

**DESIGN OF OF THICKNESS BY COMPARING THE
MANUAL PAVEMENT DESIGN METHODS
SEPTEMBER 2017 REVISION AND Pt T-01-2002-B
(Case Study : Penebal– Ulu Pulau Road Section
STA 00+000 – 02+600)**

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ABSTRACT

The Penebal - Ulu Pulau road section, Bengkalis - Bantan District, Bengkalis Regency is a road that is used by people to carry out their daily activities to support sectors in the part of education, economy, social and culture. This road is also a connecting road between Bengkalis - Bantan District, which is currently experiencing damage. Thus causing disruption of community activities in carrying out daily activities.

Therefore it is necessary to plan the thickness of the flexible pavement layer on the Penebal - Ulu Pulau road section, Bengkalis - Bantan District, Bengkalis Regency in order to smoothen traffic flow, using Average Daily Traffic (ADT) and Soil Bearing Capacity (SBC) data. This planning uses flexible pavement with the Manual Pavement Design Methods September 2017 Revision and Pt T-01-2002-B. On the other hand, it is necessary to compare the budget plans for the two methods.

From the results of flexible pavement planning based on ADT and SBC data, the September 2017 Revised Road Pavement Design Manual method has a total thickness of 500 mm at a cost of Rp. 15,675,970,000.00 and the Pt T-01-2002-B method has a total thickness of 800 mm at a cost of Rp 23,064,830,000.00.

Keywords : Flexible Pavement, Maual Pavement Design Methods September 2017 Revision, Pt T-01-2002-B, Pavement Thickness, Budget Plan.