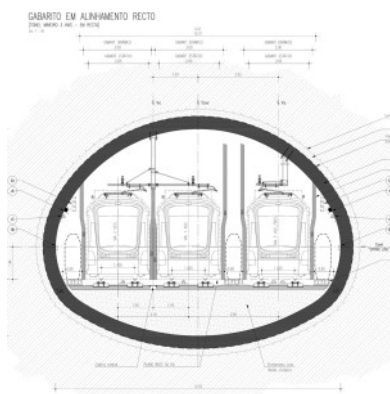
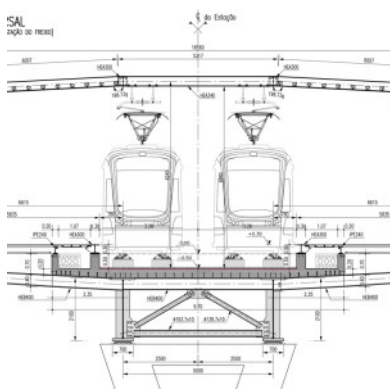




GONDOMAR II / CAMPANHÃ II – VIA VALBOM

DESIGN AND TECHNICAL DIRECTION REFERENCE STUDIES OF ALL UNDERGROUND, AT-GRADE AND SURFACE STRUCTURES: VIADUCTS, TUNNELS, STATIONS (ARCHITECTURE, EXCAVATION, RETAINING, STRUCTURES) AND URBAN INSERTION.



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

Location: Metro Do Porto, Portugal

Design date: 2009

Services: Design and Technical Direction reference studies of all underground, at-grade and surface structures: Viaducts, tunnels, stations (architecture, excavation, retaining, structures) and Urban Insertion.

Summary:

The Valbom Line (Gondomar II / Campanhã II – via Valbom) is a section of line with 6.0 km inserted in an urban area, 7 stations, 3 in cut-and-cover, one in viaduct and 8 special structures with maximum spans of 65 m.

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