

ABSTRAK

PERANCANGAN BANGUNAN GEDUNG AMIRA *AESTHETIC CLINIC* KOTA SERANG BANTEN

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Perancangan Bangunan gedung *Aesthetic Clinic* Kota Serang Banten bertujuan untuk menyediakan fasilitas pelayanan perawatan dan kecantikan yang layak, aman, dan representatif bagi masyarakat serta mendukung peningkatan kualitas pelayanan kesehatan estetika di Kota Serang. Perancangan dilakukan dengan menghasilkan desain struktur bangunan yang kuat, stabil, ekonomis, dan sesuai dengan ketentuan Standar Nasional Indonesia (SNI). Elemen struktur yang direncanakan meliputi pelat atap (dak), pelat lantai, balok, kolom, tangga, tie beam, dan pondasi dengan menggunakan konstruksi beton bertulang. Analisis struktur dilakukan melalui perhitungan dan pemodelan struktur untuk memperoleh dimensi elemen serta kebutuhan tulangan yang mampu menahan beban yang bekerja secara aman dan efektif. Selain perancangan struktur, laporan akhir ini juga membahas aspek manajemen proyek yang meliputi penyusunan Rencana Kerja dan Syarat-Syarat (RKS), Rencana Anggaran Biaya (RAB), serta penjadwalan pelaksanaan proyek menggunakan metode Critical Path Method (CPM) yang disajikan dalam bentuk Bar Chart dan Kurva S. Hasil perancangan menunjukkan bahwa struktur bangunan yang direncanakan memenuhi persyaratan kekuatan, kekakuan, dan stabilitas sesuai standar yang berlaku. Perencanaan manajemen proyek diharapkan dapat menjadi pedoman dalam pelaksanaan pembangunan Gedung Amira Aesthetic Clinic Kota Serang Banten sehingga pekerjaan dapat dilaksanakan secara efektif, efisien, dan terukur dari segi biaya maupun waktu pelaksanaan.

Kata kunci: Perancangan struktur, beton bertulang, pemodelan struktur, *schedule*, RAB

ABSTRACT

DESIGN OF AMIRA AESTHETIC CLINIC BUILDING IN SERANG CITY, BANTEN

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The design of the Amira Aesthetic Clinic Building in Serang City, Banten, aims to provide a proper, safe, and representative facility for aesthetic treatment and beauty services while supporting the improvement of aesthetic healthcare services for the community. The project focuses on producing a structural design that is strong, stable, economical, and compliant with the applicable Indonesian National Standards (SNI). The structural elements designed include roof slabs, floor slabs, beams, columns, stairs, tie beams, and foundations using reinforced concrete construction. Structural analysis was carried out through structural calculations and modeling to determine the dimensions and reinforcement requirements capable of safely and effectively resisting the applied loads. In addition to structural design, this final project also discusses project management aspects, including the preparation of Work Plans and Specifications (RKS), Cost Budget Plans (RAB), and project scheduling using the Critical Path Method (CPM), which is presented in the form of a Bar Chart and S-Curve. The design results indicate that the planned building structure satisfies the requirements for strength, stiffness, and stability in accordance with the applicable standards. The project management plan is expected to serve as a guideline for the construction of the Amira Aesthetic Clinic Building in Serang City, Banten, ensuring that the project can be implemented effectively, efficiently, and in a measurable manner in terms of cost and construction time.

Keywords: Structural planning, reinforced concrete, structural modeling, schedule, construction cost estimation.