DESIGN OF RIGID PAVEMENT ON TOLL ROADS
MOJOKERTO – KERTOSONO
STA 15+100 – STA 20+100 JOMBANG DISTRICT
EAST JAVA PROVINCE

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ABSTRACT
Mojokerto – Kertosono toll road is an alternative way which the function is very important as a connecting road between Mojokerto until Kertosono which is a main path for the transportation vehicle, industrial, or personal vehicle, then the capacity and the service of road need to be improved. In this final project Design Of Rigid Pavement At Toll Road mojokerto - kertosonosta STA. 15+100 – STA. 20+100 Jombang District east java province is planned along 5 km.


Analysis result of road capacity in accordance with 20-year design period (2032) obtained the value of DS – 0.749 with 21 m wide road. Construction analysis use continuously reinforced concrete pavement with 29,5 cm thick plate using
concrete tie on bone Ø13 – 400 mm for longitudinal direction and Ø13 – 250 mm for transverse direction. For the planned channel dimensions using a trapezium with masonry materials with a finishing time obtained by the following dimensions b = 43 cm, d = 52 cm, w = 51 cm. Needed funds to construct this project is Rp. 117,939,297,000.00 (Spelled Out Members One Hundred Seventeen Billion Nine Hundred Thirty-Nine Million Two Hundred Ninety-Seven Thousand Rupiah).

From the planning result of road above expected could overcome and serve heavy traffic load according to design period which have been planned.

*Keyword : Rigid Pavement Thickness, Reinforcement, dimension of channel, RAB*