

## Zürich-Oerlikon Bahnhofausbau Gleis 7+8



### SHORT DESCRIPTION

The expansion of Oerlikon train station is linked to the overarching SBB project for the Zurich cross-city link. In order to ensure that capacity can be increased sufficiently in connection with the cross-city link, two new train tracks and a 150-metre-long retaining wall are being added to Oerlikon station. In addition to these expansions, modifications are also being made to the existing construction. The bridge over Schaffhauserstrasse is being renewed, while all pedestrian access routes and underpasses are being enlarged. New retail spaces in the underground commercial centre beneath the station are also being added.

### THE PROJECT

The excavation pit is braced mainly by means of an anchored retaining wall and shotcrete, with non-tensioned anchors in the head sections. The static loads of the new bridge are transferred through bored piles and temporary loads are directed into the ground via micropiles. Jetting columns were used to brace the excavation pit and to improve the structural stability of the existing bridge abutments.

### SERVICES IN DETAIL

- Bored piles: 3,000 m of piles DN 1,000
- Retaining wall: 2,000 m of support drilling with HEB profiles
- Micropiles: 800 m
- Anchors: 10,000 m of pre-tensioned anchors, 200 pcs non-tensioned anchors
- Jetting: 250 m of jetting columns
- Embankment securing: 2,000 m<sup>2</sup> of shotcrete

## CHALLENGES

Construction work carried out during ongoing railway operations and in very limited space.

## FACTS

<b>Location</b>	Hofwiesenstrasse 369, Zürich , Switzerland
<b>Status</b>	completed
<b>Construction volume (value of our services)</b>	10.9 M CHF
<b>Start of construction</b>	January 2012
<b>Completion</b>	January 2016
<b>Building owner</b>	SBB & Stadt Zürich
<b>Contracting entity</b>	ARGE Gate Oerlikon c/o Implenia Schweiz AG / Kibag AG
<b>General management</b>	Ingenieurgesellschaft SLW+Partner
<b>Project designer</b>	Ingenieurgesellschaft SLW+Partner c/o Bänziger + Partner AG
<b>Construction management</b>	Ingenieurgesellschaft SLW+Partner c/o Locher Ingenieur
<b>Construction management</b>	Ingenieurgesellschaft SLW+Partner c/o Locher Ingenieur

## SERVICES

Special Foundations

Urban transport infrastructure

Rail transport infrastructure

Infrastructure



<https://implenia.com/en/references/detail/ref/zurich-oerlikon-train-station-expansion-tracks-7-and-8/>

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