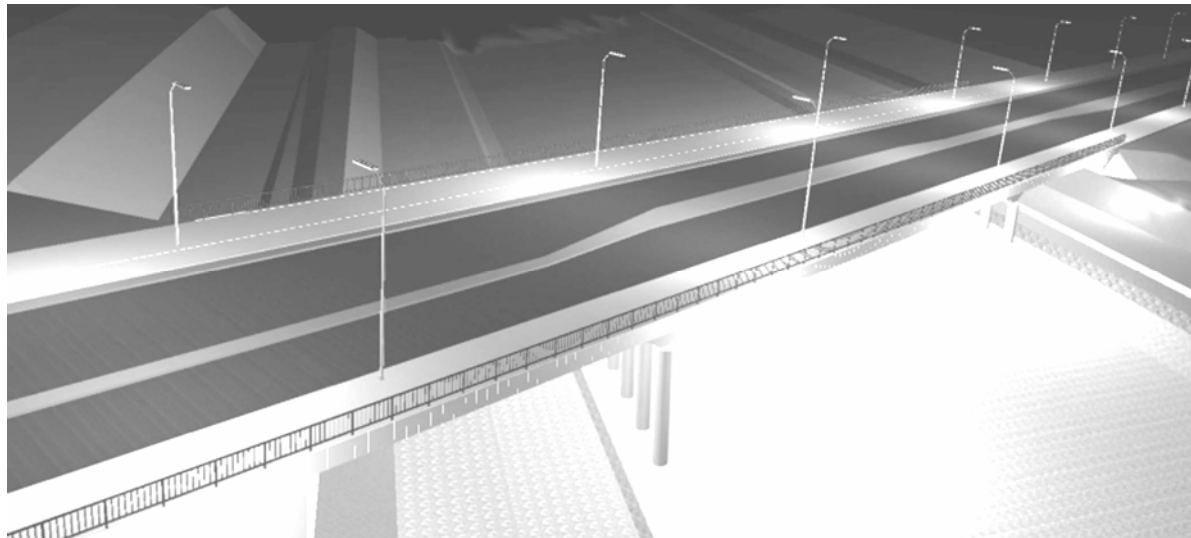


Road bridge over the River Nišava first prize winning solution

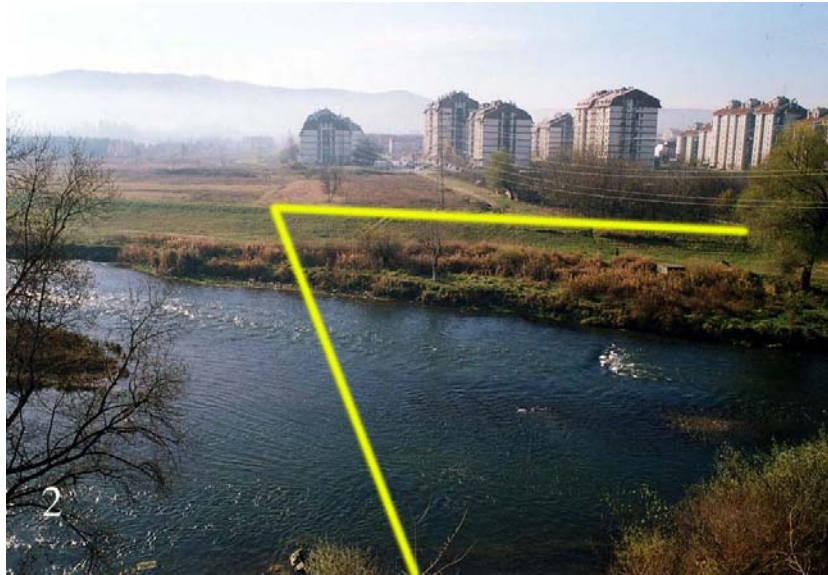


Authors: N. Spasojevic, A. Spasojevic, A. Kalac

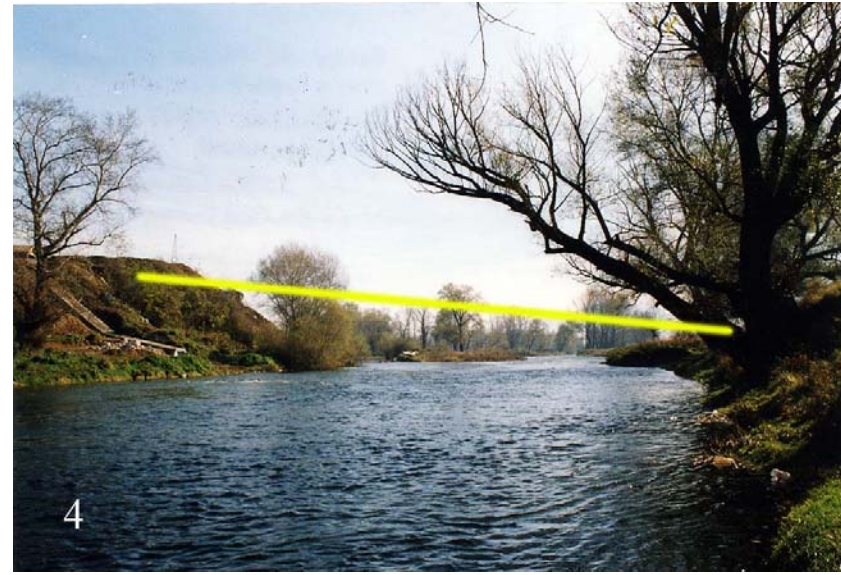
Location



Location and general data



view from the right river bank



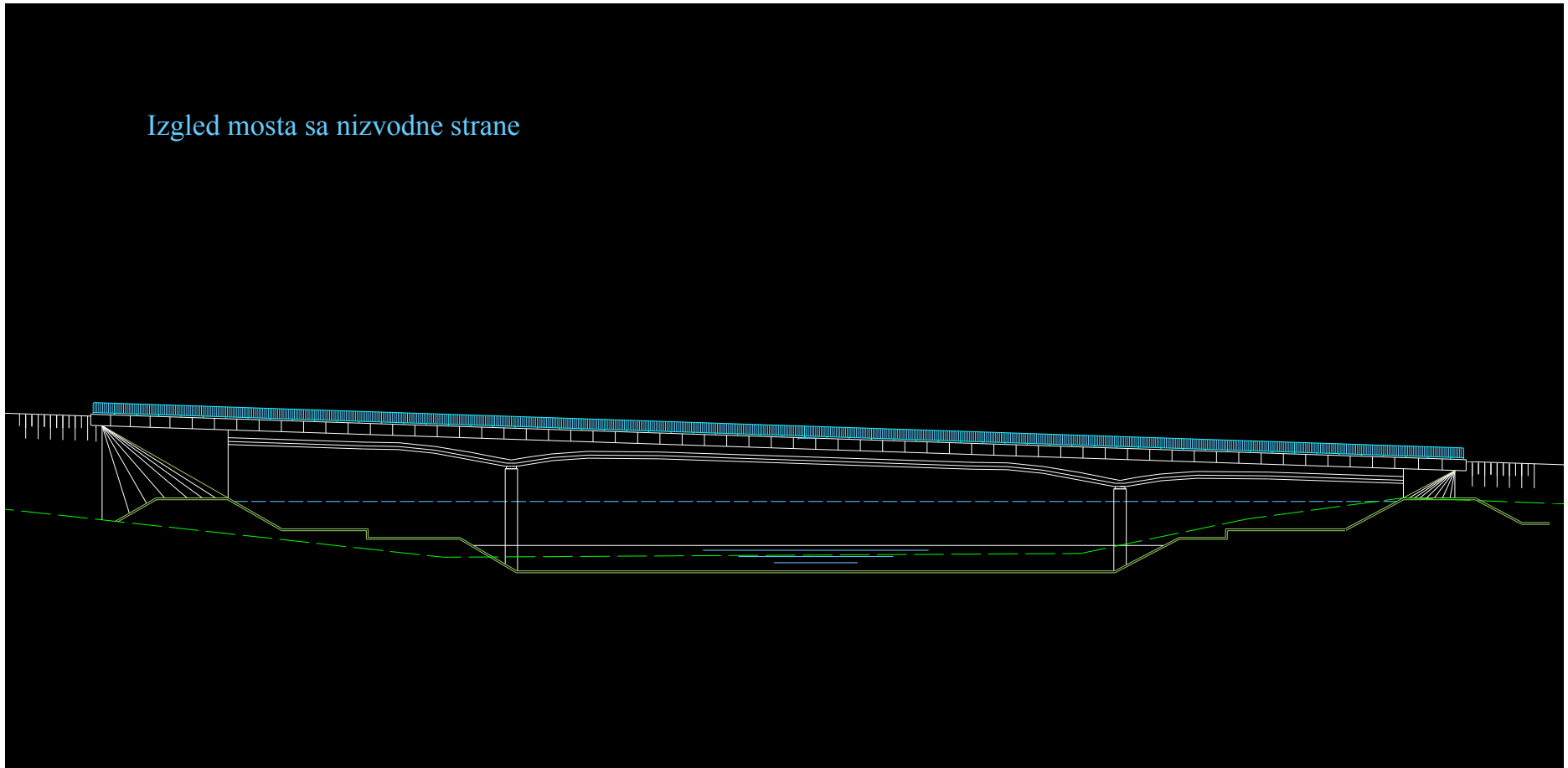
upstream view

One of important design conditions:

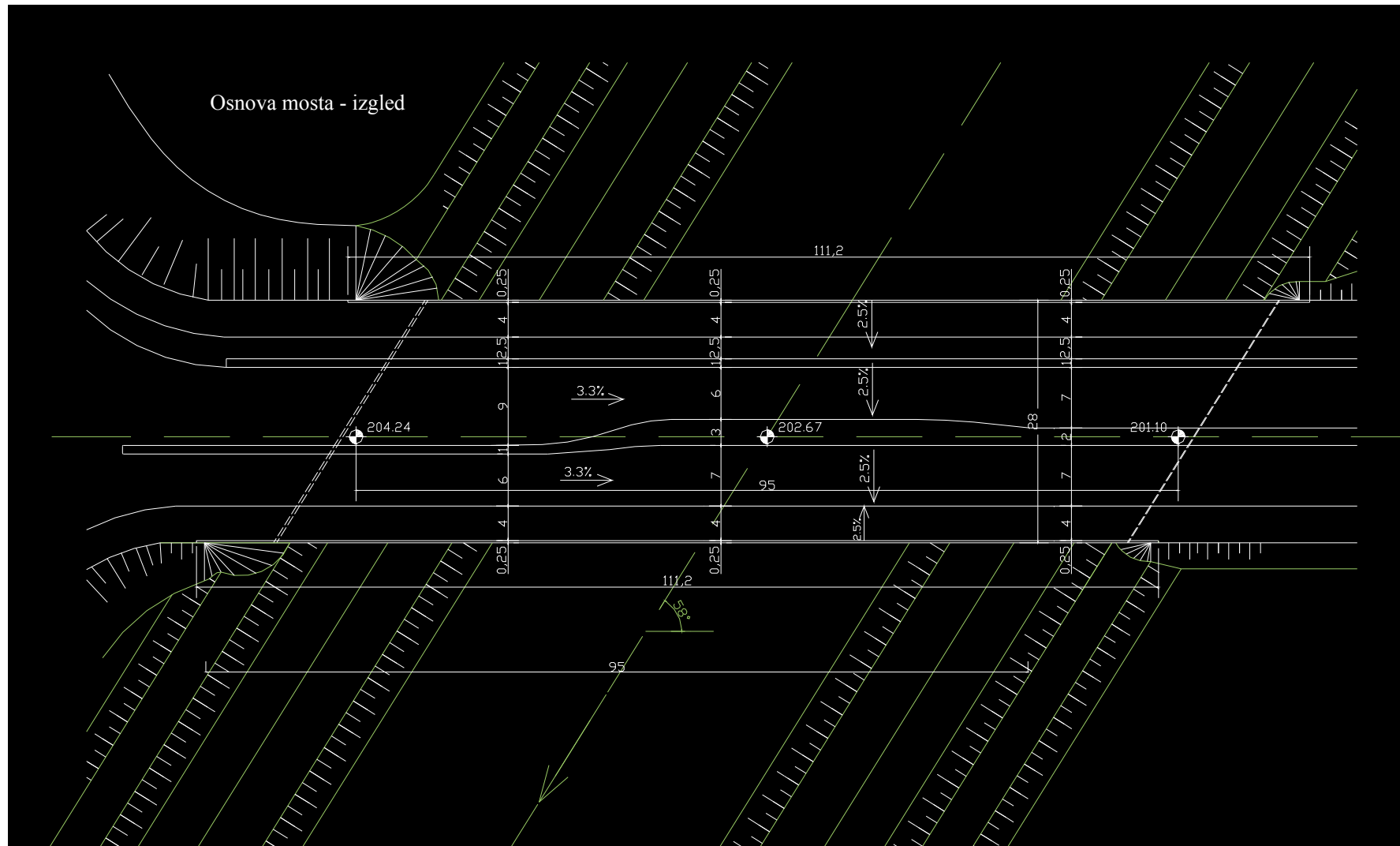
- design a solution so that the bridge can be built in two stages, with a first stage (approx. $\frac{1}{2}$ of the bridge width) allowing traffic flow in two lanes.

Designed solution: upstream view

Izgleđ mosta sa nizvodne strane

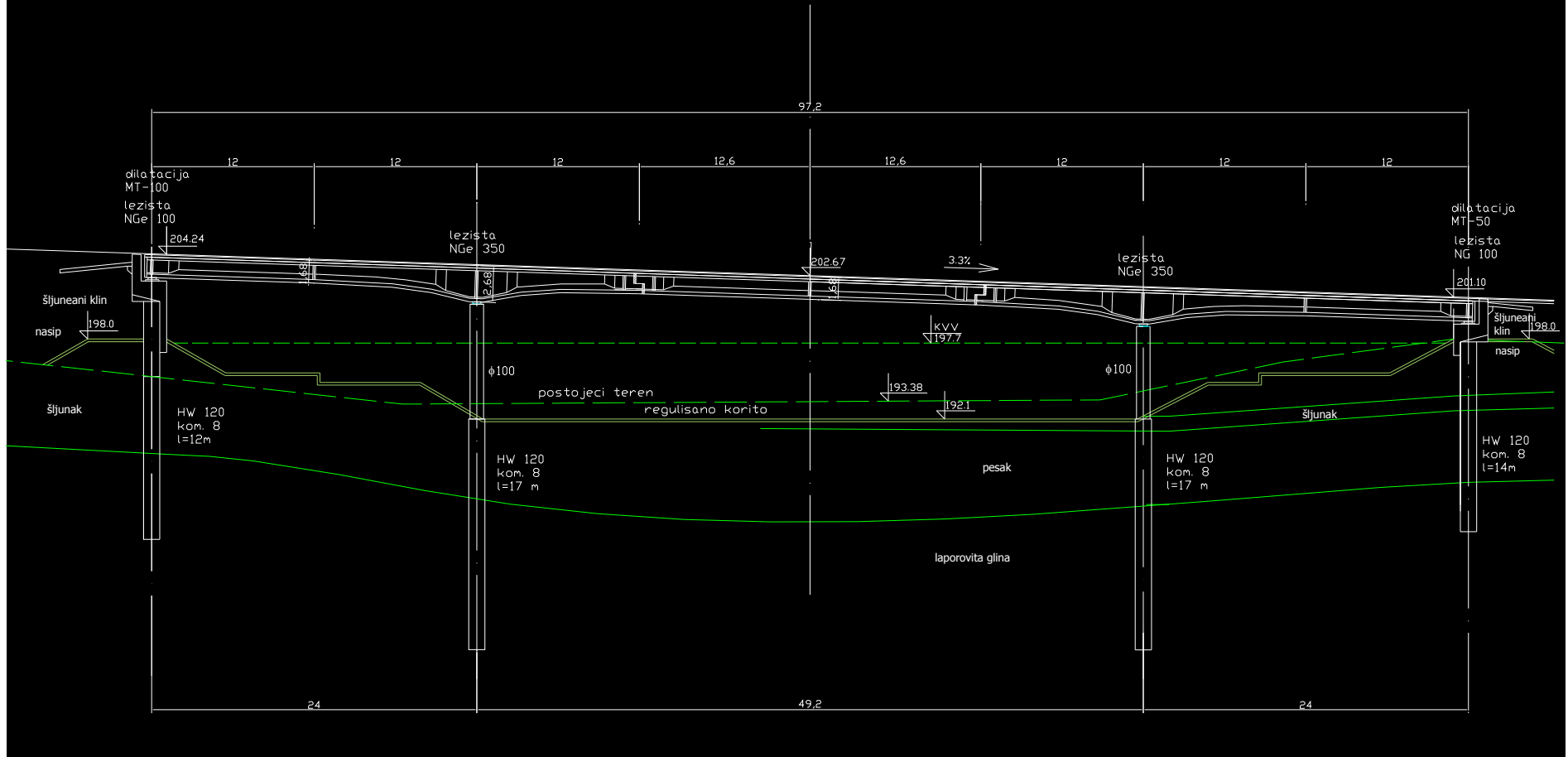


Designed solution: plan

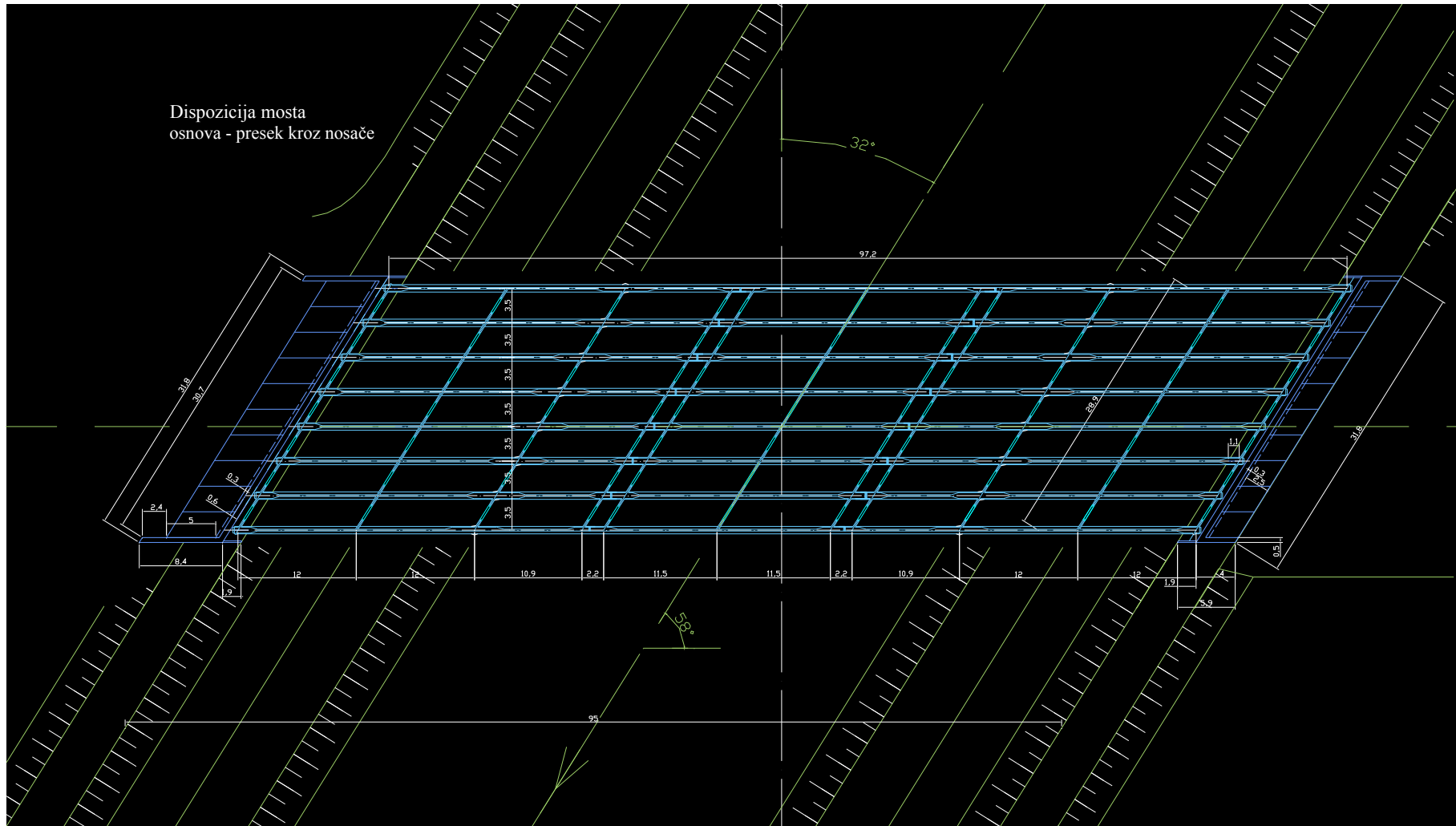


Designed solution: longitudinal section

Dispozicija mosta
podužni presek po niveleti

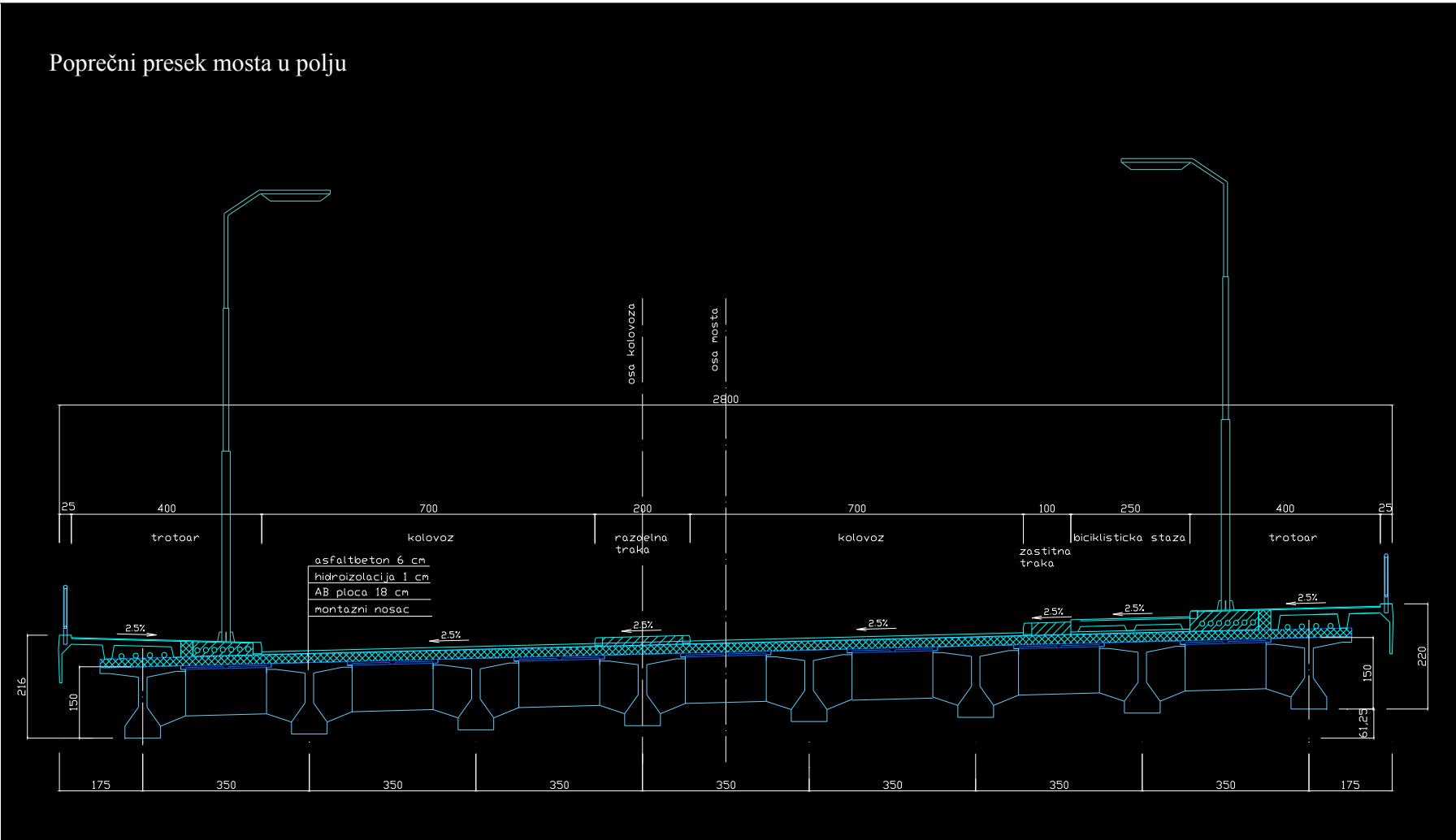


Designed solution: plan section

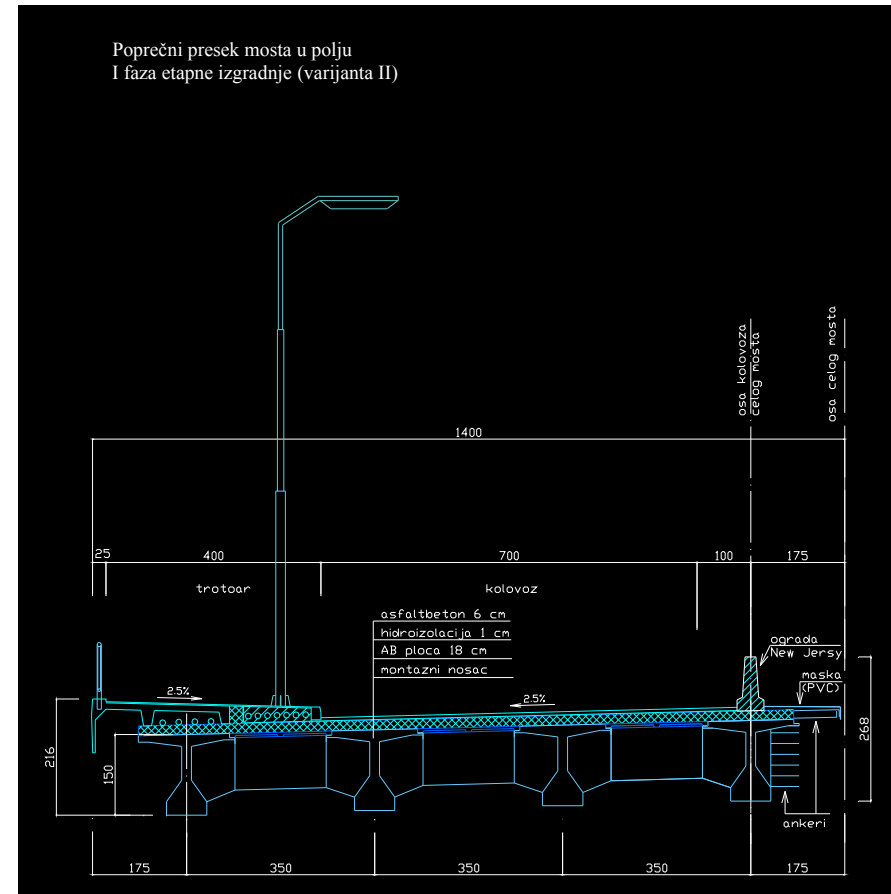
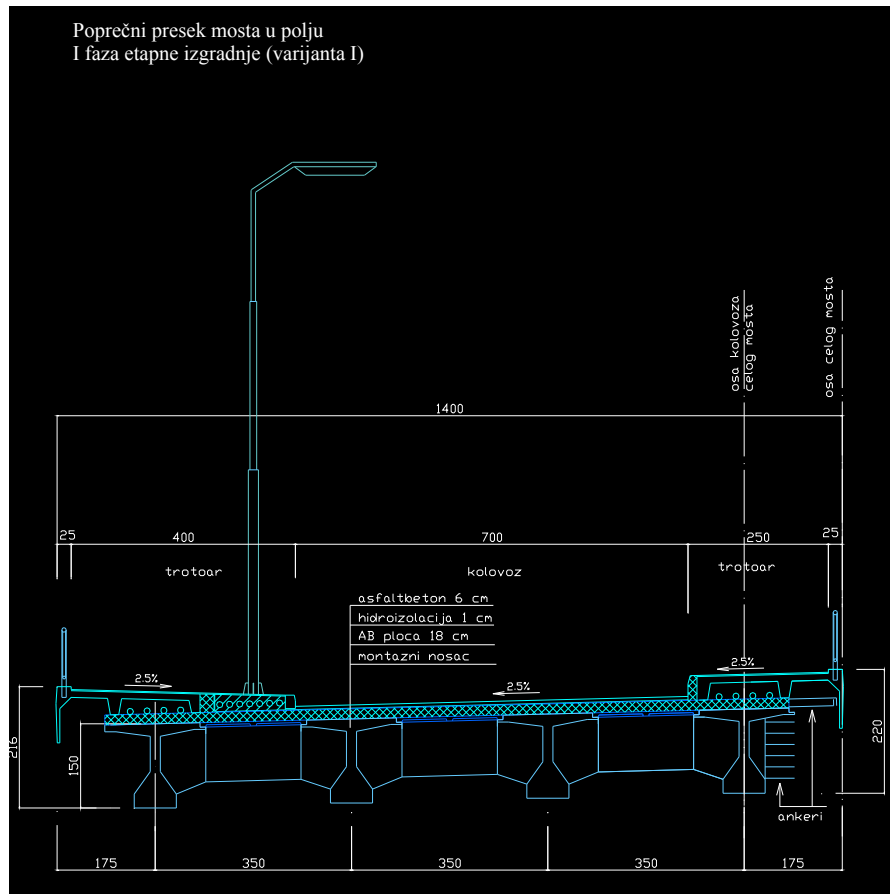


Designed solution: cross section

Poprečni presek mosta u polju

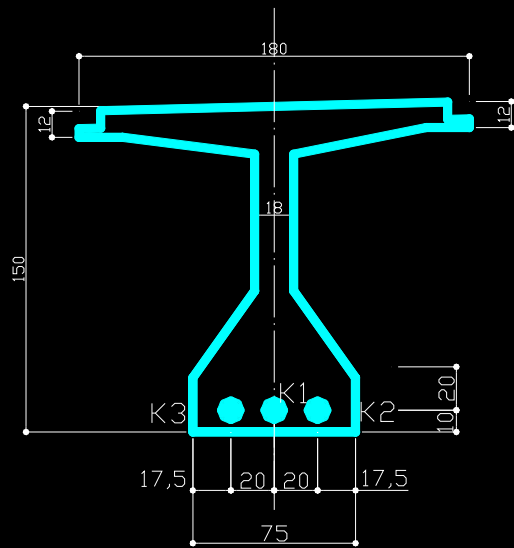


Designed solution: cross section for phase building (1/2)

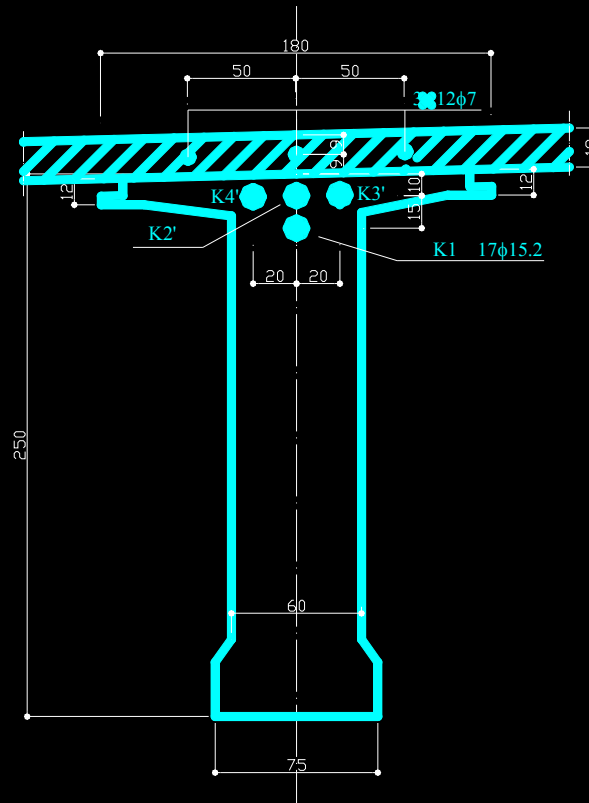


Designed solution: precast girders, cross section

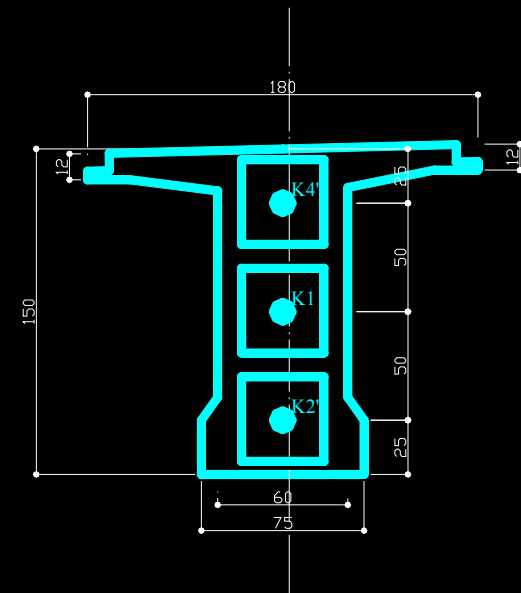
poprečni presek montažnog nosaca u polju



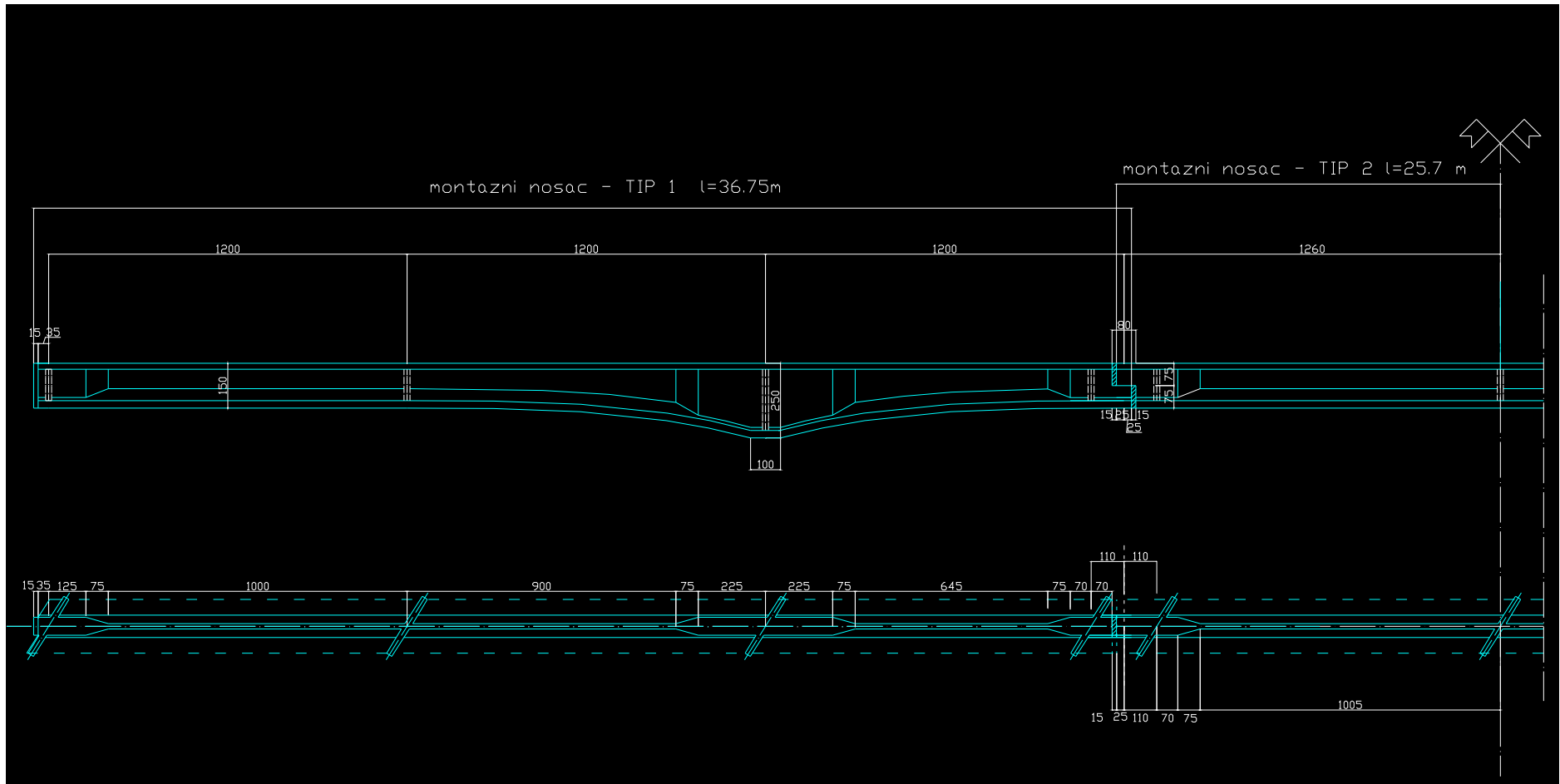
poprečni presek montažnog nosaca nad obalnim stubovima i na delu privremenih zglobova



poprečni presek montažnog nosaca nad obalnim stubovima i na delu privremenih zglobova

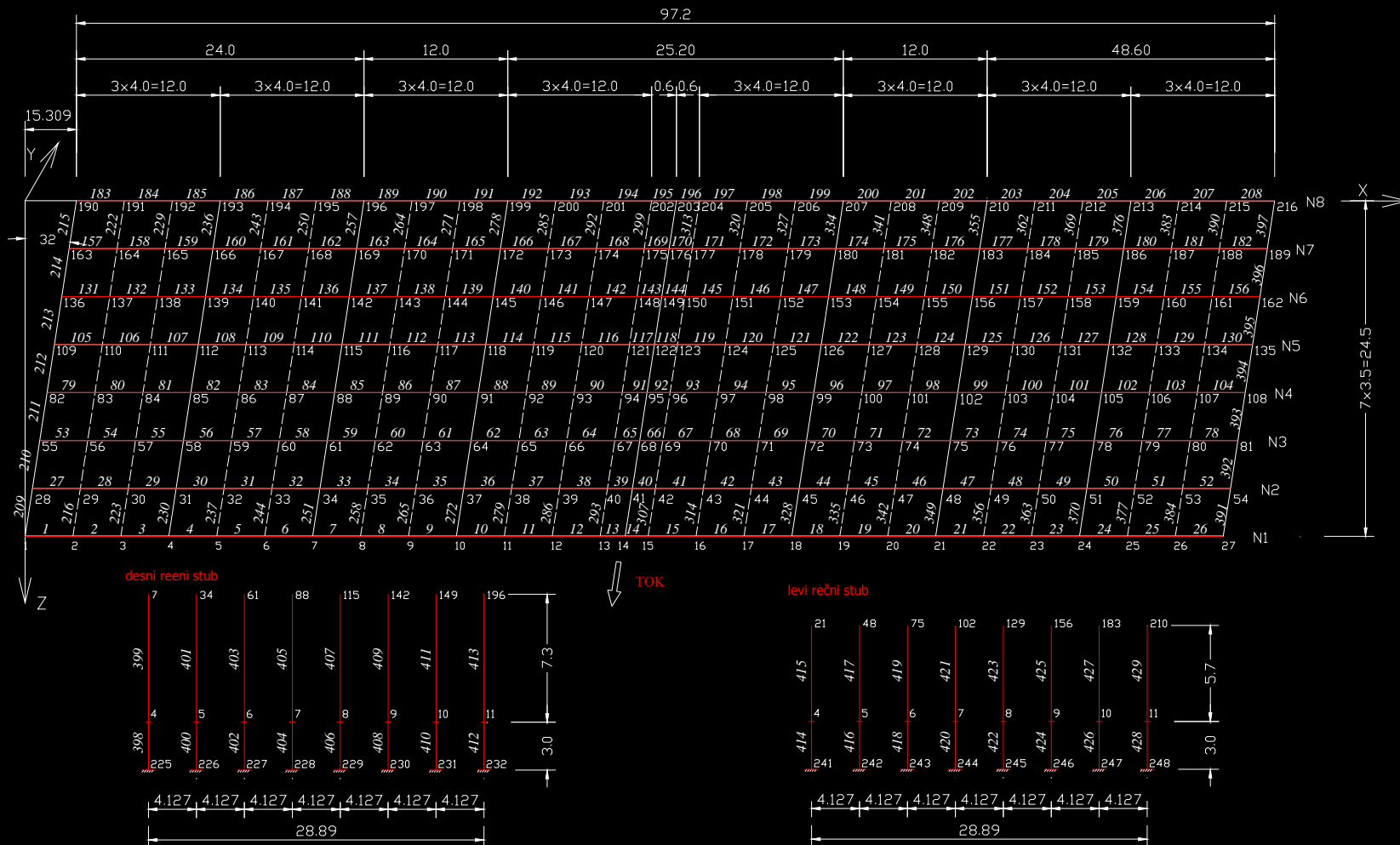


Designed solution: precasted girders



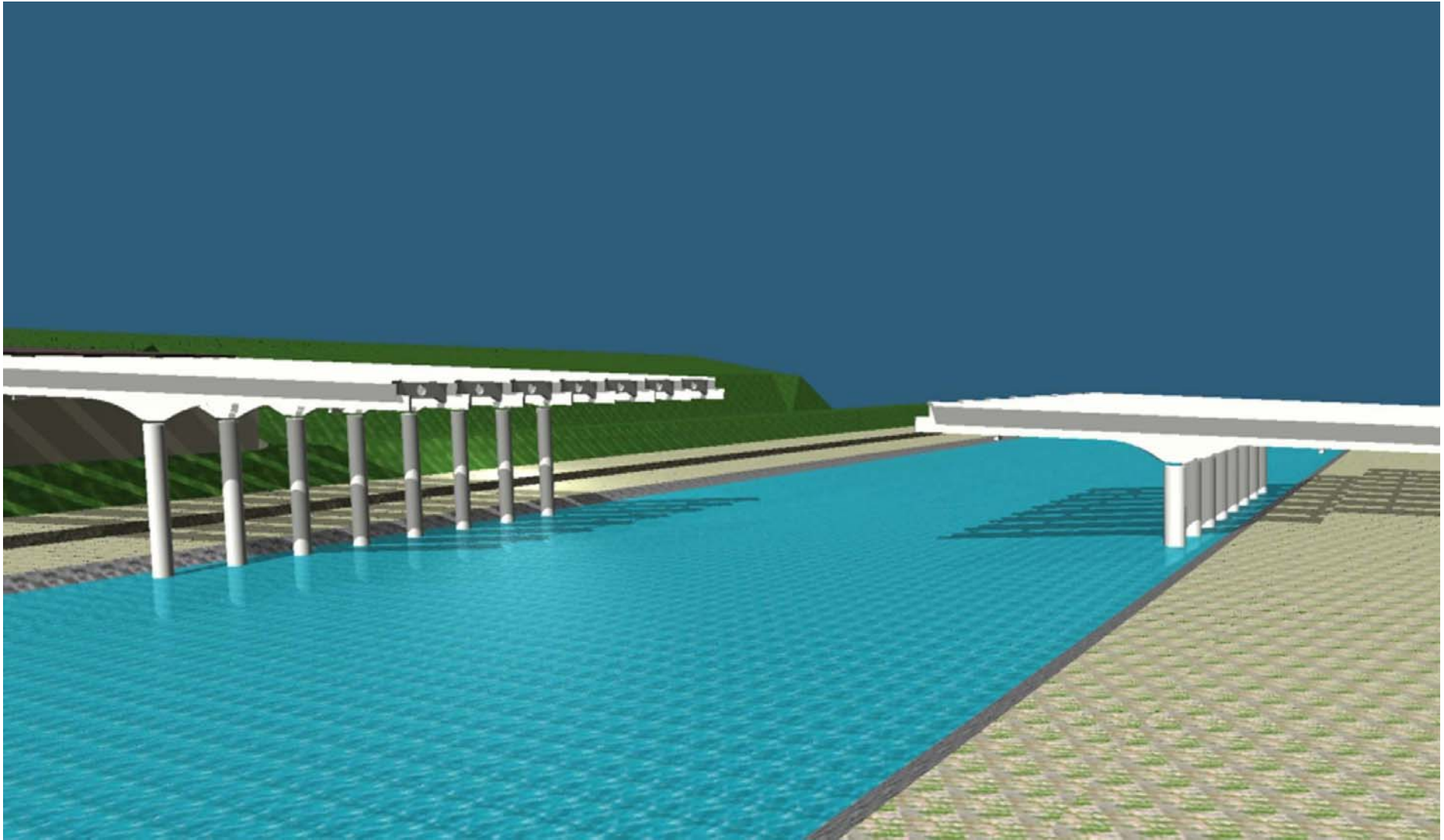
Calculation model

Računski model mosta - prostorni linijski sistem



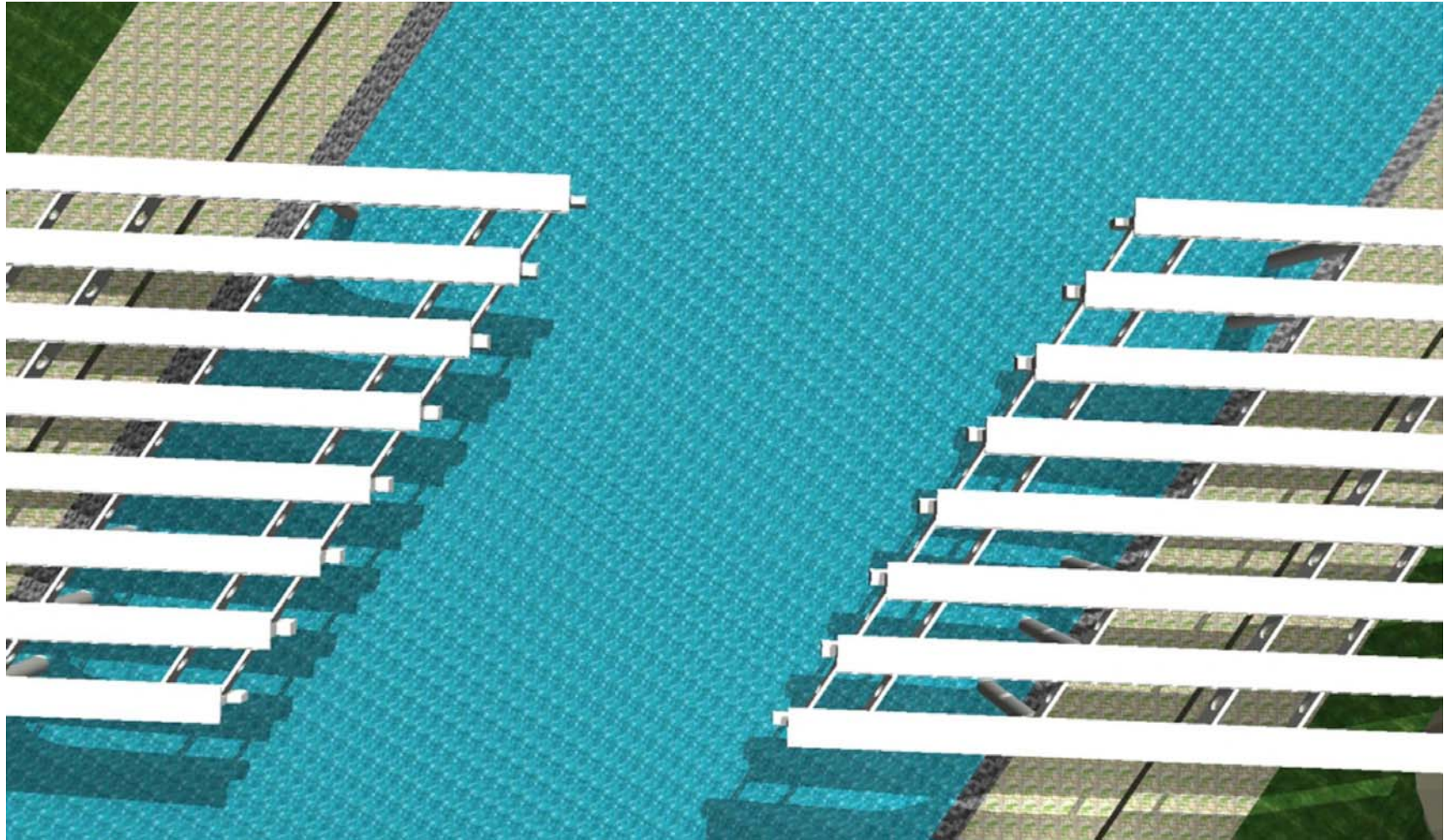
Designed stage building with precast elements

upstream view



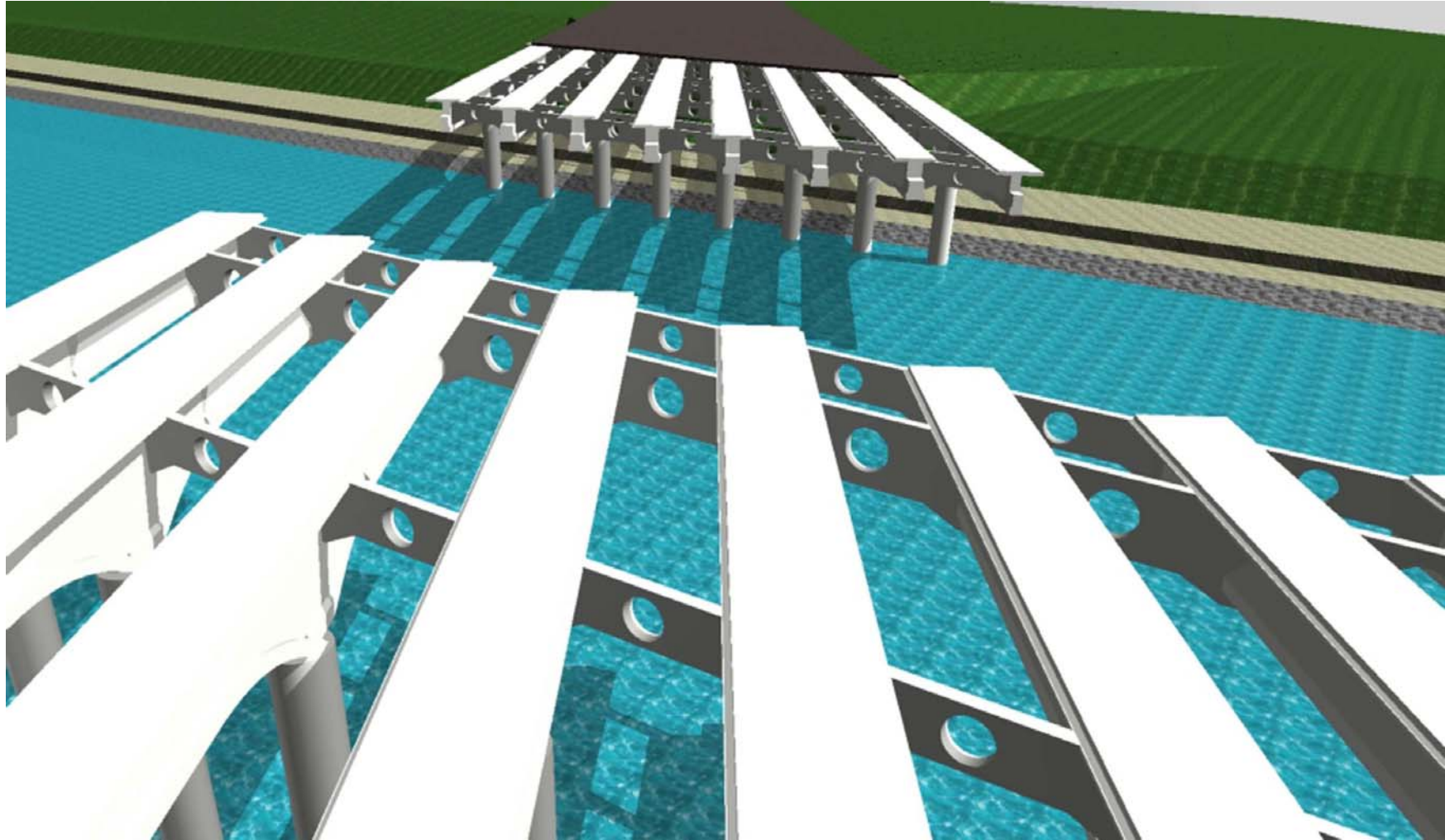
Designed stage building with precast elements

plan view



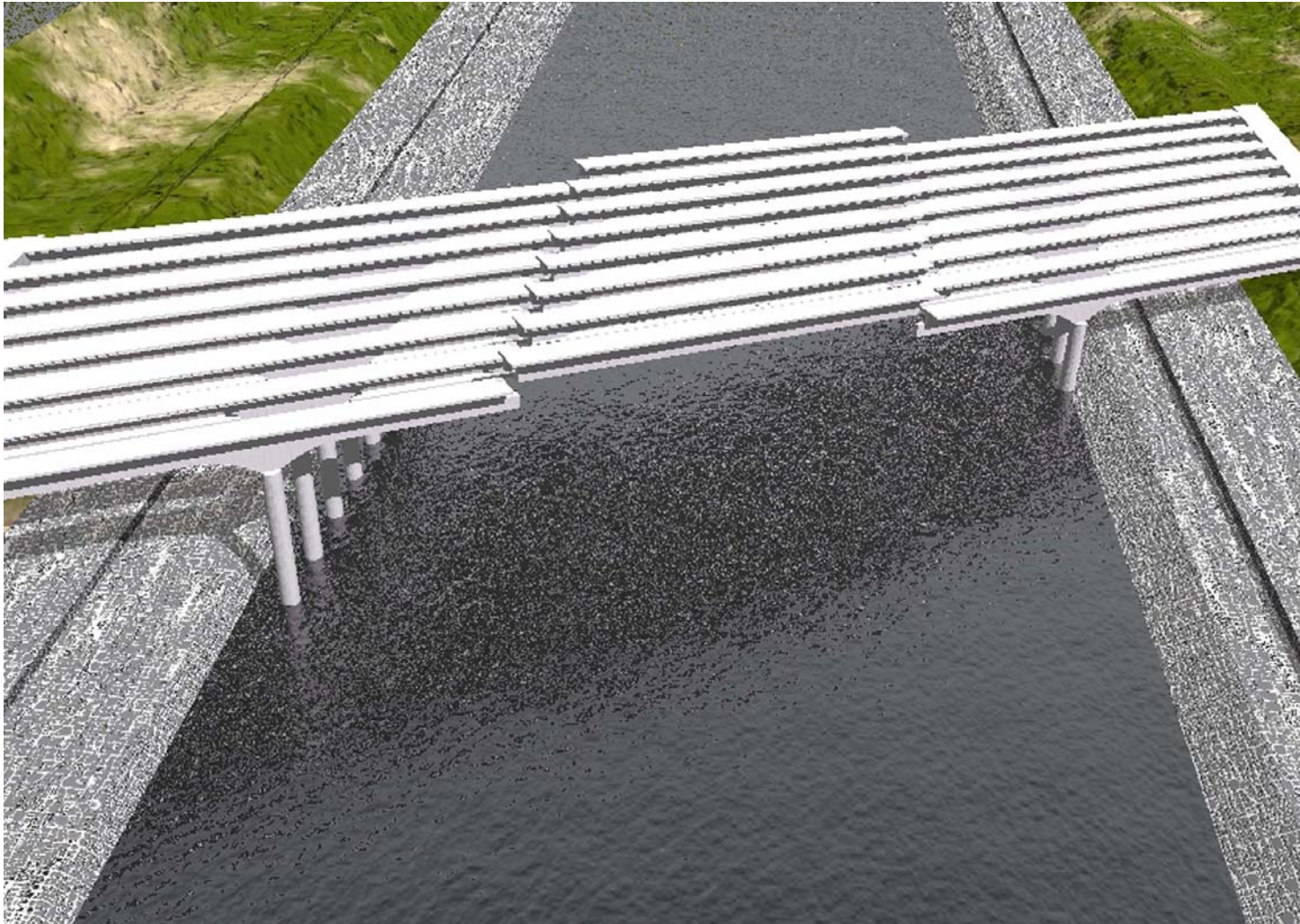
Designed stage building with precast elements

view along the bridge



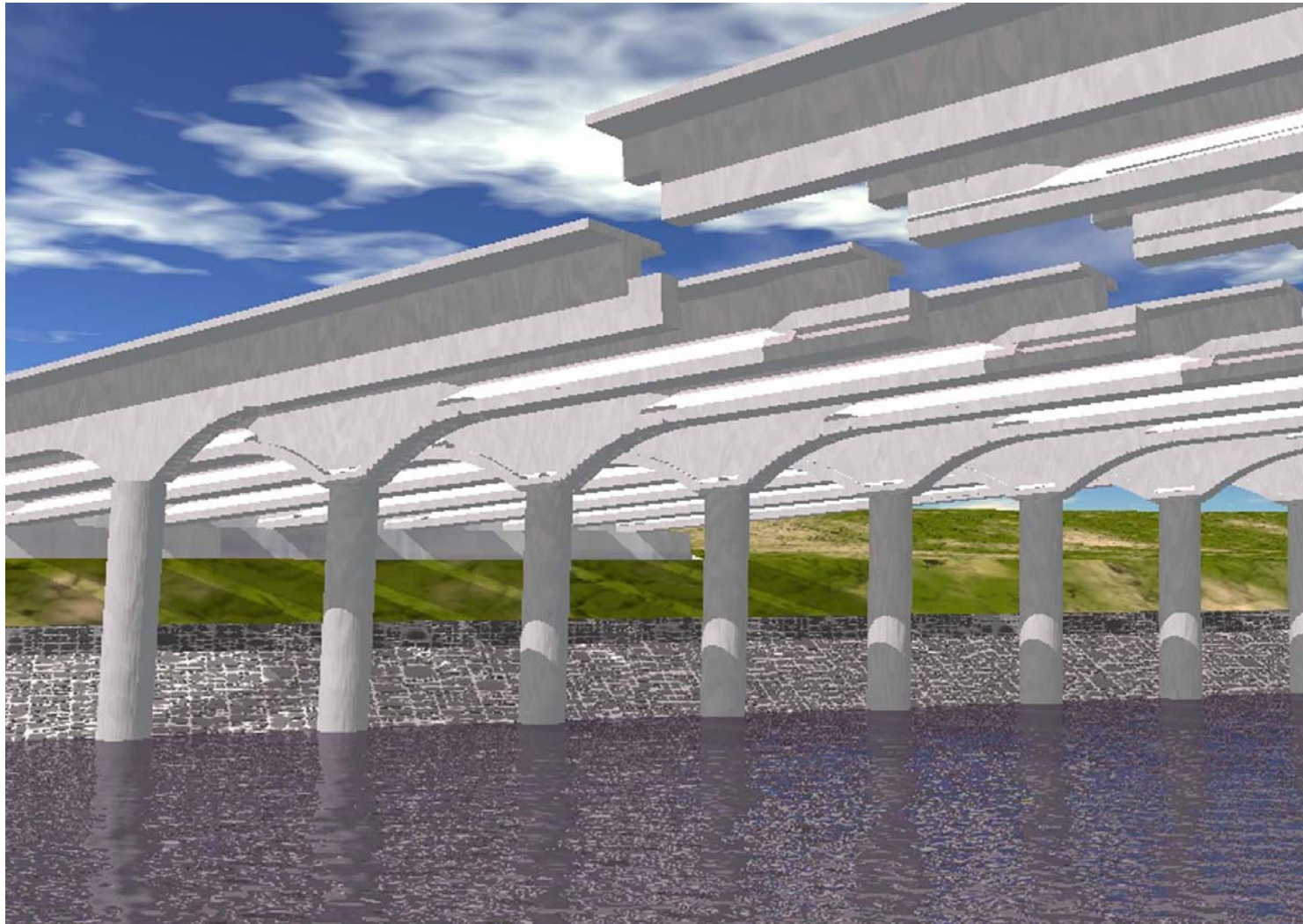
Designed stage building with precast elements

placing of girders in the mid-span



Designed stage building with precast elements

placing of girders in the mid-span

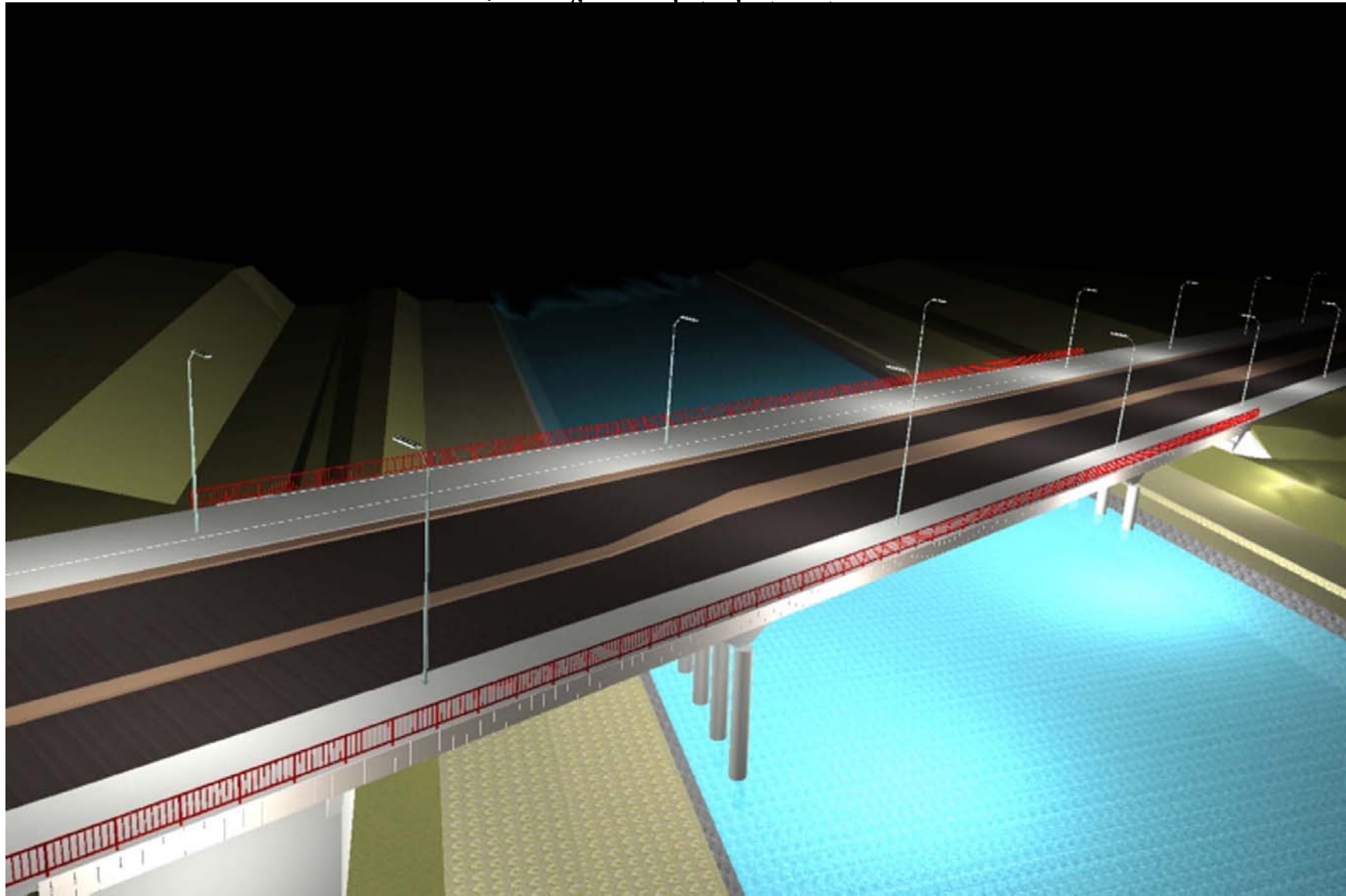


Designed stage building with precast elements

view of completed structure



Designed stage building with precast elements

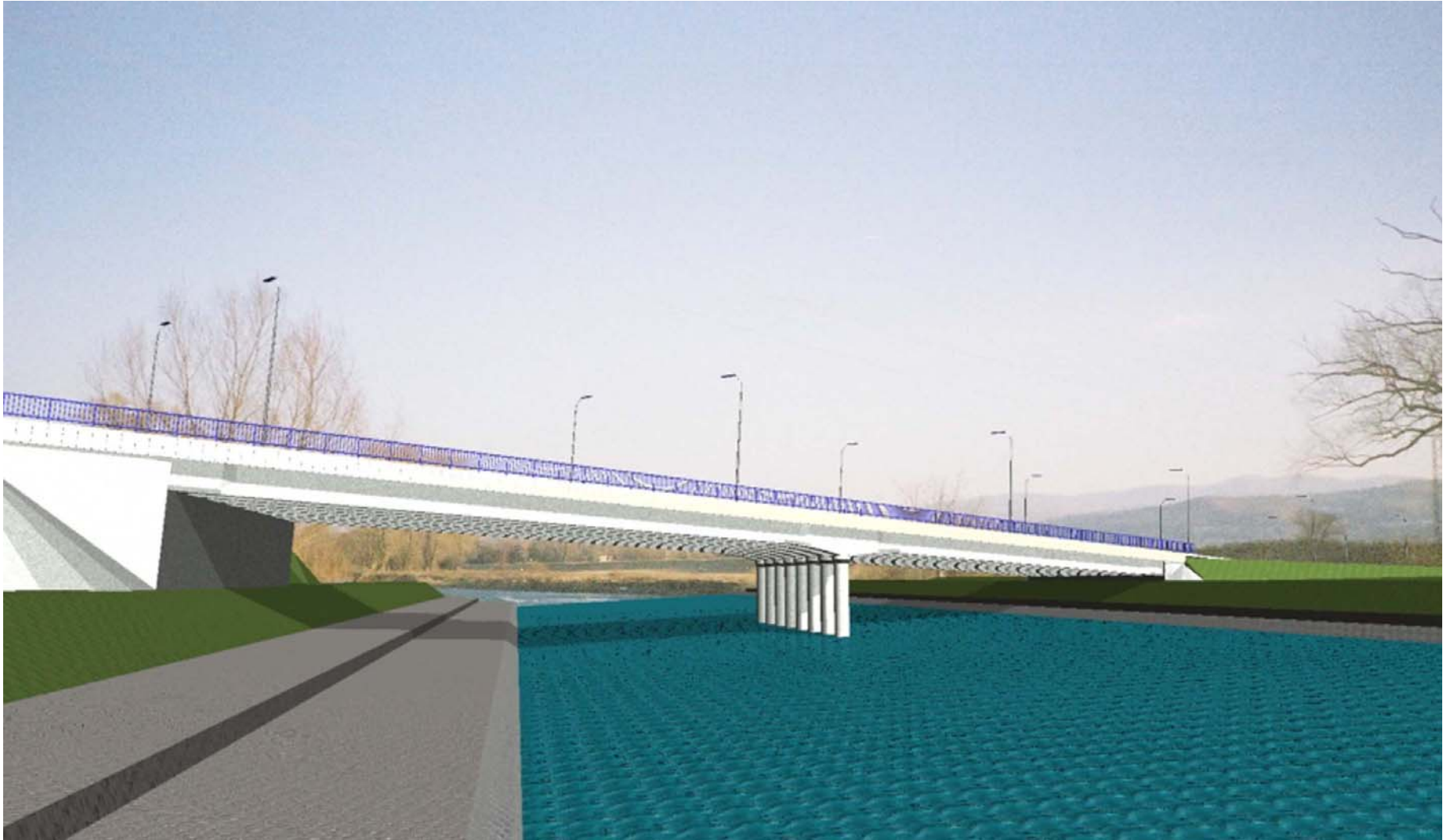


Designed stage building with precast elements

view of completed structure



A variant of design solution:
second prize winning solution



A variant of design solution:
second prize winning solution

