

## EXECUTIVE SUMMARY

### CALCULATION OF COLUMN STRUCTURE IN MITRA JUNCTION RUKO DEVELOPMENT PROJECTS

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*Practical Work Implementation is a mandatory requirement for students at Batam International University, especially in the Department of Civil Engineering and Planning. This activity aims to make students able to better understand the relationship between theories that have been obtained with the real conditions on the project.*

*This activity was carried out for 3 months from 6 November 2017 to 6 February 2018. Data collection methods were carried out descriptively, quantitatively and qualitatively both directly and indirectly in accordance with applicable regulations in Indonesia.*

*The results of the Column Structure Calculation Analysis found that the Mitra Junction Shophouse Construction Project has met the applicable requirements in Indonesia. The size of the column used is 300 mm x 500 mm with the number of reinforcement 12 used a diameter of 16 mm and used the quality of concrete K-250 is able to withstand moments of 248 kNm with a load of 2107.60 kN.*

*Keywords: calculation, structure, column*