

Research about verification technique of earthquake resistance capacity (2)

[Point]

Design standard of a structure has been strongly required of transition to performance checking type in recent years. Design method of highway bridge foundation that was suitable to performance checking type standard was researched in this study. First of all, earthquake resistance capacity required for bridge foundation was clarified. Next, procedure was suggested in which ground resistance for using in a design was assessed from the ground research result, so that foundation with constant reliability would be designed. Furthermore, a technique for conducting code calibration of partial safety factor that was used for the design of pile foundation was studied, and the issues with the existing methods were revealed.

Keywords: foundation, partial safety factor design method, ground parameter, reliability, new technique