

8th MC Meeting COST 341 / 8th IENE Meeting
Field Visit
12th April 2002
Praia da Falésia – Algarve, Portugal

Highway IC 27 (Beja – Castro Marim):

Section Monte Francisco – Odeleite (12 km)

LAY - OUT

Design speed – 80 km/h

Fenced in all its extension

Daily average traffic 1 350 vehicles / day (2000)

Minimum radius: 350 m

Maximum grade: 7 %

Cross-section profile:

Total width - 12 m

Number of carriageways: 1

Width: - 7 m (2 strips - 3,5 m each)

Right sholders – 2.5 m

Side verges – 0.6 m

GEOLOGY AND GEOTECHNIQUE

Cut and fill volumes

Excavation – $1\,408 \times 10^3 \text{ m}^3$

Embankment – $1\,033 \times 10^3 \text{ m}^3$

Slopes

Slope in cut section – 1/1 e 1/ 1.5 (V/H)

Slope in fill section - 1/1.5 e 1/3 (V/H)

ENGINEERING STRUCTURES

Due to the complex topography of the area between Monte Francisco and Odeleite Dam, this IC 27 section will include:

- 1 viaduct over Ribeira da Caroucha (length 229 m; maximum height 14 m);
- 1 viaduct over Ribeira do Beliche (length 370 m; maximum height 22 m);
- 4 overpassages
- 2 underpassages
- 34 culverts (return period – 100 years)