

## Lincoln County Wastewater Collection System for the Blackjack Community Lincolnton, Georgia

### Services Provided:

Preliminary Planning  
Funding Procurement:  
USDA-RD  
CDBG  
Design  
Permitting  
Easement Acquisition  
Construction Observation and  
Management

### Project Data:

13,600 LF of 8" Gravity Sewer  
775 LF of 10" Gravity Sewer  
535 LF of 12" Gravity Sewer  
4 Duplex Submersible Pump  
Stations  
2,500 LF of 4" Forcemain  
8,800 LF of 6" Forcemain  
25,000 LF of 8" Forcemain  
970 LF of Jack & Bores  
93 Manholes  
134 House Connections  
7 Grinder Pump Stations  
14,000 CY of Trench Rock

Construction Cost:  
\$3.275 million

Date of Completion:  
August 2012

### Contact:

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The citizens of the Blackjack Community in Lincoln County had been plagued by failing septic systems for over 30 years. In 2002, Lincoln County requested EMI to assist them with the initial planning efforts to extend sanitary sewer service to the Blackjack Community. EMI assisted Lincoln County with sewer service area negotiations with the City of Lincolnton, and also worked with the County's Grant Writer to conduct income surveys of the target area.

In 2005, EMI prepared a preliminary engineering report to support a Community Development Block Grant application. The report thoroughly documented the need for the project along with the proposed improvements. As a result of the application, Lincoln County was awarded a \$500,000 CDBG for the project.

Following the CDBG award, EMI assisted Lincoln County with financial analysis, preliminary engineering and environmental clearances for the remainder of the project funding from USDA-Rural Development. The USDA funding consisted of a \$1.254 million low interest loan and \$2.186 million in grant funds in addition to the \$500,000 in CDBG grant funds.

Project design was completed in 2008, and as expected with a project of this size there were numerous easements that took time to acquire. Acquisition was finally completed and the project began construction in February 2011. A considerable amount of the project area was constructed in rock, which is most likely the cause of the failing septic systems.

At project completion over 135 homes were taken off of their failing septic systems and placed on the public sewer system. The system consisted of 4 main pump stations, 7 grinder pump stations, approximately 15,000 LF of gravity sewer lines and associated manholes, and almost 7 miles of forcemains.