



"Providing sound solutions is the foundation of our business"

## Micropiles

Micropiles are a small diameter (less than 300mm) replacement, drilled pile, composed of placed or injected grout, and some form of steel reinforcement to resist a high proportion (or all) of the design load. Typically, high capacity steel elements installed with high grout/ground bond values transfer the loads by friction, and do not rely upon end-bearing loads.

Micropiles are applicable in areas that require deep foundation alternatives or in difficult ground conditions (cobbles, boulders, and obstructions) where installations of conventional piles or drilled shafts are very difficult or expensive.

### Benefits / Advantages:

- Close proximity to existing structures
- Design and guidelines available
- Earth retention
- Environmentally friendly
- Hazardous or contaminated soil installations
- High loads and tensions (tested to over 1,000kips axial)
- Installed in limited access or low head room
- Installed single or in groups
- Minimal disturbance and spoils
- No or low vibration
- Seismic retrofitting
- Slope stabilization
- Time saving
- Transfer loads to deeper strata
- Used in high water areas
- Well suited for difficult ground conditions
- Withstand axial and/or lateral loads



Installing micropiles inside Walker Field Airport terminal for new stairwell foundation. -- Grand Junction, CO.



Installing micropiles on Target Store expansion - Grand Junction, CO

## MCSI range of services

- Structural & Architectural Concrete Repair
- Soil Nailing
- Concrete Cleaning
- Compaction Grouting
- Foundation Underpinning
- Micropiles
- Shotcrete
- Chemical Grouting
- Tieback Anchors
- Epoxy Injection
- Epoxy Flooring
- Slab-Jacking/Void Filling
- Gypsum Underlayment
- Erosion Control
- Patterned & Stained Concrete



**1-888-724-0692**

970-245-0834 Fax 970- 254-8957  
Corp. Offices and Service Center  
2399 Riverside Parkway  
Grand Junction CO 81505

Mailing:  
P.O. Box 4229  
Grand Junction, CO 81502  
[www.mays-mcsi.com](http://www.mays-mcsi.com)  
Email: [info@mays-mcsi.com](mailto:info@mays-mcsi.com)

Mays Construction Specialties, Inc. has been instrumental in bringing this new technology into the Rocky Mountain Region where ground and other conditions are very diverse and limited access exists. MCSI works closely with engineers to provide designs and specifications, keeping value and safety in mind for each client's needs.