



CITY OF BRILLION

SANITARY SEWER LATERAL REMEDIATION AND MINI-STORM SEWER AND STORM SEWER LATERAL PROJECTS INFORMATION SHEET

This information sheet is being made available to you to answer questions or concerns you may have about the sanitary sewer lateral remediation and mini-storm sewer and storm sewer lateral being installed to your property.

BACKGROUND

The City of Brillion has experienced increasing flows in the sanitary sewer system over the past several years as a result of inadequacies in the system. The Main Lift Station and the Wastewater Treatment Plant have experienced problems with maintaining operations during heavy rain events and there have been basement backups during heavy rain events because of Infiltration and Inflow (I/I). Infiltration is water, other than wastewater, that enters the system from the ground. Sources of Infiltration include:

- Defective Pipes
- Pipe Joints
- Connections
- Manhole Penetrations or Joints
- Defective Laterals

Inflow is water, other than wastewater that enters the system from the surface. Sources of inflow include:

- Roof drains connected to the sanitary sewer system
- Yard drains connected to the sanitary sewer system
- Sump pumps connected to the sanitary sewer system
- Manhole covers
- Storm sewers and sanitary sewer cross-connections

The DNR has issued orders for the City to reduce the amount of I/I to stop the by-passing of sanitary sewage at the Main Lift Station and at the Wastewater Treatment Plant. The City has conducted investigations to determine the major sources of I/I. Based on the investigations it has been determined that a significant source of I/I is from private laterals that have deteriorated. The City proposed to implement a Private Lateral Remediation Program to reduce I/I in the system. The DNR has approved of this approach.

ORDINANCES

The following have been adopted/amended to implement the I/I Reduction Program:

- **Private Sewer Laterals – Municipal Code Sec. 98-197.** Prevents significant water inflow and infiltration into the City’s sanitary sewer system by assuring that private laterals are tested, inspected, maintained and repaired or replaced. The City of Brillion requires that the property owner replace/remediate their private sanitary sewer lateral if the lateral is found to be in violation of the City ordinances. *Sanitary sewer lateral remediation projects.* During a sanitary sewer remediation project, the City shall require that the property owner replace/remediate their private lateral if the lateral is found to be defective. The property owner shall, at the owner’s expense, make the necessary repairs to correct the deficiency (ies). The property owner may elect to; contract with a properly licensed contractor to complete the repair, or have the City contractor complete the repair. All work needed to accomplish the repair shall be done at the expense of the property owner. The sanitary sewer lateral remediation projects may include;
 - Replacement or remediation of defective private laterals.
 - Installation of sump pump/pit and drainage tile where required under subsection 98-297(d) or any other applicable law or ordinance.
 - Construction of mini-storm sewer in the terrace per section 98-196.
 - Construction of storm sewer laterals per section 98-196.
- **Stormwater and Groundwater Drains – Municipal Code Sec. 98-191.** No person shall make connection of roof downspouts, exterior foundation drains, areaway drains or other sources of surface runoff or groundwater to a building sewer or building drain that is connected directly or indirectly to a sanitary sewer. All existing downspouts, building sump pump discharge or groundwater drains, etc., connected directly or indirectly to a sanitary sewer shall be disconnected within 60 days of the date of an official written notice from the approving authority.
- **Storm Sewer and/or Laterals – Municipal Code Sec. 98.196.** The purpose of the mini-storm sewer and storm sewer lateral installation is to provide abutting property owners with a dependable storm sewer and lateral to collect sump-pump discharge. Storm sewer and/or laterals shall be installed where possible as part of every street reconstruction project in the City and property owners shall be required to connect any sump pump discharge to the lateral. If main line storm piping does not exist in the street, storm sewer and/or laterals shall be installed, as agreed by the City Council, and shall be maintained by the City. The property owner is responsible to make the connection from the home to the storm lateral. The connection shall be made within 60 days after notification from the City. Property owners shall be assessed for 50 percent of the total cost of the storm sewer and/or lateral project based upon a front foot basis.
- **Stormwater Regulation – Municipal Code Sec. 98-297.** The purpose of these regulations is to prevent safety hazards caused by inappropriate discharge of stormwater and reduce the unnecessary cost and burdens associated with treatment of stormwater by the wastewater utility. No persons may discharge stormwater from an outfall by combining such discharge with the sanitary sewer distribution or collection system of the City. No person may discharge stormwater from an outfall in such a manner that the discharge disperses directly onto the surface of any public sidewalk. *Sump pumps.* All sump pumps installed for the purpose of discharging stormwater and/or clear water from foundation drains, basement drains and ground

infiltration shall discharge into City storm sewer wherever available. Wherever City storm sewer is available shall require, for all building purposes, the connection of the sump pump drainage underground from the building proper to the storm sewer lateral per the specifications of the plumbing inspector in compliance with state code.

PROCEDURES

The City recognizes that its public sewer system has a finite life and, in many cases, has exceeded the useful life of the system. The City also recognizes that private building sewers possess many of the same characteristics as the public sewer system. The City will undertake the systematic reconstruction of the public sewer system. As part of this reconstruction, the City will conduct sanitary sewer lateral remediation projects. Per City Code, the City may periodically perform special tests to confirm the integrity of the sanitary sewer system, including smoke testing, dyed water testing, air testing, hydraulic testing, closed circuit television inspection, and other testing and inspection techniques approved by the Utility Commission. The City may enter private property to inspect or test a private lateral as allowed by law. The Utility Commission and City Council has adopted an I/I Reduction Plan. Prior to each year's project, the City will conduct wet weather televising to identify defects in the sanitary sewer system and private sanitary laterals that allow extraneous flow or debris to enter the private lateral or the discharge of sewage on the property, or a condition that may interfere with the proper operation of the private lateral. A defect may include;

- Any visible leak
- Evidence of pipe or joint deterioration
- Root intrusion into a pipe that separates a pipe joint or enlarges an existing crack
- A misaligned pipe segment, sag, or lack of positive gradient
- A lack of a necessary cleanout cap or manhole cover
- All failing materials
- A downspout, drain, or other connection that allows stormwater or other extraneous water to enter the sanitary sewer system
- A flaw that allows the discharge of sewage on the property or the introduction of extraneous water into the sanitary sewer system

Prior to the project beginning, a letter will be sent to all affected property owners with the cost estimate of the mini-storm sewer and storm sewer lateral. The property owners will then be given a wooden stake or lath to mark the location of the storm sewer lateral stub. If the property owner does not mark the location for the storm sewer lateral, the City contractor will place the lateral at an appropriate location. The storm sewer shall typically be 12 inches or less in diameter, and shall be parallel to the length of the road. Storm sewer laterals shall be installed to a point one foot beyond the property line as part of the project, and shall be 4-inches in diameter or larger as determined by the City engineer, and at a depth dependent on the available depth of the storm sewer. **All properties that have a sump pump and discharge onto the ground must hook up to the mini-storm sewer lateral.** The property owner is responsible to make the connection from the home to the storm lateral.

The property owner shall repair/replace defective private laterals from the main sanitary sewer line to the building. Property owners with defective private sanitary laterals will receive a notice from the City with the option of selecting the sewer lateral remediation option and costs associated with each option. Options include but are not limited to, open cut construction, or pipe bursting. Foundation

drains or drain tiles do not have to be installed, but the property owner may want to consider having a foundation drainage system installed. The foundation drain must be connected to a sump pit. Home inspections will be scheduled with the contractor and building inspector to determine the work to be done at each individual property. Generally the lateral will be remediated from the terrace (back of curb) to the building foundation or the floor drain in the basement. The extent of the remediation will depend on the construction method chosen and the condition of the lateral. The portion of the lateral between the terrace and part of the main line sewer that is not remediated at this time will be replaced as part of a future street or sanitary sewer construction project. The property owner will be responsible for the cost of the replacement of the remainder of the lateral in the future when that project is undertaken.

The project will include patching the basement floor if needed. Any other restoration needed in the home/building and basement will be the responsibility of the property owner and will not be done as part of the lateral remediation project. Any and all fences, trees, shrubs, swimming pools, decks, sheds, porches or other landscaping, paving or structures that will need to be removed in order to facilitate the remediation of the private lateral, will need to be removed and replaced by the property owner at their expense. Final restoration of the yard will be the responsibility of the property owner. The City contractor will backfill the trench or holes that are dug and rough grade the top soil. A two year settlement guarantee will be provided by the contractor. If excavated areas settle within 2 years of the completion of the project, the contractor will be required to make repairs. The contractor will not be responsible for final landscaping. The property owner is responsible to restore the lawn, pavement or garden areas that are disturbed as part of the project and to water the area.

After the project is complete, follow-up visits will be made to check that there is no clear water entering the basement and draining to the floor drain. If after the project is complete there is still clear water entering the basement and/or draining to the floor drain the owner will be required to take corrective action to the extent necessary to prevent clear water from entering the sanitary sewer system.

SPECIAL ASSESSMENT BILLING

Invoices will be mailed on or before October 1 of the year of assessment. Property owners will have no less than thirty (30) days from the date of the invoice to make payment, or choose to participate in the Installment Payment Plan as indicated below. Property owners who do not respond to the invoice will have the entire outstanding balance added to the annual tax bill in full as a special assessment. Installment payments will bear an interest rate of 1% above the City's borrowing rate on the unpaid balance. (Interest rate for new subdivision development is 1% above the City's borrowing rate.)

<u>AMOUNT DUE</u>	<u>PAYMENT PERIOD</u>
\$500.00 or less	Installments Not Available
\$501.00 - \$1,499.00	Three (3) years
\$1,500.00 or more	Five (5) years

Construction is never easy; there will be dirt, mud, dust and construction equipment. Please keep children away from the construction site to avoid injury. We ask for your patience and understanding as we make the necessary improvements to the sewer system. Thank you in advance for all your cooperation.

City of Brillion