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PILED- RAFT FOUNDATION FOR HIGH RISE INDUSTRIAL STRUCTURE K.Bhaskarreddy1, Dr.c.sashidhar2, B.Sreenivas3

PILED- RAFT FOUNDATION FOR HIGH RISE INDUSTRIAL STRUCTURE

Abstract. A piled raft foundation comprises both piles and a pile cap that itself transmits load directly to the ground. The aim of such a foundation is to reduce the number of piles compared with a more conventional piled foundation where the bearing effect of the pile cap, or raft, is ignored. This paper describes a 'hybrid' approach for the analysis of piled raft foundations, based on a load transfer treatment of individual piles, together with elastic interaction between different ...

An approximate analysis procedure for piled raft foundations

Abstract. Load sharing of piled raft foundations is known as an economical design for deep foundations. Nevertheless, research in this area has been lagging because of the complexity of the problem and lack of field data. Numerical modeling can be used to provide valuable data with a high level of success. A three-dimensional finite-element model of a piled raft foundation was developed to simulate the case of a piled raft foundation.

3D Numerical Model for Piled Raft Foundation ...

The combined pile-raft foundation (CPRF) has been widely recognized as economic and rational foundation for high-rise buildings when subjected to vertical loading because of its effectiveness in load sharing by both raft and pile components. This results in smaller total and differential settlements with a reduced number of piles as compared with group piles.

Effect of Earthquake on Combined Pile-Raft Foundation ...

Pile raft foundation behavior is evaluated with many researches and the effect of pile length; pile distance, pile arrangement and cap thickness are determined under vertical or horizontal static and dynamic loading. In the present paper the influence of pile length configurations on behavior of multi-storied are evaluated under vertical loading.

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International Journal for Numerical The piled-raft foundation systems have started to be a very popular design method that is commonly used for especially high-rise buildings. In this ...

(PDF) ISSMGE Combined Pile-Raft Foundation Guideline

Singh, N. T. and Singh, B., (2013), Load sharing characteristics of piled raft foundation in clay soil, International Journal of Innovative Research in Science, Engineering and Technology, Volume ...

(PDF) Redistribution of Load between Soil and Piles ...

Pile is cylindrical strong material made up of concrete and steel which transfer the load coming from superstructure directly to hard strata which is located definite level below the ground surface Pile raft foundation is design in such a manner that ultimate loading of structure is taken by raft foundation; as the ultimate loading is taken by raft the differential settlement in the raft increases the permissible value to reduce the differential settlement pile are embedded in raft foundation.

Analysis of Raft & Pile Raft Foundation ... - IJERT Journal

Uba Uge, B. and Guo, Y. (2020) Deep Foundation Pit Excavations Adjacent to Disconnected Piled Rafts: A Review on Risk Control Practice. Open Journal of Civil Engineering, 10, 270-300. doi: 10.4236/ojce.2020.103023.

Deep Foundation Pit Excavations Adjacent to Disconnected ...

An Approximate Analysis Procedure for Piled Raft Foundations, International Journal for Numerical and Analytical Methods in Geomechanics, 17 (12), pp. 849-869, 1993. Basile, F., Non-linear Analysis of Pile Groups, Proceedings of the Institution of Civil Engineers-Geotechnical Engineering, 137 (2), pp. 105, 1999. Kitiyodom, P. & Matsumoto, T.,

An Evaluation of Pile-Raft Interaction in ... - ITB Journal

Small J. C., Zhang H. H., (2002), "Behavior of Piled Raft Foundations Under Lateral and Vertical Loading", The International Journal of Geomechanics, Vol. 2, 29 - 45. Yue Mao-guang., Wang Ya-yong., (2008), "Soil-Structure Interaction of High-rise Building Resting on Soft Soil", Electronic Journal of Geotechnical Engineering.

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Deep Foundations Institute (DFI) - Publications

The piled raft foundations are designed to support the structure against static and dynamic loads to satisfy the requirements for bearing capacity and maximum settlement. The raft is 78 m long, 53 m wide, and 1.8 m thick and made of reinforced concrete.

Influence of Variable Rigidity Design of Piled Raft ...

Piled raft foundations (PRFs) have been widely adopted in the design of high-rise buildings and important buildings in recent years due to their efficiency in controlling the total settlement and differential settlement and their high bearing capacity.

Optimization Method for Irregular Piled Raft Foundation on ...

Combine Piled Raft Foundation(CPRF) is an emerging type of new foundation techniques in High rise buildings and skyscraper which raft as a shallow foundation and pile as deep foundation works sharing the total load and reduce settlement and bending moment. the modern approach of design philosophy is included in post graduation level with soil structure interaction of CPRF and this will use to understand the basic concept regarding it.

Combine piled raft foundation (cprf)_Er.Karan Chauhan

Clancy, P and Randolph, M.F. (1993). An Approximate Analysis procedure for Piled Raft Foundations. International Journal for Numerical and Analytical Methods in Geomechanics, Vol. 17, pp. 849-869. Conte, G., Mandolini, A., Randolph, M.F. (2003). Centrifuge Modelling to Investigate the Performance of Piled Rafts.

A Study on Piled Raft Foundation: State of Art - IJERT

DFI Announces Winner of 2013 Student Paper Competition : September 6, 2013, Hawthorne N.J.: Hessam Yazdani, Ph.D., candidate in geotechnical engineering at the University of Oklahoma is the winner of the DFI Educational Trust 2013 Student Paper Competition. His winning paper is titled, "Optimization of Piled-Raft Foundations Considering Soil-Pile Raft Interaction."

Deep Foundations Institute (DFI) - News

"An experimental investigation on behavior of piled raft foundation", International Journal of Geomatics and Geosciences, 5(2), 300. Phoon, K.K. and Kulhawy, F.H. (1999). "Characterization of geotechnical variability", Canadian Geotechnical Journal , 36(4), 612-624.

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