Maintenance means keeping the sanitary sewer connection, service line, lifting means and other sewer facilities in satisfactory working condition and a good state of repair, including, but not limited to, preventing any obstruction, extraneous material or excessive flows of storm water from entering the service line, protecting the service line and facilities from any damage, keeping the service line and facilities free from defects or malfunctions and making necessary provisions and taking necessary precautions to assure that the service line and other facilities are at all times capable of satisfactorily performing the services and adequately discharging the functions and producing the final results and purposes, which the facilities are intended to perform, discharge or produce (Ordinance 4581, 4-13-1998, effective 5-1-98).

Chapter 9 Section 7-9-1 SERVICE LINE: The sewer line connecting any building with the public sewer, and extends from the building to the point of connection with the public sewer main.

WHAT ABOUT TREE ROOTS?

Maintenance work necessary to remove tree roots is not eligible for reimbursement regardless of the location of the tree roots. The policy requires residents to pay the entire cost of any in-pipe root removal efforts through the entire sanitary sewer service line. If the plumber hired cannot remove the roots by mechanical means, the Village should be contacted so that a determination can

be made as to the location of the obstruction and eligibility for Village participation in the cost of service line repair. Village staff would need to review the information collected by the plumber, including a copy of a video tape made of the service line, and then observe the sounding information used to determine the location of the obstruction prior to digging. The Village will participate in repair costs incurred be-

cause of tree roots, provided the locations are determined to fall within the area of Village participation and observed by Village staff during the work.



VILLAGE OF GLEN ELLYN

SANITARY SEWER SERVICE LINE REPAIR SHARE COST PROGRAM



Part 1 - GENERAL INFORMATION

Date: ____/____/____

Name: (Please Print) _____ Daytime Phone: _____

Address: _____, Glen Ellyn, IL 60137

Years of residency: _____

PLEASE SUBMIT THE FOLLOWING TO THE PUBLIC WORKS DEPARTMENT WITH THIS APPLICATION:

1. Copy of sanitary sewer service line television report of entire sanitary service.
2. Contractor's cost estimate. The Village suggests that 3 estimates be obtained.
3. Copy of Building Permit
4. Contractor's "Paid in Full" invoice
5. Copy of Final Inspection Report

Part 2 - SHARE COST PROGRAM ELIGIBILITY - equal to 50% of eligible costs.

 Approved Not Approved_____
*Signature of Public Works Official*_____
*Print Name*____/____/____
Date

Part 3 - CERTIFICATION OF FINAL INSPECTION

 Approved Not Approved_____
*Signature of Inspector*_____
*Print Name*____/____/____
Date

APPROVED PROJECT COMPLETION, REIMBURSEMENT REQUEST AND RELEASE OF ALL CLAIMS:

The undersigned, being of lawful age, does hereby release and forever discharge the Village of Glen Ellyn, Illinois and its executors, administrators, agents, employees and successors of and from any and all actions, claims, demands, costs, expenses and additional compensation as defined in the Village of Glen Ellyn Sanitary Sewer Service Line Repair Program.

It is expressly understood and agreed that in making this release, the undersigned accepts the agreed upon amount as payment in full for any obligation the Village may have incurred related to this program at the referenced address. It is also understood and agreed that participation in and reimbursement through this program is limited to one time only per address.

This release is executed with the understanding that the total compensation from the Village of Glen Ellyn, under its Sanitary Sewer Service Line Repair Program is \$_____, and relates to necessary repairs made on or about _____, 20____ at _____ Glen Ellyn, Illinois.

SIGNED this ____ day of _____, 20____.

*Signature of Applicant*_____
Print Name

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OVERHEAD SEWER BACKFLOW PREVENTION VALVE GRANT PROGRAM



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Special points of interest:

- Funds became available on October 13, 2001 to assist residents with sewer back-up problems
- Illegal sump pump connections can overload the sewer system during periods of heavy rainfall

PUBLIC WORKS DEPARTMENT
30 SOUTH LAMBERT ROAD
GLEN ELLYN, ILLINOIS 60137
 Phone: (630) 469-6756
 Fax: (630) 469-3128

HELP IS AVAILABLE TO RESIDENTS WITH SEWER BACK UP PROBLEMS!

The Glen Ellyn Village Board recently adopted a new program to provide grants to eligible residents who wish to have modifications made to their sanitary plumbing system to minimize the possibility of sewer backups during wet weather. The Village will reimburse a property owner up to \$2500 or 50% of the cost of installing an approved overhead sewer or backflow prevention valve, whichever amount is less. Participation in, and reimbursement through, this Grant Program is limited to one time only per address.

This program became



You may be eligible for partial reimbursement of the cost of improvements designed to minimize sewer back-ups.

effective retroactively on October 13, 2001. Any plumbing modifications made prior to that date are not eligible for grant considerations. Funding will be on a first come, first served

basis with initial funding for the fiscal year ending April 30, 2002 at \$100,000. Future funding levels will be set based on an annual review of the program.

SEWER BACK-UP? CALL THE VILLAGE FIRST!

When experiencing a sewer back-up, residents are urged to call the Village before contacting a sewer or plumbing contractor. Village staff will check the main sewer lines to

determine if the source of the problem is the responsibility of the Village or the homeowner and will advise the resident or homeowner of their findings. Contact Public Works at (630)

469-6756 7:00 a.m. to 3:30 p.m. Monday through Friday or the Police Department's non-emergency line at (630) 469-1187 after hours and on holidays and weekends.

WHAT IS THE PURPOSE OF THIS PROGRAM?

This program is designed to offer financial support to residents who decide to install plumbing modification to protect an individual home from the problems caused by sanitary sewer back-up. During very intense storm events, the sanitary sewer system which carries sanitary waste from residences can become overloaded. The sanitary sewer system is not completely water-tight. Groundwater can enter the sewer system through cracks and joints. Also, sump pumps, driveway drains, downspouts, foundation drains, and defective sewer service lines may illegally divert ground and rain water into the sewer. The addition of this extra amount of water into the sanitary sewer system can cause sewage to back up into the lower levels of residences.

The Village annually makes improvements to eliminate rain and ground water from entering the sewer system. These efforts include televising sewer mains to find the sources of problems and then repairing or replacing them. The Village also maintains an aggressive program to clean existing sewers so that capacities are not reduced by debris and roots which can impede flow. However, it is virtually impossible to eliminate all rain and ground water intrusion from the private property sources described in the preceding paragraph.

Even after measures have been taken to eliminate extraneous flows into a sanitary service collection system, certain residences will remain more susceptible to sewer back-ups during intense storm events than others because of minor elevation differences between the residence's internal plumbing system and the Village's sanitary sewer system. The grant program is designed to provide assistance to resident homeowners who wish to install an overhead sewer or backflow prevention valve to minimize the possibility of sewer back-ups.



"Today's building codes require that plumbing in the basement levels of homes be part of what is called an overhead sewer system"

WHAT IS A BACKFLOW PREVENTION VALVE?

A backflow prevention valve is a gate-type or check-type backwater valve typically installed within a small basin or manhole inserted into a home's sewer service line in the front yard. This valve prevents sewer back-ups when closed. Although this option may be cheaper than overhead plumbing and eliminates the need to modify interior plumbing, there are some potential disadvantages that must be taken into consideration. The house plumbing cannot be used while the valve is closed unless the valve is part of an automated system that has an ejector pump. The valve must also be accessible for servicing because they require periodic inspections and maintenance to be dependable. Figure 3 shows the location of a typical backwater valve.

WHAT IS AN OVERHEAD SEWER?

Figure 1 depicts a cross-sectional view showing an older type home connected to a sanitary sewer system at a time when the sanitary sewer system has become surcharged or overloaded during an intense storm event. Note that the high or surcharged level of sanitary sewage in the manhole in the street is higher than the plumbing outlets (in this case a floor drain and washtub) in the basement of the home. Since water flows by gravity to the lowest level, sanitary sewage would back up into the basement of this home with this type of plumbing configuration.

The plumbing system in homes generally built after 1970 are configured differently than the older home depicted in Figure 1. The 1970 and later building codes require plumbing in the basement levels of homes to be part of what is called an overhead sewer system. Figure 2 shows the modifications which must be made to convert an older-type plumbing system to an overhead sewer system. This system involves a sump pit, an ejector pump, and a watertight sewer line which generally runs under the first-floor floor joists. The sump pit collects the wastewater from the house and the ejector pump pumps it to the overhead sewer. The wastewater then flows by gravity through the private sanitary sewer service line from the home to the Village-owned community sewer. Generally speaking, if the first floor is higher than the rest of the building, it can drain by gravity and doesn't need to connect into the ejector system. The height of the overhead sewer and the ejector pump and its backflow check valve prevents sewage from backing up into the basement or crawlspace of the home. Installation of a separate storm sump pump for footing foundation drains may also be required.



"..consult with a licensed plumber to determine the most appropriate modification for your home."

IS THERE ANTHING ELSE I CAN DO TO PREVENT SEWER BACK-UPS?

Residents with unfinished basements who experience only marginal back-up problems may be able to utilize easier and less expensive solutions such as plugs or standpipes in drains to protect their homes against sewer back-ups. We suggest that you consult with a licensed plumber to determine the most appropriate modifications for your home. It should also be noted that the Village's Grant program only pertains to the installation of overhead sewers or backflow prevention valves.

Questions?
Call Public Works at
(630) 469-6756



"Interested applicants must submit a Grant Application to the Public Works Department for evaluation and approval."

HOW DO I FIND A PLUMBING CONTRACTOR?

The following is a list of contractors who have successfully performed work under contract directly with the Village and have indicated that they are willing to give estimates to property owners within the Village who wish to install plumbing modifications to protect their homes against sanitary sewer back-ups.

This list should not be viewed as a recommendation by the Village or a guarantee of the past or future performance of these contractors. The Village suggests that you receive at least three estimates for whatever work needs to be done. Contractors are listed in alphabetical order.

Armbrust Plumbing	(630) 668-6273
Jim Dhamer Plumbing	(630) 668-7999
James Harold Beutjer Plumbing	(630) 260-1773
Russ' All Plumbing	(630) 932-8617



AM I ELIGIBLE? HOW DO I GET REIMBURSED?

1. Interested residents must submit a Grant Application to the Public Works Department for evaluation and approval.
2. The applicant must take measures to ensure existing sump pumps, downspouts, foundation drains, area drains, etc. that illegally discharge ground and rain water into the sanitary sewer system are modified to eliminate such discharges.
3. The Village suggests that the applicant obtain *at least three estimates* from licensed plumbers for the installation of an overhead sewer or backflow prevention valve.
4. Once approved, the applicant must obtain a plumbing permit and any other permits which may be applicable from the Village's Planning and Development Department and pay the associated fees.
5. Upon completion of the installation of the overhead sewer system or backflow prevention valve and final inspection by the Village, the applicant will be reimbursed for 50% of the cost of the overhead sewer system or backflow prevention valve or \$2500, whichever is less. Only work performed after October 13, 2001 will be eligible. Participation in, and reimbursement through, this Program is limited to one time only per address.

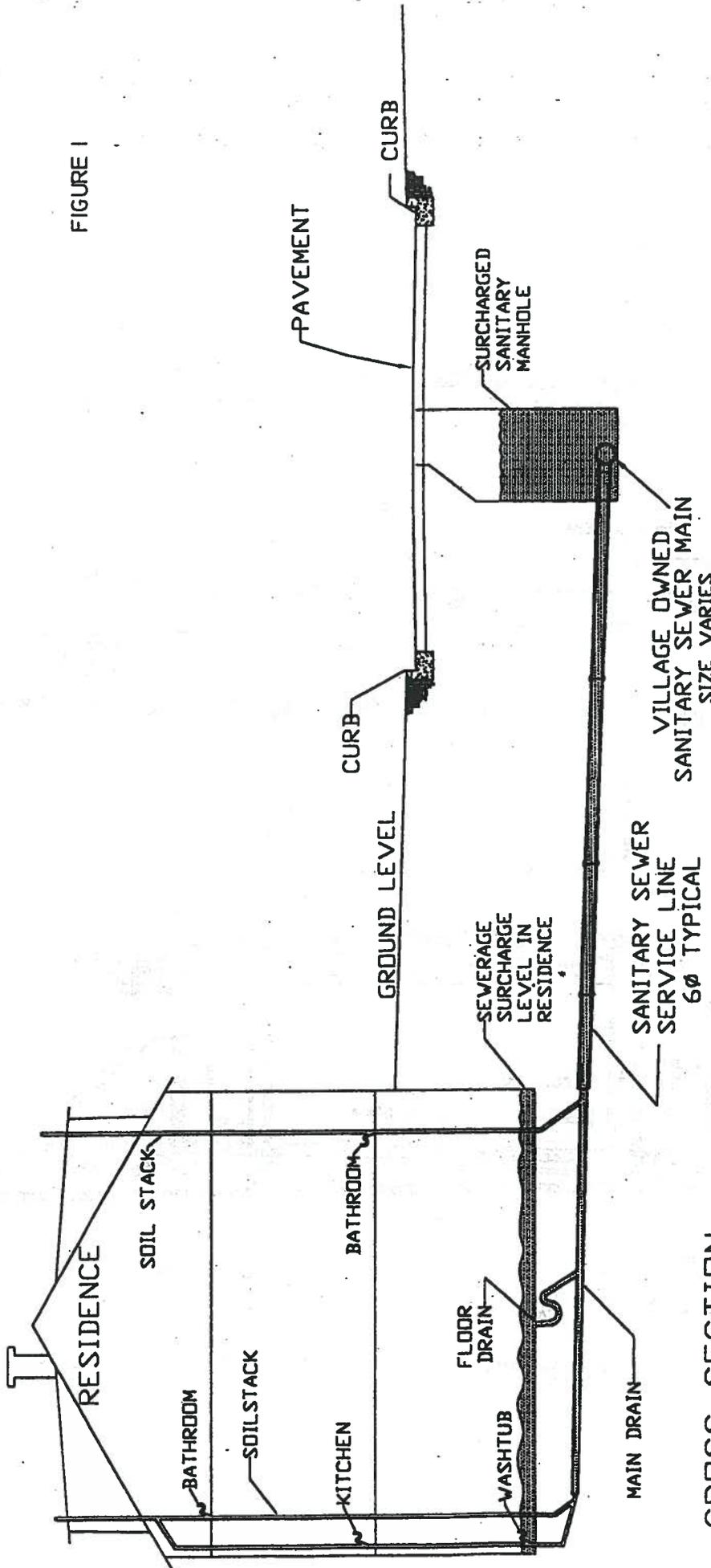
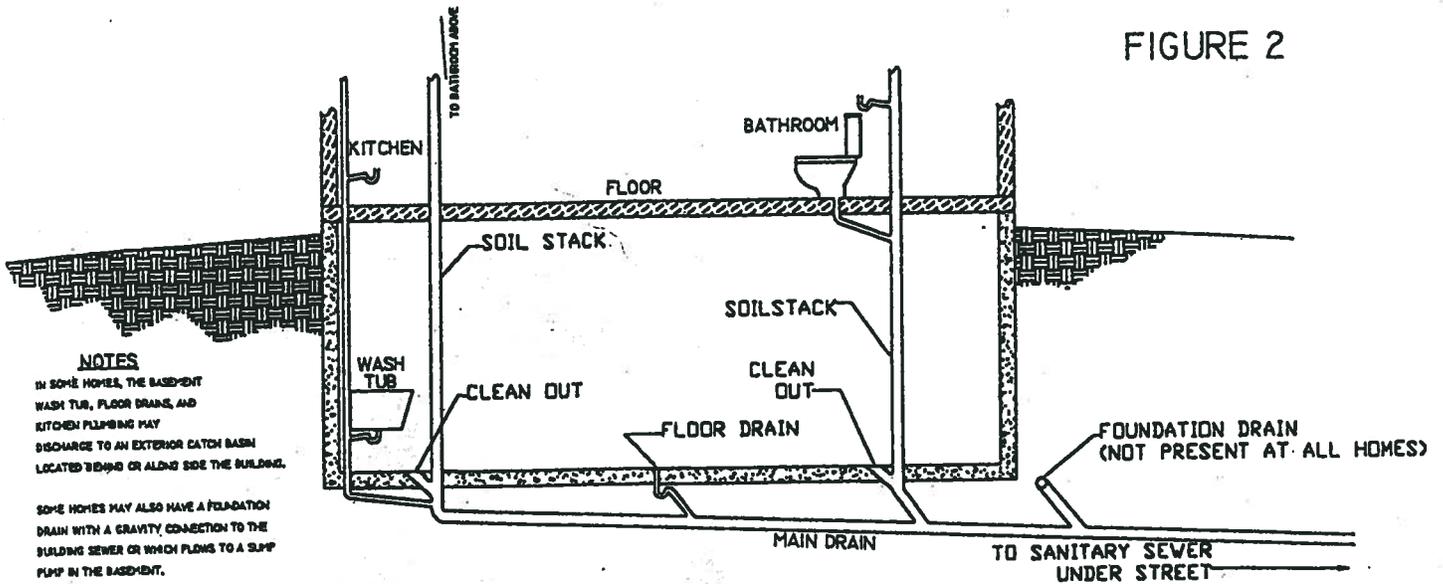


FIGURE 1

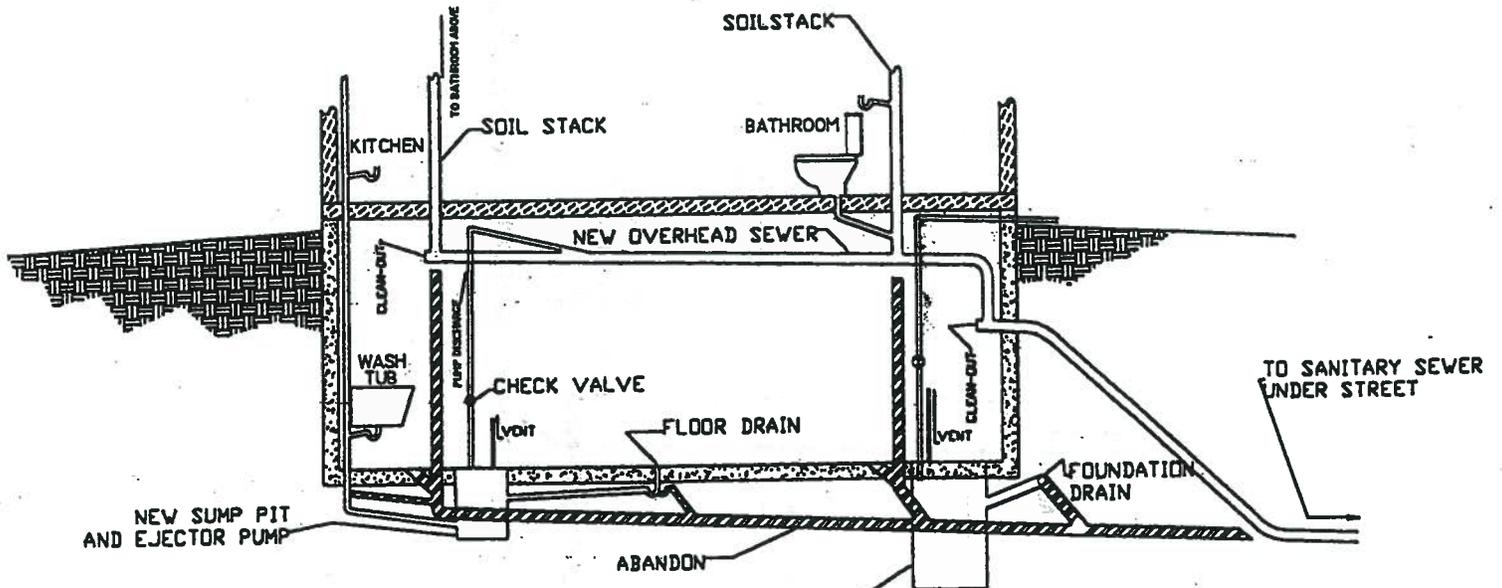
CROSS SECTION
 SHOWING BACKUP CONDITIONS (SANITARY SEWER OVERFLOW)

FIGURE 2



NOTES
 IN SOME HOMES, THE BASEMENT WASH TUB, FLOOR DRAINS, AND KITCHEN PIPING MAY DISCHARGE TO AN EXTERIOR CATCH BASIN LOCATED BEHIND OR ALONG SIDE THE BUILDING.
 SOME HOMES MAY ALSO HAVE A FOUNDATION DRAIN WITH A GRAVITY CONNECTION TO THE BUILDING SEWER OR WHICH FLIES TO A SUMP PUMP IN THE BASEMENT.

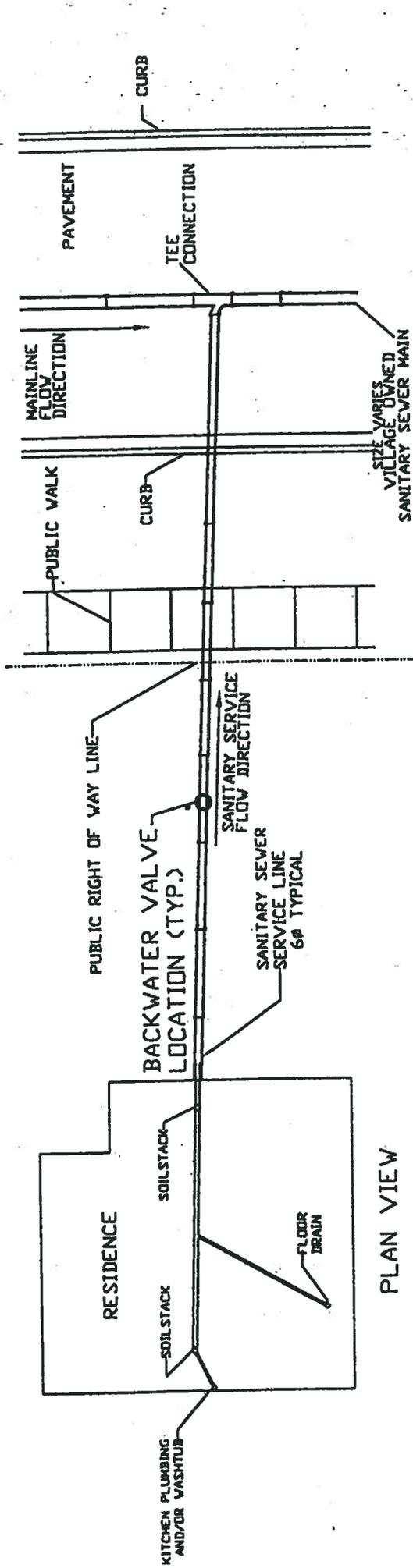
SECTION THRU BASEMENT SHOWING TYPICAL UNDER FOUNDATION SANITARY SEWER



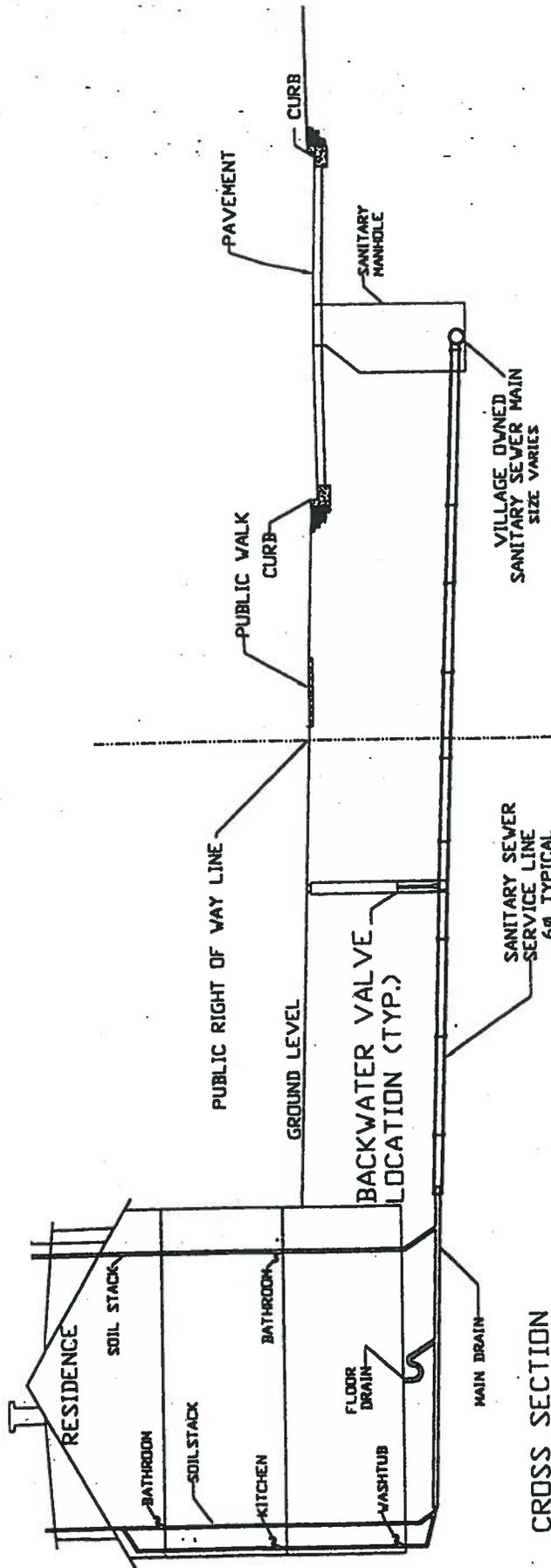
NOTE
 PUMP DISCHARGE MAY BE DISCHARGED TO A FRONT OR REAR YARD WHERE SUFFICIENT SPACE EXISTS TO ACCEPT FLOW

NEW STORM WATER SUMP PIT AND CLEAR WATER PUMP (IF NECESSARY) SEE NOTES THIS SHEET

SECTION THRU BASEMENT SHOWING MODIFICATIONS FOR OVERHEAD SEWER



PLAN VIEW



CROSS SECTION

SANITARY SEWER SERVICE DIAGRAM
SHOWING LOCATION OF BACKWATER VALVE

VILLAGE OF GLEN ELLYN

OVERHEAD SEWER / BACKFLOW PREVENTION VALVE GRANT PROGRAM



Part 1 - GENERAL INFORMATION

Today's date: ____ / ____ / ____

Name: *(Please Print)* _____ Daytime Phone: _____

Address: _____, Glen Ellyn, IL 60137

Number of sewer back-ups within the last 12 months? _____

Years of residency: _____ Number of sewer back-ups within years of residency: _____

PLEASE INCLUDE THE FOLLOWING WITH THIS APPLICATION:

1. Drawings of:
 - a. Basement area: indicate location of clean outs, floor drains, bathroom, laundry tubs, water heater, furnace etc.
 - b. Contractor's proposed work
2. A DVD or VHS format video tape of the sanitary service that requires no additional software downloads to view with location, date, project owner and contractors name. Include at least 20' outside foundation wall or inspection of exploratory excavation of sanitary service exposed to 5' outside foundation wall.
3. A reviewable television report must accompany all sewer televising and utilize voice-over (or written report) and include starting and ending locations, direction of camera movement and description, starting and ending points of pipe failures.
4. Contractor's cost estimate. The Village suggests that at least 3 estimates be obtained.

All existing sump pumps, down spouts, foundation or area drain lines discharging ground or rainwater into the sanitary system **must be eliminated** to qualify for Village reimbursement.

Signature of Applicant : _____

After review, Public Works Department will contact applicant. Applicant must then set up pre-inspection appointment with Building Department 630.469.5000 x5250).

(over)

Part 2 – GRANT PROGRAM ELIGIBILITY for 50% of system cost not to exceed \$2,500

Approved Not Approved

Signature of Public Works Official *Print Name* _____ / ____ / ____
Date

PRE-INSPECTION:

Signature of Public Works or Plumbing Inspector *Print Name* _____ / ____ / ____
Date

Signature of Plumbing Contractor *Print Name* _____ / ____ / ____
Date

NOTE: After pre-inspection approval by inspector, applicant must go to Building Department, 535 Duane Street to pay required fees to receive permit.

Part 3 – CERTIFICATION OF FINAL INSPECTION

Approved Not Approved

Signature of Inspector *Print Name* _____ / ____ / ____
Date

APPROVED PROJECT COMPLETION, REIMBURSEMENT REQUEST AND RELEASE OF ALL CLAIMS:

The undersigned, being of lawful age, does hereby release and forever discharge the Village of Glen Ellyn, Illinois and its executors, administrators, agents, employees and successors of and from any and all actions, claims, demands, costs, expenses and additional compensation as defined in the Village of Glen Ellyn Overhead Sewer/Backflow Prevention Valve Grant Program.

It is expressly understood and agreed that in making this release, the undersigned accepts the agreed upon amount as payment in full for any obligation the Village may have incurred related to this program at the referenced address. It is also understood and agreed that participation in and reimbursement through this program is limited to one time only per address.

This release is executed with the understanding that the total compensation from the Village of Glen Ellyn, under its Overhead Sewer/Backflow Prevention Valve Grant Program is \$ _____, and relates to necessary repairs made on or about _____, 20____ at _____
Glen Ellyn, Illinois.

SIGNED this _____ day of _____, 20____.

Signature of Applicant *Print Name* _____

Attached to this completed application are:

- ____ Copies of Contractor Estimates
- ____ Preliminary Drawing(s) of Work
- ____ Copy of Building Permit
- ____ Copy of Contractor's invoice (must indicate that invoice amount is paid in full)

Part 4 – AUTHORIZATION FOR REIMBURSEMENT

Approved for reimbursement in the amount of \$ _____ for overhead sewer / backflow prevention valve work performed in accordance with the terms of the Grant Program.

Signature of Public Works Official *Print Name* _____ / ____ / ____
Date