



FLEXLINER®

TRENCHLESS MANHOLE REHABILITATION



THE MOST ENVIRONMENTALLY FRIENDLY
MANHOLE REHABILITATION SOLUTION!



WWW.PREDL.US



TRENCHLESS MANHOLE REHABILITATION WITH THE FLEXLINER®

Providing a permanent, fast and high-quality manole rehabilitation solution!

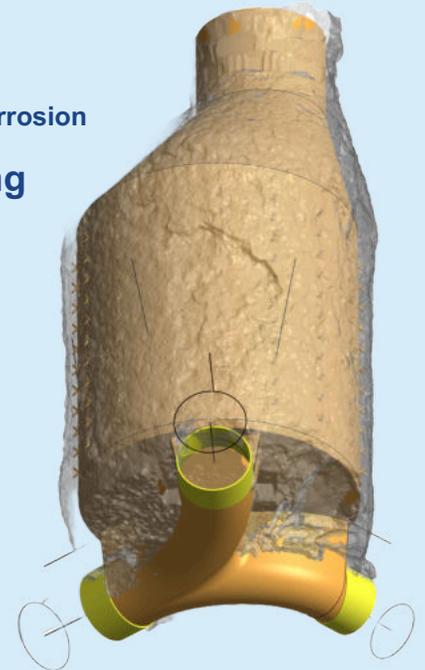
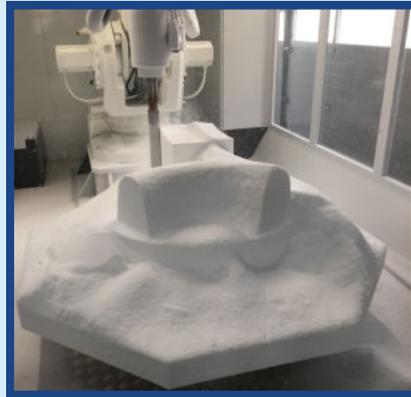
FLEXLINER allows us to provide the most environmentally friendly, fully trenchless, manhole rehabilitation within a very short time. This is possible by folding the FLEXLINER and inserting it through the cone into the manhole in an undivided and non-destructive manner. Once it is in the base of the manhole, it is unfolded and returned to its original size.

The FLEXLINER rehabilitation method begins with modern 3D laser scanning for the acquisition of necessary data and measurements. This allows optimum planning and preparation of rehab materials offsite, which significantly reduces the amount of work required on-site.

Benefits of using FLEXLINER for manhole rehab

- > FLEXLINER provides a **hydraulically optimized** copy of the old manhole base by use of 3D laser scanning
- > Irrefutable and permanent mechanical bond with the old manhole through monolithic concrete backfilling process
- > Further vertical rehabilitation with PP-CORPROTECT® or wall liner of choice
- > 100% trenchless, NO large construction site vehicles
- > Preservation of existing building materials conserves resources
- > Rehabilitation process with a service **life of at least 50 years; highly resistant to corrosion**

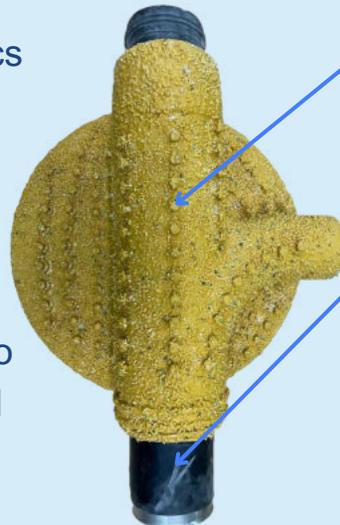
Old manhole digitization through 3D scanning and modeling



Technical features:

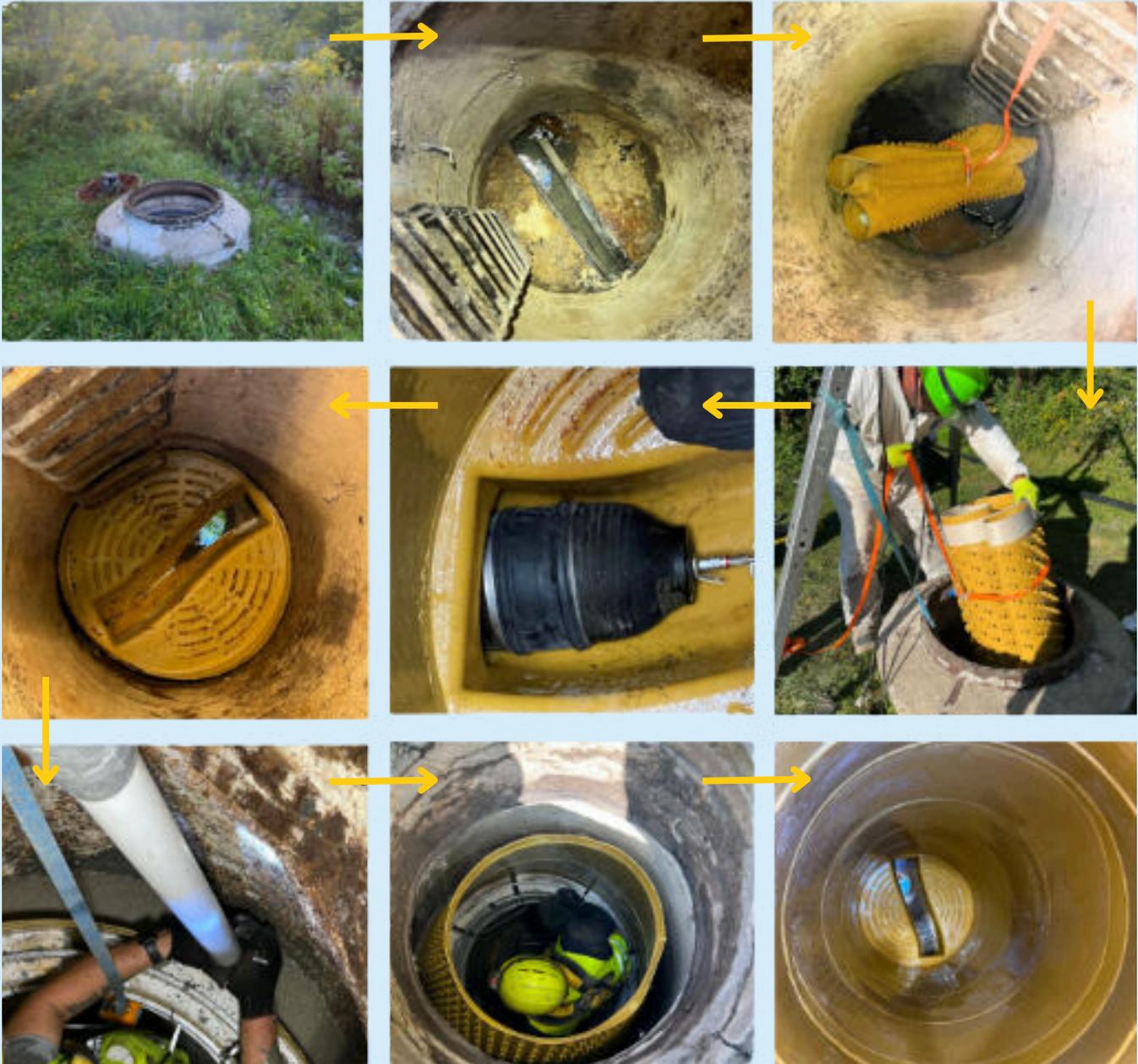


- Channel:** best hydraulics due to smooth surface
- Bench:** with integrated slip protection
- Manhole edge:** with vertical transition strip to allow connection to wall liner of choice.



- Bonding bridges and aggregate:** to ensure superior bond to mortar and existing structure.
- Stainless steel sleeve:** to ensure gas and watertight connection between inverts and existing pipes.

INSTALLATION OF THE PREDL FLEXLINER



FULLY LINED MANHOLE FLEXLINER & PP-CORPROTECT

Incorporated transitions strips on the FLEXLINER allow vertical continuations of the rehabilitation with PP-Corprotect lining or any other wall liner of choice.

