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IMPROVEMENT AND REHABILITATION OF EXISTING IRRIGATION  
SYSTEM

DESIGN PROJECT

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# IMPROVEMENT AND REHABILITATION OF EXISTING IRRIGATION SYSTEM

An Undergraduate **DESIGN PROJECT**  
Submitted to the Faculty of  
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Indang, Cavite

In partial fulfillment  
of the requirements for the degree of  
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*Improvement and rehabilitation of existing  
irrigation system  
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## ABSTRACT

**ABUYO, JHO-ANNE T., GLORIOSO, EDWIN H., AND ROMELSON M. ROLLE**, Bachelor of Science in Civil Engineering, Cavite State University, Indang, Cavite. April 2002. **IMPROVEMENT AND REHABILITATION OF EXISTING IRRIGATION SYSTEM.**

Adviser: Eng'r. Renato B. Cubilla

The proposed Improvement and Rehabilitation of Existing Irrigation System was conducted at Cavite State University from June 2001 to February 2002. It was evaluated on March 2002 at the Accreditation Room of College of Engineering and Information Technology, Cavite State University.

The general objectives of the study were to enhance the knowledge learned in designing an irrigation system and develop a system that would improve the existing irrigation system in Cavite State University. It provided the necessary documents such as design, plans, and cost estimate. The design would serve as a reference for the decision-makers for future implementation.

Results of the study revealed that the existing irrigation system in the university were found out to be ineffective. One of the examples are the water tanks used for irrigation which became useless due to leakage and lack of water supply.

In the future, each structure to be built should be taken into considerations as well as the proposed design in order to avoid problems in supplying water from tank to the distribution area.

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# **IMPROVEMENT AND REHABILITATION OF EXISTING IRRIGATION SYSTEM<sup>1/</sup>**

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<sup>1/</sup>An undergraduate design project presented to the faculty of the Department of Civil Engineering, Cavite State University, Indang, Cavite in partial fulfillment of the requirements for graduation with the degree of Bachelor of Science in Civil Engineering (BSCE) with Contribution No. CE - 2001- 2002 - 399 - 26, prepared under the supervision of Eng'r. Renato B. Cubilla.

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## **INTRODUCTION**

Irrigation is an age-old art. Historically, civilization has followed the development of irrigation. Civilizations have risen on irrigated lands; they have also decayed and disintegrated in irrigated regions. The antiquity of irrigation is well documented throughout the written history of mankind. It was practiced by the Egyptians, the Asians, and the Native Americans.

As our nation's population increases so does our demand for food, energy, and recreation. More water is used for energy production and more water is used for recreational purposes. Increasing demands for water, limited availability, and concerns about water quality make effective use of water essential. Because irrigation is a major water user, it is very important that irrigation systems be planned, designed and operated