

UNIVERSITAS INTERNASIONAL BATAM

Civil Engineering Study Program
Odd Semester 2018/2019

COMPARATIVE STUDY OF PUBLIC SUPPORT BASED ON PILE DRIVING ANALYZER AND THEORY OF APARTMENTS PROJECTS FOR BATAM AREA

NPM : 1511051
RYOUNG ANANDA PUTRA

ABSTRACT

Pile Driving Analyzer (PDA) is a method used for foundation testing. In general, PDA tests are often used to test deep foundation, including Pile Foundation and Bored Pile Foundation. From the calculation of the carrying capacity of the land can be seen the comparison of data carried out as well as the most ideal method for calculating the carrying capacity of the soil. In the calculations performed using two methods namely the terzaghi and mayerhof methods.

This Thesis will discuss the calculation of the carrying capacity of the land using several methods. In this calculation the method to be used is the Terzaghi method and the Mayerhof method. In this report will also use a comparison of the results found from the calculation of the two methods. Comparisons are made with data on the results of foundation testing in the field (PDA test data)

From the results of calculations that have been carried out obtained for the type of soil in the APL project, Ciputra and TOP100 Penuin has a carrying capacity that varies in each method used.

Keywords : PDA Test, Foundation, Bored Pile, Carrying capacity of the soil