



**PROVIDING A
DIVERSITY OF SYSTEM RENEWAL
SOLUTIONS**





The Problem

Is your community or industry faced with aging infrastructure? Are regulations encouraging or even mandating system rehabilitation? You, like many other municipalities, industrial sites and manufacturing facilities, are viewing your sewer systems as true assets, not just another underground piping network. You are faced with many tough decisions in order to provide another service life to the deteriorated pipelines, not just implementing a temporary fix to repair a defect for the short term. You want limited disruption to your constituents and operations, and a cost-effective solution with proven results. In addition, you need options—not just a single solution—to provide this new life and ensure the continued operation of your vital piping networks. Reynolds Inliner can provide these options.

The Solution Provider

As one of the few cured-in-place contractors in the United States that owns our technology and tube manufacturing company, Reynolds Inliner can quickly and efficiently meet the needs of our customers.

Our services are available to you through the traditional bid process as well as through direct negotiation. As an alternative, Reynolds Inliner can offer design-build services for system renewal in which you allow us to handle a project from the design concept stage through rehabilitation to completion. We employ a unique blend of engineers and contracting personnel with proven experience to determine the exact source of system problems, and develop innovative, cost-effective solutions. This design-build arena allows for accelerated schedules, reduced or eliminated study costs, and sole-source accountability. However you choose to access our services, you're assured full value on your investment and a commitment to teamwork and top-notch workmanship.

Reynolds Inliner has the relationships and mechanisms already in place to bring our experience to meet your renewal needs. As an arm of the full-service construction company Reynolds, Inc., we bring to your project a highly respected firm, recognized throughout the industry for expertise in our field.



Reynolds Inliner Solutions

Reynolds Inliner has been providing system renewal since the 1970s. We focus on Inliner®, our patented cured-in-place pipe (CIPP) lining technology, but pride ourselves in our ability to offer a wide variety of other renewal options.



Inliner® Cured-In-Place Pipe

We began with CIPP in 1992 as the first Inliner® licensee and have now evolved into the parent company of the technology and the manufacturer of the liners. We have installed more than 6.5 million feet of CIPP and, by owning both Inliner Technologies and Liner Products, we have the ability to work with resin and catalyst specialists, felt suppliers, equipment manufacturers, and a network of other licensees to develop innovative ideas that will shape the sewer rehabilitation industry in the years to come.

Inliner® provides 50-year service life renewal opportunities for sanitary,

storm sewer and process water systems. We can rehabilitate a wide variety of pipe materials, including clay, concrete, ductile iron, steel and corrugated metal, with pipe diameters ranging from four inches to more than 100 inches. We can offer renewal solutions for low-pressure force mains and roadway culverts. Since Inliner® conforms to the host pipe's shape, we can rehabilitate your traditional round pipes as well as elliptical, egg-shaped, and under the right circumstances, even rectangular structures.



CIPP Advantages

CURED-IN-PLACE PIPE OFFERS A WIDE VARIETY OF ADVANTAGES INCLUDING:

- “No-Dig” technology (no excavation for most installations)
- Full structural renewal capability
- Inflow/infiltration reduction and/or elimination
- Limited traffic disruption
- Minimal social disruption
- Improved hydraulics in the pipeline
- Limited diameter reduction
- Limited or no reduction in pipe capacity
- Significant cost savings over many other renewal options

Municipalities and industrial facilities around the world have benefited from Inliner®, and we are confident in our ability to provide a solution to your aging infrastructure needs.

Our CIPP is tailor-made to meet your individual needs. We carefully determine exact pipe diameters and required CIPP thickness. We utilize a variety of resins, including polyester, vinyl ester and epoxy, depending on the nature of the piping environment. Our ISO 9001:2000 certification, covering both our design of the product as well as the product itself, brings an added element of quality control to our projects. Once the design is complete, Reynolds Inliner utilizes two installation methods:

- ◆ Inversion per ASTM F1216
- ◆ Pulled-in-place per ASTM F1743

We complete our lining by reinstating the service connections internally using robotic cutting equipment on smaller diameter pipes and manual, man-entry cutting on larger diameter pipe. We have the ability to take our CIPP lining a step further by offering not only mainline rehabilitation but also lining options for the laterals connecting to the line. This lateral lining is available with the same CIPP process that we use on our mainline pipes. We complete the system by providing an interface seal at the mainline/lateral connection point to ensure a tight system from lateral to mainline.





Why Reynolds Inliner?

- Diversity of solutions—we don't provide a solution, we provide *the* solution that is right for you.
- Sole-source accountability.
- We are the parent company of the technology, making us “vertically integrated,” controlling the QA and QC of design, manufacturing and installation
- We are large enough to handle any project, yet our family of employees gives the small feel that allows us to respond to your specific emergency and give it the attention it requires.

Other Renewal Options

While we focus on cured-in-place pipe, we also offer diversity in renewal opportunities. Additional capabilities of Reynolds Inliner include slip-lining, manhole renewal, and excavation and replacement.

SLIP-LINING

Slip-lining involves insertion of a smaller diameter pipe into an existing pipeline and then filling the annular space between the pipes with a grouting material.

We have used this method of rehabilitation since the 1970s and have experienced much success. The installation process allows for continued operation of the pipeline and can prove to be cost-effective in large diameter sewer pipe applications.

MANHOLE RENEWAL

Reynolds Inliner offers complete manhole renewal, including application of a variety of manhole products to rebuild

manhole walls, stop infiltration, repair aging components and restore the structure. We evaluate and determine which products fit your application.

EXCAVATION AND REPLACEMENT

When trenchless renewal is not the answer to your problem, we have the equipment and personnel required for excavation and replacement of pipelines and system components.





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