ABSTRACT

Comparison of Road Damage Treatment with Pavement Condition Index (PCI) Method and Bina Marga Method (Case Study: Serpong Muncul – Gunung Sindur Highway)

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Serpong Muncul – Gunung Sindur Highway is a provincial road according to its status, a secondary collector road according to its function, and a class IIIA road according to its axle load. The road was damaged bout two years ago but not handled. This study aims to determine the level of damage with the Pavement Condition Index (PCI) and the Bina Marga methods and compare the handling between these two methods. In this study, the treatment used is routine maintenance referring to the perbaikan standar method of Bina Marga 2011. periodic maintenance with overlay using the ASSHTO 1993, and reconstruction. The results were 11 types of damage including holes, cracks (joint reflection, longitudinal, transverse, edge), depression, bum and sags, patching, raveling, polished aggregate, and bleeding. To compare, in routine maintenance of repair code P3-P6 with the PCI there are no segments 16 and 18 while with the Bina Marga found both segments, in periodic maintenance in the form of an 4 cm overlay with the PCI found 16 and 18 segments while the Bina Marga does not have both but there is segment 17, and reconstruction with the PCI has segment 17, while with the Bina Marga there is no segment.

Keywords: Road Damage, Road Damage Management, Pavement Condition Index (PCI) Method, Bina Marga Method.

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