



SCHULTHESSE CLINIC

"MIDDLE" EXTENSION
ZURICH – ZH

N° 12033E

Principal
Wilhelm Schulthess Foundation
Lengghalde 2
8008 Zurich

General contractor
HRS Real Estate AG
Walzmühlestrasse 48
8500 Frauenfeld

Architects
Grüter Strässle
Architekten GmbH
Siewerdstrasse 8
8050 Zurich

Civil engineers
Ribi + Blum AG
Eggbühlstrasse 36
8050 Zurich

Technical consultants
Electrical engineers:
Amstein + Walther AG
Andreasstrasse 11
8050 Zurich

Sanitation engineers/
Medical technology:
Amstein + Walther AG
Fürstenlandstrasse 41
9000 St.Gallen

Door technology:
Amstein + Walther Sicherheit AG
Bresteneggstrasse 5
5033 Buchs

Air-conditioning and
energy technology:
Todt Gmür + Partner AG
Goldschlägistrasse 16
8952 Schlieren

Gastronomy planning:
GaPlan GmbH
Oberbodenstrasse 13
5303 Würenlingen

Acoustic engineers/
construction physics:
Michael Wichser + Partner AG
Kriesbachstrasse 30
8600 Dübendorf

Building automation:
Sauter Building Control
Schweiz AG
Stettbachstrasse 10
8600 Dübendorf

Landscaping
Ernst und Hausherr Landschafts-
architekten BSLA
Niederdorfstrasse 50
8001 Zurich

Location
Lengghalde 2
8008 Zurich

Planning / implementation
2012–2016

Published in Switzerland



CENTRE D'INFORMATION
ARCHITECTURE ET CONSTRUCTION



LOCATION / HISTORY

One of Switzerland's largest health facility clusters is being built on the Lengg campus in Zurich. A number of institutions from the areas of health and research, including the University of Zurich, the ETH Zurich, the Balgrist University Hospital, the University Hospital Zurich's Psychiatric Division, the Hirslanden Clinic and the Schulthess Clinic are grouped on a landscaped rise on the city's southeastern outskirts. Zurich's new children's hospital will also be built nearby.

The Schulthess Clinic is one of Europe's leading orthopaedic clinics. It focuses on freeing people from pain and restoring their mobility. As a specialist clinic, it concentrates on surgical orthopaedics, neurology, rheumatology and sports medicine. The steadily increasing number of patients has in turn led to spatial bottlenecks. For this reason, the Board of Trustees authorized the creation of the urgently needed larger hospital capacities in the form of a comprehensive extension and conversion project.





DESIGN / ARCHITECTURE

In a constantly changing hospital environment, clinic management had high demands and expectations of flexible solutions. First and foremost, solutions had to be found for the growing need for service and catering facilities. The starting point for the expansion was the clinic built by the architectural team of Rudolf Mathys and Felix Rebmann in 1995. Planning trials explored the building potential of the existing land plots. To achieve the ideal final result with short distances and a functioning "heart", the Clinic opted, after careful consideration, for an extension from its centre. It was willing to accept the disadvantages of a long construction period with high noise levels and dust emissions.

The original hospital complex consists of two buildings arranged closely behind one another along the hillside that slopes gently towards the west. They are linked by an atrium-like glazed hall running north-south. The extension is made up of several sub-projects, which enhance and consolidate the space available, taking into account the original arrangement: the hall was extended on both sides and strengthened as the centre of the facility; at the "head end" of the building, facing the Lenggstrasse, a new ward block was built. Additional sub-projects included an auditorium with classrooms and a gait lab, as well as a parking garage beneath the gardens at the hall's southern exit. The treatment area on the slope side was also extended, as was the catering area. The clinic now has a larger restaurant and a new bistro. The spatial additions accentuate the longitudinal orientation of the complex; the addition of the ward block creates a courtyard situation to the north with a driveway and entrance area leading into the hall. At its southern end lies the park that opens out into the green belt. While its size has been somewhat reduced by the annex on its slope, its character – a recognisable feature of the clinic – has been preserved. The distinct features of the extension are the anthracite-coloured, vertically ribbed porcelain

stoneware panels of the façade cladding and the specially anodised frames of the generously dimensioned casement windows that protrude from it.

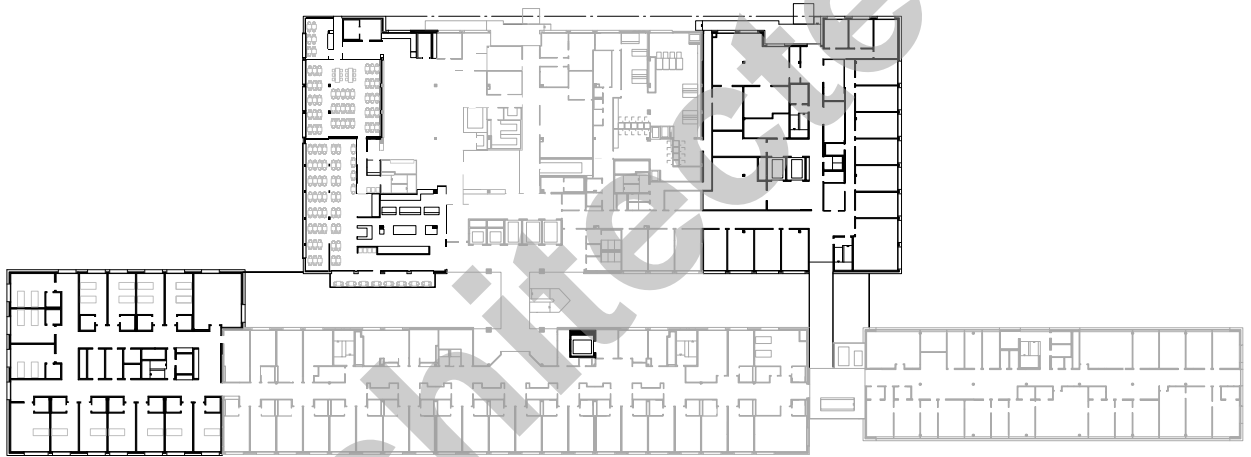
SPECIAL FEATURES

Detailed planning and intensive communication between the hospital's managers and construction management were decisive, since all the construction work was carried out during ongoing clinic operation. This was the only way to ensure the smooth operation of the clinic at all times, and to meet the high quality requirements. As the general contractor, HRS Real Estate AG was entrusted with the constructional implementation of the clinic extensions. It hired some 100 contractors who completed the building project from the ward block right through to the restaurant.

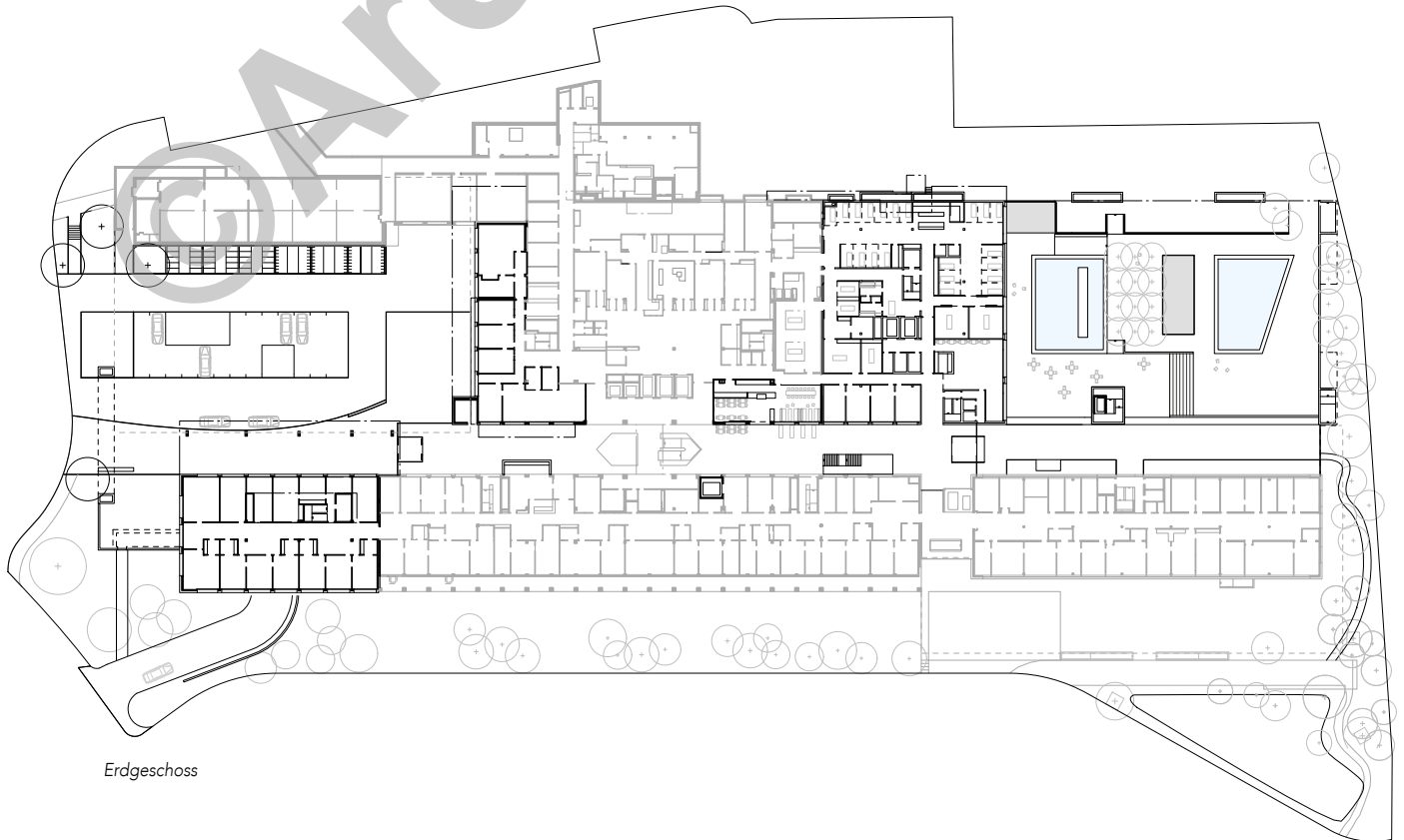
In addition to provisional arrangements, ongoing clinic operation throughout the construction period and the extensions added on all sides required repeated adjustments to the access routes and routing; patient and visitor flows had to be strictly separated from construction work. Using corridors and protective tunnels, entire temporary path networks were created to enable visitors and patients to pass safely through the building sites without being aware of them. Despite the complete reconstruction of the entrance to the underground parking garage, the clinic always had a driveway and parking spaces.

Constructing the extension proved to be technically demanding and highly complex due to massive interventions in the existing building, such as elevator installation in the ward block. This demanded far-sighted, coordinated and multi-layered planning.





1. Obergeschoss



Erdgeschoss



PROJECT DATA

Total cost:	about CHF 80 million
Site area:	20,204 m ²
Total surface area:	49,000 m ²
Existing surface area:	33,500 m ²
Extension surface area:	15,500 m ²
of which, conversion:	4,300 m ²
<i>Building volume</i>	
Total:	170,000 m ³
Existing:	110,000 m ³
Extension:	60,000 m ³
Hall:	11,500 m ³
<i>Storeys</i>	
Above ground level:	4
Below ground level:	2

