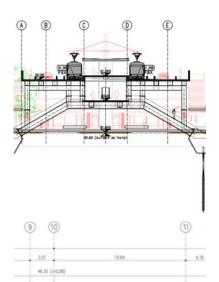




## **SÃO MAMEDE LINE**

TECHNICAL ADVISORY FOR THE ELABORATION OF THE PRELIMINARY STUDY/ REFERENCE SOLUTIONS IN THE SPECIALTIES OF LAYOUT, TUNNELS, STATIONS (EXCAVATION, STRUCTURES AND ELECTROMECHANICS), GEOLOGY-GEOTECHNICS AND SPECIAL STRUCTURES.



Client: Metro do Porto, S.A. (Oporto Metro Company) Metro do Porto, S.A. – Project Division

Location: Metro Do Porto, Portugal

Design date: 2010 - 2011

**Services:** Technical advisory for the elaboration of the Preliminary Study/ Reference Solutions in the specialties of Layout, Tunnels, Stations (excavation, structures and electromechanics), Geology-geotechnics and Special Structures.

## Summary

Alternative Study of the São Mamede Line, with a total length of 6.7 km, mostly underground. It has 10 Stations, 6 of which underground: 4 built by the Cut-and-Cover method and 2 shafts and / or galleries.

SEE ONLINE

These documents are property of NSE - Consultores de Engenharia, Lda. Its content is made available exclusively for the purpose of disclosure of the company's activity and its use is prohibited for any other purpose without the prior written consent of NSE.