

Section 1

General

A. Definitions

Applicant: Developer and/or Owner requesting capacity allocation from SLSA.

Authority: The Suburban Lancaster Sewer Authority (SLSA), a Pennsylvania municipal authority, acting by and through its board or, in appropriate cases, acting by or through its authorized representative.

Authority Engineer: An engineer retained or employed by the Authority, including any authorized member of the staff of such engineer.

City: Any reference to “the City” pertains specifically to the City of Lancaster, which owns and operates the wastewater treatment plant that receives all flow from the SLSA sanitary sewer system. City of Lancaster personnel also maintain the SLSA sanitary sewer system.

Condominium Unit: An individually-owned unit that is contained within a building of multiple units that is owned by a condominium association. The units are not on individual lots.

Connection: The joint, or the process of joining, the service line with the sewer lateral.

Contractor: Individual, partnership, company or corporation that performs the installation of sewers and/or pumps and pumping stations.

Developer: Any individual, partnership, company or corporation which (a) promotes and effects the construction of sanitary sewers and/or pumping stations, the ownership of which is intended to be dedicated to the Authority, or (b) connects to the Authority’s system.

Improved Property: Any property upon which there is erected any structure intended for continuous or periodic habitation, occupancy or use by human beings or animals and from which structure sanitary sewage and/or industrial wastes shall be or may be discharged.

Industrial Waste: Any solid, liquid or gaseous substance or water-borne wastes or form of energy ejected or escaping from any industrial, manufacturing, trade or business process or from the development, recovering or processing of natural resources, as distinct from sanitary sewage.

Inspector: Individual employed by the Engineer or appointed by the Authority to perform field inspection of work carried out under these regulations.

Municipality: Refers to the three townships located within the SLSA service area: West Lampeter Township, Pequea Township and portions of Lancaster Township.

Owner: Any individual, partnership, company, association, society, corporation or other group that is vested with ownership, legal or equitable, sole or partial, of any property situated in the service area of the Authority.

Professional Engineer: An individual licensed and registered under the laws of the Commonwealth of Pennsylvania to engage in the practice of engineering.

Professional Land Surveyor: An individual licensed and registered under the laws of the Commonwealth of Pennsylvania to engage in the practice of surveying.

Right-of-Way/Easement: The right of the Authority and its representatives to use real property for the purpose of installing, improving and maintaining sanitary sewer facilities.

Sanitary Sewage: The normal water-carried household and toilet waste from any improved property, excluding, however, the effluent from septic tanks, cesspools, rain, storm and ground water, as well as roof or surface water, drainage or percolating or seeping waters, or accumulation thereof, whether underground or in cellars or basements.

Service Line: That part of the main house drain or sewer line extending from the outer building wall or foundation wall to its connection with the sewer lateral at the easement or right-of-way boundary.

Sewage Treatment Plant: The sewage treatment plant used by the Authority is the City of Lancaster Wastewater Treatment Plant.

Sewer Lateral: That section of a sanitary sewer that extends from the sewer main to the property which it serves and connects to the service line at the easement or right-of-way boundary.

Sanitary Sewer System: System comprised of sewer mains, sewer laterals, sewage pumping stations, sewer force mains, and all appurtenant facilities owned and operated by the Authority for the purpose of collecting and conveying sanitary and/or Authority-approved industrial waste.

Storm Sewer or Storm Drain: A pipe or conduit which carries storm water, surface water, drainage and certain industrial water discharges, such as cooling and air-conditioning waters.

Street: A public way including any highway, street, road, lane, court, public square, alley or other passageway.

Townhouse Unit: A building that is owned by an individual property owner and is located on a lot that may or may not be owned by the property owner.

B. Conditions of Service and Standard of Quality

1. No connection, through which sanitary sewage or industrial waste does or may enter the sewer system, shall be constructed, altered, repaired, or allowed to exist, which does not comply with these Standard Specifications.
2. All construction, reconstruction, and alterations of sewer connections and appurtenances shall be performed in a competent, workmanlike manner in accordance with recognized standards of the plumbing trade and specifications currently on file with the Authority. The Authority in its sole discretion may stop, or require reconstruction of, any work not conforming to these standards or specifications at the developer's expense.
3. No connection to the sewer system shall be made except under the supervision of the Authority or its authorized representative. The application and its acceptance by the Authority shall constitute, from the date of acceptance by the Authority, a contract obligating the applicant to pay rates and charges and to comply with the Standard Specifications which shall be established by the Authority from time to time.
4. Sewer service shall be furnished only after:
 - a. The Owner of the improved property to be served shall have installed, at his own cost and expense, the service line in accordance with the Standard Specifications; and
 - b. The Authority has inspected and observed testing of said service line and approved such facilities as complying with the Standard Specifications.
5. Whenever improved property that is connected to the sewer system is vacated, the Owner shall give prompt notice to the Authority.
6. Whenever improved property that is connected to the sewer system is sold, or otherwise conveyed, the purchaser and/or the seller shall promptly notify the Authority of such sale or conveyance.

C. Extensions by Developers

1. Where an individual, builder, or developer desires to extend sewerage service to a house or to a group of houses within a development, he may do so after having made proper written application to the Authority and having met all of the conditions of these Standard Specifications. All extensions so constructed shall include, without limitation, all laterals, sewers and other necessary appurtenances and shall be constructed by and at the expense of the developer. All construction shall be done in accordance with plans and

specifications approved by the Authority prior to the start of construction, and subject to inspection, testing, and approval by the Authority or its designated representative.

2. Plans and Specifications

a. Approved Preliminary Development (Construction) Drawings

All construction drawings shall be submitted on 24" x 36" sheets. Complete sets of drawings must be prepared for all proposed facilities and shall include the following required information.

- (1) A site plan showing all lots in the development. Also included shall be an overall plot plan of the proposed collection system showing the location of sewers, laterals and manholes as well as the point of connection to the existing sanitary sewer system.
- (2) Manhole numbers and arrows depicting the direction of flow in sewers shall be included. Existing manholes shown on the plan shall be labeled with the proper SLSA manhole designation.
- (3) The location of all existing and proposed wells in the development shall be shown.
- (4) Plans of the sewer lines and force mains shall be at a scale that most clearly shows the proposed sewer system; however, the horizontal scale shall not exceed 1" = 50' (i.e., 1" shall not represent more than 50' on the drawings).
- (5) Profiles of sewer lines and force mains shall have the same horizontal scale as the plans and a vertical scale that most clearly depicts the proposed vertical alignment. The profiles shall show existing and proposed grade, rim and invert elevations relative to the Authority's datum. The survey datum for all plans shall be based on the Lancaster County GIS datum. Plans prepared with elevation information extracted from existing Suburban Lancaster Sewer Authority plans shall be adjusted accordingly to conform to this datum.
- (6) Plans and profiles of sewer lines shall be shown on the same sheet. Plans shall include all relevant rights-of-way, property lines and addresses (or lot numbers if addresses have not yet been established), existing buildings, utilities and any other pertinent details necessary for construction of the facilities. Profiles shall include slopes, line sizes, materials of construction and the stationing of all manholes, utility crossings and any other pertinent objects.

- (7) Specifications, design calculations and complete design drawings including plans, sections and details shall be provided if a pumping station, grinder pump or related facilities are proposed. The drawings shall be provided at suitable scales large enough to show clearly what is intended.
- (8) The location of both sewer and water laterals and the stationing of the sewer laterals from the downstream manhole shall be provided at the discretion of the Authority's Engineer.
- (9) Plans should indicate all easements as required for sanitary sewers or other utilities. In those cases where sanitary sewer lines which are to be dedicated to SLSA will be installed on private property, legal descriptions and plans for sanitary sewer easements shall be furnished. In addition, the name and address of all property owners who will be granting easements to SLSA and the name and address of any lien holders who hold mortgages or judgments against the property through which the easements will be granted shall be provided.
- (10) All plans submitted for review shall be sealed and signed by a registered professional engineer (required if plans include the design of a pumping station) or land surveyor.
- (11) Approval of the preliminary drawings does not exonerate the Applicant from constructing facilities in accordance with these sanitary sewer specifications in the event of a reviewer oversight during the plan review process. The Authority's inspector will enforce the construction of all facilities in accordance with these sanitary sewer specifications.

b. Record Drawings

- (1) Record drawings of sewers, sewer laterals, force mains, pumps, pumping stations, and other facilities which discharge sewage to the Authority's sewer system shall be prepared and submitted to the Authority when construction has been completed. In addition, the angle of a sewer lateral from perpendicular to the sanitary sewer main must be provided if the angle is greater than 5 degrees.
- (2) The drawings shall be to scales as described in subparagraph 2.a above and shall be provided on the same base plans as the approved preliminary development plans. Sewer profile elevations shall be re-surveyed and construction plans updated accordingly. The record drawings shall bear the signature of a professional engineer or a professional surveyor (with the exception of plans including pumping station design, which must be sealed by a professional engineer).

- (3) Upon review and approval of the record drawings, one set of mylar reproducibles and two sets of prints of all the newly constructed facilities shall be provided. An overall plan sheet showing the full extent of the project (extracted from the approved preliminary plans, with a key plan if applicable) shall be included in the sets submitted.
- (4) For the purpose of maintaining the Authority's Geographical Information System (GIS) database, the developer shall provide, in digital format, a drawing file compatible with the version of AutoCAD software as specified by the Authority's Engineer. The drawing file shall depict all physical entities associated with the newly installed sanitary sewerage facilities including, but not limited to, manholes, sanitary sewer mains, laterals, force mains, grinder pumps and pumping stations. Entity locations shall adhere to the spatial standards used by the Lancaster County GIS, the details of which are specified below:
 - (a) Projection: Lambert Conformal Conic
 - (b) Coordinate System: State Plane, Zone 3702 (Pennsylvania South)
 - (c) Horizontal Datum: North American Datum 1983
 - (d) Vertical Datum: NAVD 1988
 - (e) Units: Feet

c. Specifications

The materials to be used shall be specified on the construction drawings. The Authority reserves the right to require the submission of written specifications of any aspect of the construction that deviates from these Standard Specifications.

3. Shop Drawings

Shop drawings shall be submitted for all items to be used in the construction of the facilities. Approval of shop drawings must be obtained prior to installation of such items.

4. Inspection and Testing

a. Inspection of Work

All construction work performed under these regulations shall be subject to inspection and testing by the Authority Engineer. No sanitary sewers, pumps, pumping stations, force mains, lateral connections, service lines or

other sewerage facilities shall be connected to the Authority's sewer system until such inspection has been carried out and approval given by the Authority's Engineer.

b. Required Notice for Inspection Services

It shall be incumbent upon the Contractor to notify the Authority's Engineer a minimum of 24 hours in advance of when inspection is needed. All subsurface construction shall be inspected before any backfilling is done. Accommodation of a request for inspection services when less than 24 hours advance notice is provided shall be solely dependent on the Engineer's availability. Any work done by the Contractor that requires inspection services shall be done solely at the Contractor's risk when less than 24 hours advance notice is given to the Engineer.

When inspection services have been scheduled with the Authority's Engineer, it shall be incumbent upon the Contractor to notify the Authority's Engineer of any changes to the inspection schedule. If changes in the Contractor's work activities result in the need to cancel scheduled inspection services, the Contractor shall notify the Authority's Engineer a minimum of 24 hours prior to the time the inspection was originally scheduled for. In the event that the Contractor does not provide a minimum of 24 hours notice for cancellation of inspection services, the Authority reserves the right to bill the Developer for 4 hours of inspection time regardless of whether any inspection was performed. This shall only apply under conditions when the Contractor has properly scheduled inspection and would reasonably be expected to work, and shall not apply to cancellation of work resulting from circumstances beyond the control of the Contractor (i.e., weather).

Inspection costs will be borne by the Developer.

c. Testing

Testing of sewer lines, manholes and other facilities is described in detail in each section of these regulations.

d. Inspection of Other Utilities

The Authority reserves the right to visit the site for the purpose of inspection during construction of the water utilities (or other utilities, if deemed necessary). The purpose of such visits shall be to ensure adherence to the approved plans of all utilities relative to the sanitary sewerage system. The frequency of site visits for construction of utilities other than sanitary sewer, as well as the length of time on site during these visits, shall be as required to ensure the integrity of the sanitary sewerage

facilities. All costs for such inspection by the Authority's Engineer shall be borne by the Developer.

e. Connection to Existing System

In an effort to avoid the introduction of sewer gases into a newly constructed sanitary sewer extension, it shall be incumbent on the Contractor to securely plug the new sanitary sewer line at the point of connection to the active line as soon as reasonably possible without interfering with the construction of the remainder of the line. The plug shall remain securely in place until such time that all newly constructed sewerage facilities have been successfully tested and inspected by the Engineer. Alternatively, the Contractor may choose to withhold connecting into the active sewer until such time that all newly constructed sewerage facilities have been successfully tested and inspected by the Engineer.

5. Private Sewer Extensions

- a. Construction of all sewerage facilities shall be in accordance with the Standard Specifications regardless of whether the facilities are intended to remain privately-owned or be dedicated to SLSA.
- b. All sanitary sewer extensions intended to be privately-owned shall require a metering manhole at a location approved by the Authority's engineer prior to the point of connection into the SLSA-owned system. The intent of the metering manhole is to provide the Authority with a location to install and maintain access to a permanent or temporary meter if, at some future date, there is a concern about possible excessive infiltration/inflow from the privately-owned development. Therefore, the location of the metering manhole shall be such that all sewage flow generated from the privately-owned development shall flow through the metering manhole. The metering manhole shall be provided with a sewer metering flume installed in the manhole. The flume shall be approved by the Authority's engineer prior to installation. All costs associated with construction of the metering manhole and the manufacturer- certified installation of the flume shall be borne by the developer. The metering manhole shall be dedicated to SLSA. A metering manhole detail is included with the Standard Details at the end of this document.

D. Permits

1. Connection to SLSA Sanitary Sewer System

No person shall uncover, connect into, make any opening into, or use, alter or disturb in any manner any sewer without first making application for and obtaining a permit, in writing, from the Authority. Application to the Authority for a permit required hereunder shall be made by the Owner of the improved property to be served, in such form as may be prescribed by the

Authority. The application shall be accompanied by such tapping and connection fees as may be required by the Authority.

2. Street and Highway Openings:

a. Township Roads

Whenever the surface of any public street, sidewalk, or cartway is disturbed by construction of the sewer lines, it will be the responsibility of the Developer to secure and maintain street opening permits from the municipality having jurisdiction.

b. State Roads

Highway Occupancy Permits (HOP) for any work to be performed in state highways shall be obtained in the name of the Authority upon request by the Developer. The Developer shall be responsible for preparing the HOP application and upon completion shall present it to the Authority for signature.

3. Approval by the SLSA inspector of all or part of any work performed under permit issued by an independent agency shall not constitute acknowledgement that the work was performed in accordance with such permit; nor shall such approval by the inspector be construed as a release of the applicant from his obligations to meet the requirements of the permit, or a waiver of SLSA's right to seek enforcement from the permitting agency.

E. Industrial Waste Regulations

1. On September 16, 1994, SLSA entered into an agreement with the City of Lancaster whereby the City is responsible for the administration and enforcement of the Authority's Industrial Waste Regulations. Any person wishing to discharge industrial waste to the SLSA sewer system shall coordinate such action directly with the City of Lancaster.
2. On November 21, 2007, the Suburban Lancaster Sewer Authority adopted, by resolution, the industrial pretreatment and discharge provisions of Chapter 249 of the Code of the City of Lancaster as set forth in Ordinance No. 15-2007, adopted by Lancaster City Council on September 15, 2007. By this action, all discharges to the SLSA sewer system shall be in full compliance with Chapter 249.
3. Violation of Industrial Waste Regulations
 - a. Any person who discharges or causes to be discharged any water, sanitary sewage, or industrial waste containing any substance or possessing any characteristic prohibited by or in violation with Article 921, upon notice

from the Authority or its designated representative, shall immediately cease and desist from such violations. If such person fails to cease such violation after notice has been given, then the Authority shall have the right to order same to disconnect from the sewer system.

- b. Any person who causes harm or damage to the sewer system as a result of violation of Article 921 shall be liable to the Authority for the full cost of such harm or damage.

F. Special Requirements

1. All construction activities shall conform to the most current requirements of the Occupational Safety and Health Act (OSHA).
2. All equipment used on roadways shall be equipped with rubber tires or treads. If other than rubber tires or treads are used, the pavement shall be properly protected. If pavement, curb and/or sidewalk is damaged or marred by construction equipment, the areas shall be restored at no cost to the Authority.
3. A competent Contractor representative shall be identified and made available within two hours in case emergency situations arise during non-working hours.
4. The local police and fire departments shall be informed of the work schedule and of possible street obstructions.
5. Blasting for excavation shall be permitted only after securing approval(s) and establishing the hours of blasting. The blasting procedure, including protection of persons and property, shall be in strict accordance with federal, state and local regulations.

G. Detail Drawings

Relevant detail drawings are:

- 30 Metering Manhole

END OF SECTION