



Licking County Health Department

675 Price Road

Newark, OH 43055

Sewage Treatment Design Guidance

To ensure that your design is processed quickly and efficiently, please include the following items on all STS design plans:

- ✓ Site Visit
 - The designer or designee must visit the site of the proposed installation prior to submitting a design plan
 - The soil absorption component area must be staked, flagged, fenced, or painted for identification and protection
- ✓ System Information
 - Property address and township
 - System Type
 - Household Sewage Treatment System (HSTS) or Small Flow On-Site Sewage Treatment System (SFOSTS)
 - Daily Design Flow in gallons per day
 - Designer name and contact information
- ✓ Materials and System Components
 - Tank type - size, brand, and distributor
 - Lift station (if applicable) – size, pump size (HP and GPM), brand, and distributor
 - Distribution materials – piping, distribution device, and diversion mechanism
- ✓ Soil Absorption Type and Material
 - For Leaching Design
 - Leaching trench product
 - Trench description – number of lines, length, width, and maximum depth
 - For Mound Design
 - Absorption area – width, length, aggregate depth, and sand fill depth
 - Slope – side slope ratio, width of upslope/downslope/endslope
 - Drawing of mound top and side view
 - Other Design
 - Include appropriate information
- ✓ Drainage (if applicable)
 - Perimeter/Gradient drain – depth, gravel size, and gravel depth
 - Interceptor drain – depth, gravel size, and gravel depth

- Engineered drainage – soil type, drain depth, drain spacing, lowered water table depth, gravel size, and gravel depth
- Drainage discharge point description
- Indicate if an inspection port is required
- ✓ Any applicable installation notes
- ✓ Site Drawing must include the following
 - Scale
 - All STS devices and components
 - Including but not limited to: cleanout(s), piping, piping angles, tank(s), distribution device(s), soil absorption layout, drainage, control panel, alarms(s), inspection ports
 - Location Surface Features
 - Test holes
 - Replacement area
 - Disturbed areas
 - Drainage features
 - Wooded areas
 - Hardscapes existing STS
 - Other features
 - Location of the following items with demonstration that required isolation distances are met
 - 10-foot isolation distance for all components of a STS – utility service line, roadway or road surface, driveway or other hardscape, property line or right-of-way, properly sealed well, any building or other structure, areas with recorded easements, intermittent streams, swales, geothermal horizontal closed loop systems, irrigation lines, GWRS.
 - 50-foot isolation distance for soil absorption component – any surface water impoundment, lake, river, wetland, perennial stream, road cut-banks, or stream, cut-banks.
 - 50-foot isolation distance for all components of a STS – any water supply source and vertical open and closed loop geothermal heating and/or cooling system
 - North directional arrow
 - Ground surface elevations