Estimation of Skin Friction on Bored and Cast In-situ Concrete Piles in Sand

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Abstract

Bored and cast in-situ piles in Sri Lanka are design as end bearing piles and the skin friction contribution is generally neglected. Results of the high strain dynamic load tests are presented to show that a significant skin friction capacity is developed on bored and cast in-situ piles. The distribution of the skin friction along the pile shaft, obtained from high strain dynamic testing of piles, is used to investigate the accuracy of the commonly used skin friction capacity estimation methods.