

**Standards, Rules, and Specifications for the Individually  
Owned House Connections and Sewer Connections  
(St. Clair Township)**

**4.01 Authority for making sewer connections:**

- (A) No person shall make any sewer connections to the sanitary sewer main or laterals of the Town of St. Clair, St. Clair County, Illinois except on written application filed with the Supervisor of the Town and written acceptance thereof by the Supervisor.
- (B) No new sewer connections will be made unless adequate capacity is available in downstream sewers, lift stations, force mains and wastewater treatment plants, including capacity for treatment of flow, BOD, and Suspended Solids, and other constituents as the treatment capacity restricts.

**4.02 Application for sewer connections:**

- (A) Application for sewer connection to the sanitary sewer mains or laterals of the Town located within the Town shall be filed with the Supervisor on a form furnished by the Town. The applicant for such sewer connection shall pay all costs of labor and materials for installing the sewer connection and installation may be made only after the issuance of a permit by the Supervisor authorizing the sewer connection. An industrial user, as a condition of permit authorization, must provide information describing its wastewater constituents characteristics, and type of activity. The permit fee for such sewer connection shall be as follows:

- (1) Existing premises presently connected to a sewer system acquired by Town - No Charge
- (2) Residential Connection - \$1,000 per unit
- (3) Apartments - \$1,000 per unit
- (4) Trailers - \$1,000 each
- (4) Industrial & Commercial Connections - \$0.75 per square foot or fraction thereof, of each building, but not less than \$1,500 per unit and not more than \$5,000 per unit
- (5) Schools, Hospitals, Public Buildings and Churches - \$1,000
- (6) Tap location Fee - \$50
- (7) Inspection Fee - \$50
- (8) Call Back Fee - \$25

- (B) After notification by letter, newspaper or public posting, the property owner has ninety (90) days in which to complete the tap-in. Failure to file the application, pay the permit and other fees provided for herein, and complete the tap-in within said ninety (90) day period will result in the addition of \$150 to the above permit fees, in addition to the location and inspection fees.

#### **4.03 Requirement of Sewer Connections:**

##### **(A) Persons required to connect to Wastewater Facilities:**

The owners of all houses, buildings or properties, situated within the Town of St. Clair and abutting upon any street, alley or other easement or right-of-way in which there is now located, or may in the future be located, public sanitary sewer mains or laterals, shall be required at their expense to make application and connections to said sewers and shall be installed as herein before set forth. If said public sewer is within one hundred (100) feet of the closest property line and is of suitable size to handle the volume of sewage to be added, official notice will be given to the property owner informing him that the sewer is available and requesting that his connection be made within ninety (90) days following notification as herein before provided.

##### **(B) Costs Borne by Owner.**

All costs and expenses incidental to the installation, maintenance, repair or alteration of a sewer connection shall be borne by the Owner(s). The Owner(s) or his or her contractor(s) shall indemnify the Town from any loss or damage that may directly or indirectly be occasioned by the Town resulting from the installation, maintenance, repair, or alteration of the sewer connection, including but not limited to damage to the Town's sewer line or public streets or rights-of-way, and the costs to repair same, including, but not limited to costs of excavation and pavement repair. This section shall apply even in situations where the sewer line or lateral runs under a public street, right-of-way or uses a public easement.

##### **(C) Basement Wastewater Drainage.**

Whenever possible, the sewer connection shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the house connection.

##### **(D) Size, Slope, Alignment, Materials and Construction Procedures.**

- (1) The size, slope, alignment, materials of construction of a sewer connection and the methods to be used in excavating, placing of the pipe, jointing, testing and back-filling the trench, shall all conform to the requirements of this Ordinance, the building and plumbing code or other applicable rules and regulations of the Town, including the Illinois Plumbing Code, whichever is more restrictive.

(2) Size, Slope and Alignment of House Connections.

The sewer connection shall be at least a nominal six (6) inches in internal diameter. The slope or grade shall be at least one-eighth (1/8) inch to one (1) foot. Alignment shall be in a straight line from the "Building Drain" to the "tee" or "wye" at the public sewer.

(3) Materials.

Sewer connections shall be of polyvinyl-chloride (PVC) pipe that shall conform to Article 30-4.04 of the Standard Specifications for Water and Sewer Main Construction in Illinois.

(4) Trenching and Back-Filling – House Connections.

All excavations shall be open trench work unless otherwise authorized by the Supervisor or his representative. The foundation in the trench shall be formed to prevent any subsequent settling of the pipes. If the foundation is of firm earth, the earth shall be pared or molded to give a full support to the lower quadrant of each pipe. Bell holes shall be dug to provide ample space for joints. Care must be exercised in back-filling below the center line of the pipe in order to give it proper support. Back-filling shall be placed in six (6) inch layers and solidly tamped one foot above the pipe.

(5) Safety.

All excavations for sewer and house connection sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the Town.

**(E) Wye or Tee Connections to Public Sewer Required.**

The sewer connection into the public sewer shall be made at the "wye" or "tee" branch designated for that property, if available. Where "wye" or "tee" branches are not available, connections shall be made using approved drilled or sawed tap and saddle. Breaking of sanitary sewer will not be allowed. Procedures set forth in appropriate specifications of A.S.T.M. and W.P.C.F. Manual of Practice No. 9 shall be followed at all times. All such connections shall be made gas-tight and the prescribed procedures and materials must be approved by the Supervisor before installation.

**(F) Grease Traps/Interceptor.**

All proposed or newly remodeled food service establishments engaged in activities of preparing, serving or otherwise making available foodstuffs for consumption shall be required to install a grease trap/interceptor.

The grease trap/interceptor shall be installed at the user's expense and shall be properly operated and maintained at user expense.

**(1) General Criteria:**

(a) Sanitary Sewer flows

Sanitary sewer flows from toilets, urinals, lavatories, etc., shall not discharge into the grease trap/interceptor. These flows shall be conveyed separately by service lateral to the Town sewers.

(b) Floor drains

Only floor drains which discharge or have the potential to discharge grease shall be connected to the grease trap/interceptor.

(c) Garbage grinders/disposals

Each establishment shall be required to have a solid waste food product disposal plan. Every effort shall be made to dispose of normal solid waste or garbage through standard means of solid waste collection. The use of grinders/disposals is discouraged since it will decrease the operational efficiency of the grease trap/interceptor and will require the use to increase maintenance efforts to ensure continuous and effective operations. If a grinder/disposal is used it shall not be connected to the grease trap/interceptor.

(d) Dishwashers

Commercial dishwashers shall not be connected to the grease trap/interceptor.

(e) Location

Grease interceptors shall be installed outside the establishment, upstream from the sanitary sewer service lateral connection for all proposed food service facilities. A grease trap shall not be installed inside any part of a building without prior written approval of the Town Supervisor. Said approval will only be considered for establishments offering very limited services.

(f) Pass Trough Limits

No user shall allow wastewater discharge concentration from the grease trap/interceptor to exceed 100 mg/l (milligrams per liter) as identified by EPA method 1664.

**(2) Design Criteria:**

**(a) Construction**

Grease trap/interceptors shall be constructed in accordance with the Town standards and shall have a minimum of three compartments with fittings designed for grease retention. 1,000 gallon grease interceptors shall be designed in accordance with Appendix A, and 1,500 gallon grease interceptors shall be designed in accordance with Appendix B.

**(b) Access**

Access to grease trap/interceptors shall be available at all times. Access to trap shall be provided by two manholes, terminating at finish grade with cast iron frame and cover. In-building grease traps approved by the Supervisor shall be available during the establishment's operating hours.

**(c) Load Bearing Capacity**

In areas where additional weight loads may exist, the grease interceptor shall be designed to have adequate load-bearing capacity. (e.g. vehicular traffic in driving or parking areas.)

**(d) Additional Requirements**

Grease traps shall comply with the Illinois Plumbing Code 77, E, Part 890.510 wherever they are more restrictive than the requirements of this Ordinance.

**(e) Inlet and Outlet Piping**

Wastewater discharging to a grease trap/interceptor shall enter only through the inlet pipe of the grease trap/interceptor. Each grease trap/interceptor shall have only one inlet and one outlet pipe.

**(f) Grease Trap/Interceptor Sizing**

(i) The minimum size for grease interceptors shall be as follows:

Full Service restaurant	1,500 gallon
Limited Service restaurant	1,000 gallon

(ii) The user shall submit design calculations, sealed by a licensed professional engineer in Illinois detailing the required size of grease interceptor for the establishment. If the minimums above will not adequately service the establishment the user shall detail on their plans the larger size necessary.

(iii) The maximum size grease interceptor allowed is 3,000 gallon. If the calculated capacity required exceeds 3,000 gallon, multiply units plumbed in series shall be installed.

- (iv) The Town Supervisor shall determine whether an establishment is Full Service or Limited Service after review of the proposed menu.
- (v) When the Town Supervisor has issued written permission to install the grease trap on the interior of the establishment, the user shall submit design calculations per the Uniform Plumbing Code, latest edition, sealed by a licensed professional engineer in Illinois, detailing the required size of grease trap for the establishment.

**(3) Maintenance:**

**(a) Cleaning/Pumping**

- (i) The user at the user's expense shall maintain all grease trap/interceptors to assure proper operation and efficiency to maintain compliance with the Town's Pass Through Limits.
- (ii) Maintenance of grease trap/interceptors shall include complete removal of all contents including: floating material, waste water, bottom sludge and solids. This work shall be performed by a qualified and licensed hauler. Decanting or disposing of removed waste water back into the trap from which it was removed or any other grease trap/interceptor is prohibited. This service shall include a thorough inspection of the grease trap/interceptor and its components. Any needed repairs shall be noted. Required repairs shall be made within 60 days at the user's expense.

**(b) Cleaning/Pumping Frequency**

The grease trap/interceptor must be pumped out completely a minimum of once every four months or sooner as needed to maintain compliance with the Town Pass-through Limits.

**(c) Disposal**

All waste removed from the grease trap/interceptor must be disposed of at a facility approved to receive such waste. Returning the waste to any public or private portion of the Town sanitary sewer system shall be prohibited. The user shall be responsible for acquiring a manifest from their licensed waste hauler. Said manifest to include: date, time and amount pumped, information on the licensed hauler and the disposal site.

(d) Maintenance Log

- (i) A grease trap/interceptor cleaning/maintenance log indicating each pumping or repair for the previous 24 months shall be maintained on premises by the establishment. This log shall include all manifests required to be obtained above, a listing of any required repairs and record of any repairs made. This maintenance log shall be made available to Town personnel at their request.
- (ii) The Town may perform periodic inspections of these facilities and shall notify the user of any additional required maintenance or repairs. Upon written notification by the Town, the user shall be required to perform the maintenance and record said maintenance within 14 calendar days. Upon inspection by the Town the user may be required to install, at his expense, additional controls to provide a complete system which prevents discharges of undesirable materials into the wastewater collection system.

**(4) Additives**

- (a) Any biological additive(s) placed into the grease trap/interceptor or building discharge line including but not limited to, enzymes, commercially available bacteria, or other additives designed to absorb, purge, consume, treat, or otherwise eliminate fats, oils, and grease shall require written approval by the Town prior to use. The use of such additives shall in no way be considered as a substitution to the maintenance procedures required herein.
- (b) Chemical treatments such as drain cleaners, acid, or other chemical solvents designed to dissolve or remove grease shall be allowed to enter the grease trap/interceptor.

**(G) Sand, Soil and Oil Interceptor**

All car washes, truck washes, garages, service stations, car and truck maintenance facilities, fabricators, utility equipment shops, and other facilities (as determined by the Town) that have sources of sand, soil, or oil shall install effective sand, soil and oil traps, interceptors, and/or oil/water separators. These systems shall be sized to effectively remove sand, soil, and oil at the expected flow rates. Design shall comply with the Illinois Plumbing Code 77, E Part 890.520. The user shall submit design calculations, sealed by a licensed professional engineer in Illinois, detailing the required size of the sand, soil or oil interceptor for the establishment. These systems shall be, at the user's expense, cleaned or pumped on a regular basis to prevent impact upon the wastewater collection and treatment systems. Users whose systems are deemed to be ineffective by the Town shall be required to change the cleaning frequency or to increase the size of the system. Owners or operators of washing facilities will be required to prevent the inflow of detergents and rainwater into the wastewater collection system. Oil/water separator installations shall be required at facilities that accumulate petroleum oils and greases and at facilities deemed necessary by the Town.

**(H) Laundries**

Commercial laundries shall be equipped with an interceptor with a wire basket or similar device, removable for cleaning, that prevents passage (into the wastewater collection system) of solids 1/2 inch or larger in size such as fabric, strings, buttons, or other solids detrimental to the system.

**(I) Control Equipment**

- (1) The equipment or facilities installed to control fats, oils, grease (FOG), food waste, sand, soil, oil, and lint must be designed in accordance with the applicable state and local codes, most current engineering standards, or other applicable guidelines approved by the Town. The user shall submit to the Town design calculations, sealed by a licensed professional engineer in Illinois, detailing the required size of the items. Underground equipment shall be tightly sealed to prevent inflow of rainwater and shall be easily accessible to allow regular maintenance and inspection. Control equipment shall be maintained by the owner and/or operator of the facility as to prevent stoppage of the wastewater collection system, and the accumulation of FOG, food waste, sand, soil, and lint in the collection lines, pump stations, and wastewater treatment plant. If the Town is required to clean out the wastewater collection lines as a result of a stoppage resulting from poorly maintained control equipment (or lack thereof) the owner or operator shall be required to refund the labor, equipment, materials, and any overhead costs to the Town including any fines incurred due to any sanitary sewer overflow due directly to the stoppage. The Town retains the right to inspect and approve any and all installations of control equipment.
- (2) The Town reserves the right to require additional control measures if existing control equipment is shown to be insufficient to protect the wastewater collection system and wastewater treatment plant from interference due to the discharge of FOG, sand, soil, lint, or any other undesirable materials.

**(J) Changes in Ownership and Use of Premises**

Irrespective of any change in ownership or actual use or non-use of the premises, each parcel of real estate for which application for sewer connection has been filed and accepted by the Town, shall be liable for the payment of the periodic wastewater service charge hereinafter provided.

**(K) Unlawful Connections**

- (1) No person(s) shall make connection of roof downspouts, foundation drains, areaway drains, or other sources of surface runoff or groundwater to a house connection or building drain which in turn is connected directly or indirectly to a public sanitary sewer unless such connection is approved by the Supervisor for purposes of disposal of polluted surface drainage.

- (2) It shall be unlawful for any septic tank or cesspool to be connected to the sewer line from a building, and it shall be unlawful for any owner or person in control of premises to install, construct, maintain or use a septic system or cesspool on premises from the time the sanitary sewer system of the Town becomes available to the premises.

**(L) One Sewer Connection Per Building**

A separate and independent building sewer connection shall be provided for every building. However, where one such building stands in the rear of another, both under the same ownership, such building located on an interior lot, the building connection from the front building may be extended to the rear building upon issuance of a written permit by the Town.

**(M) Use of Old Connections for New Building**

Old connections may be used in connection with new buildings only when they are found, on examination and test by the Supervisor to meet all requirements of this ordinance.

**(N) Defective Sewer Connections**

Whenever a sewer connection is obstructed, or is found to be broken or defective so that sewage escapes therefrom into surrounding soil or adjacent premises, repair or replacement may be ordered by the Supervisor or his representatives. Such repairs shall be at the expense of the owner or person in control of such property. When a part of a sewer connection is found to be broken or broken into, such break or leak shall be properly repaired by replacing the broken part with a corresponding new part. Patching of such break or leak is prohibited.

**(O) Inspection and Approval of Sewer Connection**

The applicant for a sewer connection permit shall notify the Town when the sewer connection installation or repair is ready for inspection and connection to the sanitary sewerage system of the Town. The connection shall be made only under the observation of the Supervisor or his representative of the Town or his representative. It shall be unlawful for a sewer connection to be covered or back-filled without prior inspection and approval by the Supervisor or his representative. The Supervisor or his representative shall have access at all reasonable times to all premises in the Town for the purpose of inspecting or examining sewer connections.

**(P) License and Permit Bond for Sewer Connection**

No permit for a sewer connection shall be issued by the Supervisor unless the person applying therefor or his or her contractor shall have filed in the Office of the Town Clerk, a license and permit bond with corporate surety thereon in the sum of One Thousand Dollars (\$1,000.00) for a sewer connection, approved by the Supervisor. Said bond shall be held by the Town Clerk for one (1) year from completion of construction of the sewer connection.

**(Q) Insurance**

No permit for a sewer connection shall be issued by the Supervisor unless the person applying therefor or the contractor shall have first procured Public Liability Insurance in an amount not less than \$1,000,000 for injuries, including accidental death, to any one person and subject to the same limit for each person in an amount not less than \$2,000,000 on account of one accident, Property Damage Insurance in an amount not less than \$1,000,000. The persons to be indemnified and saved harmless in said insurance policies shall be the Town of St. Clair, its employees, elected and appointed officials, and the Highway Commissioner of St. Clair Township, Illinois. A certificate of said insurance, naming the Township as an additional insured, shall be filed with the Town Clerk.