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## Instructions for the Drainfield Calculation Spreadsheet

1. Lot Size Calculation (this is setup for regular rectangles): Enter dimensions in ft and the lot size in acres will be displayed in the next box over labeled 'Acres'.
2. Max. gpd Design Flow per Acre: Enter the lot size, in acres, in the box labeled 'Lot Size in Acres'. The maximum design flow for the property, for a conventional septic system, will be displayed in the yellow box labeled 'Max. gpd Design Flow'. Just below the 'Lot Size in Acres' box.
3. Design Flow in gpd: Select the number of bedrooms for the property served by the septic system and enter the corresponding design flow in the box below labeled 'Design Flow'.
4. The total nitrogen allowed for the lot size and design flow will be displayed in the box labeled 'Total Nitrogen, mg/L'. The total nitrogen is prorated for lot size and design flow. Nitrogen reduction is required on lots smaller than  $\frac{3}{4}$  acres or discharges of more than 500 gallons per acre. Other site limitations may also lead to a requirement for nitrogen reduction.
5. Choose the multiplier that corresponds with the appropriate soil type. Enter the multiplier in the box the arrow points to labeled 'Multiplier Chosen for Soil Texture'. The minimum square feet needed for the drain field will now be displayed in the yellow box labeled 'Square Feet of Drain Field Needed'.
6. For pipe and gravel systems: Enter the trench width in feet, in the box labeled 'Trench Width in ft'. Enter the depth of gravel, in feet below the pipe in the Box labeled 'Trench Depth in ft Below Pipe'. Note the minimum depth of gravel is **1 foot**. The length of trench needed for the defined trench geometry is

displayed in the yellow box labeled 'Trench Length in ft'. The square feet per linear foot is displayed in the orange box labeled 'Square ft/Linear ft'. The bottom section of the orange box labeled 'Square ft/ Linear ft' will display either 'In Range' or 'Out of Range' indicating weather or not the drain field is of an appropriate geometry.

7. Cubic yards of gravel; is calculated with 6 inches above the invert of the pipe (2 inches above the pipe).
8. See the following diagram. The numbers in the boxes correspond to the above text numbering 1 through 6.

