

***RESOLUTION 101
CARROLL COUNTY HEALTH DEPARTMENT
UNIFORM HOME SEWAGE REGULATIONS***

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RESOLUTION NO. 101

REGULATIONS AND ORDERS WITHIN THE CARROLL COUNTY GENERAL HEALTH DISTRICT TO BE KNOWN AS REGULATION NO. 101 OF THE CARROLL COUNTY BOARD OF HEALTH, GOVERNING THE INSTALLATION AND OPERATION OF PRIVATE, RESIDENTIAL, WATER SUPPLIES, IN ACCORDANCE WITH CHAPTER 3701.28 O.A.C., AND PRIVIES, PRIVY VAULTS, CHEMICAL PRIVY TANKS, SEWAGE AND INDIVIDUAL HOUSEHOLD SEWAGE DISPOSAL EQUIPMENT, IN ACCORDANCE WITH CHAPTER 3701-29 O.A.C., AND MISCELLANEOUS SANITATION REQUIREMENTS NOT OTHERWISE CONTROLLED BY LAWS OF THE STATE OF OHIO OR BY THE OHIO DEPARTMENT OF HEALTH, AS SAME MAY BE FROM TIME TO TIME AMENDED OR MODIFIED.

BE IT ORDERED BY THE BOARD OF HEALTH OF THE CARROLL COUNTY GENERAL HEALTH DISTRICT, AS FOLLOWS:

SECTIONS

- Section 1.0.....Definitions
- Section 2.0.....Sewage Disposal Requirements
- Section 3.0.....Subdivisions
- Section 4.0.....Written application, installation, (permit & operation permit)
- Section 5.0.....Registration of installers of sewage disposal systems or parts thereof
- Section 6.0.....Registration of sewage tank cleaner
- Section 7.0.....Septic tanks
- Section 8.0.....Aeration type treatment system
- Section 9.0.....Surface sand filter following an aeration type treatment system
- Section 10.0.....Installation requirements for soil absorption & percolation
- Section 11.0.....Leaching tile field
- Section 12.0.....Evapo-Transpiration Mound
- Section 13.0.....Curtain Drain
- Section 14.0.....Subsurface Sand Filter
- Section 15.0.....Privies
- Section 16.0.....Building Sewer
- Section 17.0.....Inspections
- Section 18.0.....Abandoned Household Sewage Disposal System
- Section 19.0.....Miscellaneous Requirements for Household Sewage Disposal Systems
- Section 20.0.....Miscellaneous Sanitary Items
- Section 21.0.....Hearings
- Section 22.0.....Variance

SECTION 1.0 DEFINITIONS:

As used in Resolution 101-1990: Section 1.0 to 25.0 and Amendments thereto of the Carroll County Sanitary Code.

1.1 **Aeration type treatment system** means any system which utilizes the principles of oxidation in the decomposition of sewage by the surface absorption of air for a sufficient period of time to affect adequate treatment.

1.2 **Alter** means to change by making substantive additions or deletions in location, design, or materials of existing household sewage disposal systems.

- 1.3 **Bedroom** means any room within a dwelling that might reasonably be used as a sleeping room including but not limited to rooms designated as a den, office, or study.
- 1.4 **Board of Health** means the Board of Health of the Carroll County General Health District, or the authority having the duties of a board of health in any city as authorized by Section 3709.01 of the Revised code.
- 1.5 **Building sewer** means that part of the horizontal piping of a drainage system which receives the discharge of the building drain and conveys it to public sewer, private sewer, individual sewage disposal system, or other points of disposal.
- 1.6 **Dwelling** means any building or place used or intended to be used for human occupancy as a single family, two-family, or three-family residence, including but not limited to house, apartments, duplexes, triplexes, house trailers and mobile homes.
- 1.7 **Health Commissioner** means the health commissioner of the Carroll County General Health District or his authorized representative.
- 1.8 **Household sewage disposal system** means any sewage disposal or treatment system or part thereof for a single family, two-family, or three-family dwelling which receives sewage.
- 1.9 **Installer** means any person who installs or is in the business of installing or excavating for a household sewage disposal system or part thereof.
- 1.10 **Leaching system** means that part of a household sewage disposal system used to dissipate the liquid waste by the means of evaporation, transpiration, soil absorption, or soil percolation.
- 1.11 **Leaching well** means any covered pit with lining designed to permit sewage to seep into the surrounding soil.
- 1.12 **Lot** means the legally subdivided land area used or intended to be used as a single family, two-family, or three-family dwelling site.
- 1.13 **Nuisance** means any condition that is or may become injurious to the health, safety, comfort, or property of an individual or of the public.
- 1.14 **Parcel** means a single individual taxed unit of land containing only a single dwelling.
- 1.15 **Person** means the state, any political subdivision, public or private corporation, partnership, firm, association, individual, or other entity.
- 1.16 **Privy** means any sanitary, waterless device for the collection and storage of human excreta but does not include chemical or other portable receptacles.
- 1.17 **Sanitary sewerage system** means any public or community sewerage collection system conveying sewage to a central sewage treatment plant.
- 1.18 **Secured cover** means a removable cover or manhole that prohibits unwarranted or unauthorized removal.
- 1.19 **Septic tank** means any watertight, covered receptacle designed and constructed to receive the discharge of sewage from a building sewer, separate solids from the liquid, digest organic matter, and store

digested solids through a period of detention, and allow the clarified liquids to discharge for final disposal.

1.20 **Sewage** means any liquid waste containing animal or vegetable matter in suspension or solution and may include liquids containing chemicals in solution, from water closets, urinals, lavatories, bathtubs, laundry tubs or devices, floor drains, drinking fountains, or other sanitary fixtures.

1.21 **Sewage tank** means any watertight tank designed to retain sewage solids for bacterial decomposition and includes, but is not limited to, septic tanks and aeration type treatment tanks.

1.22 **Sewage tank cleaner** means any person who collects or is in the business of collecting, transporting, or disposing of the contents of sewage tanks or privies.

1.23 **Subdivision** means that which is defined by Section 711.001 of the Revised Code.

1.24 **Easily accessible** means of such location and design as to permit exposure or easy exposure with the use of only simple tools, such as screwdriver, pliers, open-end wrench, or other simple tool supplied by the manufacturer.

1.25 **Normal ground water table** means the shallowest depth of soil which is saturated with water for an extended or permanent time period.

1.26 **Seasonally high water table** means the temporary or perched depth of soil which is saturated during a season, a temporary period of time, or as a temporary condition.

1.27 **Treated sewage effluent** means the liquid emitted from a state approved aeration treatment tank which is functioning properly and legally.

SECTION 2.0 SEWAGE DISPOSAL REQUIREMENTS

2.1 The design, construction, installation, location, maintenance, and operation of household sewage disposal systems including, but not limited to, septic tanks, aeration type treatment systems, filters, leaching tile fields, leaching wells, building sewers, and privies or part thereof shall comply with these regulations and engineering practices acceptable to the Ohio Department of Health and current Ohio Environmental Protection Agency effluent standards.

2.2 Any dwelling which is not connected to a sanitary sewerage system must have an approved household sewage disposal system prior to its being occupied.

2.3 Each household sewage disposal system shall serve one dwelling on an individual lot or parcel and shall be properly maintained by the owner. All the sewage from the dwelling shall discharge into the system. Two or more dwellings may not be served by the same sewage treatment system.

2.4 No household sewage disposal system or part thereof shall create nuisance.

2.5 No person shall discharge, or permit to be discharged, treated or untreated sewage, the overflow drainage or contents of a sewage tank, or other putrescible, impure, or offensive wastes into an abandoned water supply, well, spring, or cistern or into a natural or artificial well, sink hole, crevice, or other opening extending into limestone, sandstone, shale or other rock formation.

2.6 No person shall discharge, or permit or cause to be discharged, treated or untreated sewage, the drainage or contents of a sewage tank, or other putrescible or offensive wastes onto the surface of the ground, into any street, road, alley, or open excavation.

2.7 Off lot disposal of sewage effluent shall not be permitted except where the installation of an on-lot disposal system is not possible, as specified in Section 10.0, 10.2, and 11.3 and the following conditions are met:

2.71 When off-lot disposal of sewage effluent requires the crossing of adjacent properties to reach the point of discharge a recorded easement or the use of a legally established, publicly maintained drainage improvement from the dwelling lot line to the point of discharge shall be required.

2.72 Off lot disposal of sewage effluent shall require written permission to discharge sewage effluent from the person or persons in control of the property or properties adjacent to the point of discharge.

2.73 Off lot discharge of treated sewage effluent as measured at the point of discharge in the system shall comply with current effluent standards established by the Director of the Ohio Environmental Protection Agency. In the event there are no applicable standards established by the Director of the Environmental Protection Agency, the following effluent standards shall apply:

(a). Biochemical oxygen demand (five day) - The arithmetic mean of two or more effluent samples taken at intervals of not less than twenty-four hours shall not exceed twenty milligrams per liter.

(b). Suspended solids - The arithmetic mean of two or more effluent samples taken at intervals of not less than twenty-four hours shall not exceed forty milligrams per liter.

2.74 When tests results indicate that the standards set forth in Section 2.73 are not being met

or nuisances are being created additional treatment devices may be required by the Board of Health.

2.75 All reasonable means shall be taken to minimize the amount of effluent discharge off the lot.

2.76 Off lot discharge of sewage effluent shall be permitted, as a repair, for existing dwellings only, provided there is direct access to a full time running stream. (Not an intermittent stream).

2.8 Lots on which household sewage disposal systems for dwellings are to be installed shall be suitable topography and area to permit compliance with Sections 1.0 to 25.0 of the Carroll County Sanitary Code 101-1990 and amendments thereto. All existing easements and sub-surface utilities must be outside the area for the household sewage disposal system.

2.9 A suitable area shall be available to provide for the complete relocation and replacement of the household sewage disposal system as required by the Resolution 101-1990 and amendments thereto of the Carroll County Sanitary Code.

2.10 Lots on which private water supplies are to be installed shall be of sufficient area to provide isolation of the water supply system from both the original household sewage disposal system and the area intended for any relocation and replacement on this or adjacent lots as required by Section 1.0 to 25.0 of the Carroll County Sanitary Code 101-1990 and amendments thereto.

2.11 A household sewage disposal system shall be a minimum of ten (10) feet from any lot or right-of-way line, ten (10) feet from any occupied building, ten (10) feet from any water service line and fifty (50) feet from any water supply source on this or any adjacent lot.

2.12 No household sewage disposal system shall be installed, maintained, or operated on property accessible to a sanitary sewerage system.

2.13 Whenever a sanitary sewerage system becomes accessible to the property, a household sewage disposal system shall be abandoned and the house sewer directly connected to the sewerage system.

2.14 Roof water, foundation drain, cistern overflow, surface drainage or subsurface drainage shall not be discharged into a building sewer or into a household sewage disposal system.

2.141 Plastics in any form, wet strength paper towels, cloth of any kind, rubber products, throw-away baby diapers, cigarette stubs, sand, grit, coffee grounds, excess cooking oils or greases, solvents, paints, caustic or oily liquids or materials, kerosene, gasoline, motor oil, floor waxes or any other wastes known to adversely affect the household sewage disposal system shall not be deposited or flushed into plumbing fixtures nor shall they otherwise be introduced into a building sewer or household sewage disposal system.

2.15 A complete plan of the proposed sewage disposal facility must be submitted on all lots when they contain any soil unsuitable for on-lot disposal. The complete plan for the purpose of obtaining a permit to be issued by the Health Commissioner shall include:

2.151 The number, location, and size of all sewage disposal facilities to be constructed, altered, or extended.

2.152 The location of water supplies, water supply piping, existing sewage disposal facilities and the location of all surface and subsurface easements including subsurface utility lines.

2.153 The location of all buildings or dwellings, drive-ways, and lot lines.

2.154 The depth of the leaching devices and the soil classifications as secured from the Carroll County Soil Conservation Service.

2.155 Any necessary pumping devices which might be necessary to elevate the sanitary waste to treatment devices.

2.156 Submission of building plans for any new dwelling will be required prior to sewage disposal permit application. Verification that the new dwelling and sewage system will be on a legally subdivided parcel/lot containing only the new dwelling will be required.

2.16 The building site must contain sufficient satisfactory soils that are to be used for their installation and replacement of the on-site sewage disposal system, as shown on the applicant's plat plan. The following square footage of satisfactory soils is necessary to install a sewage system using leaching lines:

- 11,000 square feet for a single-family residence
- 22,000 square feet for a two-family residence
- 33,000 square feet for a three-family residence

2.17 The ability to comply with the sanitary code determines when a permit is to be approved or denied. Any applicant who is denied may request the right to a hearing within 30 days of denial with the Board of Health of the Carroll County General Health District. The above requirements of 11,000, 22,000, and 33,000 square feet respectively shall apply except in such cases as a variance may be granted under the rules and regulations by the Carroll County Board of Health.

2.18 Installation Requirements and Limitations -- In the event the sewage system of an existing dwelling **malfunctions or creates a nuisance** and sufficient area is not available to install a treatment device with an acceptable discharge point, consideration can be given to downstream use of the water in this drainage area. The following **minimum requirements** for such a surface drainage area must be followed. All permits must be approved by local and state authorities prior to installation.

Single-Family	1,250 gal. Aeration Tank followed by subsurface filter - 240 sq. ft. per bedroom and chlorination device
Two-Family	1,250 gal. Aeration Tank followed by subsurface filter - 240 sq. ft. per bedroom and chlorination device
Three-Family	1,250 gal. Aeration Tank followed by subsurface filter - 240 sq. ft. per bedroom and chlorination device

Existing dwellings herein shall mean any dwelling which in the sole judgment of Health Commissioner is not a new dwelling.

2.19 Dimensions and Area of Lots:

2.191 A building lot/parcel, for a single family dwelling, on which public sanitary sewer is not available and on which minimum subsoil conditions exist, according to information from the soil scientist and all other applicable factors to permit the proper functioning of an individual leaching tile field, **shall have a**

minimum lot size of 1.50 acres (65,340 sq. ft.) for a single family dwelling.

2.192 A building lot which is not accessible to a sanitary sewer and on which a two family dwelling is to be constructed shall have a minimum lot size of 87,120 square feet (2 acres). When leaching tile fields are to be installed according to information on the soils from the soil scientist and all other applicable factors.

2.193 A building lot which is not accessible to a sanitary sewer and on which a three family dwelling is to be built shall be considered individually.

SECTION 3.0 SUBDIVISIONS:

3.1 Any person proposing to create a subdivision shall submit to the Board of Health, for approval, plans clearly showing that the provisions of Resolution 101 and amendments thereto of the Carroll County Sanitary Code can be adequately met before any of the lots in the subdivision are sold or offered for sale whether or not such sale entails a transfer of title or deed.

3.2 No person shall install individual household sewage disposal systems in new subdivisions, unless it is considered to be impracticable and inadvisable by the Board of Health and the Ohio E.P.A. to install a central sewage system.

3.3 If individual household sewage disposal systems are proposed, the plans shall show, prior to approval:

- (1).** The total land area to be used
- (2).** Location and size of all lots
- (3).** The properties and characteristics of the soils in the subdivision

- (4). Depth to normal ground water table and rock strata
- (5). Location of all bodies of water, streams, ditches, sewers, drain tile, or any other information which may affect the installation or operation of individual household sewage disposal systems or the enforcement of Resolution 101 and amendments thereto of the Carroll County Sanitary Code 101.

3.4 If the proposed subdivision is to be served by either a sanitary sewerage system or a water supply system or both, plans shall be submitted to the Ohio Environmental Protection Agency as required by Section 6111.44 of the Revised Code.

3.5 All proposed subdivisions must have each individual lot/parcel surveyed and marked on site prior to preliminary and final approval.

SECTION 4.0 WRITTEN APPLICATION, INSTALLATION & OPERATION PERMIT:

4.1 No person shall connect or cause to be connected, a sewage system with any sewer, sewage tank, or other sewage disposal device without first having completed a site review application and obtained a written permit from the Health Department; provided, however, that the connection is to be made to an approved public sanitary sewerage system, a permit shall be obtained from the authority having charge of such sewerage system. The application and permit shall be made on forms as designated by the Health Commissioner. A separate permit shall be obtained for each sewage disposal installation and for each alteration addition thereto. The permit shall specify accurately the extent of and the manner in which the installation shall be made.

4.1a Alteration of a household sewage disposal system requires obtaining an installation permit from the Board of Health prior to the start of work on the system (see 3701-29-04 (A)). Examples of alterations include the expansion, replacement, or relocation of building sewers, sewage tanks, filters, leaching pits, leaching systems, or privies. Modifications of existing household sewage disposal systems which change the principle of operation shall also be deemed alterations; changes such as: provision of dosing in place of gravity flow distribution, or the addition of a filter or other treatment. Repair or replacement of parts in kind so as to restore the system to the design condition should not be considered an alteration.

4.2 The owner or his designated agent shall obtain an installation permit from the Board of Health for the installation of a household sewage disposal system prior to the start of construction of a dwelling.

4.3 No person shall alter, extend, or modify a household sewage disposal system without an installation permit.

4.4 No person shall maintain or operate a household sewage disposal system installed after the effective date of this regulation without an operation permit obtained from the Board of Health.

4.5 Each site review application to the Health Commissioner shall be accompanied by a fee of fifty dollars (\$50.00) for a household sewage disposal system or vault privy and one hundred dollars (\$100.00)

for an installation an operation permit. A fifty dollar (\$50.00) fee shall be assessed for an alteration permit.

4.6 The permit for a dwelling shall be an installation permit and the operational phase of this permit shall remain in force until revoked or a yearly operational permit is required by the Carroll County General Health District.

4.7 The Board of Health shall deny a permit if the information on the application is incomplete, inaccurate, or indicates that any of the provisions of Resolution 101 or amendments thereto cannot be met.

4.8 An installation permit shall remain in force until completion of the household sewage disposal system or for one year from the date of issuance whichever occurs first. The permit may be revoked or suspended by the Board of Health. An operation permit shall remain in force until it expires, is revoked, or suspended by the Board of Health.

4.9 There shall be no installation of any type of sewage disposal system within the flood plain or any area subject to flooding.

SECTION 5.0 REGISTRATION OF INSTALLERS OF SEWAGE DISPOSAL SYSTEMS OR PARTS THEREOF:

5.1 No person shall perform the services of an installer unless he holds a valid registration issued to

him by the Board of Health.

5.2 Application for registration shall be in writing and contain information as required by the Board of Health. The fee for registration shall be one hundred dollars (\$100.00) and shall accompany the application.

5.3 Each registration issued hereunder shall expire annually on January 1st of the calendar year. Any person, firm, or corporation who engages in the installation of a sewage disposal system, the alteration or the repair of same, shall procure a registration certificate from the Carroll County Board of Health.

5.4 A renewal application for registration shall be submitted to the Board of Health at least thirty (30) days prior to the expiration date.

5.5 Every registrant shall maintain and submit to the Board of Health such data and records as may be required for determining compliance with Regulation 101-1990 and amendments thereto of the Carroll County Sanitary Code 101-1990.

5.6 The owner shall not be required to have a registration for performing work on the household sewage disposal system for the dwelling which he occupies.

5.7 Registration permits shall be revoked or suspended by the Board of Health for failure to comply with Resolution 101 and amendments thereto of the Carroll County Sanitary Code.

5.8 Any individual installing a sewage system, (registered installers or homeowners), shall be required to successfully take a sewage installers evaluation. A score of 75% or greater will be considered passing.

SECTION 6.0 REGISTRATION OF SEWAGE TANK CLEANERS:

6.0 No person shall perform the services of a sewage tank cleaner unless he holds a valid registration issued to him by the Board of Health.

6.2 Application for registration shall be in writing and contain pertinent information as required by the Board of Health. The fee for septic tank cleaners shall be a minimum of one hundred dollars (\$100.00) permit fee and ten dollars (\$10.00) per truck and shall accompany the application.

6.3 Each registration issued hereunder shall expire annually on December 31st. of the calendar year. Any person, firm, or corporation who engages in the services of a sewage tank cleaner shall procure a license from the Carroll County Board of Health.

6.4 A renewal application for registration shall be submitted to the Board of Health at least thirty (30) days prior to the expiration date.

6.5 Every registrant shall maintain and submit to the Board of Health such data and records as may be required for determining compliance with Regulation 101-1990 and amendments thereto of the Carroll

County Sanitary Code.

6.6 Registration permits shall be revoked or suspended by the Board of Health for failure to comply with Resolution 101 and amendments thereto of the Carroll County Sanitary Code.

SECTION 7.0 SEPTIC TANK:

7.1 The minimum capacity of septic tanks shall be:

7.11 Single-Family:

- | | | |
|-----|------------------------|---|
| (a) | one-two-three bedrooms | -two (2) 1,000 gal. septic tanks |
| (b) | four-five bedrooms | -two (2) 1,500 gal. septic tanks |
| (c) | six-plus bedrooms | -3,000 gallons in two tanks or compartments |

*All dens, libraries, and studies will be considered bedrooms, as well as any room which could potentially be used as a bedroom.

7.12 Multiple Family Units:

- | | | |
|-----|----------------------------|---|
| (a) | two and three family units | -will be calculated by the total of bedrooms in both units. |
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7.13 Four or More Family Unit:

- | | |
|-----|---|
| (a) | Approval must be granted by the Ohio Environmental Protection Agency. |
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7.2 In systems using two (2) tanks, the septic tanks shall be connected in series and all sewage shall initially enter the first tank.

7.3 The invert level of the inlet shall be not less than two (2) inches above the liquid level of the tank.

7.4 A vented inlet baffle shall be provided to divert the incoming sewage downward. The baffle shall penetrate at least six (6) inches below the liquid level, but the penetration shall not be greater than that allowed for the outlet device.

7.5 The outlet shall be fitted with a vented tee or baffle which shall extend not less than six (6) inches above and not less than eighteen (18) inches below the liquid level of the tank.

7.6 The septic tank shall have a liquid drawing depth of not less than four (4) feet.

7.7 The distance from the flow line to the cover shall be at least twelve (12) inches.

7.8 The septic tank shall be installed with 10 inch diameter risers and secured with covers that extend to grade to provide access to the inlet and outlet devices and to each compartment of the tank for inspection and cleaning. (Minimum riser diameter of 10 inches - REG. 401)

SECTION 8.0 AERATION TYPE TREATMENT SYSTEM

8.1 Aeration type treatment systems shall comply with the following design requirements and be approved by the Ohio Department of Health.

8.11 The treatment system including each individual unit or compartment shall be easily accessible for inspection and maintenance and shall be provided with secured covers.

8.12 Where a final effluent sample cannot easily be obtained from the discharge and of the effluent sewer line, a sampling well following the settling compartment shall be provided. The sampling well shall be accessible from the surface of the ground and shall be provided with a secured cover.

8.13 The raw sewage flow from the dwelling shall be intercepted by a trash trap prior to its entering the aeration compartment. The trash trap shall have a net holding capacity of not less than twenty (20) percent of the average daily flow. The invert level to the trap shall be above the liquid level and discharge directly into the trap. The outlet from the trap to the aeration compartment shall be deep baffled.

8.14 The trash trap shall be readily accessible for inspection and effective cleaning and shall be provided with a secured cover.

8.15 The method of aeration shall be accomplished by mechanical aeration, diffused air, or both. The method used shall maintain aerobic conditions at all times.

8.16 The settling compartment shall have minimum net holding capacity equal to twenty (20) percent of the volume of the aeration compartment. The design shall provide for effective settling and continuous return of settled sludge to the aeration compartment.

8.2 Sewage tanks shall be of water-tight construction, constructed of materials resistant to corrosion and decay, and capable of supporting the loads to which subjected.

8.3 AERATION TYPE TREATMENT SYSTEMS SHALL COMPLY WITH THE FOLLOWING INSTALLATION REQUIREMENTS:

8.31 Treatment systems shall be set level and at the correct elevation.

8.32 A clearly labeled warning light or buzzer that indicates a breakdown of any electrical or mechanical component of the system shall be installed in a conspicuous location.

8.33 Mechanical components shall be installed in a properly vented location and all vents, air intakes, and air hoses shall be protected from snow, ice, or water vapor accumulations. Installation shall be made to minimize release of odors and aerosols.

8.34 Mechanical components installed in or at the sewage tank shall be protected against damage or impairment of efficiency by flooding, foaming, or surcharging.

8.35 The owner shall be responsible for maintaining and operating the system in accordance with Resolution 101 and amendments thereto.

8.36 Effluent from an aeration type treatment system shall discharge to a filter prior to being discharged into an adequate soil absorption system.

8.37 An aeration type treatment system shall be permitted under the conditions provided in Section 2.7 or in conjunction with a leaching tile field of adequate size to prevent water pollution or a nuisance. The requirements set forth in Table 1 are accepted generally as being adequate.

SECTION 9.0 SURFACE SAND FILTER FOLLOWING AN AERATION TYPE TREATMENT SYSTEM:

9.1 When a surface sand filter is used as a component of an aeration type treatment system it shall comply with the following requirements:

9.11 The surface sand filter shall have minimum filter area of thirty (30) square feet.

9.13 The effective size of the filter sand shall be eighteen (18) inches.

9.14 A minimum of twelve (12) inches of freeboard above the upper sand surface shall be provided.

9.15 The effluent shall be distributed over the entire sand filter area.

9.16 Dosing devices, if required, shall be provided with a pump having a minimum capacity of 3.75 gallons per minute.

9.17 The pump for the dosing device shall have a minimum working volume of seventy -five (75) gallons.

SECTION 10.0 INSTALLATION REQUIREMENTS FOR SOIL ABSORPTION AND PERCOLATION:

10.1 Leaching systems utilizing soil absorption or percolation shall not be permitted where the depth to normal ground water table or rock strata is less than four (4) feet below the bottom of the proposed system.

10.2 Leaching systems utilizing soil absorption or percolation shall not be installed where the texture, structure, and permeability of the soil is not suitable to provide internal drainage. The Health Commissioner may require the owner, at the owner's expense, to provide a written site evaluation by a qualified person before a final decision is made in issuing a permit. The criteria of the national cooperative soil survey shall be used by the Health Commissioner to determine the suitability of the soils.

SECTION 11.0 LEACHING TILE FIELD

11.1 Total field requirement shall be divided by a distribution box into two (2) equal sections and provide alternate flow to each section of the field.

11.2 Distribution box and inspection ports shall be brought to grade and shall be provided with secured covers. The minimum inside dimension of the box shall be twenty-four (24) inches in width. The box shall be of sufficient depth to prevent overflowing when surged. The distribution box shall have only one inlet and one outlet for each field. One outlet per trench is prohibited.

11.3 Leaching field absorption area requirements for home sewage disposal systems shall be adequate to prevent water pollution or a nuisance, except those sites eliminated by Resolution 101 and amendments thereto of the Carroll County Sanitary Code. The following requirements as set forth in Table 1 of this regulation are accepted generally as being adequate.

TABLE 1
LEACHING FIELD ABSORPTION AREA REQUIREMENTS
PRECEDED BY SEPTIC TANKS

<u>SIZE OF DWELLING</u>	<u>SOIL PERMEABILITY LIMITATION EVALUATION</u>	<u>TOTAL LINEAL FT. OF TRENCH REQUIRED</u>
One bedroom		400
Two bedroom		600
Three bedroom		900
Per each additional bedroom		300
Minimum 2 bedroom		400
	Moderate & Slight	
Per each additional bedroom		200

*Leach field requirements can be reduced by as much as 1/3 when preceded by an aeration treatment system. Total lineal feet of trench can be increased as much as two times if site conditions warrant the increase.

11.4 The minimum distance between any leaching lines shall be six feet.

11.5 The minimum distance between any leaching line and any drain line located on the lot shall be eight (8) feet.

11.6 A leaching trench shall have a minimum of eighteen (18) inches of clean gravel extending at least two (2) inches above and twelve (12) inches below the leaching line, such fill shall be three-fourths (3/4) inch to one and one-half (1-1/2) inches in size. **(Washed #57 is preferred)*

- 11.7** A leaching trench shall have a minimum width of twenty-four (24) inches. The depth shall be a minimum of eighteen (18) inches but not more than thirty (30) inches.
- 11.8** A leaching line shall have a maximum length of one-hundred-fifty (150) feet.
- 11.9** A leaching line shall have a minimum diameter of four (4) inches and shall have a relatively level grade. The grade shall not exceed a fall of one (1) inch in fifty (50) feet. The pipe shall have a 3,000 pound crush rating. All joints/junctions must be glued.
- 11.10** The top of the gravel fill shall be covered with previous material such as untreated paper or a two (2) inch layer of hay, straw, or similar material before being covered with earth.
- 11.11** The land surface shall be graded so as to exclude surface drainage from the household sewage disposal site.
- 11.12** 4 inch schedule 40 PVC pipe must be used between the house and the tanks and from the tanks to the distribution box.
- 11.13** 90 degree fittings are prohibited anywhere before the first septic or aeration tank.

SECTION 12.0 EVAPO TRASPIRATION MOUND

12.1 Evapo-Traspiration Mounds may be used in heavy clay soils if the Health Commissioner determines this system is appropriate. The following criteria must be strictly adhered to:

12.2 AERATION PLANT:

1. The aeration tank must be an Ohio Department of Health approved home aeration plant.
2. The aeration tank must be at least a Class II plant
3. The aeration plant must have at least a treatment capacity of 120 gallons per bedroom per day.
4. The tank must be provided with an inspection riser.

12.3 FILTER:

1. A filter is to be used according with the manufacture's specifications for the type of aeration unit used.

2. A riser must be provided.

12.4 SEWAGE PUMP PIT:

1. The pump must be so designed as to allow dosing of the evapo trench.
2. The minimum dosing volume is 60 gallons for a 100 feet trench. For additional 35 feet of trench, add 20 gallons.
3. The pump pit must be placed outside the edge of the completed mound.
4. The pump pit is a minimum of 24 inches in diameter.

12.5 SEWAGE PUMP:

1. The sewage pump must have at least a 1/4 horsepower motor.
2. The sewage pump must be rated at 32 gallons per minute at 10 feet t.d.h.
3. The discharge line must be provided with a check valve to prevent backflow and be 1 1/4 inches of schedule 40 PVC pipe.

12.6 EARTH MOUND:

1. The mound must be composed of top soil over the entire trench and clay soil to the mound edge (see mound and trench details drawing).
2. The mound is to be 30" at the highest point.
3. The mound is to be evenly sloped to a 12 foot width.
4. The length of the mound is determined by the number of potential bedrooms. The minimum additional length of trench is 35 feet per bedroom.
5. The mound must be seeded or planted with vegetation immediately upon completion.

12.7 TREES:

1. The minimum height of trees is 4 to 5 feet.
2. The only trees accepted for the evapo system are the Austrian Pine, White Pine, White Spruce, and Arborvitae. No other tree will be considered.
3. The Arborvitae is highly recommended because it is native to this area and climate, less sensitive to transplanting, and is heartier than most evergreens.
4. The trees are to be planted 3 feet from both ends and 6 feet from each

other.

5. The trees are to be planted in an alternating fashion on each side of the trench distribution pipe.
6. The number of trees are determined by the length of the trench. There are trees for 100 feet of trench. Another 6 trees are to be planted for each additional 35 feet of trench. to be 16

12.8 GRAVEL TRENCH:

1. The gravel trench is to be 24 inches deep and 36 inches wide.
2. The gravel trench must be filled with 3/4 inch to 2 inch washed gravel or stone. Limestone is not permitted.
3. The distribution pipe must be 4 inches perforated rigid pipe and be rated with at least 1,500 pound test.
4. The pipe is to be placed so that the holes are toward the bottom of the trench.
5. The distribution pipe must be absolutely level throughout the trench.
6. There is to be an inspection box at the end of the pipe. The inspection box is to extend above the final grade and be at least 12 inches in diameter.
7. There is to be a 4 inch inverted vent as near to the center of the trench as possible.
8. The trench is to be covered with 2 inches of hay or straw.
9. The top of the gravel trench is to be at existing grade level.
10. The top of the distribution pipe is to be 4 inches below the top of the trench.

12.9 CURTAIN DRAINS:

1. The bottom of the trench is to be 6 inches below the bottom of the gravel trench.
2. There is to be 2 inches of gravel below the pipe and at least 6 inches above the pipe for a total of 12 inches of gravel.
3. There must be at least 12 inches of excavating earth backfill on the top portion of the trench.
4. The trench must be at least 8 inches wide.
5. The gravel must be 3/4 to 2 inch washed gravel or stone.

6. The curtain drain pipe is to be 18 inches from the edge of the earth mound or 6 feet from the side of the gravel trench.
7. The pipe must be 4 inches in diameter.
8. There is to be an inspection box at a location between the trench end and the discharge point, unless the end of the drain has free fall where a sample could easily be taken. If an inspection box is provided, it must extend above the final grade and be at least 12 inches in diameter.
9. If a lift station is necessary, it must extend above the surface of the ground and contain at least a 1/4 horsepower pump.

12.10 OTHER SPECIFICS:

1. Only sewage contractors, registered in Carroll County, are permitted to install an evapo system. Homeowners will not be allowed to install this system.
2. The installer is responsible for the entire system, which includes the trees.
3. No final approval will be given until the system is completed.
4. For new homes, occupancy cannot occur until final approval has been given by this department.
5. For existing homes, use of the system will be prohibited until approval has been given by this department.
6. Installers have the responsibility to assure that final lot grading does not cause surface water flow to pond around the evapo system.

SECTION 13.0 CURTAIN DRAIN

(A) A curtain drain shall be provided in soil subject to a seasonally high ground water table. The curtain drain shall be installed not less than six (12) inches below the leaching trench bottom, and shall be at least eight (8) feet from the center line of any leaching line.

(B) A curtain drain shall have an inspection well accessible from the surface of the ground and shall be provided with a secured cover. The well shall have a minimum inside diameter of eight (8) inches and shall be on the discharge line adjacent to the leaching system unless an open out-fall is present on the property.

SECTION 14.0 SUBSURFACE SAND FILTER

14.1 A subsurface sand filter shall be permitted only under the conditions provided in Section 2.7 of the Carroll County Sanitary Code 101-1990.

14.2 A subsurface sand filter shall have a minimum filter area of two hundred-forty (240) square feet per bedroom. The total filter area shall be divided into two (2) beds, each with a separate distribution system and provisions shall be made for alternating from one bed to the other by gravity or pumping. The subsurface sand filter shall be installed only where soil conditions will allow proper functioning of the system.

14.3 A distribution line shall have a minimum diameter of four (4) inches and shall have a relatively level grade. The grade shall not exceed a fall of three (3) inches in fifty (50) feet.

14.4 A distribution line shall be surrounded with a minimum of twelve (12) inches of clean gravel or stone three-fourths (3/4) inch to one and one-half (1-1/2) inches in size. The lines shall be laid on three (3) foot centers, and eighteen (18) inches from the sidewalls of the filter.

14.5 The filtering material shall be a minimum of twenty-four (24) inches in depth and the sand shall be an effective size of four-tenths (0.4) to one (1) millimeter with a uniformity co-efficient not to exceed three (3).

14.6 The lower or collecting line shall have a minimum diameter of four (4) inches and shall be laid the full length of the bed. The grade shall have a minimum fall of six (6) inches in fifty (50) feet.

14.7 The collecting line shall be surrounded with a minimum of twelve (12) inches of clean gravel or stone three-fourths (3/4) inch to one and one-half (1-1/2) inches in size.

14.8 The top of the filter shall be covered with a previous material such as untreated paper or a two (2) inch layer of hay, straw, or similar material before being covered with earth.

14.9 The earth cover shall not exceed twenty-four (24) inches.

14.10 A sampling well shall be installed in the collection line, within six (6) feet of the filter bed, accessible from the surface of the ground, and provided with a secured cover.

SECTION 15.0 PRIVIES:

15.1 A privy shall be provided with water-tight vaults or other water-tight receptacles of not less than one thousand (1000) gallons capacity except as specified in Regulation 101-1990 of the Carroll County Sanitary Code, Sec. 15.2 and shall be a minimum of (50) feet from any water supply source, and twenty (20) feet from any occupied building or lot or right-of-way line.

15.2 The construction and design of the vault and superstructure shall prevent access by insects, fowl, or animals.

15.3 A privy shall be cleaned before the contents reach the top level of the vault.

SECTION 16.0 BUILDING SEWER

16.1 A building sewer shall have a minimum diameter of four (4) inches.

16.2 A building sewer shall be constructed of durable material with water-tight joints, capable of withstanding a ten (10) foot head of water test or equivalent.

16.3 Traps shall not be installed in a building sewer.

16.4 A building sewer shall be laid in good alignment, at a uniform grade in accordance with engineering practices acceptable to the Ohio Department of Health.

16.5 A building sewer shall be a minimum of ten (10) feet from any household water supply source and water service line.

16.6 If a building sewer is located within fifty (50) feet of a water supply source, the sewer shall be of water-tight construction.

SECTION 17.0 INSPECTIONS:

17.1 The Health Commissioner may at any reasonable time during the course of construction or any time thereafter inspect any household sewage disposal system or part thereof, sample the effluent, or take any other steps which he/she deems necessary to insure proper compliance with Resolution 101 and its amendments thereto of the Carroll County Sanitary Code. The Health Commissioner may utilize inspection reports or other data submitted or obtained from reliable sources to determine compliance.

17.2 The owner or his agent shall request inspection of the household sewage disposal system or part thereof at least twenty-four (24) hours; (1) in advance of covering; (2) prior to placing into operation. The inspection shall be done within two (2) consecutive working days.

17.21 The property owner or agent shall submit a drawing indicating location and measurements of the septic system installation.

17.3 No household sewage disposal system or part thereof shall be covered or put into operation until the system has been approved by the Health Commissioner.

SECTION 18.0 ABANDONED HOUSEHOLD SEWAGE DISPOSAL SYSTEM:

An abandoned household sewage disposal system or part thereof shall be cleaned and filled to the ground surface with suitable material. A permit must be obtained.

SECTION 19.0 MISCELLANEOUS REQUIREMENTS FOR HOUSEHOLD SEWAGE DISPOSAL SYSTEMS:

19.1 Whereas the following construction features will be followed on systems installed in Carroll County:

- (1)** Thin-walled corrugated or corrugated, perforated pipe is not approved as a construction material
- (2)** A tonnage slip documenting the amount of gravel used as a construction material will be required.
- (3)** NSF (National Sanitation Foundation or ASTM (American Standard Tested Materials) approved sewer pipe shall be used throughout the septic system. Schedule 40 sewer pipe shall be used across any bridgings or excavated areas.

SECTION 20.0 MISCELLANEOUS SANITARY ITEMS

20.1 **GARBAGE AND OFFAL:** No person shall place or deposit or permit to be placed or deposited, garbage, offal, or any other putrescible refuse of vegetable, animal, fish, or fowl origin in any street, alley, road, open excavation, abandoned well or cistern, ditch, stream or body of water, or on the surface of the ground, or in any other manner deemed improper by the Health Commissioner; provided, however, that this regulation shall not prohibit the depositing of such wastes for the purpose of feeding animals or fowls as hereinafter provided. Unless disposed of immediately after production, such wastes shall be stored in

water-tight containers with tight fitting lids and upon removal from such containers shall be properly disposed of in a manner as to avoid the creation of a nuisance or the pollution of a water supply, or stream.

20.2 COLLECTION AND DISPOSAL OF GARBAGE: Unless a general system of collection and disposal of garbage, satisfactory to the Health Commissioner and authorized as provided in Section 23 is maintained, such wastes shall be disposed of by the producer by burial, burning, feeding or reduction. If burial by the producer is practiced, the wastes shall be deposited in an excavated trench not less than one (1) foot in depth and covered immediately with a layer of earth not less than six (6) inches in thickness. Burial shall be at an isolated location satisfactory to the health Commissioner. If burning is practiced, the wastes shall be destroyed by a hot fire in a furnace or stove. If feeding is practiced, the wastes shall be fed in a manner and at a location satisfactory to the Health Commissioner. Such feeding place shall at all times be maintained so as not to create a nuisance. If reduction is practiced, the wastes shall be cooked in enclosed containers and suitable provisions shall be made to avoid escape of offensive odors and waste liquids in cooking and drying.

20.3 PERMIT FOR SCAVENGERS AND GARBAGE COLLECTORS: No person shall engage in the collection, removal, or disposal of the contents of privy vaults, sewage tanks, swill, garbage, or offal within the Carroll County, Ohio, General Health District until a permit therefore is obtained from the Health Commissioner. The permit shall be issued for such periods of time as deemed advisable by the Health Commissioner, and shall state the conditions under which the material shall be removed and the method of disposal. Any permit may be revoked any time by the Health Commissioner for sufficient cause. Application for a permit shall be made on a form designated by the Health Commissioner. A permit fee of a minimum of \$50.00 or \$10.00 per vehicle whichever is greater, to be deposited to the Carroll County General Health District funds, shall accompany the application. Each vehicle used for collection, transportation, and disposal within the operation shall be provided with a sticker to be used for identification purposes.

20.4 DEAD ANIMALS: No person shall place or deposit or permit to be placed or deposited the carcass of a dead animal in any street, alley road, open excavation, abandoned well or cistern, ditch, stream, or body of water, or onto the surface of the ground, or in any other manner deemed improper by the Health Commissioner. The owner or occupant of the land on which the carcass of a dead animal is found shall properly provide for its proper removal and disposal. The carcass shall be disposed of in a manner to avoid the creation of a nuisance or the contamination of a water supply, by burning in a crematory suitable for the purpose, by reduction in a plant operating under license of the state department of agriculture, or by burial under at least three (3) feet of earth cover at a point not less than five hundred (500) feet from any water supply, building of human occupancy, road, stream or body of water.

20.5 MANURE: No person shall place or deposit manure, produced in the keeping of an animal or animals of the horse, mule, swine, cattle kind, in any street, alley, road open excavation, ditch, stream, or body of water. Unless the manure is produced and stored at a location at least 1,000 feet from any building of human occupancy, other than that on the same premises, it shall be stored in a bin, pit, or other receptacle which shall be fly-proof from which it shall be removed at least once each month and disposed of in a manner to avoid the creation of a nuisance and the pollution of a public or private water supply. After removal from such receptacle, the manure may be stored at a point not less than 1,000 feet from any building of human occupancy. Manure on the surface of the ground for fertilizing purposes at any point not prohibited by municipal ordinances or by orders or regulations of the Carroll County Board of Health. The bin, pit, or other receptacle for manure shall be located not less than one hundred (100) feet from a water supply or building of human occupancy and shall be water-tight if located within one hundred (100) feet of a water source used for human consumption.

20.6 NUISANCE: Where a nuisance, as defined in Section 3767.13 of the Ohio Revised Code, is found at any building or upon any ground premises, a written order to abate such nuisance shall be given by

the Health Commissioner to the owner or occupant of such building or premises. The time for compliance therewith shall be specified in the order. In case of neglect or refusal to abate the nuisance in accordance with such order, the Health Commissioner shall cause the said owner or occupant to be prosecuted as provided by law.

20.7 APPROVAL OF PLAT: Any person laying out a village, subdivision, or addition to a municipal corporation within the Carroll County, Ohio, General Health District, shall cause it to be surveyed and a plat map of it made by a competent surveyor. The plat map shall particularly describe all lots intended for buildings, streams, ditches, drains, sewers, and other places where offensive substances or liquids may accumulate or be deposited. Such plat shall be submitted to and approved by the Health Commissioner before any of the lots or parcels of land are sold or offered for sale. In granting an approval authorized by this regulation, the Health Commissioner may stipulate such modifications, conditions, and provisions as may be required to comply with Section two (2) through Section twenty-two (22) of this regulation.

20.8 DEVELOPMENT OF WATER SUPPLIES: All water supplies used for drinking and culinary purposes or either of said purposes, shall be installed and developed in accordance with Private Water System Rules Chapter 3701-28, O.A.C.

20.9 ORDERS TO IMPROVE WATER SUPPLIES: A water supply used for drinking and culinary purposes or either of said purposes, which is found to be impure or subject to contamination by reason of unsatisfactory location, protection, or construction, and dangerous to health, is hereby declared to be a nuisance and the Health Commissioner shall order the owner of such water supply to abandon it and make it unavailable for use, or to make improvements, corrections, and changes so as to provide a water supply not subject to contamination. The time for compliance with such order shall be fixed by the Health Commissioner.

20.10 ABANDONED WATER SUPPLIES: When a well, spring, cistern, pond, or other source of water supply is abandoned because of its impurity or in accordance with an order of the Health Commissioner, it shall be abandoned in accordance with Private Water System Rules Chapter 3701-28 O.A.C. or otherwise made unavailable as a source of water supply in a manner satisfactory to the Health Commissioner.

20.11 ENFORCEMENT AND PENALTIES: These regulations shall be in force as provided in section 3703.48 of the Ohio Revised Code and any person who violates any provision of the regulations shall, upon conviction, be subject to the penalties provided in section 3707.99 of the Ohio Revised Code.

20.12 REPEAL: Any other regulations of the Carroll County, Ohio, General Health District that might be in conflict with or inconsistent with the provisions of these regulations are hereby repealed.

20.13 UNCONSTITUTIONALITY: Should any section, paragraph, sentence, clause or phrase of the foregoing regulations be declared unconstitutional or invalid for any reason, the remainder of said regulations shall not be affected thereby.

20.14 EFFECTIVE DATE: These regulations shall be in full force and effect immediately upon adoption and publication as provided by law.

20.15 LAND APPLICATION OF SEPTAGE: All sewage haulers who land apply septage must be licensed by the Carroll County Health Department and must strictly adhere to Federal Regulation 503. Failure to comply with this Federal Regulation will result in the revocation of the license.

SECTION 21.0 HEARINGS

The Board of Health shall grant a hearing to any person affected or aggrieved by Resolution 101 and amendments thereto of the Carroll County Sanitary Code.

SECTION 22.0 VARIANCE

22.1 The Board of Health may grant a variance from the requirements of Resolution 101 and amendments thereto of the Carroll County Sanitary Code, as will not be contrary to the public interest, where a person shows that because of practical difficulties or other special conditions, their strict application will cause unusual and unnecessary hardship. However, no variance shall be granted that will defeat the spirit and general intent of said regulations, or be otherwise contrary to the public interest.

22.2 Household sewage disposal system components or household sewage disposal systems differing in design or principle of operation from those set forth in Resolution 101 and amendments thereto of the Carroll County Sanitary Code, may qualify for approval as a special device or system; provided, comprehensive tests and investigations show any such component or systems complying with such regulations. Such approval shall be obtained in writing from the Director of Ohio Department of Health.

22.3 Resolution 101 of the Carroll County Sanitary Code may be amended and/or revised by the Board of Health, to make them more stringent when local conditions indicate such revisions are necessary provided the Public Health Council concurs in writing with the necessity and the more stringent revisions.

**These regulations passed and adopted by the Board of Health of the Carroll County,
Ohio, General Health District at its regular meeting at Carrollton, Ohio, on April
26, 1958. Sections 18 and 20 revised December 18, 1965. Sanitary Code 101-1990
revised, approved and adopted on May 29, 1990. Sanitary Code 101 revised,
approved and adopted on _____.**

SIGNED:

