

ABSTRAK

PERANCANGAN STRUKTUR BANGUNAN 3 LANTAI FLAT PEGAWAI KEJAKSAAN TINGGI SUMATERA SELATAN

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Perancangan Gedung Flat Pegawai Kejaksaan Tinggi Sumatera Selatan dilatarbelakangi oleh kebutuhan hunian yang layak untuk menunjang kenyamanan dan produktivitas pegawai. Bangunan direncanakan terdiri dari 3 lantai dengan total 15 unit hunian. Perencanaan struktur dilakukan berdasarkan prinsip kekuatan, kekakuan, dan stabilitas agar mampu menahan beban mati, beban hidup, serta beban lateral sesuai ketentuan Standar Nasional Indonesia (SNI). Kegiatan perencanaan meliputi analisis pembebanan, perhitungan dimensi dan penulangan elemen struktur beton bertulang seperti pelat, balok, kolom dan pondasi. Hasil perhitungan kemudian dituangkan dalam bentuk gambar teknik, Rencana Kerja dan Syarat-Syarat (RKS), serta Estimasi Biaya (RAB) sebagai pedoman pelaksanaan konstruksi. Dengan demikian, perencanaan ini diharapkan menghasilkan desain struktur yang aman, efisien, dan sesuai dengan standar teknik yang berlaku.

Kata kunci : Perancangan struktur, beton bertulang, pembebanan, SNI, RAB

ABSTRACT

DESIGN OF A THREE-STORY BUILDING FOR SOUTH SUMATRA HIGH PROSECUTOR'S OFFICE EMPLOYEES

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The design of the South Sumatra High Court Employee Apartment Building was motivated by the need for adequate housing to support employee comfort and productivity. The building is planned to consist of 3 floors with a total of 15 residential units. The structural planning is based on the principles of strength, rigidity, and stability so that it can withstand dead loads, live loads, and lateral loads in accordance with Indonesian National Standards (SNI). The planning activities include load analysis, dimension calculations, and reinforcement of reinforced concrete structural elements such as slabs, beams, columns, and foundations. The results of the calculations are then translated into technical drawings, Work Plans and Specifications (RKS), and Cost Estimates (RAB) as guidelines for construction. Thus, this planning is expected to produce a structural design that is safe, efficient, and in accordance with applicable technical standards.

Keyword: Structural design, reinforced concrete, loading, SNI, RAB