

ABSTRAK

PERANCANGAN STRUKTUR BANGUNAN GEDUNG POLSEK SAKO PALEMBANG

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Peningkatan jumlah penduduk di Kecamatan Sako Palembang mendorong perlunya pengembangan infrastruktur, termasuk pembangunan gedung Kepolisian Sektor (Polsek) yang representatif dan sesuai kebutuhan operasional. Proposal ini merancang ulang struktur bangunan gedung Polsek Sako Palembang dari dua lantai menjadi tiga lantai guna mengakomodasi kebutuhan ruang tambahan. Perancangan dilakukan dengan memperhatikan aspek keamanan, kekuatan, dan stabilitas struktur sesuai standar SNI 2847:2019 dan SNI 1727:2020. Lingkup struktur yang dirancang meliputi pelat lantai, balok, kolom, tangga, sloof, dan pondasi. Selain itu, dilakukan perencanaan manajemen proyek, meliputi pengendalian mutu, biaya, dan waktu, serta penyusunan rencana anggaran biaya (RAB) dan jadwal pelaksanaan menggunakan metode network planning dan barchart. Perancangan ini diharapkan menjadi acuan teknis dalam pembangunan gedung Polsek serta literatur bagi perencanaan struktur gedung bertingkat lainnya.

Kata kunci: perancangan struktur, gedung Polsek, SNI, manajemen proyek

ABSTRACT

STRUCTURAL DESIGN OF THE SAKO SECTOR POLICE OFFICE BUILDING IN PALEMBANG

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The growing population in the Sako Subdistrict of Palembang has driven the need for infrastructure development, including the construction of a functional and well-designed police sector office (Polsek). This proposal focuses on redesigning the structural system of the Polsek Sako building, originally planned as a two-story structure, into a three-story building to accommodate increased operational space requirements. The structural design prioritizes safety, strength, and stability in accordance with Indonesian standards (SNI 2847:2019 and SNI 1727:2020). The scope includes the design of slabs, beams, columns, stairs, tie beams (sloof), and foundations. In addition to structural planning, the project incorporates aspects of project management such as quality control, cost estimation, and scheduling, including budget planning, network planning, and barchart scheduling. This design aims to serve as a technical reference for the construction of the Polsek building and as supporting literature for other multi-story building projects.

Keywords: structural design, police office building, SNI, project management