

CASE STUDY

GUIDED AUGER BORING | UTILITY INSTALLATION

**Project Name:**

Consumers Energy Utility Installation

**Prime/Sub Contractors:**

Dunigan Bros., Inc. – Jackson, MI

**Location:**

Hamilton, MI

**Owner:**

Consumers Energy

**Ground Conditions:**

Lean clay conditions

**Akkerman Equipment:**

Model 240A GBM System with Universal Base Adapter. Guided Auger Boring System and accessories

**Pipe:**

4-in gas main

**Total Length/Longest:**

140 LF

PROJECT OVERVIEW

Dunigan Bros., Inc. completed a guided auger boring installation for a gas distribution project in Hamilton, Michigan. The project required placement of a 4-in gas main using a non-HDD trenchless method to meet permitting requirements while maintaining precise line and grade control.

By utilizing the Akkerman 240A GBM System, the crew installed pilot tubes and completed the installation with controlled accuracy. The guided auger boring approach provided an efficient alternative method while supporting reliable gas utility placement.

THE CHALLENGES

- Meeting permitting requirements that limited the use of HDD methods
- Maintaining line and grade accuracy for a small-diameter utility installation
- Working within lean clay conditions requiring controlled excavation
- Minimizing environmental impact and construction footprint

THE SOLUTION

- Utilized the Akkerman 240A GBM System to establish precise pilot tube alignment
- Applied guided auger boring methods to complete installation with controlled accuracy
- Leveraged system adaptability to perform both pilot installation and pullback operations
- Selected a trenchless approach that minimized disturbance and environmental impact

OUTCOME

- Successfully completed the 140 LF gas main installation
- Maintained accurate line and grade control for small-diameter utility placement
- Provided a cost-effective alternative to HDD while meeting permitting constraints
- Minimized environmental impact and surface disruption
- Demonstrated the versatility of guided auger boring for utility installations beyond conventional casing applications

