

# SANITARY PROJECTS

## KRESS ROAD SEPTIC RELIEF Project Description

### Project Overview

Analysis and design for septic system relief, southwest Allen County, IN. This project involved a small community of older homes and some new building sites with failing septic systems bonded together to seek public sewer system for their properties.

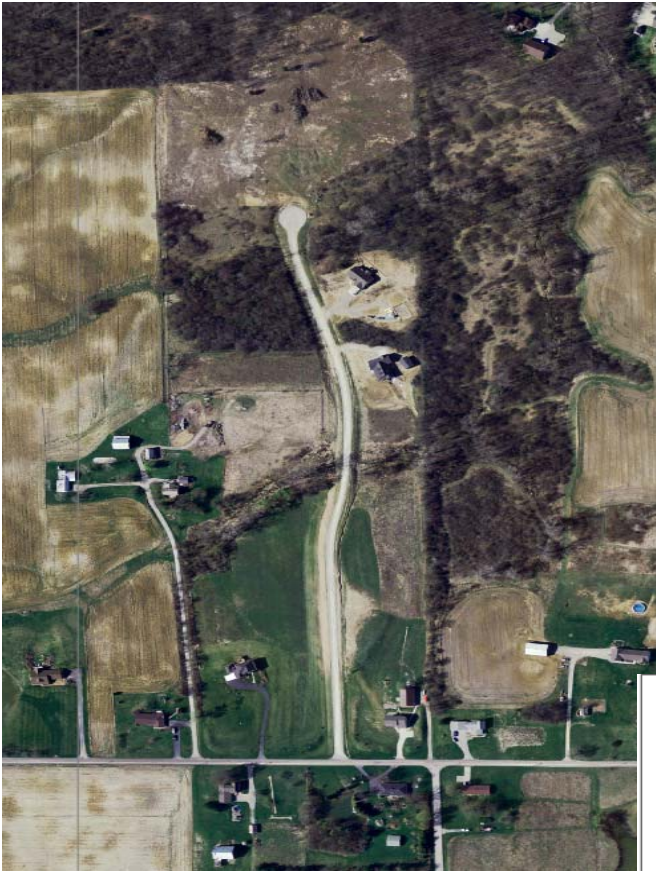
Analysis included: reviewing multiple collection system options, developing estimated installation and maintenance costs for each system, meeting with owners to select appropriate service option, developing construction plans for the selected route, and bid management to select the successful bidder.

### Construction Cost Estimates and Study Cost

The winning bid for the collection was approximately \$70,000. The engineering cost to prepare the construction documents, cost estimates, and bidding services was approximately \$20,000.

### Survey and Property Research

A complete topographical survey of the sanitary collection system route, including the location of the existing septic fields and sanitary taps to each home was completed prior to design. In addition to the topographical survey, boundary survey information was collected within the subdivision and along the proposed off-site route to verify easement requirements and establish a corridor for the pipe system.

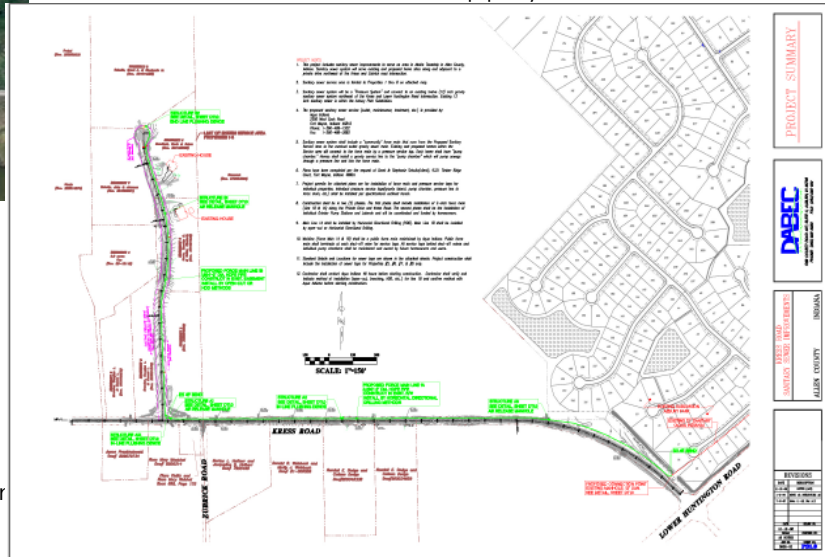


### Construction Documents

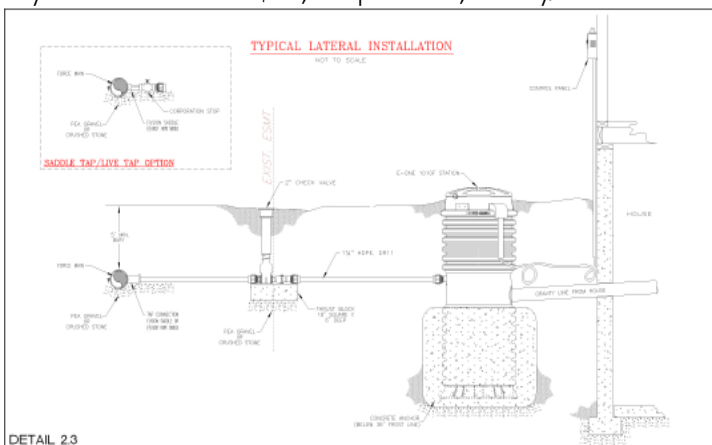
The construction documents for this project included Plan and Profile sheets for the system, specifications and details for the grinder pump installations at each home and general details regarding construction procedures and restoration procedures.

### Homeowner Costs

This project illustrates the ability of appropriate design and system selection to reduce the overall cost to each home owner when moving from septic system to municipal waste water treatment. The actual construction cost to each home owner on this system will be less than \$10,000 per home, turn key.



System Overview Plan Sheet



Typical Grinder Pump Station Installation Detail

## Client Reference

**Grant and Stephanie Schultz**  
Home Owners

9331 Timber Ridge Court  
Fort Wayne, IN 46804