

## **ABSTRACT**

### **ANALYSIS OF OVERCOMING CONFLICT AT NO SIGNAL JUNCTION (CASE STUDY: PERSIMPANGAN JALAN MENTENG RAYA – CIKINI BINTARO)**

Putri Ajeng Kurniya<sup>1)</sup>, Fredy Jhon Philip Sitorus<sup>2)</sup>, Pratika Riris Putrianti<sup>2)</sup>

<sup>1)</sup> Student of Civil Engineering Department, Universitas Pembangunan Jaya

<sup>2)</sup> Lecturer of Civil Engineering Department, Universitas Pembangunan Jaya

*Unsignalized intersection on JL. Menteng Raya – JL. Cikini Bintaro has a high flow of vehicles and has a fairly high level of congestion, especially during peak hours such as leaving and returning from activities. From the problems above, it is necessary to analyze and evaluate the performance of traffic management from unsignalized intersections to signalized intersections, the primary data taken from this research is the volume of vehicles and geometric conditions. Calculation of Unsignalized Intersection into Signalized Intersection using the 1997 MKJI method which was processed using the Ms. software program. Excel. The results of the analysis of the unsignalized intersection using the highest peak hour, namely Saturday afternoon with the initial calculation looking for the value of the adjustment factors according to the 1997 MKJI reference so that it will get a DS value of 1.033 and the highest delay of 20.67 sec/pcu. Then it is necessary to solve the problem by converting it to a Signalized Intersection, which is to perform the initial calculation according to the Signalized Intersection GIS Form and have obtained a DS value of 0.92 and a low delay of 15.98 sec/pcu.*

*Keywords: Unsignalized Intersection, MKJI 1997, Delay, Signalized Intersection*