



### Background

Germasogeia Roundabout interchange is part of the Limassol by-pass linking it to the Limassol-Nicosia motorway to the east, and the Limassol-Paphos motorway to the west. The booming development that the city of Limassol has experienced in the recent past has led to considerable traffic congestion, particularly at the Limassol By-pass Roundabouts, which led the government of Cyprus to proceed with the upgrading of the at-grade roundabouts to grade separated roundabouts. The works included the construction of a 2 lane separated dual carriageway elevated main by-pass with related structures, earthworks and Reinforced Earth walls.

### Challenge

Odotechniki / RECo were asked to undertake the specialized design of Reinforced Earth retaining walls for the main bridge by Messrs. Messrs J&P and J&P-AVAX JOINT VENTURE – GERMASOGEIA, the project contractor for the PWD

### Solution

RECo designed the bridge retaining walls to carry the elevated main bypass over the existing Germasogeia Roundabout. The walls were constructed using selected granular fill with galvanized steel soil reinforcement. The walls were faced with precast concrete TerraClass plain cruciform panels and TerraClass architectural cruciform facing panels featuring a wave pattern.

### CASE STUDY

## Germasogeia Roundabout

### Cyprus

#### Reinforced Earth TerraClass® Retaining Walls

<b>Client:</b>	Public Works Dept.
<b>Consultant:</b>	P. Papadopoulos & Associates with DENCO (Greece)
<b>Contractor:</b>	Messrs J&P and J&P AVAX JV
<b>Construction:</b>	2008
<b>System:</b>	TerraClass®
<b>Wall Area:</b>	1272m <sup>2</sup>
<b>Max. Height</b>	5.8m
<b>Design Load:</b>	HB
<b>Design Life:</b>	120 years



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