

Project identification

# Extension Schiphol tunnel in A4 Motorway as a Taxi Airplane viaduct at Schiphol



Tunnel Engineering Consultants

Type of project

Airplane viaduct



Client

N.V. Airport Schiphol  
North-Holland Division, Ministry of Public Works

In co-operation with

Civil Engineering Division Ministry of Public Works  
Department of Traffic Studies  
Architect VFD Utrecht  
GD Delft Hydraulics

Project assignment

Conceptual and tender design together with site supervision

Country

The Netherlands

Location

Schiphol

Project duration

January 1989 - January 1993

Project phase

Completed January 1993

Construction cost

Civil Works € 12.252.000,=  
M&E Works € 2.269.000,=  
(excl. VAT)

Consultancy fee

€ 1.906.000,=  
(excl. VAT)

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Airplane viaduct

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Project description

Due to the high volume of air traffic at Schiphol airport, an additional taxi lane was needed to ease the flow of flights going in and out of Schiphol every day. Therefore, Schiphol Group requested Tunnel Engineering Consultants to design a taxiway viaduct to be located just south of the existing Schiphol tunnel, which can be regarded as an extension of the tunnel.

Due to the location of the new viaduct, some modifications and relocation had to be made to existing infrastructure in the vicinity, which is adjacent to the southern Schiphol tunnel and over the A4 highway. Therefore, to accommodate the new taxi lane viaduct, the energy building needed to be moved, the tunnel and traffic installations were made wider, and the existing tunnel's daylight screen and approach walls were removed. In addition, the part of the motorway between A4 north and the south tunnel were covered to create a smoother light transition for motorists going through the tunnel. Underneath the viaduct and the covered motorway section, tunnel installations were made, i.e. ventilation, lighting, traffic management systems, and safety provisions were installed. The viaduct was realized with a width of 64-m and a length of 170-m.

The overall length of the viaduct is based on future extension of the A4 and the construction of tramlines near the airport.

Scope of work

Feasibility study, conceptual design, tender design and documents, detailed engineering, contract administration and site supervision.