

BRUSH CREEK SANITARY SEWER SYSTEM

CLIENT:

The City of Johnson City

LOCATION:

Johnson City, Tennessee

PROJECT TIME FRAME:

2007 thru 2013

CONSTRUCTION COST:

\$8.2 Million

FUNDING:

FastTrack Infrastructure Development Program, Local

PROJECT TEAM:

Gary Tysinger, PE, FASCE - Oversight

Jill Workman, PE - Project Leader

Rick Bowers, PLS –Surveyor

Sam Clark - Designer

PROJECT SERVICES:

- Surveying & Easements
- Preliminary Engineering Reports & Analysis
- Sanitary Sewer System Design
- Permitting
- Construction Drawings & Documents
- Construction Services & Observation

PROJECT DESCRIPTION:

This project involved the replacement of approximately 1.5 miles of the Brush Creek Sanitary Sewer Interceptor, which provides service to a large portion of the City including industrial, commercial, and residential areas as well as the downtown area, East Tennessee State University, Mountain Home Veterans Administration, and the Johnson City Medical Center. The initial phase of the interceptor replacement project was completed in 2008 at \$4.3 million, and included replacing approximately 6,000 linear feet of the interceptor with a 36-inch diameter line. The second phase of the interceptor replacement project was completed in 2013 at \$3.9 million, and included replacement of approximately 3,600 linear feet of 42-inch interceptor, traversing through a narrow urban corridor of Johnson City. TH&P provided feasibility studies, preliminary routing and design analysis, construction drawings, contract documents, permit submittals, and contract administration for this project. This infrastructure project required creative solutions to meet several complex challenges such as routing, hydraulics, bypass pumping, traffic control, large diameter bores, environmental permitting, and extensive coordination with the railroad, existing utilities, other City departments, and downtown events. Construction work for this project was performed by Thomas Construction Co. This project was completed on schedule, closing under budget and without additive change orders.

Deep Sewer Interceptor Lines



Large Diameter Bores



Narrow Corridor Construction

