

CASE STUDY

SEWER MAIN REHABILITATION IN GREENVILLE, SC

City needed trenchless sewer rehabilitation solutions.

THE CHALLENGE

In 2019, the City of Greenville, South Carolina decided it was time to rehabilitate its sanitary sewer mains. The city opened a bid for a sewer main rehabilitation project that would ensure this essential infrastructure was functioning at full capacity. Greenville selected Vortex Services for this contract because of the team's many years of combined rehabilitation experience and less expensive bid. The Vortex Services crew proposed a comprehensive rehabilitation plan centered around trenchless repair methods including cured-in-place pipe (CIPP) and pipe bursting.

THE SOLUTION

Having performed pre-CCTV pipe investigations on Greenville's roughly 91,000 LF of sewer lines, which varied from 6" to 12" in diameter, the crew had a good idea of what issues they would need to address in the rehabilitation portion of the project. The team then cleared the lines of debris and inspected via HD CCTV crawlers to gain deeper insight into each and every pipe defect.

Next, the crew kicked off the CIPP lining process for 68,329 LF of main lines and 152 lateral lines. These CIPP liners strengthened the piping and made the once-damaged assets resistant to future degradation or corrosion. Then, the team performed a total of 28 separate point repairs and started the pipe bursting process on 13,069 LF of 6" to 8" mains. The crew ran into some difficulty because of the proximity of water lines relative to these sewer mains but was able to successfully complete the task by using static bursting methods.

THE RESULTS

Despite the hurdles they faced working in high-flow areas and a jobsite where water and sewer lines lay close together, the Vortex Services squad finished the job right on schedule and stayed within the set budget. By addressing its infrastructure rehabilitation needs head-on, Greenville ensured that the city would stay safe from serious consequences like erosion, shortened asset life, environmental degradation, and road collapses that can result from unaddressed sewer issues.



PROJECT SNAPSHOT

PROJECT OWNER

City of Greenville

CONTRACTOR

Vortex Services – Southeast Division

PROBLEM

91,000 LF of the city's 6"-12" sewer mains and lateral lines needed rehabilitation.

SOLUTION

Performed CIPP lining on 68,329 LF of mains and 152 laterals and used pipe bursting on 13,069 LF of mains.

CONTACT

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