DESIGN OF A SEASIDE BOATHOUSE

Project Report Submitted by

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in part of satisfaction of the award of Diploma of Technician Engineer in Civil Engineering of the Higher Technical Institute, Nicosia, Cyprus.

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External Assessor	:	Mr. G. Polychronis
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Type of project : Individual

Group

JUNE, 1990.

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INSTITUTE	1585

HIGHER TECHNICAL INSTITUTE

Nicosia - Cyprus

CIVIL ENGINEERING DEPARTMENT

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Diploma Project Number: C547

Title: R.C. Design and Detailing of a Seaside Boathouse

Objectives:-

- 1. To design the reinforced concrete framework of a seaside boathouse.
- 2. To detail typical slabs, beams, columns and foundations and prepare their respective bending schedules.

Terms and conditions:-

- 1. Dimensions of the boathouse will be given by the supervisor.
- 2. Use concrete grade 25 for slabs, beams and foundations and grade 30 for columns.
- 3. Design according to BS 8110.
- 4. The soil pressure on the foundations is not to exceed 150KN/m^2 .

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Abstract

The objective and purpose of this project was the design of a seaside boathouse.

An investication of the existing boathouses in Cyprus was carried out. Architectural presentation of the building was made. Limit state design according to BS8110 was followed for the structural detailed drawings were based.

A presentation of equipment that can be used for this project is made. A presentation of information for sulphate resistance cement and for waterproofing is made.

Finally different considerations of possible improvements or other solutions to this problem are stated.

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INDEX (PART 1)

- 1. Acknowledgements
- 2. Abstract
- 3. Introduction
- 4. Design of roof slabs & balconies
- 5. Design of mid floor slabs
- 6. Design of Roof Beams
- 7. Design of Mid floor Beams
- 8. Design of Columns
- 9. Design of Ground Beams
- 10. Design of Footings
- 11. Design of Retaining Wall
- 12. Conclusions