



Shotcrete

A high velocity concrete placement method that allows for strong adhesion.

Hollow Bar Anchors

A minimally invasive stabilization method which drills and grouts steel bars into the ground as a continuous reinforcement system.



Problems These Tools Solve

FAILING STRUCTURES

Including foundations, slabs, walls, bridges, roads, dams, and more

UNSTABLE GRADES

Due to unsupported excavation, water erosion, or high embankments

LIMITED ACCESS

Making material delivery, placement, and consolidation difficult

CHALLENGING FORMWORK

One sided applications, complex curves, and overhead placements

Case Studies Takeaways

TIME



Built over 100 years ago, this failing retaining wall could not be conventionally removed and replaced due to evolving site constraints, including a rail line built directly behind it. Using shotcrete and hollow bar anchors, our team delivered an in-place stabilization solution tailored to the modern site conditions.

Bypassing water had deteriorated this culvert and undermined its soil support. Shotcrete was applied to mid-height to repair the damage and prevent further deterioration without requiring closures on the busy roadway above.



WATER

ACI CODES



Freeze-thaw damage and a failing drainage layer had compromised this wall's stability. Despite severe winter weather constraints, our team stabilized the structure with shotcrete and hollow bar anchors, closely following ACI cold weather concreting requirements to complete the work safely and efficiently.

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