

Hesperbachtal Bridge

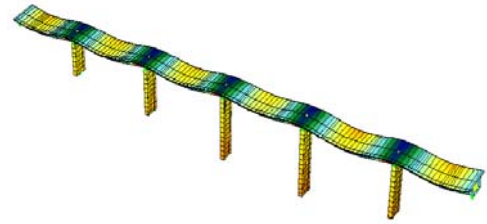
Location **Germany**

Client **EHS Beratende Ingenieure, Kassel**

Date **2006**

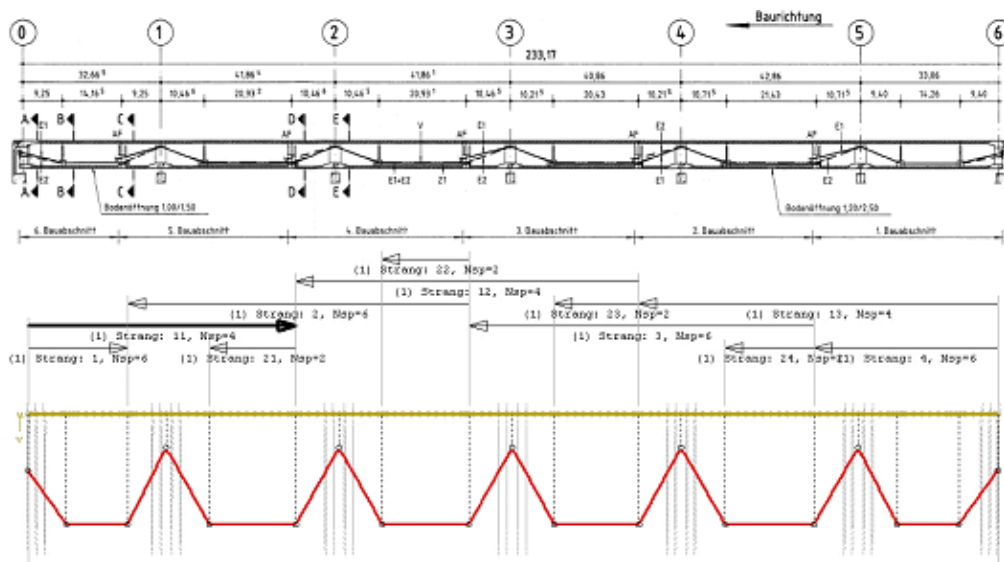
Services **Structural Analysis**

ABES member **ABES Austria**

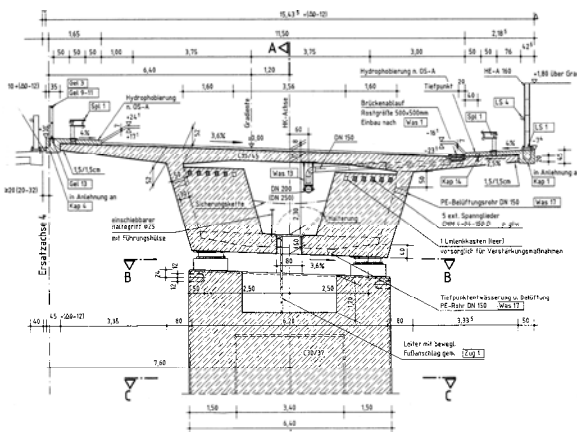


Description

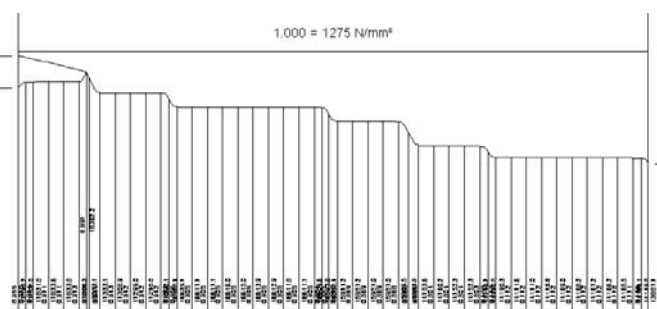
The present 6-span box girder bridge with a total length of 232m and a curved alignment was designed according to the German regulations of the DIN Fachbericht 105. A span-by-span erection sequence facilitated by a gantry was chosen requiring a detailed simulation of the construction process. The cross-section with a width of 15.5m contains exclusively external pre-stressing.



External pre-stressing



Cross-section with pre-stressing deviator



Stress distribution in external pre-stressing tendon