TECHNOLOGY OFFER

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BALANCED LIFT BRIDGE CONSTRUCTION

TECHNOLOGY

This new bridge construction method consists in building the bridge girders in a vertical position and in rotating the bridge girders into the final horizontal position. The span of the bridge girders is reduced by the compression struts, which enables considerable savings in construction materials.

Fig. 1 Construction of the prototype *Click here to watch the video*

APPLICATIONS

The proposed method will be especially advantageous for bridges with high piers and span length between 50 m and 250 m. The usage of temporary piers (see Fig. 1) enables the expedient application of the balanced lift method for bridges with piers of modest height. The method is also applicable for temporary bridges and lift bridges.

BENEFITS

- Savings in construction materials (20 to 30 % in comparison to balanced cantilever method)
- Fast vertical assembly of bridge girders and compression struts
- Concentration of construction at the pier locations
- Established technologies are available for the lifting or lowering process and the hinges.

REFERENCE:
M025/06

KEYWORDS:

- Bridge
- Balanced lift construction method
- High piers, span length 50 - 250 m
- Temporary bridge, lift bridge

DEVELOPMENT STATUS:
Pilot project in AT

OPTIONS:
Project based co-operation and consulting

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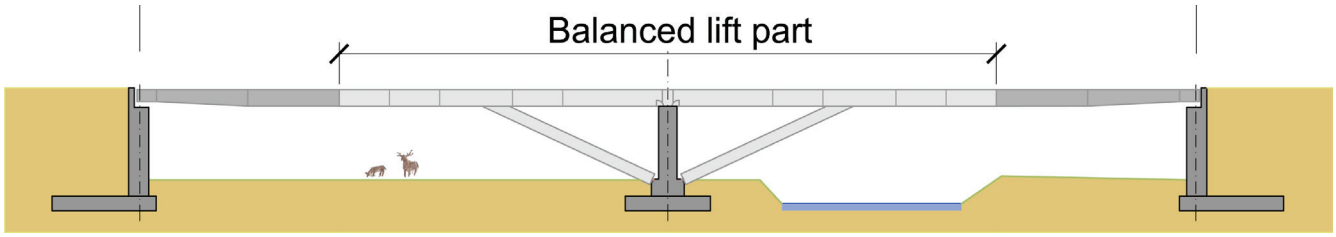
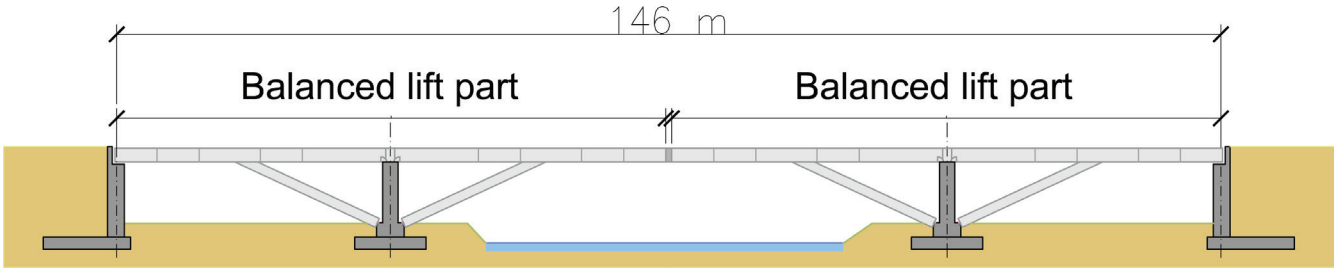
DESIGN FOR BRIDGES ON THE S7 MOTORWAY IN AUSTRIA



DESIGN FOR THREE SPAN BRIDGE



DESIGN FOR VALLEY BRIDGE