

**STRUCTURAL DESIGN AND ANALYSIS OF A PROPOSED
FOOD AND VEGETABLE TERMINAL IN
BALINTAWAK, QUEZON CITY**

Design Project

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**STRUCTURAL DESIGN AND ANALYSIS OF A PROPOSED FOOD AND
VEGETABLE TERMINAL IN BALINTAWAK, QUEZON CITY**

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*Structural design and analysis of a
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ABSTRACT

GOPIO, ROWEN M. and PASCASIO, LOUIE CHRISTOPHER C. Structural Design and Analysis of Proposed Food and Vegetable Terminal in Balintawak, Quezon City. Bachelor of Science in Civil Engineering. Cavite State University. Indang. Cavite. April 2014. Adviser: Engr. Cene M. Bago.

The structural design and analysis of proposed food and vegetable terminal was conducted from July 2013 to February 2014 at Cavite State University.

The study addressed the need of the food and vegetable terminal to be designed structurally stable. This study involved two major parts. The first part was the structural reinforced concrete design of administration building and structural steel design of market which were inside the terminal. The second part included the lighting layout, power layout, waterline layout and sewer line layout of the administration building and market. The lot area of administration building and market building were 440 sq. m. and 2,500 sq. m. respectively.

The total estimated cost for administration building was Php. 14,912,779.20 and for market building was Php. 26,505,715.27 the total of Php. 41,418,494.56 for both structures. All specification needed was followed in the design process. Detailed analysis of the design was proven safe and economical after the manual computation of the design.

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INTRODUCTION

The primary objective of the Food and Vegetable Terminal is to supply food and vegetable to the people especially to those within or near the area of Balintawak in Quezon City. Food and Vegetable Terminal includes trading post, cold storage building, administration building, public market (wet and dry), security post as well as the public comfort rooms.

As the population grows rapidly, proper distribution of food is very necessary to maintain the good health of the people. With regards to this, the demand for designing the proposed food and vegetable terminal in Balintawak, Quezon City is considered necessary. The prime value of the project is not only to help in distributing food in the country but also in securing the safety and health of the people.