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September 24, 2013

Mr. J.H. Graham III, Mayor
Crossville City Council
City of Crossville, City Hall
99 Municipal Avenue
Crossville, TN 38557

Subject: Wastewater Collection System Study
Engineering Proposal for Flow Monitoring and Infiltration/ Inflow Analysis

Dear Mayor Graham:

For twenty-four years GRW Engineers, Inc. has had the pleasure of working with the City of Crossville's employees while providing engineering services to the City. In 2006, with Crossville's help, GRW completed the Wastewater Facilities Plan Report. This report analyzed the needs and suitability of the existing wastewater treatment plant and collection system for the City's planning area. It reviewed several options to provide for the future growth of Crossville. Compilation of the study consisted of input from the City of Crossville's various departments, the State of Tennessee Department of Environment and Conservation (TDEC), local interest groups, and the Crossville City Council.

The Wastewater Facilities Plan recommended a two phased approach to provide for sustainable growth in the Crossville planning limits. The first phase was to address issues at the Wastewater Treatment Plant. The second phase would address the collection system.

Wastewater Treatment Plant

Improvements to the plant were begun in 2007 with the submittal of applications to various agencies for funding. The final recommended improvements at the Wastewater Treatment Plant were completed in January of 2013. Funding for these improvements had come in the form of;

- A \$1,000,000 grant from the United States Department of Commerce, Economic Development Agency (EDA).
- Two (2) \$500,000 Community Development Block Grants (CDBG), from the State of Tennessee, Department of Economic and Community Development.
- A 1.23% loan from the State of Tennessee, State Revolving Fund (SRF) in the amount of \$500,000.
- A \$4.5 million dollar allocation from SRF in which 40% (\$1.8 million) were grant funds. This money was through the American Recovery and Reinvestment Act (ARRA).

As indicated above, the City of Crossville has had the good fortune of receiving favorable funding for the wastewater projects. This is due to growth and jobs in the community, hard work from City staff and elected officials, and the Crossville's proximity to the Obed River. The Obed River is currently recognized by both the State and Federal governments, as a natural resource to be protected.



Collection System

To continue Crossville's approach to address growth and provide for the future, the Facility Plan recommended the second phase address the collection system. In February 2013 the City applied for a \$500,000 Community Development Block Grant. As this grant is a competitive process, the City provided Inflow and Infiltration (I&I) data with the application to confirm the need of collection system rehabilitation to the funding agencies. The City provided flow data from the Treatment Plant and additional information from a flow monitoring study done in the Little Obed Drainage Basin.

Crossville's collection system has been divided into three (3) basins; the Little Obed, Old Landfill, and the WWTP Basin.

At this time GRW is respectfully requesting the City of Crossville allow GRW to complete the flow monitoring on the two remaining basins; the Old Landfill and the WWTP Basins. GRW is requesting to perform the following tasks for a total not to exceed cost of \$75,000.00.

- Installation and maintenance of up to 14 flow monitors and one rain gage for a period of up to 3 months, and a preliminary analysis of the data (CSL Services Inc.).
- Final Flow Monitoring Analysis and Report, and monitoring of data (GRW Engineers Inc.).

Please feel free to call if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jim Hilborn', is written over a horizontal line.

Jim Hilborn
GRW Engineers, Inc.

For City of Crossville

By: _____

Title: _____

Date: _____

CC: Mrs. Sally Oglesby, City Recorder
Mr. Clark Annis, WWTP Operator