CASE STUDY
GUIDED PIPE RAMMING | PILOT TUBE ASSISTED

Project Name:
1800 N. Sewer Realignment – Phase 1

Prime/Sub Contractors:
CH Nix Construction – Ogden, UT

Location:
Salt Lake City, UT

Owner:
Municipal Sewer Authority

Ground Conditions:
Mixed soils beneath active rail lines and interstate infrastructure

Akkerman Equipment:
Pilot Tube System with guided pipe ramming setup. Configured for staged installation (PT → 20-in → 36-in)

Pipe:
36-in steel casing (1-in wall) with 24-in HOBAS carrier pipe

Total Length/Longest:
Six parallel drives, approximately 380 LF each

PROJECT OVERVIEW

CH Nix Construction completed pilot tube assisted pipe ramming operations for Phase 1 of the 1800 North Sewer Realignment project in Salt Lake City, Utah. The project required multiple trenchless crossings beneath active rail lines and Interstate 15 as part of a broader utility relocation effort.

Using a staged installation approach, the crew installed pilot tubes to establish alignment before upsizing through intermediate diameters to final casing size. The method provided controlled accuracy while enabling efficient installation across multiple parallel drives in a highly constrained corridor.

THE CHALLENGES

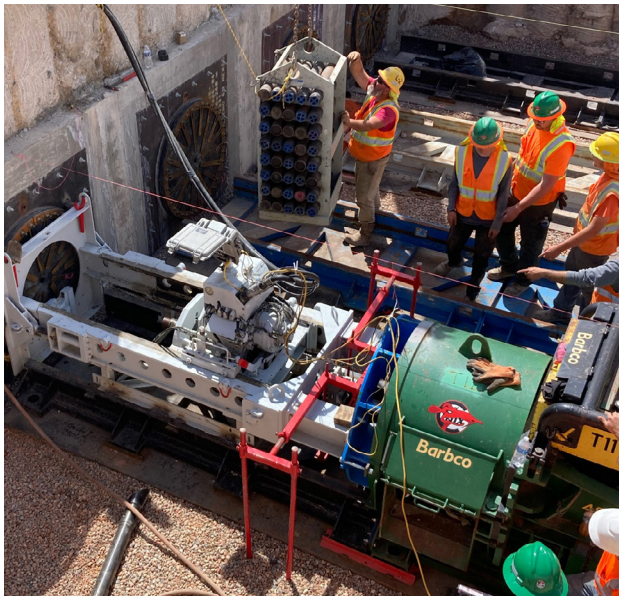
- Executing six parallel crossings beneath active rail lines and interstate infrastructure
- Maintaining precise line and grade across multiple staged installations
- Navigating mixed ground conditions beneath high-risk surface assets
- Coordinating repeated setups within a constrained construction corridor

THE SOLUTION

- Utilized a pilot tube system to establish precise alignment prior to pipe ramming operations
- Implemented staged upsizing (pilot tube → intermediate diameter → final casing) to maintain control
- Applied guided pipe ramming methods to complete installations beneath critical infrastructure
- Maintained consistent installation procedures to ensure repeatable accuracy across all drives

OUTCOME

- Successfully completed six parallel trenchless installations totaling approximately 2,280 LF
- Maintained accurate line and grade across all staged installations
- Enabled sewer realignment beneath rail and interstate infrastructure without surface disruption
- Delivered consistent performance across multiple crossings and setups
- Supported development of resilient wastewater infrastructure in a high-constraint environment



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