

Throughput capacity verification for a redesigned Rämistrasse-Gloriastrasse intersection



EBP has used traffic flow simulation to verify the capacity of a redesigned Rämistrasse-Gloriastrasse intersection to handle the anticipated traffic volume. The intersection is to be redesigned in the context of the further development of Zurich's university district.

The intersection Rämistrasse-Gloriastrasse is to be redesigned in the context of further development in Zurich's university district. The development plan calls for the construction of a tripartite "University" streetcar stop at the site of the intersection, the removal of a nearby parking lot for the University Hospital and the construction of a new and larger multi-storey car park.

EBP has used traffic flow simulation to verify the capacity of the future intersection to handle the expected traffic volume (reference year: 2030). The verification process involves determining the simulation entry parameters (e.g. peak volume) by means of a traffic survey, and calibrating the simulation model accordingly. The resulting simulation takes account of private motor-vehicle traffic, public transportation and pedestrian traffic in the area of the streetcar stop.

The capacity of the planned intersection to handle the projected traffic volume can be verified via statistical evaluation of the intersection flow rates and the length of occurring traffic jams. The mandate also included drafting proposals for improving traffic flow.

Client

Canton of Zurich, Office of Planning and Architecture

Facts

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