Marieholmstunnel, Gothenburg, Sweden

Type of project
Detailed Design of the immersed tunnel

Client
JV Marieholmstunneln (Züblin - Boskalis)

In co-operation with
Arup, Centerlöf & Holmberg

Project assignment
Detailed Design of the immersed tunnel part of the crossing (permanent civil works)

Country
Sweden

Location
Gothenburg

Project duration
2014 - 2016

Project phase
Detailed Design

Construction cost
SEK 2.0 billion
(excl. VAT)

Consultancy fee
EUR 1,150,000
(excl. VAT)
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Project description
The Marieholm Tunnel in Gothenburg is a road tunnel with three lanes per direction and a central gallery. The tunnel consists of an immersed tunnel section with cut & cover tunnel and open ramp sections at both ends. The immersed tunnel section crosses the Göta Alv river, measures 306m in length and is made up of 3 tunnel elements of equal length.

The tunnel elements will be fabricated in a construction dock at the Marieholm-side of the crossing, within the alignment of the tunnel. The construction dock has room for a single tunnel element which requires the dock to be used 3 times for the IMT after which the cut & cover tunnel can be realised at that side of the crossing.

The tunnel elements will be segmented and will be placed in a dredged trench on a sandflow foundation.

Scope of work
Permanent civil works for the immersed tunnel section of the project:
- Preliminary Design
- Final Design
- Detailed Design