ABSTRACT

Tamir Abdul Haris, 15317878
Construction Project of Metro Starter Depok
Bored Pile Foundation Implementation Method and Calculation of Bored Pile
Foundation Reinforcement Requirement at Point F 316 - F 323 as PJ.5 - TC. 8.
Department of Civil Engineering. Faculty of Civil Engineering and Planing.
Gunadarma University

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The Depok Metro Starter Project in Depok, West Java by the owner of the Depok City Government QQ PT. Andyka Investa aims as The Real Transit Oriented Development (TOD). The type of contract used is the lump sum fix price with a value of Rp. 93,263,185,600. The strategic location integrated with the Depok Baru KRL station and Depok terminal is an advantage of the Depok Metro Stater project, the TOD system is one of the strategic steps to support the City Government to reduce traffic congestion, thus residents of locations that have a TOD system can stay active, work, shop in one area. This project uses a bored pile foundation with the casing method. The implementation of bored pile foundation work carried out in the field includes making reinforcement, determining the foundation point, initial drilling, installing temporary casing, further drilling, mud circulation, installing reinforcing iron, installing iron hanger, installing tremie pipe, casting, lifting temporary casing, and finishing. . There are three methods of implementing the bored pile, namely the casing method, the wet method and the dry method. The construction of the Depok Metro Stater project uses the casing method. The calculations carried out include the calculation of the need for bored pile foundation reinforcement and the results obtained are 8,670,240 kg of the weight of the main reinforcement while the weight of the shear reinforcement is 5,540,340 kg for the bored pile foundation at point F 316 - F 323 as PJ.5 - TC.8.

Keywords: TOD, Bored Pile, Foundation, Temporary Casing, Reinforcement Requirements