

TRI-LOC CASE STUDY

Summer 2018



Trinity Products' Weldless Interlock System

PROJECT: I-75 Inlay Project - MDOT

LOCATION: Detroit, Michigan

OWNER: Michigan Department of Transportation

CONTRACTOR: Dan's Excavating, Inc.

SUBCONTRACTOR: Lowe Construction Co.

SOIL CONDITIONS: Plastic Clay

SCOPE: 240 linear feet of 42" OD x .500" & 379 linear feet of 48" OD x .500" steel casing - The project was designed to remove and replace concrete pavement and sewers in southwest Detroit.



INSTALLATION: In the Motor City, everyone wants to keep moving. It was no different when Dan's Excavating tasked their subcontractor, Lowe Construction Co. of Horton Michigan, to install 380 linear feet of 48" diameter and 240 linear feet of 42" diameter steel casing below the existing concrete roadways in southern Detroit. Using a Michael Byrne 4-Cylinder Bore rig and 4-Tooth Tri-Loc Steel Casing from Trinity Products, Lowe Construction successfully installed the spiral weld weldless interlocking joint with no issues.

RESULTS: Using Trinity Tri-Loc Casing pipe allowed the contractor to install more pipe per day than traditional welding. Jacking forces of 500,000 pounds were applied to the Tri-Loc joint with no deformation. Despite soft clay in some spots, all joints were fully engaged. In the end, utilizing Trinity Products' Tri-Loc joint gave Lowe Construction the results they were looking for, both installations were completed ahead of schedule, and below cost.

TESTIMONIAL: "Once the joints were modified they went together really well. The key was we couldn't push too hard in that type of soil. We maxed the pressure on the machine (500,000 pound max thrust) and pushed on the machined female end and it didn't hurt it."

- Rusty Lowe, Lowe Construction