

Highway Tunnel

Nafaktos Tunnel

Nafaktos Ring Road

Central Greece

Project

Highway tunnel

Construction Cost

Total cost: approx. € 8 m.

Project Schedule

Design: 1999-2001

Construction: 1999-2003

Project Description

Length: 110m

Cross section: 113m²

Method of tunnel excavation

NATM – Mechanical excavation

Final Lining

Reinforced concrete C20/25

Geology

Flysch formation consisting of siltstones and marls

Max. overburden: 14m

Our Services

- Detailed geotechnical & structural design
- Design jointly elaborated by OMIKRON KAPPA CONSULTING & EDR GmbH, Munich

Construction Details

- Use of forepoles
- "Closed ring" solutions

Client

TRITON S.A.



Entrance portal



Nafaktos tunnel



Exit portal

Cut & Cover

Nafpaktos Bypass

Central Greece

Project

Cut & Cover

Construction Cost

Total cost: approx. € 5 m.

Project Schedule

Design: 2004
Construction: 2005

Project Description

Cut & Cover

Length: 140m
Cross section: Rectangular
Width: 13,30m
Vertical walls with height: 8,80m-9,50m
Crown characteristics:
Height: 1m
Thickness: 40cm
Retaining and parapet walls in the beginning and the end of the Cut & Cover for the connection of the structure with the open road works

Geology

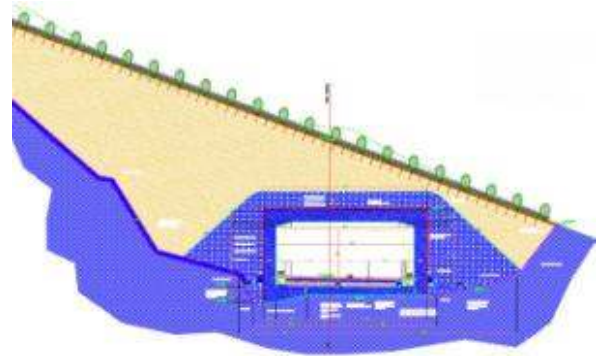
Very weak tectonically deformed siltstones,
Brecciated limestones
Groundwater

Our Services

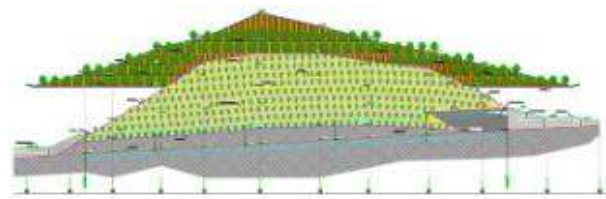
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Client

EFKLIDIS S.A.



Typical Cut & Cover cross section



Front view of the Cut & Cover