

Development of liquefaction measure technology for ground just below of existing structures. (Part1)

[Point]

In case of seismic strengthening of existing structures and liquefaction measure, the construction condition will be sever, for instance, adjacent structure problem in city areas, and bridge girder restriction for bridge foundation. For this reason, developments of seismic strengthening methods, which can use in sever conditioned constructions and also economical is required. In this research, to develop applicable seismic strengthening technology, and liquefaction measure technology in such condition, we performed model test and construction test. As a result, we developed 5 economical seismic strengthening technologies and liquefaction measure technologies, which have excellent construction characteristics under sever conditions.

Keyword : seismic strengthening, liquefaction measure, overhead restriction, micro pile, pile group effect