LINN COUNTY ENVIRONMENTAL HEALTH PROGRAM
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ALTERNATIVE TREATMENT SYSTEMS

Plan Preparation Guide

Overview:

As part of the application for a permit to install an alternative treatment system (ATT), plans for the system are required. The plans must be detailed enough to demonstrate that the system will meet all DEQ rules for siting and construction, and will function properly. Once we have received the plans, you should normally allow 1-2 weeks for the plans to be reviewed by Environmental Health Staff. Once the plans are reviewed and approved, a permit to construct the system can be issued if all other permit requirements are met. The permit will contain, in addition to the approved plans, a schedule of inspections.

PREPARING YOUR PLANS

It is possible to prepare your own plans. The plans must include, at a minimum:

- detailed construction materials and methods
- a hydraulic analysis (this is necessary to determine correct pump(s) to use)
- a scaled plot plan showing the location of all buildings and other site developments, and all system components
- a signed contract with a certified operation and maintenance provider

There are many possibilities for how you choose to construct an ATT system. You will need to make decisions concerning cost, durability, ease of service, and aesthetics. Because there are so many possibilities, and because everyone has different needs and wants from the finished product, we are not able to design a system for you.

ATT Plans Checklist

☐ **Plot plan: (We will provide you with scaled outlines of your property and the approved disposal area to assist in drawing your system plans)**

_____ Indicate North
_____ Drawn to scale 1" = _____ feet
_____ Property boundaries, easements, and dimensions
_____ Existing or proposed roads
_____ Well locations and water line locations
_____ Test pit locations
_____ Proposed dwelling location and dimensions
_____ Location of septic tank
_____ Location of disposal field with trenches and lengths designated (refer to your site evaluation for the approved drainfield area)
_____ Distance between disposal trenches
_____ Three elevation grade shots (ground surface) for each disposal trench
_____ Location of clean-outs
_____ Location of replacement disposal area (if pertinent)
_____ Proposed driveways, parking areas and patio slabs
_____ Drainage ways, springs, creeks, and waterways

☐ **On-Site System Materials List**

☐ **Tank Diagram** (if using a separate septic and dosing tank, include diagram for the dosing tank tank)

_____ Manufacturer's name
_____ Total volume and operating volume
_____ Average unit volume (gallons per inch)
_____ Dimensions of the tank (in and outside)
_____ Float control settings – distance between "floor or roof" of tank and "pump on", "pump off", and "alarm"
_____ Diameter of access riser
_____ Location of electrical box, gate, check valves, and disconnects

☐ **Construction Elevations**

_____ Ground elevation at septic and dosing tanks

_____ Top of septic and dosing tanks

_____ High water alarm

_____ Effluent level at either timer float on or pump on

_____ Three ground surface elevation readings per disposal trench

_____ Elevation at bottom of drainfield trenches

☐ **Hydraulic Calculations** (used to select the correct pump or pumps)

☐ **Pump Specifications (for each pump):**

_____ Make and model number

_____ Name of manufacturer

_____ Pump performance curve

☐ **Diagram of ATT** (this information is provided by the manufacturer, or the approved DEQ configuration)

☐ **A copy of the signed operations and maintenance contract**