ABSTRACT

ANALYSIS OF TRAFFIC CONFLICT LEVEL AT A SIGNAL JUNCTION USING TRAFFIC CONFLICT TECHNIQUE (TCT) METHOD A CASE STUDY OF BINTARO SIGNAL JUNCTION, SECTOR 3A, TANGERANG SELATAN

Kenisah Firstly Resonan Madani[1)] , Fredy Jhon Pihilip[2)] , Galih Wulandari Subagyo[2)]

1) Student of the Civil Engineering Study Program at Pembangunan Jaya University

2) Lecturer of the Civil Engineering Study Program at Pembangunan Jaya University

Transportation problems in Indonesia that still often occur are congestion and traffic accidents between road users. In overcoming conflicts that occur, the Department of Transportation anticipates accident prevention is carried out based on accident data that has occurred. Meanwhile, events that can cause conflict in traffic often go unnoticed and are not considered important. The high average speed of vehicles entering the intersection is often considered normal if it does not cause an accident. This is one example of a conflict that often goes unnoticed.

The analysis using the TCT method was carried out at the Bintaro Signal Junction, Sector 3A. The analysis was carried out by dividing the intersection area into 4 conflict points, namely T1, T2, T3 and T4. Bintaro Intersection Sector 3a has an intersection traffic area with a serious level of conflict or so-called serious conflict. The highest level of conflict is at the T2 conflict point (26.42/1000 vehicles). The Bintaro Sector 3A intersection area also has an accident percentage of 100% based on the number of seriousness levels of conflict and the amount of conflict data itself.

Keywords: Intersection conflict, signalized intersection, traffic conflict technique, South Tangerang.