

FEDERAL ROADS OFFICE (FEDRO)

A1 ROADWAY MAINTENANCE PROJECT BRÜTTISELLEN INTERSECTION



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Client	Federal Roads Office (FEDRO)
Processing period	2012-2014
Project costs	30 Mio. CHF

The Brüttisellen intersection links the A1 with the A53. The heavy volume of traffic leads to regular jams. Due to the poor condition of the two dual bridges, repairs are required in advance of the comprehensive renewal of the Zurich East – Effretikon section.

The Brüttisellen intersection was built in 1974. The Haldenbrücke bridge and the underpass for the connecting road are reinforced concrete composite bridges with lengths of 184 meters and 86 meters respectively. The choice of the foundation in difficult, non-homogeneous subsoil

deliberately took account of differences in the settlement of the abutments and supports. The settlement differences are compensated by removing washers. For this compensation to remain possible, the bridges had to be raised to their original levels in 2012/2013. Due to the high volume of traffic, the condition of the two bridges requires reinforcements for the steel girders and total renewal of the corrosion protection. Traffic safety was improved by adjustments to the traffic routing in the area of the entrance to the A1 in the direction of Zurich.

The refurbishment work was brought forward in response to the results of the structural engineering investigations. The comprehensive repair and renewal of the Zurich-East to Effretikon section of the national highway is scheduled between 2025 and 2030.

R+R provided assistance for the overall management of the project by the Federal Roads Office (FEDRO), Winterthur Branch, by way of client support during the implementation of the project. Key aspects of this support included procurement, meetings and project controlling. R+R was also entrusted with quality assurance by the client. High-quality documentation and professional dealings with external parties, together with plans and reports that are error-free and consistent insofar as possible, are prerequisites for the efficient provision of services, a high quality of execution and minimal additional costs due to changes and adjustments to specified requirements for building contractors.