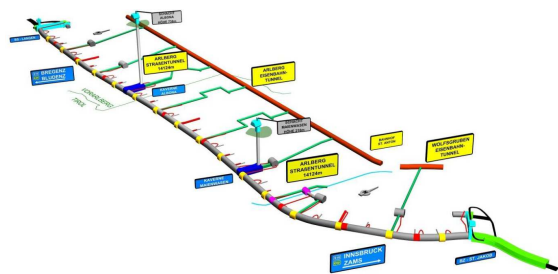
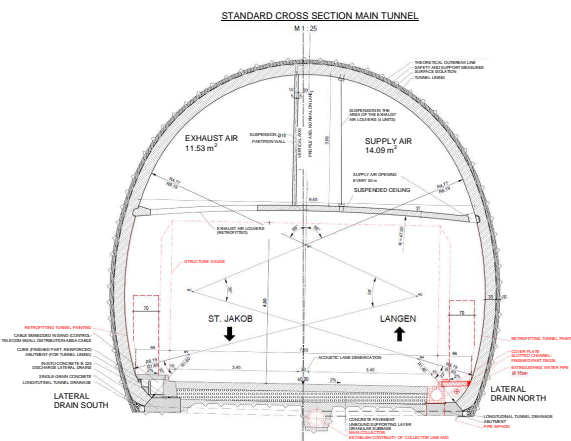




With 15,516 m, the Arlberg Street Tunnel is one of the longest road tunnels in Europe



Schematic representation of the Arlberg Street Tunnel, a. o. with the following planned modifications: ascensions and descents to the supply air duct (AZ) in a distance of <500 m and 8 additional breakdown bays on the North side



Standard cross section of existing tube (changes by the first partial renovation marked in red)

Description

Since December 1, 1978, the Arlberg Street Tunnel has been in operation on the S 16 Arlberg Motorway with two-way traffic and represents the only winter-safe connection “over” the Arlberg. Due to the traffic development to be expected, it is necessary to renew the Arlberg Street Tunnel including its technical safety equipment, and to extend it to comply with the currently applicable safety standards.

Until the year 2007, in the so-called construction phase 1, new escape and rescue paths have been established, which are connected, among others, with the parallel railway tunnel. In the following construction phase 2, within the partial renovation 1, ascension ways within the existing fresh air channels are supposed to be created, and the tunnel ventilation system shall be renovated, as main measures.

HBI Haerter Consulting Engineers was charged with reviewing the preliminary draft according to §7 of the Street Tunnel Safety Act (STSG) for the first partial renovation.

HBI served as an expert specialized on the field of tunnel safety here. The mission was to assess the constructional changes to the tunnel planned for the first partial renovation, to approve them and to describe them in an expert opinion.

Services

For the safety assessment of the Arlberg Street Tunnel, an expert opinion was prepared which covers the following content:

- Description of the operating and safety equipment on the basis of the submitted information of the tunnel operator
- Review of the operating and safety equipment on the basis of STSG, BTC-HBI guideline, RVS
- Preparation of a catalog of measures for potential defects of the planned renovation