



**ACADEMIC YEAR 2009 – 2010**

**TITLE OF DIPLOMA THESIS:**

Comparative evaluation of retaining embankments in road construction

**AUTHOR:** Spyrou Dimitris

**ABSTRACT**

The present study deals with the comparative evaluation of three different types of retaining embankments, which are being used widely in road construction. The three different types are walls made of reinforced concrete, reinforced earth walls and reinforced embankments with investments buccal (facing). In the evaluation method, main characteristics of each type are described, the conditions for their implementation and the major advantages and disadvantages. All several constructions along the Via Egnatia are gathered in a table, which includes all the key elements, as derived from their approved studies, which allow the calculation of the cost depending on the amount of backfill height. On this basis, we come up with cost charts for each type of retaining embankment which are useful tools when we need to estimate a projects cost, during the pre design and auction stage. Finally conclusions are extracted on the most economical option type of retaining embankment relative to its height.

**KEYWORDS**

Evaluation, Retaining, Road