Fulton County Health Department
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David Kevin Reyburn, MD Health Officer Fax (574) 223-2335
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Residential Onsite Sewage System Design Plan Requirements

All certified installers are required to submit residential onsite sewage system design plans to the health department prior to the issuance of an onsite sewage system permit. **410 IAC 6-8.3-53(d)(3) states the design plans shall be of sufficient clarity that it can be verified that the design of the onsite sewage system complies with provisions of Rule 410 IAC 6-8.3.** The onsite sewage system design plans must contain the following items:

1. The certified installer's name, address and phone number.
2. The site address and property owner's name.
3. All boring locations.
4. All parts/components of the sewage system
5. A cross section of the system, including:
    a. Septic tank
    b. Dose tank with float settings
    c. Absorption field trench
    d. Perimeter drain
6. Property boundaries and dimensions with a measurement. Minimum requirement of 5 feet.
7. Footprint of all existing and/or proposed structures – including the house, driveway, barn, pond, pool, well, and so forth.
8. Slope
9. Compass direction – minimum north directional area
10. Wells
    a. Separation distance – minimum separation distance of 50 feet
    b. Neighbor's well – minimum separation distance of 50 feet
11. Residential sewer pipe:
    a. ASTM number
    b. Diameter
    c. SDR number
    d. Length
    e. Vertical drops with cleanouts
    f. Elevation(s) – minimum of 4 inches of fall in 25 feet; maximum 36 inches of fall in 25 feet
12. Septic tank
    a. Capacity
    b. Manufacturer
    c. Number of compartments
    d. Elevations (ground, inlet, outlet)
13. Existing septic tank
    a. Capacity
    b. Condition

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c. Watertight
d. Baffles
e. Elevations (ground, inlet, outlet)

14. Effluent filter
    a. Manufacturer
    b. Model number
15. Gravity Effluent Pipe
    a. ASTM number
    b. Diameter
    c. SDR number
    d. Length
    e. Elevation – minimum slope of 0.2%
16. Dose tank
    a. Capacity, manufacturer and tank material
    b. Effluent Pump manufacturer, model number and pump curve
    c. Cross Section of the dose tank, depicting float settings
    d. The pump and pedestal submersion height in inches
    e. Total dose height in inches – the capacity from the off float to the on float
    f. Elevations (ground, inlet, outlet)
    g. Freeboard
        1. Alarm height in inches – the capacity from the on float to the alarm float
        2. Reserve capacity height in inches – the capacity above the high water alarm to the invert of the inlet
17. Dose Delivery/Effluent Force Main
    a. ASTM number
    b. Diameter
    c. SDR
    d. Total length
    e. Drains back to dose tank or installed below frost line
    f. Pump discharge rate
    g. Total volume calculation
    h. Total dynamic head calculation
18. Distribution box
    a. Manufacturer
    b. Material
    c. Number of holes
    d. Sanitary tee, baffle or elbow with a weep hole
    e. Elevations (ground, inlet, outlet)
19. Gravity header pipe
    a. ASTM number
    b. Diameter
    c. SDR number
    d. Length(s) – minimum requirement of 5 feet from the distribution box
20. Gravity absorption system

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a. Number of trenches
b. Separation distance
c. **If a stone system: the type of pipe, amount of pipe, size of the pipe being used, type of stone, amount of stone, and stone distributor. The amount of stone below and on top of the pipe must be specified. As well as the hole orientation of the pipe in the trench(es). The holes in the laterals must be placed at 12 o'clock, 4 o'clock and 8 o'clock if a three hole lateral pipe is used or 4 o'clock and 8 o'clock if a two hole lateral pipe is used. Furthermore, each lateral end must be capped. (The hole within the laterals and capping of the ends of each lateral are required to obtain equal distribution throughout the entire length of the lateral(s) per Rule 410 IAC 6-8.3.)**
d. Trench width
e. Trench depth
f. Trench length
g. If chambers: manufacturer and model number
h. Elevations (beginning, middle, and end of each trench)

19. Drainage
    a. ASTM number
    b. Separation distance from absorption field – minimum 10 feet
    c. Wrapped with geotextile fabric
    d. Backfill – with aggregate to the surface of the ground or within 6 inches of the surface of ground with geotextile fabric
    e. Elevations (four corners and outlet) – invert and ground
    f. Depth
20. Dispersal Area

Residential Onsite Sewage System