

Case History Series #002

Large Diameter Relining Project No Big Deal for Contractor

Situation:

When the City of St. Paul, Minnesota needed to restore one of its main storm sewer lines that ran beneath scenic Phelen Creek, its primary criteria was to minimize environmental disruption to Phelen Creek and to have the project done by a qualified, budget conscious contractor. The sewer lines in need of repair ran more than 1,400 linear feet and ranged from 72" to 84" in diameter... the city's largest relining project to date.

Problem:

Prior to installation, several obstacles had to be overcome. For one, winter's cold temperatures make for difficult working conditions. Also, a section of 72" diameter pipe had collapsed and had to be point-repaired. Finally, once the actual installation was to begin, water pressure during the inversion process would have to be carefully controlled. This was due to the weight and friction factors of such a large diameter liner, combined with pipe sections where there were steep grades.

Solution:

The City ultimately hired, Visu-Sewer Clean & Seal, Inc., a licensed installer of the National Liner® CIPP process. With its team of experts, Visu-Sewer inspected the entire line and performed a point repair on the collapsed section of pipe. Then the contractor constructed an onsite wet-out facility where they could control the resin impregnation and saturation process. Special bulkheads were also attached to the end of each liner. This helps control the water force within each liner during the inversion process. Once completed, the lines were re-inspected to the city's satisfaction. A design life of 50 years is expected for the new "stand alone" pipe liner.



For more information: contact
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