Second Edition

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Horizontal Auger Boring Projects

Horizontal Auger Boring Task Force



Edited by Alan Atalah, Ph.D., P.E.



UTILITY ENGINEERING & SURVEYING INSTITUTE

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Prepared by the Horizontal Auger Boring Task Force of the Trenchless Installation of Pipelines Committee of the Utility Engineering and Surveying Institute of the American Society of Civil Engineers

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PREFACE

There are several different trenchless technologies. Horizontal auger boring (HAB) is one of these and is the focus of this manual of practice (MOP). The first ASCE MOP for auger boring projects was developed in 2004 by the Auger Boring Task Force of the ASCE Committee on Trenchless Installation of Pipelines (TIPS). This MOP was the first in a series of MOPs that have promoted best practices and developed a knowledge base for auger boring projects. Since then, there have been advancements in HAB technology. Therefore, the Auger Boring Task Force established by TIPS has issued this updated and comprehensive edition.

This MOP will assist engineers, contractors, and owners involved in new pipe installation projects that use the HAB method to design and carry out projects effectively and safely, in conformance with project requirements and site conditions. The objective of this manual is to present a clear understanding of the method, its capabilities, and limitations; outline important design and construction considerations; and identify potential problems along with prevention and mitigation measures. The task committee understands that various trenchless technologies may be combined to form hybrid trenchless methods. However, this MOP will focus on the mechanics of the basic HAB means and methods with currently available equipment. These guidelines are based on information compiled from manufacturers' literature, field experience, technical papers, and other related information, and from comments and reviews made by the Blue Ribbon Committee.

The task committee would like to thank all the task committee members and reviewers for their support, time, and effort.