

Expansion Airport Frankfurt am Main Drainage of three Deicing Pads

Characteristics:

- Area DP West 1	15,000 m ²
- Area DP West 2	18,000 m ²
- Area DP East	12,000 m ²
- Free-flow pipes DN 300 – DN 1300	2,100 m
- Connection pipes	700 m



Deicing Pad

Scope of Work:

- Design planning
- Detailed planning
- Preparation of the procurement
- Contribution to the procurement
- On-site construction site management
- Construction site management

Description:

The Fraport AG let expand the Airport Frankfurt am Main according to the projected demands for 2020. The required measures include the establishment of three deicing pads. These areas have been newly constructed, bordering runways which are in operation, so that several deconstruction measures were required in advance (e.g. driveways, traffic ways, transformer station, approach lighting system).

Due to flight operational necessity several limitations had to be considered during the construction phase (height limitations of equipment, partially night shifts). The drainage was planned via slotted drains and free-flow pipelines to rainwater retention tanks.

As part of the planning, detailed planning maps, longitudinal sections and construction plans were developed for the rainwater sewer system. Particularly important was the coordination of the entire route planning (power supply, drinking water and industrial water, cable conduits for power, lighting and communication).