

ABSTRACT

Ahmad Rifan Hidayat. 2021. **ANALISIS KINERJA PERSIMPANGAN JALAN BERSINYAL PADA PEREMPATAN ASIA GARUT**. Jurusan Teknik Sipil Fakultas Teknik Universitas Siliwangi.

The intersection is the meeting point of several different road sections and the occurrence of vehicle encounters resulting in traffic conflicts. Traffic conflicts with high volumes can result in high delays at intersections that have a capacity that is not proportional to the high volume. The picture above is one of the problems that occur at the Asia Garut intersection, the condition of the road which is a commercial area causes high volume movements at the intersection. The purpose of this study is to evaluate the performance of existing intersections and analyze appropriate alternative solutions to the problem by referring to the 2014 Indonesian Road Capacity Guidelines (PKJI). with a volume (DS) of each arm of 1.24 for the North arm, 1.16 for the South Left arm, 0.93 for the South Right arm, the average delay of 40.6 sec/pcu with the service level E (bad).

Keywords: Performance, Signalized Intersection, Delay, PKJI 2014