

Research restoration of road structures and seismic strengthening (Part 2)

[Point]

Aiming establishment of seismic strengthening method using micro piles for existing bridge foundation, we researched bearing power characteristics, stiffening effect and mechanism, and effective construction management method, using tests and others.

As a result, we verified that bearing power characteristics of micro piles, such as excellent skin friction resistance around the grouts, possibility of pile foundations stiffening by micro piles, and higher efficiency of batter piles. In addition we verified the possibility of applicability to integrity test as a construction management method.

Keyword : micro pile, seismic strengthening, pile foundation, integrity test, centrifuge test