123 W Blue Grass Rd
Louisville, KY 40201

October 29, 2014

Turf Irrigation
Mr. Alan Flanders
546 Water Works Way
Louisville, KY 40201

Dear Mr. Flanders,

I am very interested in consulting with you regarding designing and installing an irrigation system for the existing landscape in my backyard. I have a large turf area surrounded by beds that contain both perennial and annual plants.

Currently I am hand watering, but I am finding it very hard to keep everything alive. I either overwater or discover areas that I have not watered at all.

I would like to begin the designing process now with plans to install late winter, early spring of 2015. I look forward to meeting with you at your earliest convenience.

Sincerely,

Mrs. Pamela Crabtree

You own a company that designs and installs landscape irrigation systems. Based on the limited information Mrs. Crabtree has provided, you have determined that the best type of irrigation system would be sprinkler irrigation. In your letter please explain how it works, as well as include the Pros and Cons.

Sprinkler Irrigation: Water is directed upward into air to fall as drops onto plants and soil, as with natural rain. System uses higher water pressure and flow rate and combines multiple sprinkler or spray heads together. Larger landscapes benefit from professional design and installation to match application areas and water delivery to plantings and to reduce water waste.
Pros: Most effective for larger turf areas and where spreading ground covers are planted. Underground, permanent and out of the way equipment. Sprinkler head choices available to adjust application near hardscapes (e.g., 90°) and shrub and flower beds (e.g., bubbler). Readily divided into irrigation zones to accommodate different plant-water needs and available water volume. Readily automated.
Cons: Upward water direction increases loss to evaporation (as much as 20 to 50%), so early morning application is recommended. Higher cost to install and needs regular maintenance, including winterizing.