

## Project: **Stoddard County Jail Addition and Remodel**

207 East Prairie Street. Bloomfield, Mo. 63825

**Architect: HMN Architects Inc.**

7400 West 110th Street, Ste. 200. Overland Park, KS. 66210

**Structural Engineer: Bob D Campbell and Company Inc.**

4338 Belleview Ave. Kansas City, Mo. 64111

**General Contractor: Brown Construction**

14603 US Highway 60. West Dexter, Mo. 63841

**Deep Foundation Contractor: Quality Waterproofing and Foundation Repair**

200 S. Elam, Ste. 200. Valley Park, Mo. 63088

The Stoddard County Jail project was published for bid in October 2019. The addition to the existing jail was to have a finished floor elevation approximately 15' below the existing finished floor and a soil retention system was required.

The engineer design called for (10) 100 kip ultimate capacity micropiles on the existing column footings and the new wall was to bear on 30" diameter soldier piles to retain the soil. After the soldier piles were excavated a layer of shotcrete was to be applied to the soldier piles to provide a plumb surface to form a new wall against.

Quality Waterproofing provided a proposal for the micropiles and shotcrete and was the successful bidder.

In March 2020 the first phase took place to install the micropiles, two on each column to an ultimate capacity of 100 kips. Once the contractor excavated to the top of the existing footing. Quality Waterproofing installed the Empire Piers 3.5" diameter push pier dual cylinder system. The micropiles were driven to an average depth of 80' to achieve the required capacity.

The general contractor then installed the 30" diameter soldier piles. After the soldier piles were installed the excavation down to the finished floor elevation was completed.

In April 2020 Quality Waterproofing then installed approximately 30 yards of shotcrete in between the soldier piles and then a 3" layer across the face of the soldier piles to give a plumb surface for the new on sided wall being built against the soldier piles.

