

New Sewer Installation: Slide Rail System from United Rentals

Integrated Trench Safety Solutions

North Andover, Massachusetts

J. Masterson Construction Corp. chooses United Rentals to protect workers and adjacent infrastructure during installation of a new sewer line to serve a residential development.

Project stats

Name: Orchard Village / MECo sewer

Objective: Installation of new gravity sewer for residential use

Equipment: Slide rail protective system

Start date: August 2010

Completion: December 2010



Snapshot

It was determined that a gravity sewer line would be needed to serve the Orchard Village housing development and adjacent Massachusetts Electric Company (MECo) office, after a septic system failed. The installation required 2,400 ft. of 8-inch PVC pipe, 500 ft. of 8-inch ductile iron pipe, and 600 ft. of 12-inch ductile iron pipe.

Solution

Working with the contractor and site engineer, United Rentals specified a slide rail system that could be installed to a depth of 20 ft. below ground surface, with provisions for significant dewatering. The pit would accommodate the installation of 3,500 linear ft. of gravity sewer pipe from the pump station to the housing development and MECo office. The trench run was installed in the southbound lane of Route 114, a busy state highway.

- **Problem-solving:** Because the housing development and the MECo office are situated on the crest of a hill, the depth of the excavation had to increase along the trench run for the sewer to function correctly at the tie-in point to the pump house.
- **On-site expertise:** United Rentals trench safety specialists worked closely with the project team to ensure regulatory compliance and seamless system installation and removal.
- **Speed and cost efficiency:** Among active shoring alternatives, slide rail is gaining popularity due to its cost-effectiveness. The system – comprised of steel panels that slide into tracked rails on vertical posts – is installed and removed as the earth is dug and backfilled.



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