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ASE 18024

January 30, 2014

Acton Conservation Commission
427 Main Street
Acton, MA 01720

Re: Notice of Intent
148 Willow Street

Dear Commission Members:

This letter is to explain the testing and design parameters which resulted in our placement of the proposed subsurface sewage disposal system behind the existing garage. The system is designed to serve the existing single family home and garage.

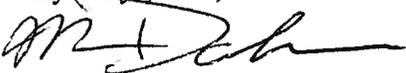
The area at the front of the house is below Willow Street and is occupied by a circular driveway. We expect that it consists of fill materials placed over the ground moraine that extends across Willow Street to the approximate rear of the house. Ground moraines consist of glacial till soils deposited in a thin veneer over bedrock and the depth to groundwater is shallow. The combination of required offsets from property lines and the house foundation, expected soils, land uses [including utilities] and topography exclude the front of the house as a location for a soil absorption system.

The rear yard is shown [USGS -Hansen, 1948] to be located on a kame terrace and the subsurface explorations encountered sands and gravels that are well suited for subsurface sewage disposal. These materials are representative of kame terrace deposits.

Indications of shallow depths to groundwater were found as would be expected near the ground moraine/kame terrace interface and resulted in the requirement that the soil absorption system be elevated above the existing ground surface.

The placement of the soil absorption system behind the garage was mandated to allow the flow of runoff from the driveway across the grassed area between the garage and house/pool/patio.

The system conforms to the requirements of Title 5 and is presumed to protect the Interests of the Act and your Bylaw and as it is to be constructed in a relatively flat area maintained as lawn, environmental disturbances and opportunities for erosion should be expected to be minimal.

Very truly yours,

Mark T. Donohoe, PE
for: Acton Survey & Engineering

