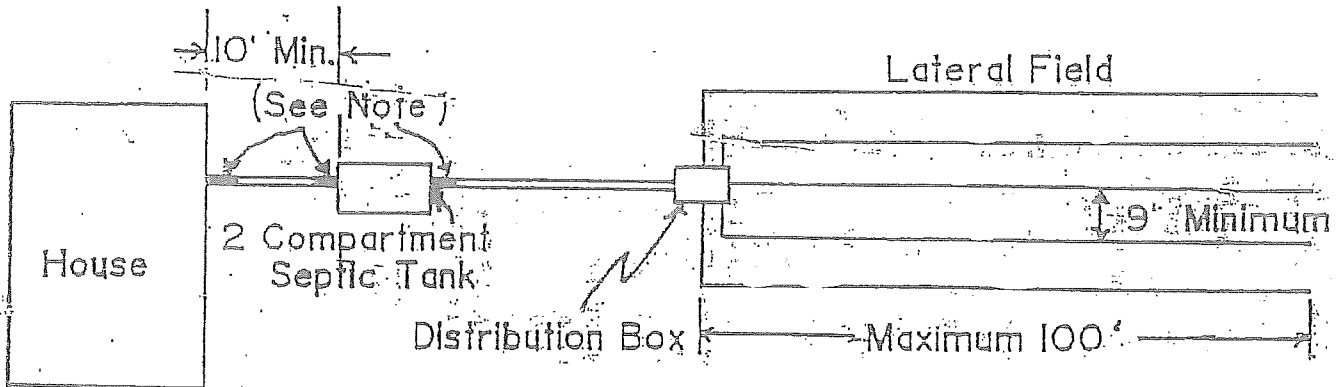
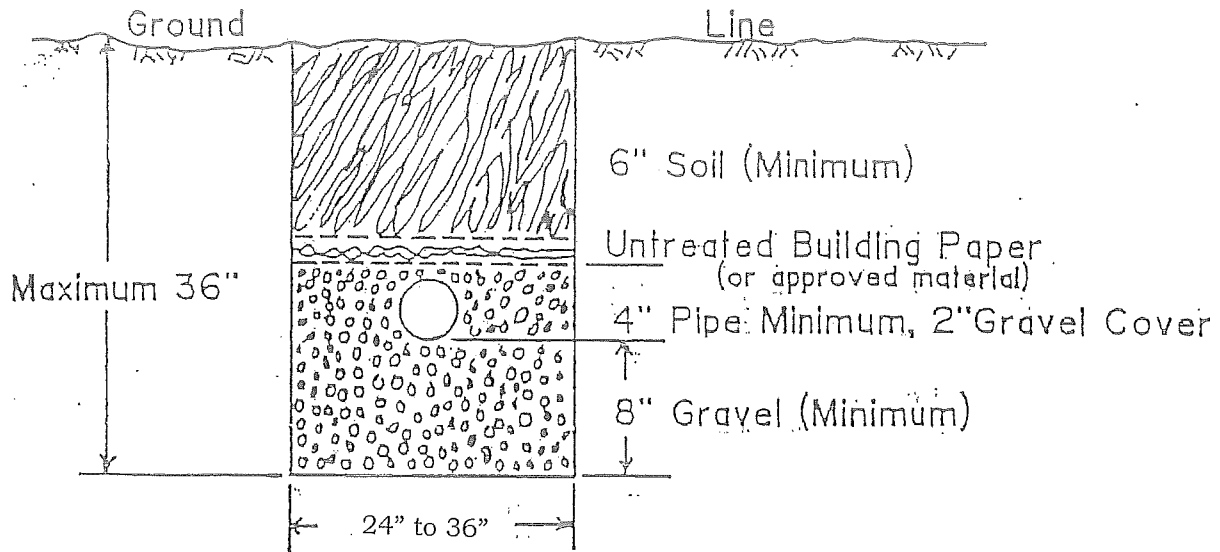


LATERAL FIELD



Note: Schedule 40 plastic pipe shall be used extending across excavated or unstable ground to at least two feet (2') on undisturbed earth caused by excavation.

Muscatine County Building, Zoning & Environmental Office
requires a 24 hour notice before an inspection is made of this system.

Our office is open: Monday - Friday 8 a.m. to 4 p.m.
(closed holidays)

Please call (563) 263-0482 to schedule an inspection
or if you have any questions.

Construction details.

a. Depth. Lateral trenches shall not exceed 36 inches in depth. Not less than 6 inches of porous soil shall be provided over the laterals. Minimum separation between trench bottom and ground water or rock formation shall be 36 inches.

b. Width. Lateral trenches shall be a minimum of 24 inches and a maximum of 36 inches in width at the bottom of the trench.

c. Gravel. A minimum of eight inches (8") of clean, washed gravel shall be laid below the distribution pipe, and enough gravel shall be used to cover the pipe. This gravel shall be of such size as will pass a 2-1/2 inch screen 100 percent and will be retained 100 percent on 3/4-inch screen. When using clean, washed concrete stone, the size shall fall between 1 inch and 2-1/2 inches in size.

d. Grade. A maximum grade of 6 inches per 100 feet of run shall be given the distribution pipe.

e. Pipe. Distribution pipe shall be not less than 4 inches inside diameter and for open joint clay tile systems not more than 12 inches in length. The tile should be laid with one-quarter inch open joints and strips of tar or asphalt treated paper about 4 inches wide should cover the top half of

each joint. Perforated distribution tile or pipe of PVC or other suitable material may also be used in lieu of open-joint tile lines. Perforations shall be at least one-half inch and no more than three-fourths inch in diameter and spaced to provide at least the equivalent total opening of comparable diameter foot-long clay tile laid with one-fourth inch open joints.

f. Joint cover. All open joints in the distribution pipe which would permit entry of material into the pipe shall be covered with tarred felt (tar paper).

g. Gravel cover. Unbacked, rolled, 3-1/2 inches thick fiberglass insulation, untreated building paper, synthetic drainage fabric, 4 inches to 6 inches of marsh hay or straw or other approved material, shall be so laid as to separate the gravel from the porous backfill.

h. No single lateral shall exceed one hundred feet (100') in length.

There shall be a minimum of nine feet (9'), center to center between any part of the lateral line.

i. Compaction. There shall be minimum use or traffic of heavy equipment on the area proposed for soil absorption. In addition,

It is prohibited to use heavy equipment on the bottom of the absorption area.

Distribution Box.

a. Design. When a distribution box is used, it shall be of proper design and installed with separate watertight headers leading from the distribution box to each lateral.

b. Outlets. The distribution box shall have outlets at the same level at least 4 inches above the bottom of the box to provide a minimum of 4 inches of water retention in the box.

c. Baffles. There shall be a tee or baffle at the inlet to break the water flow.

d. Unused outlets. All unused outlet holes in the box shall be securely closed.

e. Interior coating. All distribution boxes shall be constructed of corrosion resistant materials, or if constructed of concrete, shall be given a minimum of one coat of bituminous-type material.

f. Outlet levels. All outlets of the distribution box shall be made level. A small dam of bituminous or similar material in each outlet of the box will facilitate the leveling of these outlets.

g. Equal length required. The soil absorption area serviced by each outlet of the distribution box shall be equal.

h. Effluent discharge. Each distribution box shall discharge into a subsurface absorption field or other approved secondary treatment system.