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**Y ON THE WATER DISTRIBUTION SYSTEM MANAGEMENT AT
CAVITE STATE UNIVERSITY**

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March 2000

**A STUDY ON THE WATER DISTRIBUTION SYSTEM MANAGEMENT AT
CAVITE STATE UNIVERSITY**

An Undergraduate DESIGN PROJECT
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In partial fulfillment
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Bachelor of Science in Civil Engineering



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*A Study on the water distribution on
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ABSTRACT

Javier, Wilfred Grueso, Cavite State University, Indang, Cavite, March 2000. A STUDY ON THE WATER DISTRIBUTION SYSTEM MANAGEMENT AT CAVITE STATE UNIVERSITY. Adviser Engr. Manuel Marero.

The study was conducted at the Cavite State University in Indang, Cavite from October to March 2000. Specifically, it aimed to design a system of zone or cluster of tank which will provide high water pressure to the high storey buildings in the university, and to determine the volume requirements, size of tanks, system pressure, design period, water demand, pump discharge and others.

The results of the study showed that the present water requirements of the university was supplied by a deep well driven by a 20 horse power submersible motor and gravity feed spring having a mean discharge 1.82 liters per second. The combined discharge of the two water sources was inadequate to provide the needs of the university to sustain its long time operation. So with the proper design of cistern tank, sufficient water pressure will satisfy the water demand of the university.

Detailed estimates provide the total cost for materials and cost of labor of the tank proposed.

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INTRODUCTION

Educational institutions like Cavite State University (CvSU) with growing populations and increasing water requirements often face water supply problems. Work must be planned, financed, designed, and constructed in time to meet rising water demands. The problems are particularly acute in buildings where water demand is high. Typical of such buildings are the high-storey buildings located on higher grounds of the university.

Ground resources in the campus are adequate for large – scale development. However, the groundwater has to be pumped from deep well before it can be used. The present water requirements of the university is supplied by a deep well driven by a 20 hp submersible motor and a gravity-feed spring having a mean discharge of 1.82 liters per second. The combined discharge of the two water sources is inadequate to provide the needs of the university to sustain its long-term operation.