

Wisconsin Raises the Bar utilizing T-Liner®

LMK Enterprises, Inc/Performance Pipelining, Inc. of Ottawa, IL sets new world record

A cured-in-place lateral liner was inverted 160 feet for the Village of Elm Grove, WI. This inversion length would hardly be news if it was not for a fact the liner was inverted from the mainline into the lateral. A unique patented process by LMK, known as T-Liner®, is a “State-of the Art Lateral Lining Process” that combines spot repair and lateral liner in one single process using the air inversion.

Performance Pipelining completed the project for the Village of Elm Grove under the guidance of Rucker/Mielke engineering company. This affluent community, located 20 miles west of Milwaukee, is home to many oversized lots with very extensive landscaping, making the selection of proper lateral lining rehabilitation method more vigilant.



“The lengths of laterals and the extensive landscaping were contributing factors in selecting Trenchless Technology as the preferred method of rehabilitation, said Terrence Tevera of Rucker/Mielke engineering company. “The T-Liner® was selected as the lateral repair because of its ability to provide a non-leaking connection at the mainline and from the fact that it is installed from the mainline and doesn’t need an excavated pit”. There were 17 locations selected during the engineering design that were in need of repair. These laterals ranged from 75 feet in length to 160 feet in length with an average length of 95.9 feet. Some of the lines had risers and multiple fittings due to the depths up to 19 feet. The project was advertised and bid on August 15, 2002 and Performance Pipelining, a licensee of LMK Enterprises, was awarded the contract. During the installations, there were many challenges due to the winter conditions in Wisconsin and because the laterals were fairly deep with multiple bends. Larry Kiest, Jr., President and CEO of LMK/Performance Pipelining reported that the crew did a superb job relining these laterals in record time, raising the bar and setting the new record on length for the lateral liner inversions from the sewer mains.

Where outside cleanouts could not be found or utilized, LMK Enterprises latest patented process for no-dig installation of cleanouts, the VAC-A-TEE™, was used. The sewer mainlines ranged from 8 inch to 15 inch in diameter and were constructed of unlined concrete pipes.

Chuck Armao, Director of Public Works, stated that they are committed to reduction of inflow and infiltration in their sewer system in the Village of Elm Grove. He also stated that they strive to utilize the latest technologies that minimize disruptions to the community and the T-Liner® is a good example of their efforts. We plan to continue using the latest Trenchless Technology methods for our future sewer rehabilitation programs. The monies appropriated for this work was made through a grant from the Federal Government’s Clean Water Act by Milwaukee Metropolitan Sewer district (MMSD). For more information please contact:

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