



Instant Roadway Rescue with AP Lift 475

A South Georgia roadway developed a sinkhole over a double 48-inch RCP storm line about 10 feet deep, threatening lane safety and mobility. Replacement costs were prohibitive and would require extended closure and excavation.

Initial Assessment

The pipe exhibited joint leakage and surrounding soil loss, creating voids under pavement and shoulder with settlement risk across the travel path. Traditional open-cut replacement would demand deep shoring, traffic detours, and high restoration costs, making trenchless stabilization preferable.



Proposed Solution

The contractor selected AP Lift 475 for hydrophobic chemistry, industrial strength, and rapid set to encapsulate pipe exteriors, seal soil paths, and rebuild bearing capacity with minimal downtime.

Procedures

1. Lay out three rows on 3-foot centers around both barrels.
2. Inject at 6 lb per vertical foot to refusal for soil reconsolidation.
3. Pull the injection tubing vertically while injecting to form grout columns.
4. Encapsulate/seal pipe perimeter and monitor lift response.
5. Verify surface support and closure readiness.

Results

- Completed in one day with 1,400 lbs placed; roadway lifted and voids eliminated.
- Zero excavation and minimal traffic disruption during work.
- Approximately 95% cost savings compared to pipe replacement.

About Alchatek

Alchatek is an international leader in the manufacture and supply of chemical grouts and construction products for Geotechnical, Leak Seal, and Seawall Repair applications. Providing solutions from its headquarters in Tucker, Georgia and its manufacturing facility in Reno, Nevada, Alchatek specializes in advanced construction technologies for sealing leaks, stabilizing soils, lifting concrete, and protecting infrastructure and seawall structures. To best serve its customers, Alchatek is organized onto three divisions:

The Leak Seal Division combines a full system offering of polymer chemical grouts and equipment with perhaps the most experienced technical team in the industry. It specializes in preventing water ingress through concrete infrastructure including parking garages, culverts, basements and foundations, and sewer manholes.

The Geotechnical Division offers a complete line of single component products for soil stabilization as well as two component polyurethane foams for concrete lifting, void filling, and stabilization of infrastructure. This includes lifting sunken structures such as warehouse floors, back into place.

Seawall Repair Network® is the only national network of certified contractors in the repair, preservation, and protection of Seawalls waterfront barriers. Its proprietary methods and materials are environmentally friendly and safe for use in all marine environments and provide a non-destructive solution for seawall repair at 80% less than the cost of replacement.

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