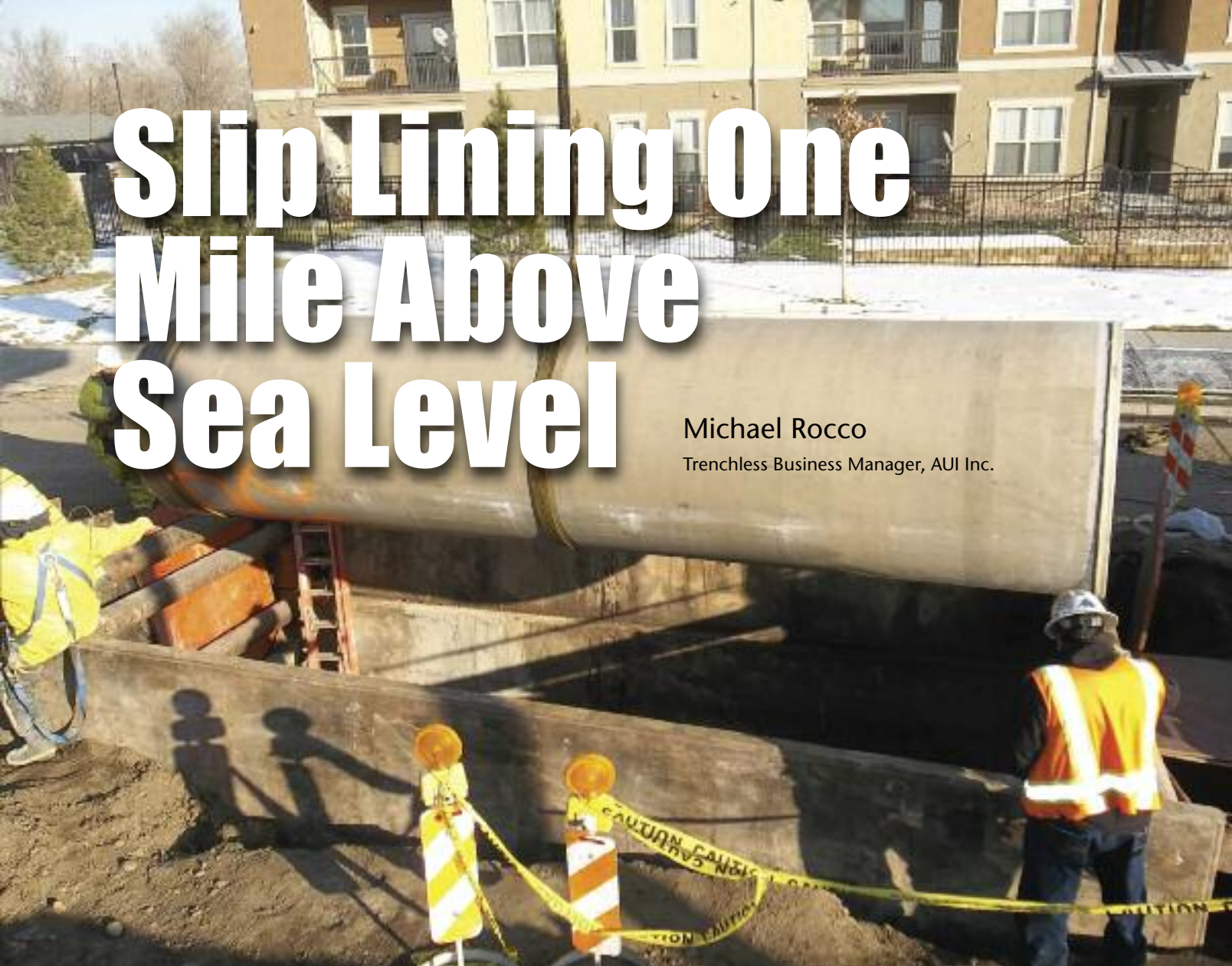


Slip Lining One Mile Above Sea Level

Michael Rocco
Trenchless Business Manager, AUI Inc.



Littleton, Colorado, is a suburb south of Denver, on the west side of Interstate 25. Like Denver, Littleton is also a mile above sea level. The city of 41,000 is known for its “small town” atmosphere.

The beginnings of Littleton can be traced to the “Pike’s Peak” gold rush of 1859. Along with the gold-seekers came merchants and farmers to provide the necessities of life. As population grew in the Denver area, the need arose to construct a series of ditches to carry water to farms and businesses that didn’t already have ready access to rivers and creeks in this arid land.



Pipe is lowered into an insertion pit for slip lining in Littleton’s sanitary sewer system.



AUI and subcontractors completed the Littleton project on time and under budget.



Aging sewer lines need rehabilitation in thriving Littleton.

As Littleton has grown over the years, so has the sewer system and the need for replacing the aging infrastructure. The City of Littleton over the past five years has started an Interceptor Rehabilitation project to help with the need to replace the sewers. Trenchless methods were chosen because of all the benefits they bring instead of open-cut replacement.

The 2011 Sanitary Sewer Rehabilitation Project was put out to bid in October, and the City decided to allow several trenchless rehabilitation processes.

AUI was the low bidder utilizing the slip-line method to replace the old 66-

inch RCP sewer with new 54-inch HOBAS pipe.

There were two unique aspects about this project. The first was that the old 66-inch RCP was originally installed curvilinear for about 300 linear feet and slip lining a curved sewer is difficult at times. AUI decided to use 10-foot joints of 54-inch HOBAS sn 46psi, low-profile bell pipe and successfully installed the new pipe inside the old pipe along the curved radius.

The second unique aspect of this project was that the first joint of 66-inch RCP pipe originally installed into the manhole had a 16.5-degree bend. AUI excavated at this bend, removed the top half of the sewer, and then installed a 16.5-degree bend of new HOBAS pipe.

Some of the early concerns of the project were due to the distance from AUI's home office, the careful coordination of our subcontractors, and ensuring that schedules were met and good communication was always in place. Due to all the quality and safe work performed, the project was completed on time and on budget.

A special thanks to AUI's project superintendent, Archie Lucero, and crew for all their hard work and dedication to the project.

AUI would also like to recognize our subcontractors on this project: Spectra-Shield, which handled the specialized manhole coatings; Condeck Corporation, which grouted annular space; and Guildner Pipeline, which cleaned and CCTV-inspected the lines before and after slip-line construction.

PROJECT DETAILS

Project Name: 2011 Sanitary Sewer Rehabilitation

Length and Diameters: 1,051 feet of 54-inch Hobas pipe

General Contractor: AUI Inc., Albuquerque, NM

Engineer: Jim Redmond, Littleton, CO

Owner: City of Littleton, CO

AUI has all the essential pieces.

Utilities, Pipe Bursting, Trenchless Technology, Heavy Highway, Slip Lining, Bridges, Nationally Recognized Safety Program

Discover how we put it all together.

AUI CONTRACTORS
CONSTRUCTION MANAGERS
ENGINEERS
INC.

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