

PROPOSED TWO-STOREY MOTOR POOL BUILDING IN PASSI CITY, ILOILO

A Project Study

Presented to

The Faculty of the Department of Civil Engineering

Central Philippine University

Jaro, Iloilo City, Philippines

In Partial Fulfillment

of the Requirements of the Degree of

Bachelor of Science in Civil Engineering

By

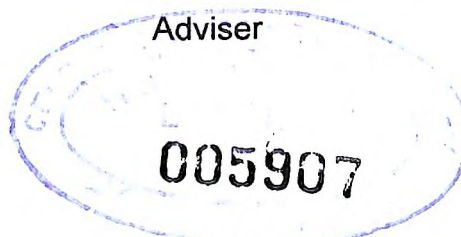
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June 2024

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ABSTRACT

The local government's pivotal role in promoting community development and infrastructure improvement has been key to Passi City's success. Through strategic initiatives and collaborative efforts, the municipality has effectively bridged gaps between various community groups and sectors, promoting inclusive growth and socioeconomic progress. Despite advancements in various areas, the city lacks a motor pool building necessary for efficient equipment management. To address this, a proposed design for a two-storey motor pool building in Passi City, Iloilo would address this need. The 630 sq.m. structure includes a conference room, offices, a storage room, and a maintenance area. The project includes architectural, structural, plumbing, and electrical plans, cost estimates and project scheduling. The building will be constructed using reinforced concrete, designed in accordance the 2015 National Structural Code of the Philippines (NSCP). Green building technologies, such as a daylighting system, energy-saving fixtures, and a sustainable roofing system, have been integrated into the design for efficiency and sustainability. The estimated cost of the project is Php 17,456,320.91 with a projected duration of 294 days. Funding will come from Department of Public Works and Highways. The study further recommends adopting green construction practices to ensure environmental sustainability.