MODIFICATIONS OF BS8110 AS COMPARED TO CP110

Project report submitted by

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in partial fulfilment of the requirements for the award of the Diploma of Technician Engineer in Civil Engineering of the Higher Technical Institute, Cyprus.

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SUMMARY

The object of this project is to compare the British standard codes of Practice 110, published in 1972, and the new 8110, published in 1985. It must be noted, however, that only the sections related to reinforced concrete of either codes have been compared. Code sections relating to the structural use of prestressed and precast concrete in buildings or other stuctures, and to that of lightweight aggregate concrete, have not been included in this study, mainly due to the limited applications and exprerience available in Cyprus building and general Civil Engineering industry.

The project has been divided into two main sections. The first section states and explains the modifications of BS8110 as compared to CP110. Each difference is identified clause by clause and commented. Where necessary the practical implications of such differences are discussed further and their effect on analysis and design or in practical engineering applications are outlined.

The second section of the project deals with actual design examples of slabs, beams and columns, in an attempt to apply the provisions and compair the results as obtained from the two codes.

Suprisingly, inspite of the numerous differences identified between CP110 and BS8110, the results obtained from the worked examples of the last section, proved that little or insignificant variations in actual output took place.

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