CALCULATION OF STUDY SUPPORTS SINGLE PILE ANALYSIS USING SOME METHOD

ABSTRACT

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In any development needed most basic foundation building a strong and sturdy. This is due to the foundation as a basis for building and other expenses continue to kelapisan ground. This final outlines of the foundation, in the form of a pile foundation. In this final project will be discussed on the carrying capacity of the pile static load design. Carrying capacity is discussed static axial bearing capacity for single pole condition. In this study will be sought axial bearing capacity single pile foundation with the theoretical analysis (using methods Sondir and N-SPT), an analysis using a dynamic formula, such as: Hiley formula, ENR, DANISH, WIKA and test results PDA using CAP program WAP and based on static loading test data (static loading test).

If the comparison of the carrying capacity of the license (Qall) between the static analysis results and analysis of the acquired resistance carrying permit (Qall) the approximate value of the carrying capacity of the license (Qall) loading test. So the foundation bearing capacity can be approached with Pall - average of various theoretical methods yield formula is multiplied by the value of kp. From the analysis, and then to compare the results obtained carrying capacity of the methods used. Comparison of the carrying capacity study performed on four different project sites.

By comparison it can be concluded that the formulas of some of the results of calculations by using the pole capacity formula - dynamic formulas, Hiley formula is the most reliable
because these formulas take into account the area (As), pole length (L) and compression elasticity pole.

It is also influenced by the value of the final set pole erection in the field. Overall comparison of all of the methods used, the result of different carrying capacity, but still within reasonable tolerances.

*Keywords: carrying capacity of a single pile, static loading tests, dynamic formula, PDA test.*