

ABSTRACT

Atikah Kartika. 16317798

Project for Construction of Building 1, Campus F8, Faculty of Medicine, Gunadarma University Special Problems Implementation Methods of Column Work.

Department of Civil Engineering. Faculty of civil engineering and planning.

(xii + 46 + Attachments)

Construction Project of Building 1, Campus F8, Faculty of Medicine, Gunadarma University is located at Jl. Comp. RTM, Tugu, Cimanggis, Depok City, West Java. The project was built with the aim of improving adequate facilities and infrastructure to support lecture activities. Building 1, Campus F8, Faculty of Medicine, Gunadarma University consists of 11 floors with 9 floors of lecture buildings, 1 mezzanine floor and 1 rooftop floor. Building 1 stands on a land area of 14,000 m² with a building area of 7,090,557 m². The special problem taken is the method of implementing column work. The method of implementing column work starts with marking the column axles, fabricating column reinforcement and column formwork, installing column reinforcement, installing column shoes, installing concrete decking, cleaning the column area, installing column formwork, checking column verticality, casting of the column, removing column formwork, and curing. Problems that often occur during the implementation of column work are the position of the reinforcement which is not firmly tied, the distance between the bars is too far, the position of the reinforcement is slanted, and the concrete is porous.

Keywords: Column, Implementation Method, Column Problem