

ABSTRAK

AUDIT KESELAMATAN JALAN PADA RUAS JALAN REDEN IMBA KUSMA RATU KM 2 DI KOTA BANDAR LAMPUNG

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Penelitian ini bertujuan untuk menganalisis kondisi geometrik jalan dan mengidentifikasi daerah rawan kecelakaan pada ruas Jalan Raden Imba Kusuma Ratu KM 2 Kota Bandar Lampung. Penelitian menggunakan metode audit keselamatan jalan (*road safety audit*) melalui analisis *alinyemen horizontal* dan *vertikal* dengan bantuan *Google Earth*, *Mapper*, dan *Autodesk Civil 3D*. Data penelitian diperoleh dari observasi kondisi jalan serta data kecelakaan dari media daring. Analisis dilakukan dengan membandingkan kondisi geometrik eksisting terhadap standar SKBI T-10-2000-A dan IRC:86-2018.

Hasil penelitian menunjukkan bahwa beberapa segmen jalan memiliki radius tikungan kecil, sudut defleksi besar, dan kelandaian curam yang melebihi standar keselamatan jalan. Seluruh tikungan menggunakan tipe *Full Circle* tanpa lengkung peralihan sehingga meningkatkan risiko kendaraan kehilangan kendali, terutama saat kondisi jalan licin. Selain itu, minimnya perlengkapan keselamatan jalan seperti rambu, *guardrail*, *delineator*, dan penerangan jalan umum turut meningkatkan potensi kecelakaan. Berdasarkan hasil analisis, ruas Jalan Raden Imba Kusuma Ratu KM 2 dikategorikan sebagai daerah rawan kecelakaan.

Penelitian ini merekomendasikan pemasangan perlengkapan keselamatan jalan dan pembatasan kecepatan guna meningkatkan keselamatan lalu lintas serta mengurangi risiko kecelakaan.

Kata Kunci: Audit Keselamatan Jalan, Daerah Rawan Kecelakaan, Geometrik Jalan, Civil 3D.

ABSTRACT

ROAD SAFETY AUDIT ON THE KM 2 SECTION OF RADEN IMBA KUSUMA RATU ROAD IN BANDAR LAMPUNG

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This study aims to analyze road geometric conditions and identify accident-prone areas on the KM 2 section of Raden Imba Kusuma Ratu Road in Bandar Lampung City. The study employed a road safety audit method through horizontal and vertical alignment analysis using Google Earth, Mapper, and Autodesk Civil 3D. The research data were obtained from road condition observations and traffic accident data from online media sources. The analysis was conducted by comparing the existing geometric conditions with the standards of SKBI T-10-2000-A and IRC:86-2018.

The results showed that several road segments have small curve radii, large deflection angles, and steep gradients exceeding road safety standards. All curves use the Full Circle type without transition curves, increasing the risk of vehicles losing control, especially under slippery road conditions. In addition, the lack of road safety facilities such as traffic signs, guardrails, delineators, and street lighting further increases the potential for accidents. Based on the analysis results, the KM 2 section of Raden Imba Kusuma Ratu Road is categorized as an accident-prone area.

This study recommends the installation of road safety facilities and speed restrictions to improve traffic safety and reduce accident risks.

Keywords: Road Safety Audit, Accident-Prone Area, Road Geometry, Civil 3D.