

Failed Pipe in New Jersey Repaired Using Pipe Lining

In May 2015, the New Jersey Department of Transportation (NJ DOT) Bureau of Drainage Engineering & Operations was faced with an urgent situation. A state-owned 18-in. corrugated metal storm drainage pipe crossing under a main intersection in the city of Millville, N.J., had failed, and a major sinkhole had opened up.

The repair was originally set as an open excavation replacement of the entire 18-in. storm pipe segment, which spanned all four lanes of traffic on one side of the intersection and one lane on another, but this would require closing up to five lanes of major commuter traffic over two rush hours.

Alphaliner by Reline America can line 6- to 54-in.-diameter pipe with a minimal environmental footprint, offering flexural modulus strengths higher than the host pipe: 1,378,000 to 1,740,000 psi. The cure operations and monitoring technology is performed utilizing Reline America's Quality-Tracker System. This computerized system fully controls, monitors and records parameters like air pressure, curing speed, video inspection, and ambient and liner wall temperature in real time for every foot of the segment cure.

NJ DOT had not previously used ultraviolet cured-in-place pipe (UV CIPP) lining to perform highway drainage pipe and

culvert repairs, but upon learning the attributes of Alphaliner and the Quality-Tracker System, it requested a task order authorizing Abel Recon to perform the safety project.

Reline America expedited the Alphaliner order. Abel Recon mobilized a crew within one week and performed the complete UV CIPP rehab with only two lanes of traffic impeded during a single non-rush hour time period between 9:30 a.m. and 2:30 p.m. Abel Recon has since secured several NJ DOT storm water drainage structure rehabilitation projects.



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