

ABSTRACT

Safety Level Analysis of School Safety Zones (ZOSS): A Case Study at Rawa Buntu 03 Public Elementary School

Achmad Dzaki Anshori¹⁾, Galih Wulandari Subagy²⁾

¹⁾ Student of Civil Engineering Department, Universitas Pembangunan Jaya

²⁾ Lecturer of Civil Engineering Department, Universitas Pembangunan Jaya

The School Safety Zone is a traffic engineering management measure applied in designated areas to reduce vehicle speed around schools. Its purpose is to protect elementary school students who may lack caution when crossing the road. This study aims to evaluate vehicle speeds within the School Safety Zone (ZoSS) using the 85th percentile speed method, to analyze pedestrian crossing behavior under existing traffic conditions within the ZoSS at SDN Rawa Buntu 03, and to assess the compliance of ZoSS facilities with the standards set by the Directorate General of Land Transportation Regulations (2018). The research results indicate that 85% of vehicles passing through the ZoSS area at SDN Rawa Buntu 03 can be considered safe, as they travel at speeds below 30 km/h. In terms of pedestrian crossing characteristics, the highest Zhit value obtained was 2.558, while the lowest was 1.850. Based on a survey of signage and road marking completeness, it was found that only 50% of required traffic signs and 42.86% of required road markings are available, according to the standards established by the Directorate General of Land Transportation in 2018.

Keywords: *Safety Level, School Safety Zone, Primary School.*