



# Case History

## Problem:

The bridge on Route 32 spanning the West Fork Huzzah Creek in Dent County. One of the requirements for the project is to temporarily support the roadway while excavations are performed.

## Solution:

Helitech® designed and constructed an Earth Retention Wall System comprising of A. B. Chance soil screws, steel wire fabric, Hydraway® 2000 drain system, and a 4"-6" thick shotcrete facing. The excavations for the A. B. Chance soil screws were cut in 6' increments, requiring two separate phases. Helitech installed the A. B. Chance soil screws in 6' spacing on the embankment, both vertical and horizontally. The functionality of the soil screws was to reinforce the soil mass just as re-bar reinforces concrete. The shotcrete facing and steel wire fabric was installed to prevent the soil from sloughing.

## Resolution:

The Shotcrete Earth Retention Wall System offered the general contractor an efficient and cost-effective solution compared to other alternatives.

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