

TP 30, a bridge in design and build



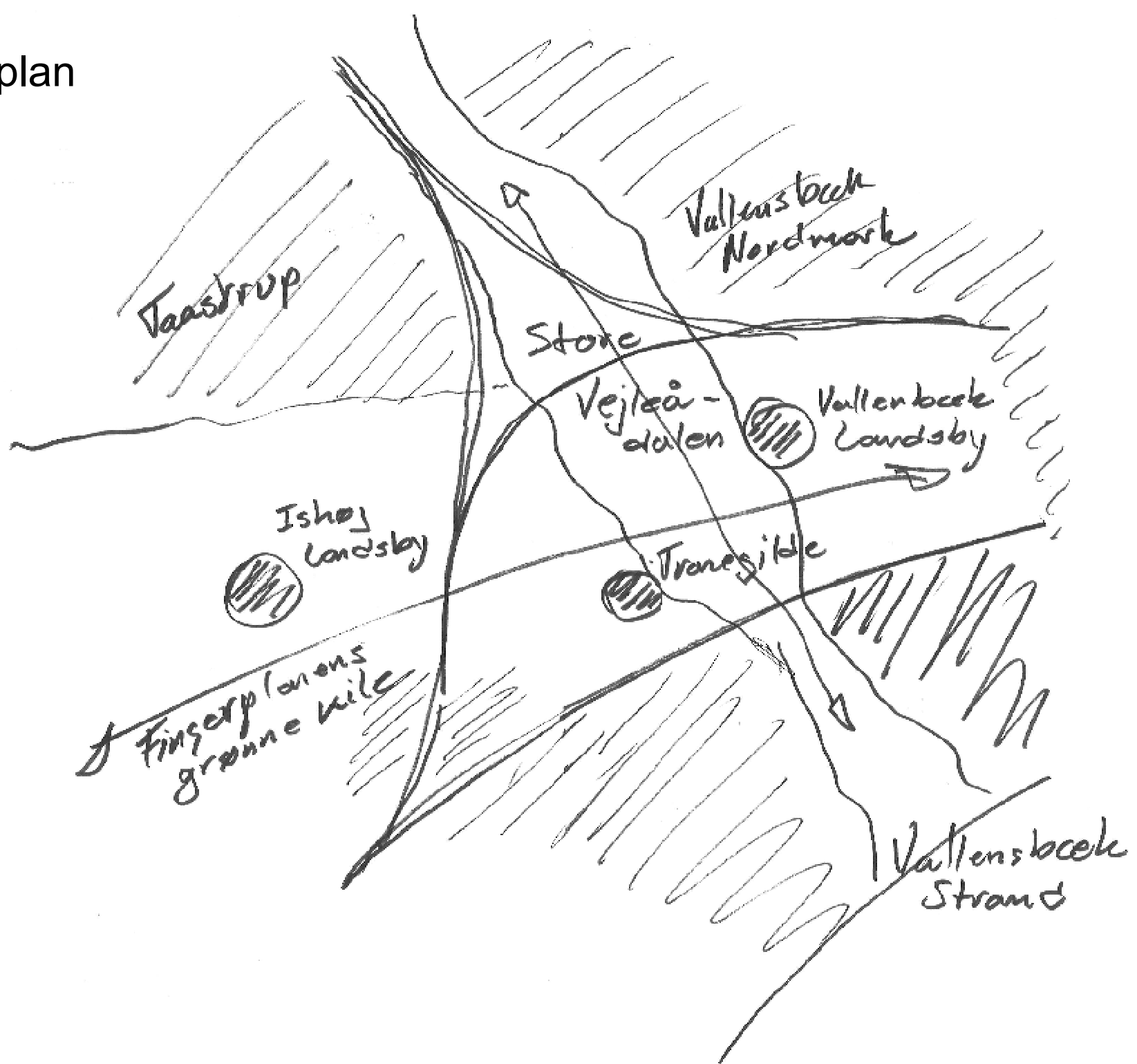
ISC
Innovative Engineering

Krilov
ARKITEKTER

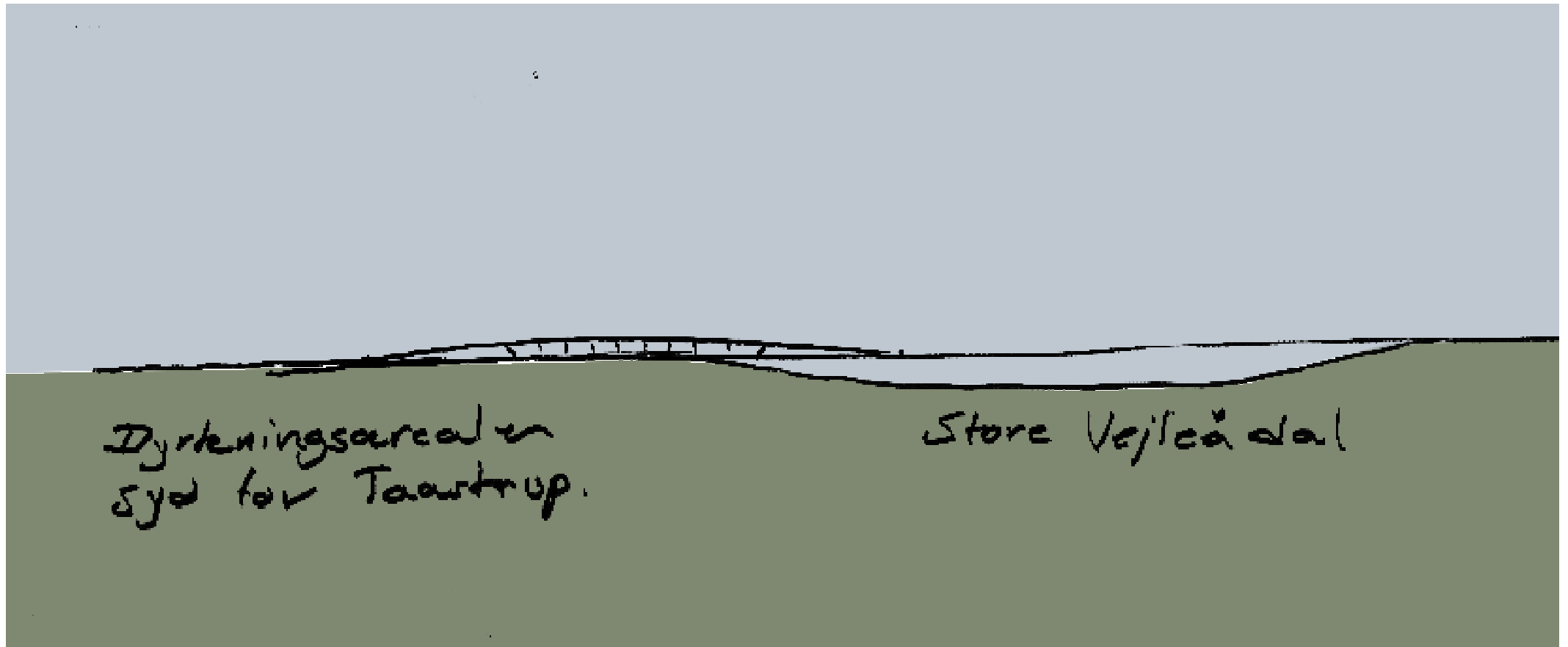


The context

The siteplan



The site section

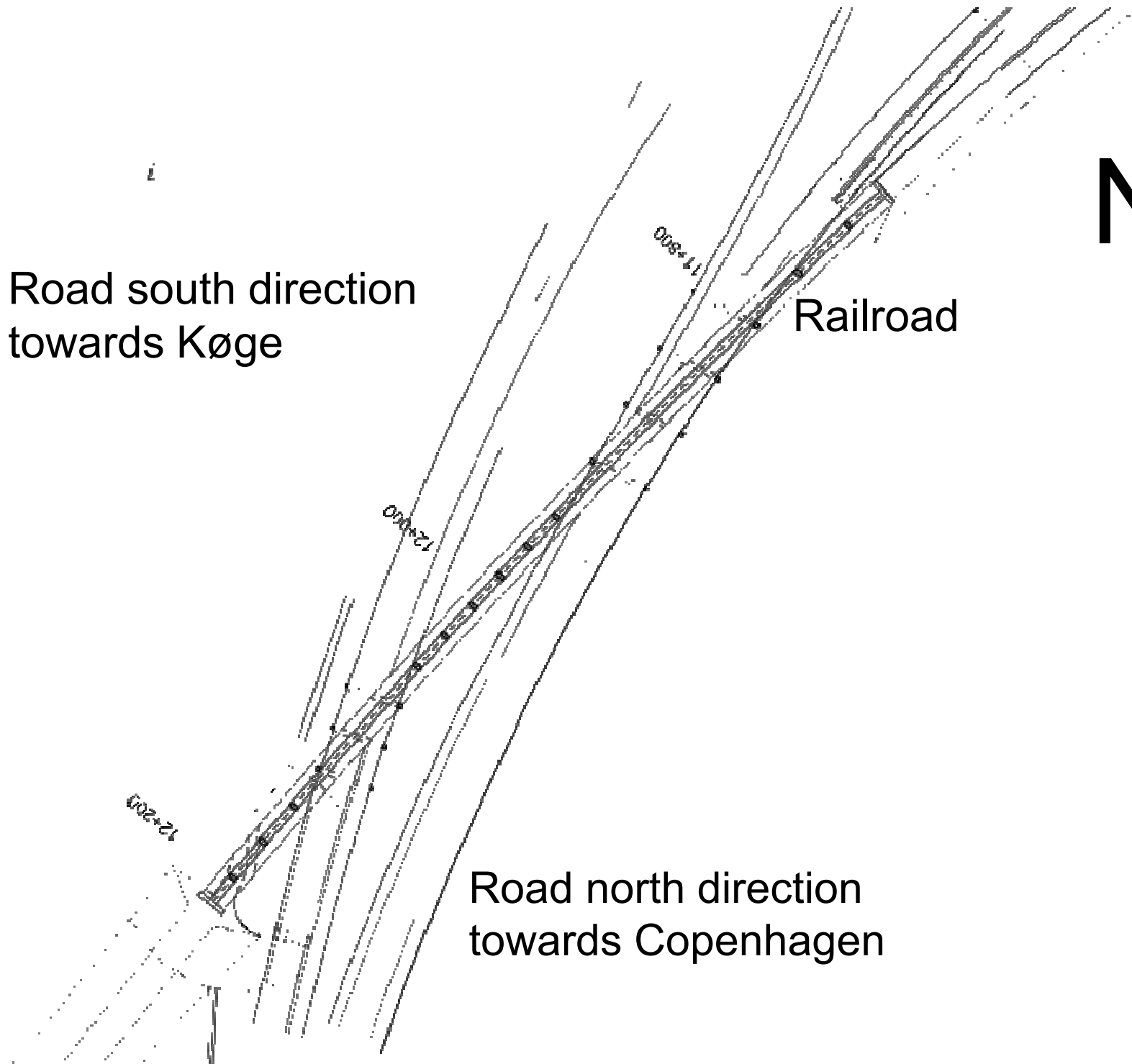




The basic limits
and boundaries

S

Road south direction
towards Køge



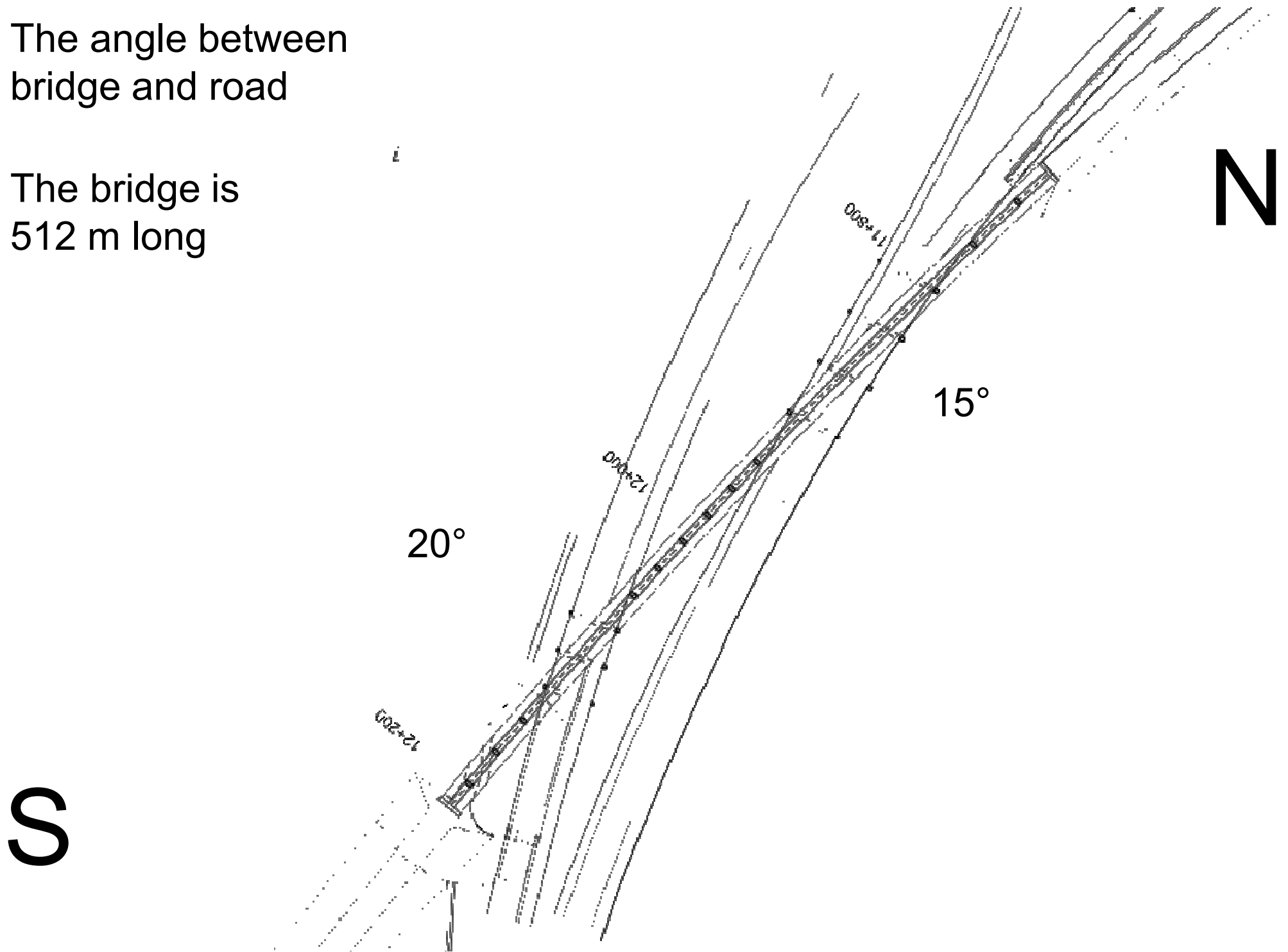
Railroad

Road north direction
towards Copenhagen

N

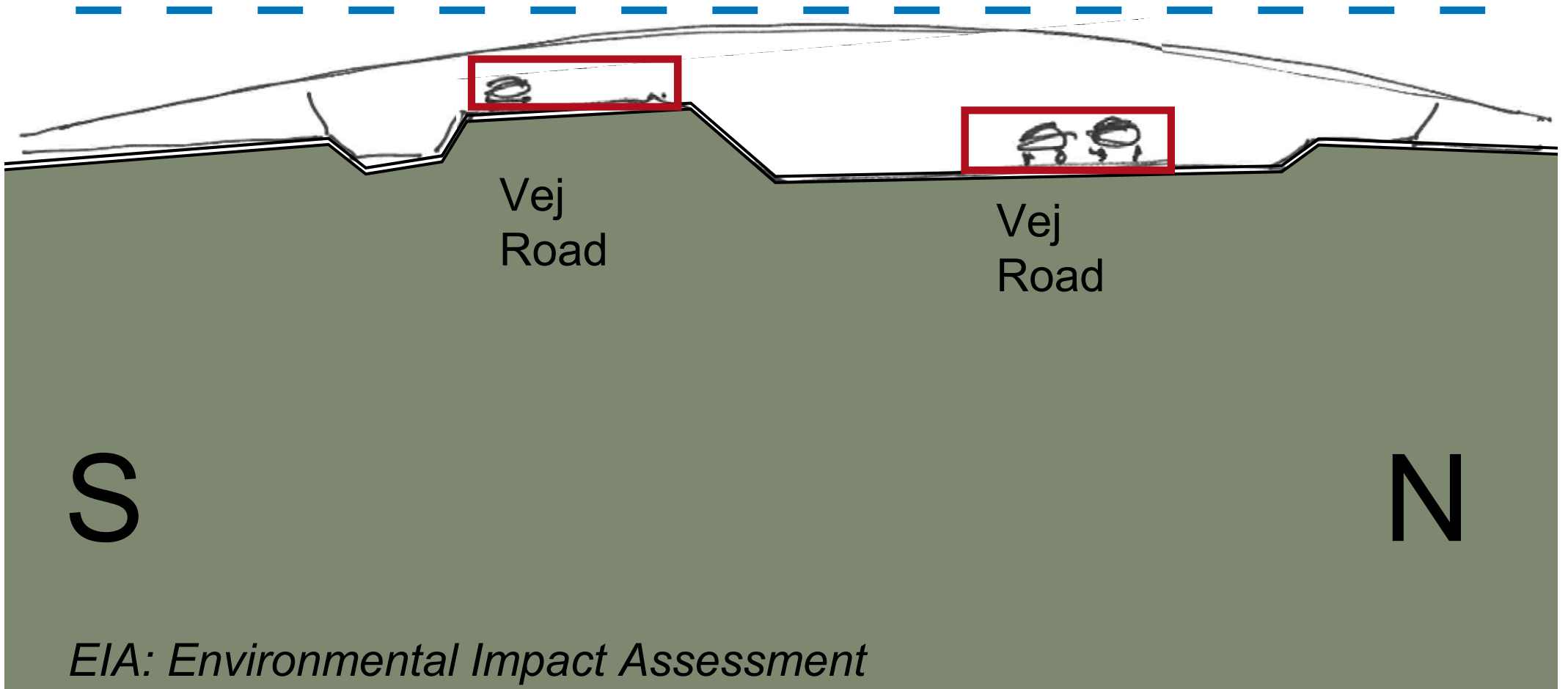
The angle between
bridge and road

The bridge is
512 m long



Fritrum motorvej
Limited traffic space

VVM begrænsning
EIA vertical limit

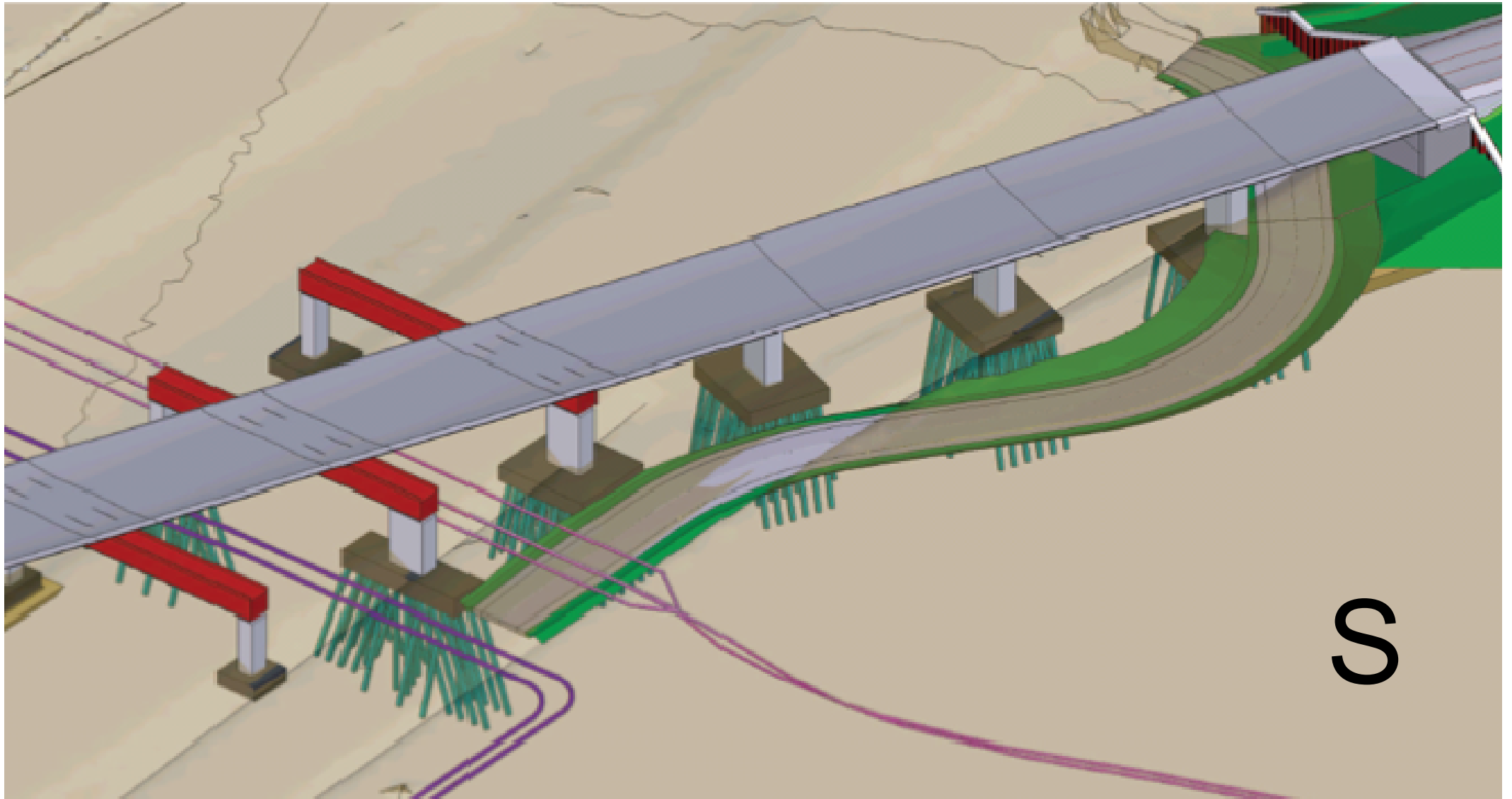


S

N

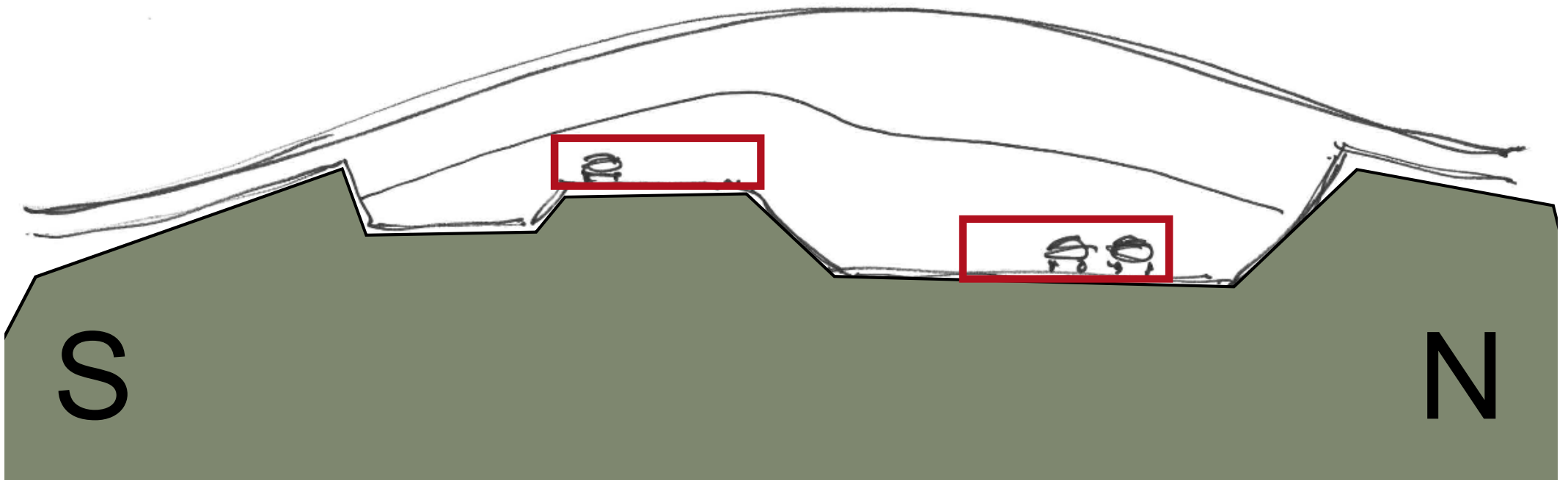
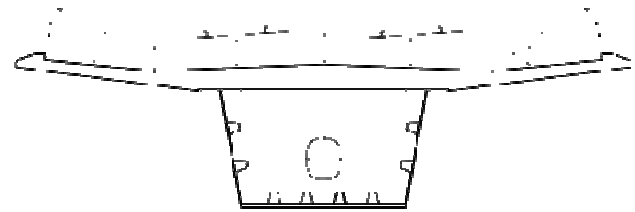
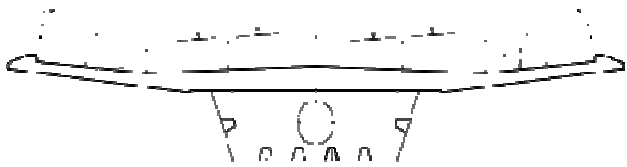
EIA: Environmental Impact Assessment

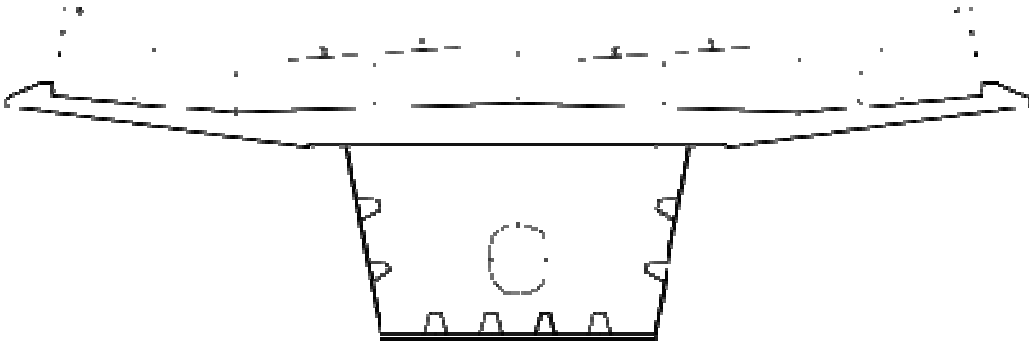
Utilities passing the construction site



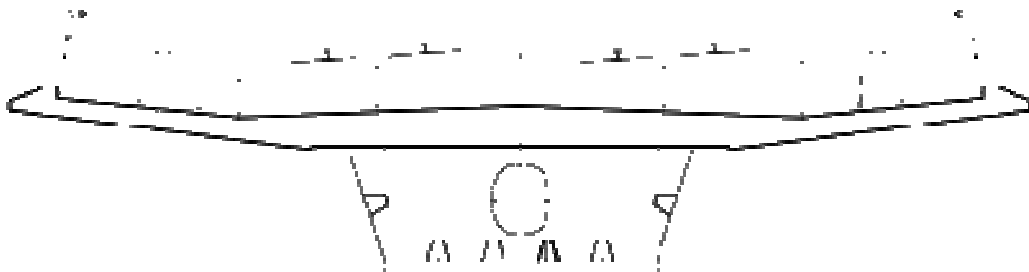
Geometry







N

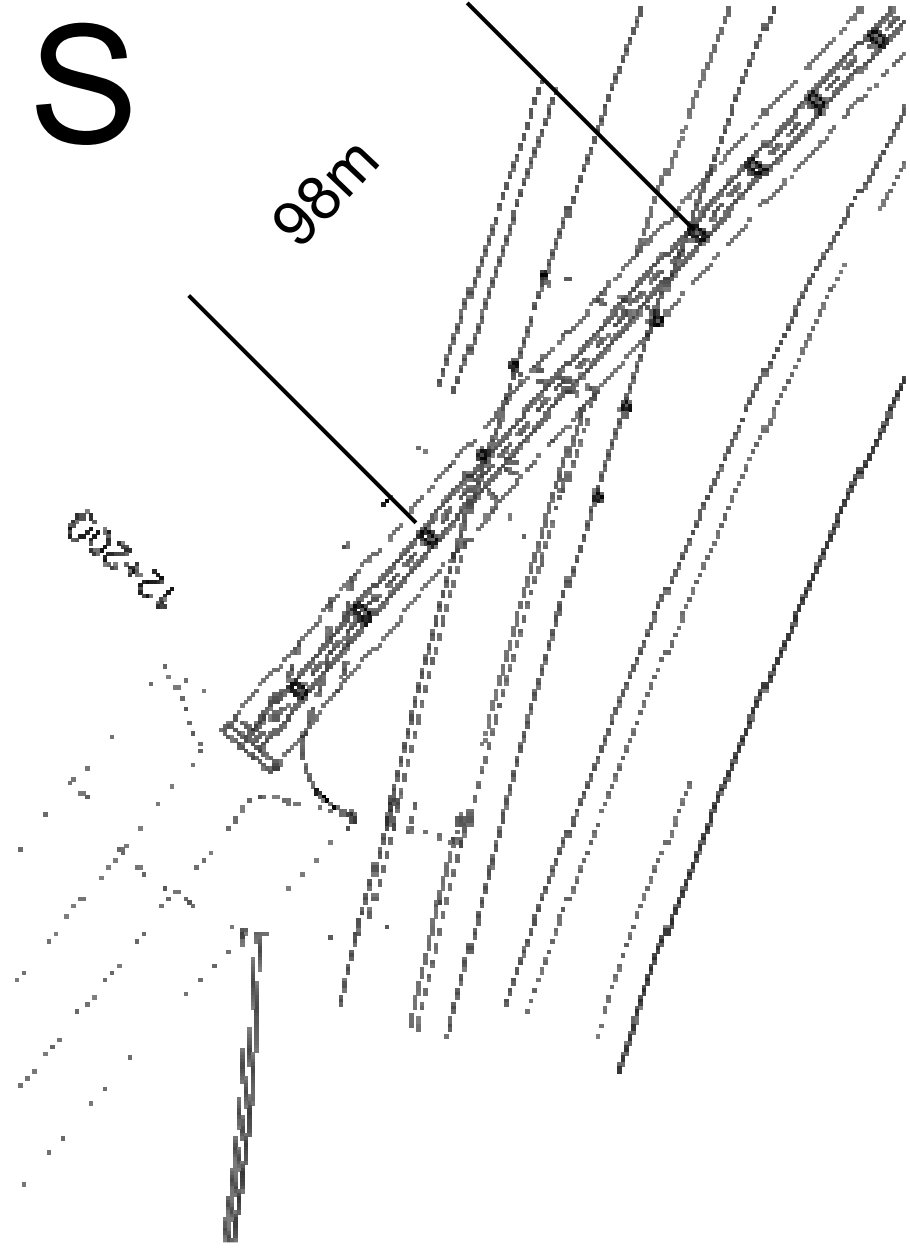


S

S

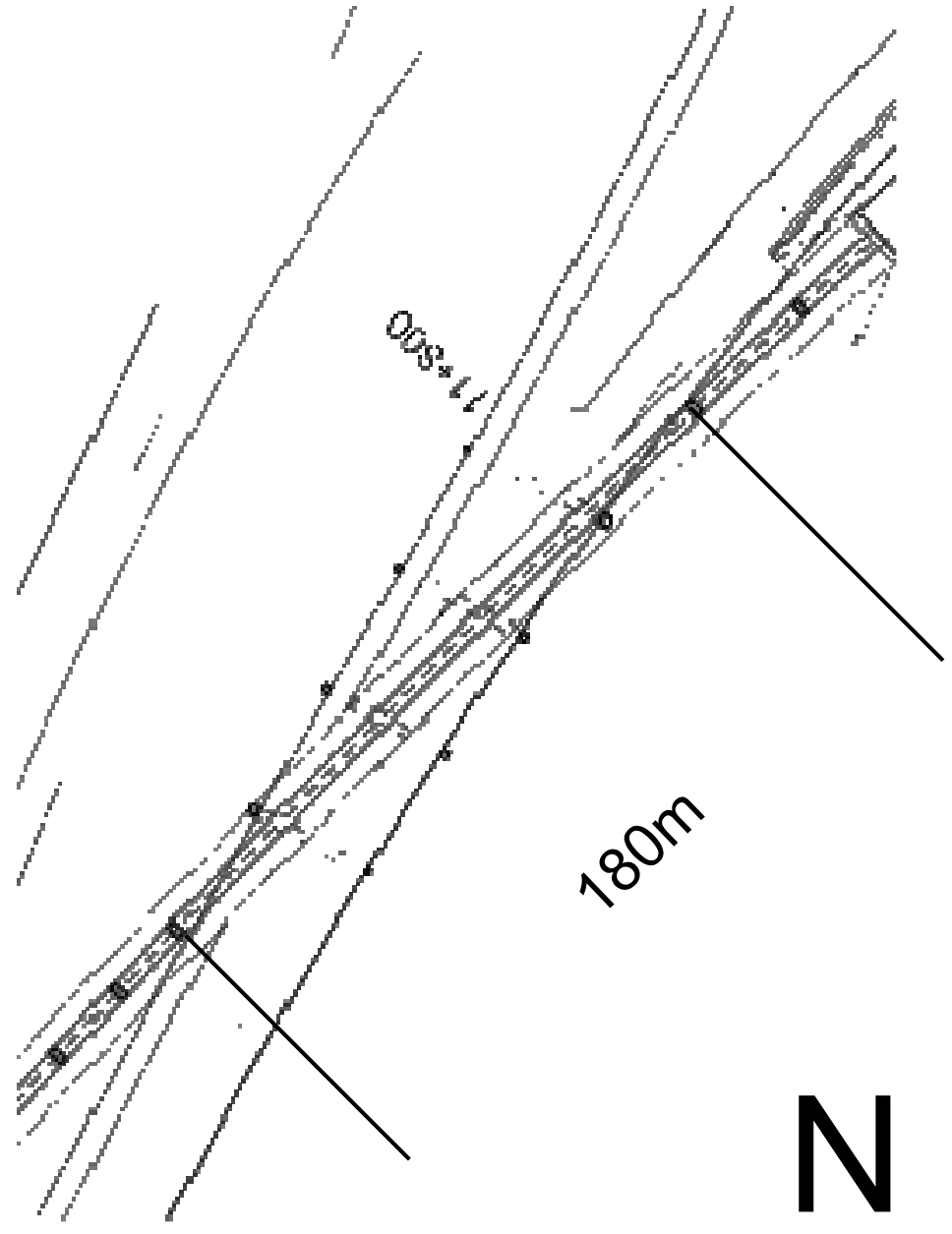
98m

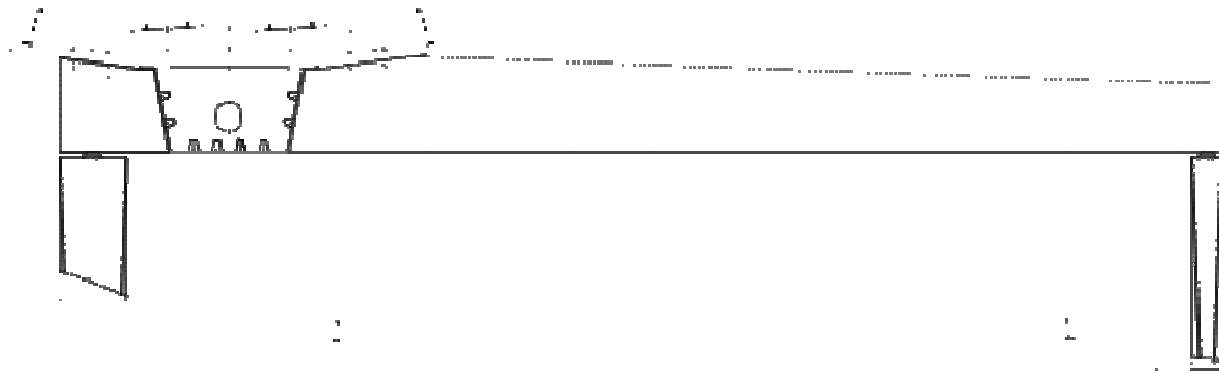
GDS+24

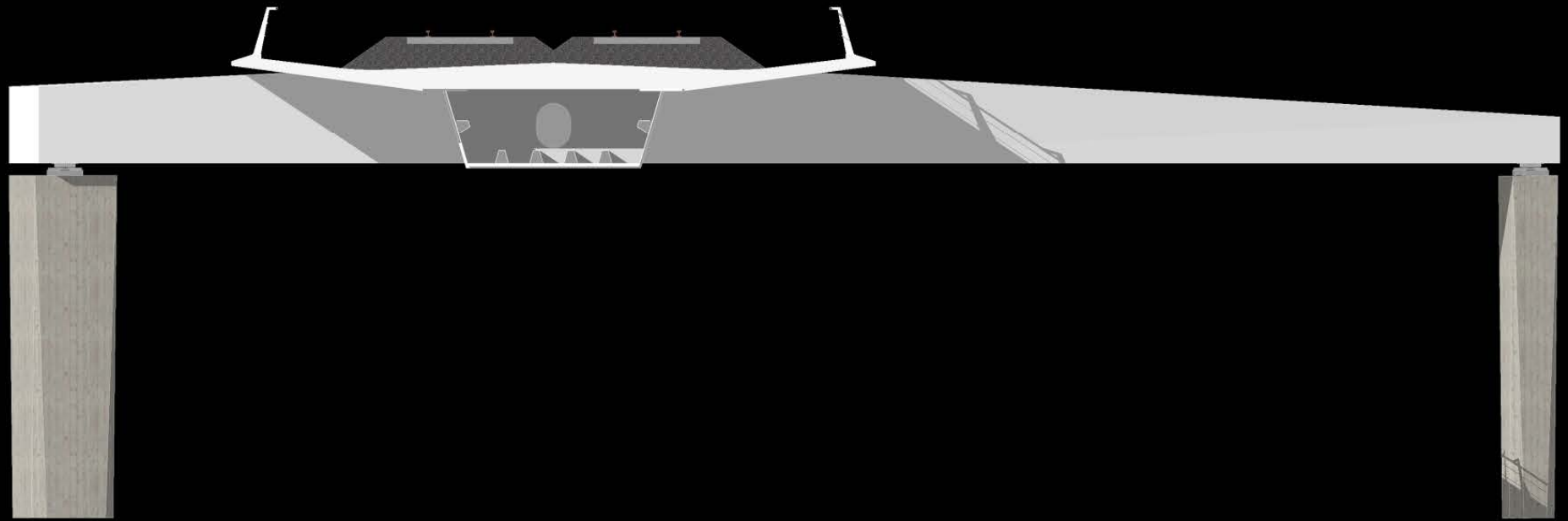


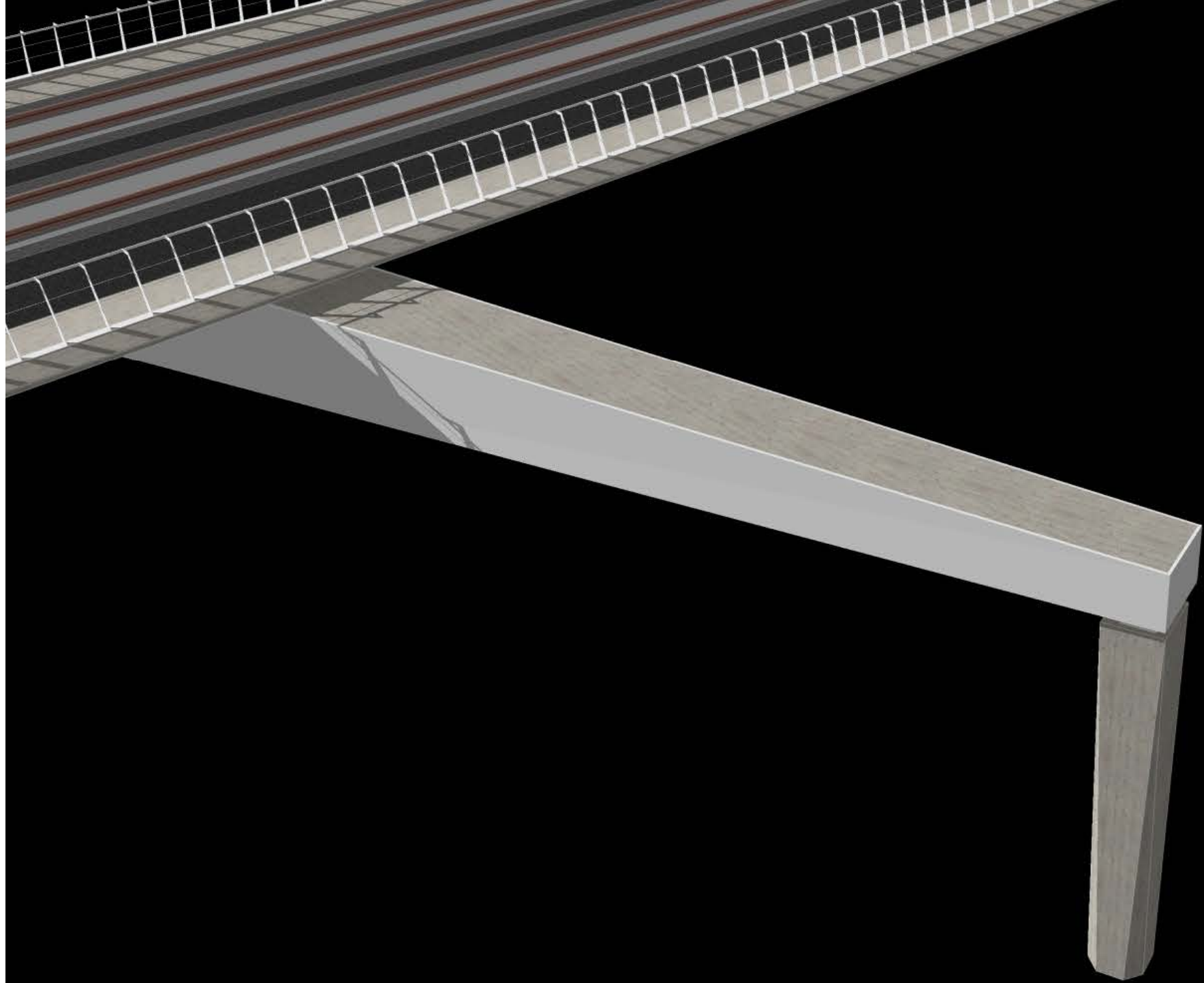
GDS+11

180m

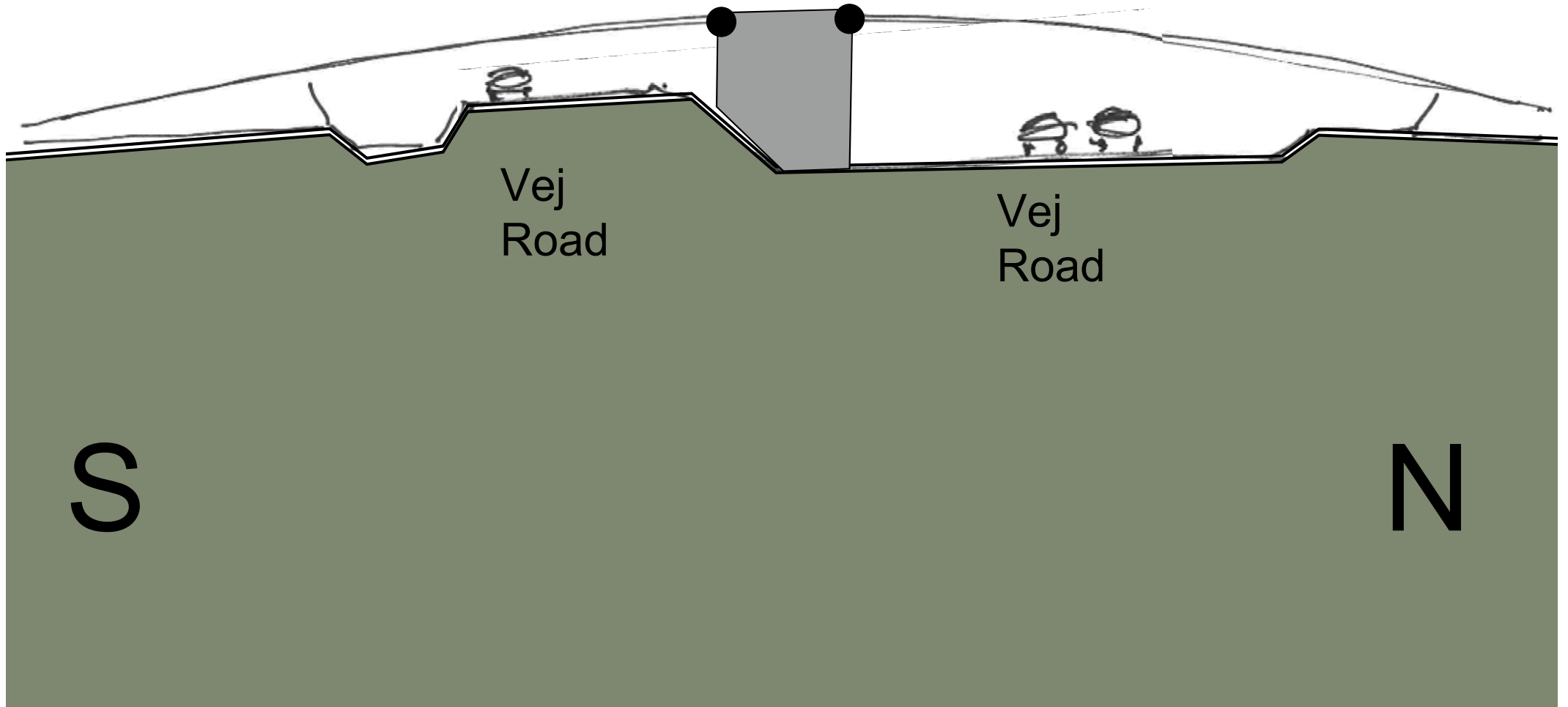








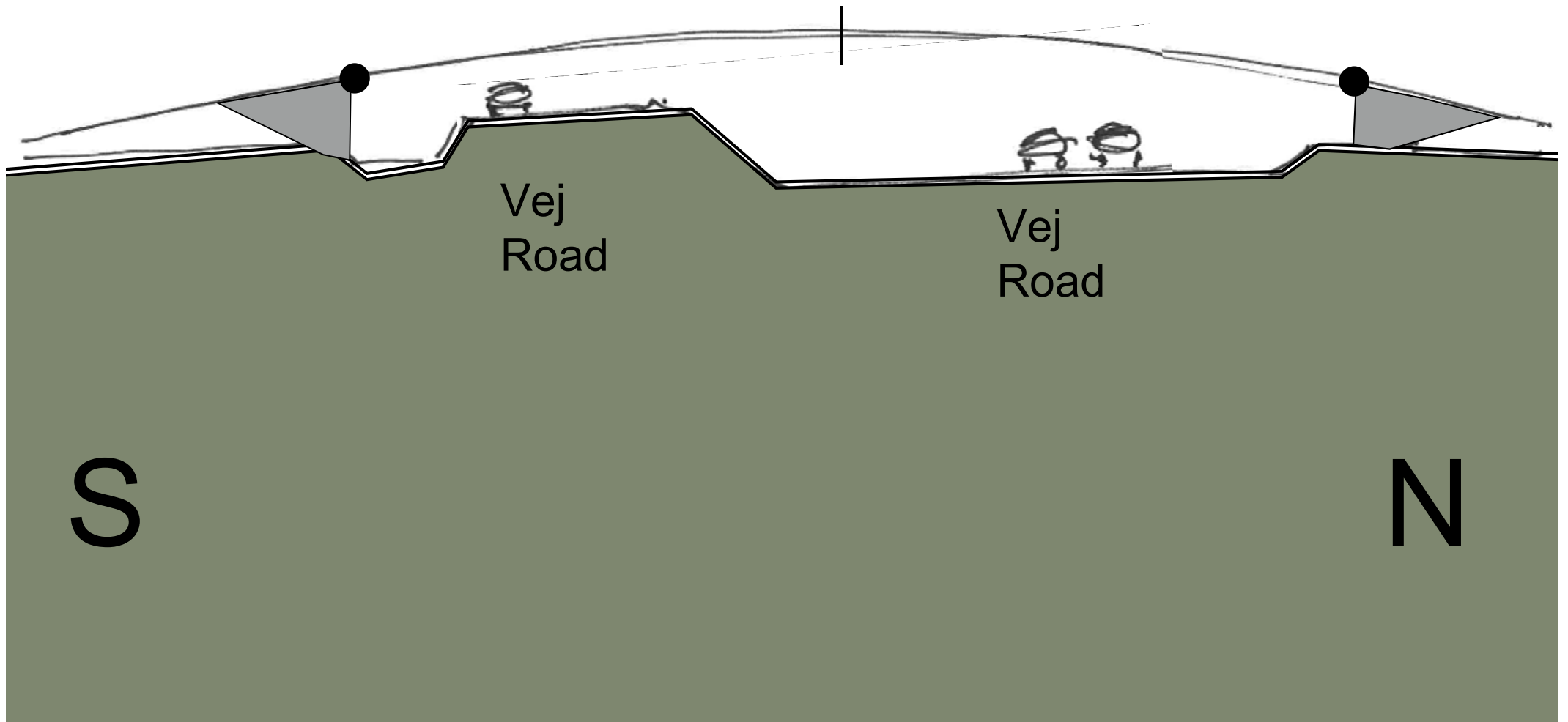
Two bridges anchor point
in the middle, expansion
joint at both ends





Kassel
Kassel Airport

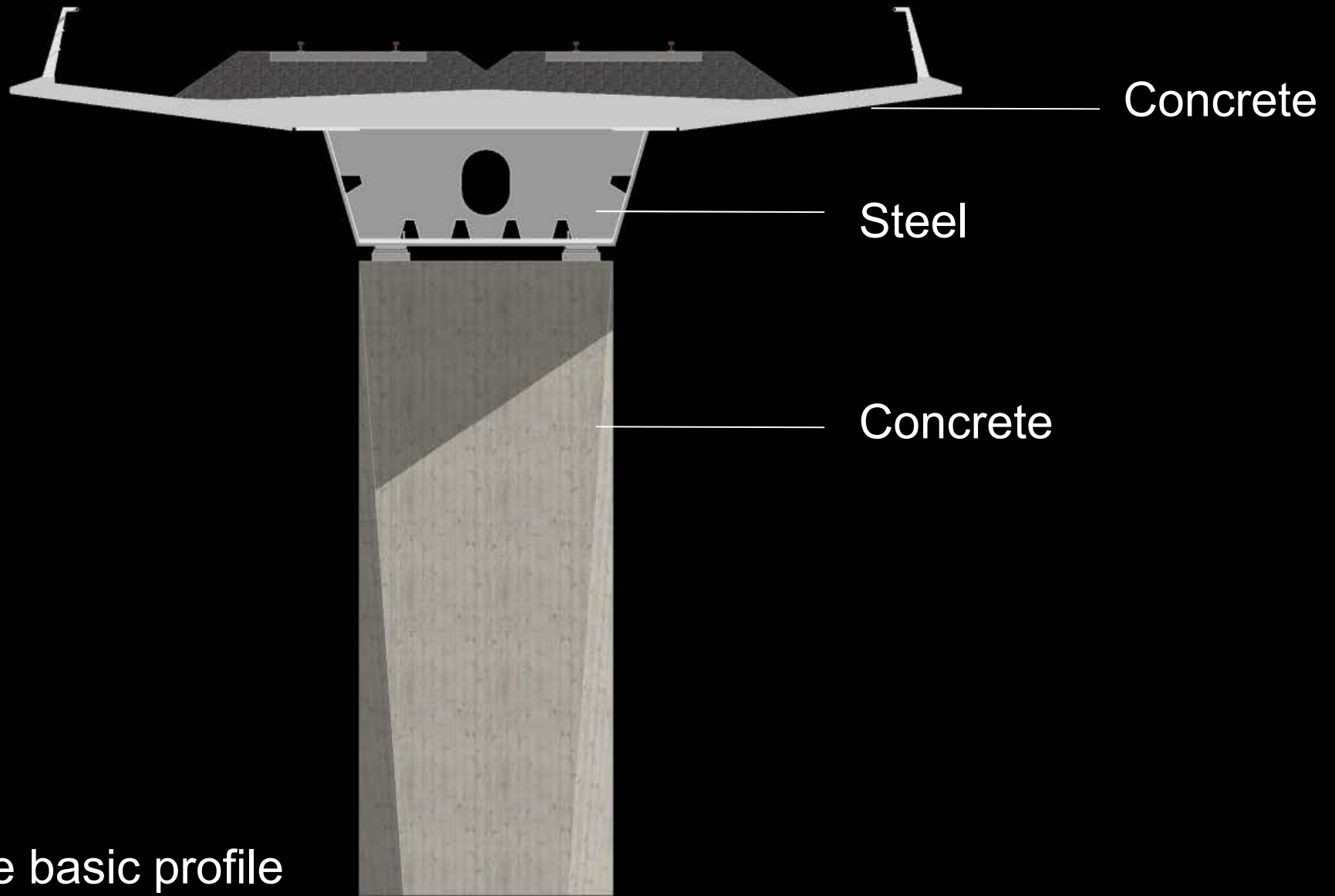
Two bridges anchor points in embankments, expansion joint in the middle





Composit bridge





The basic profile

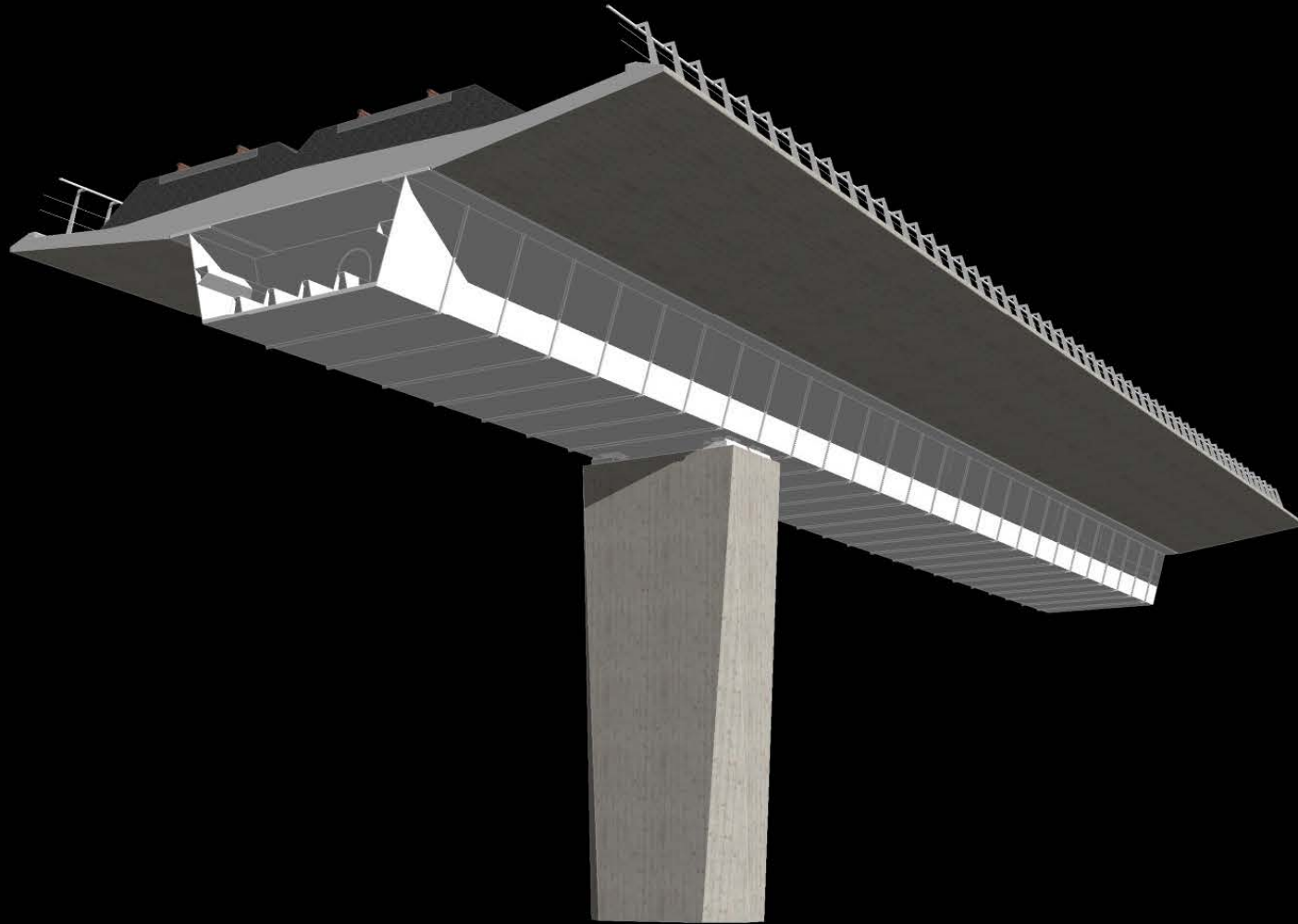


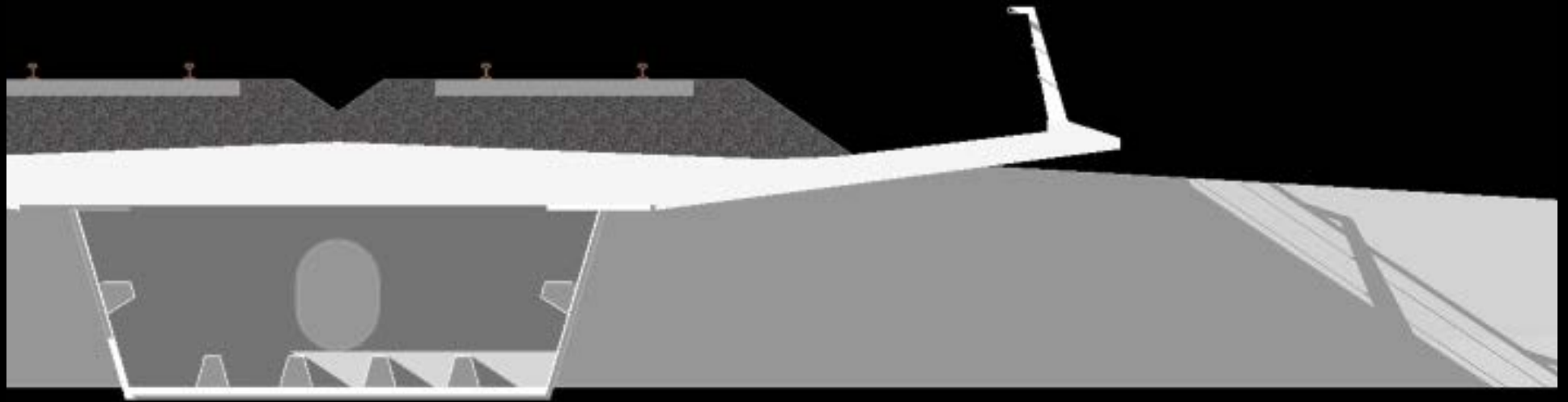


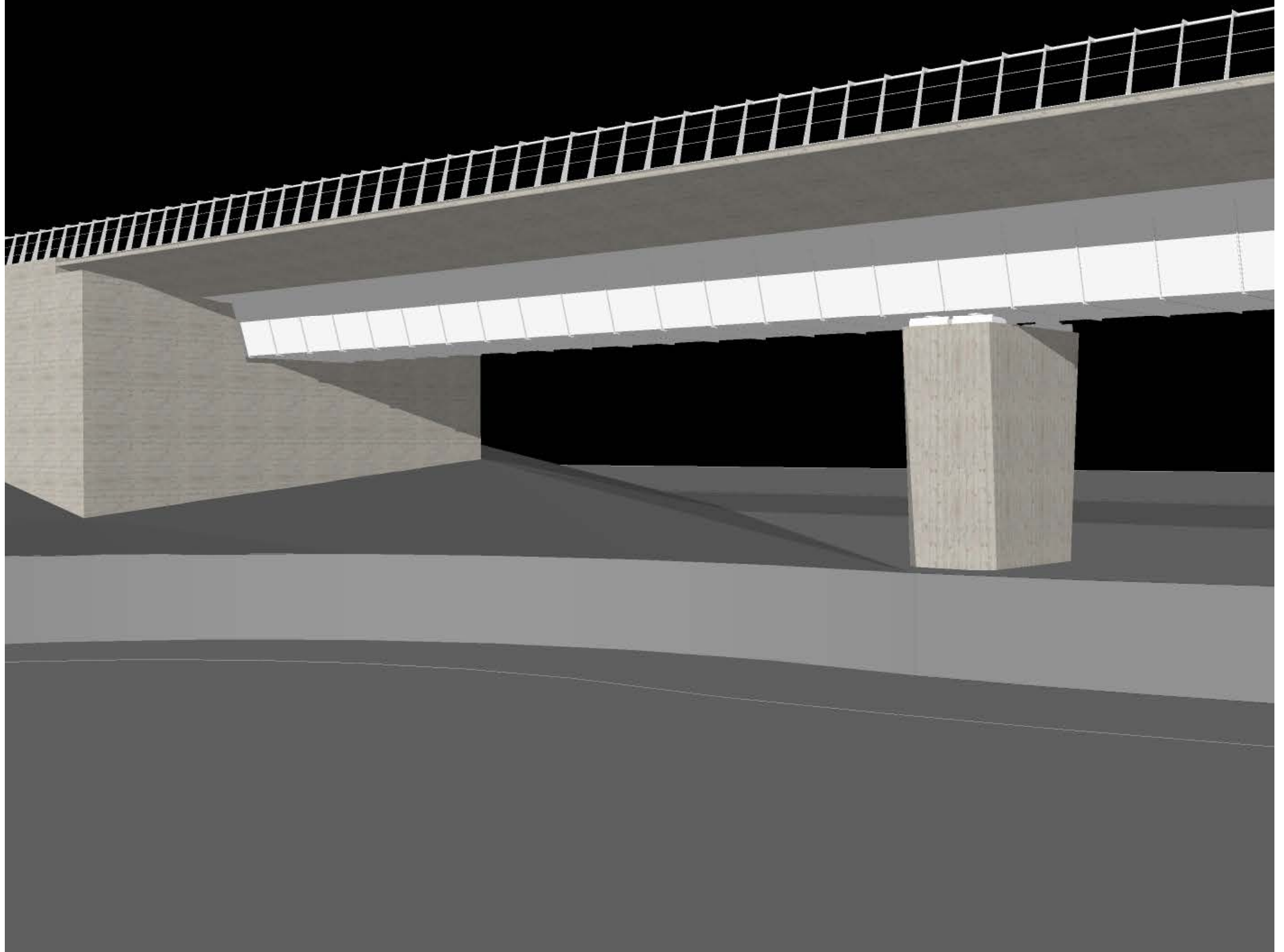
**Banedanmark
Barslund
CG Jensen
ISC
Krilov (CORE)**



The details











East Island Bridge

Forklaring

Element 1



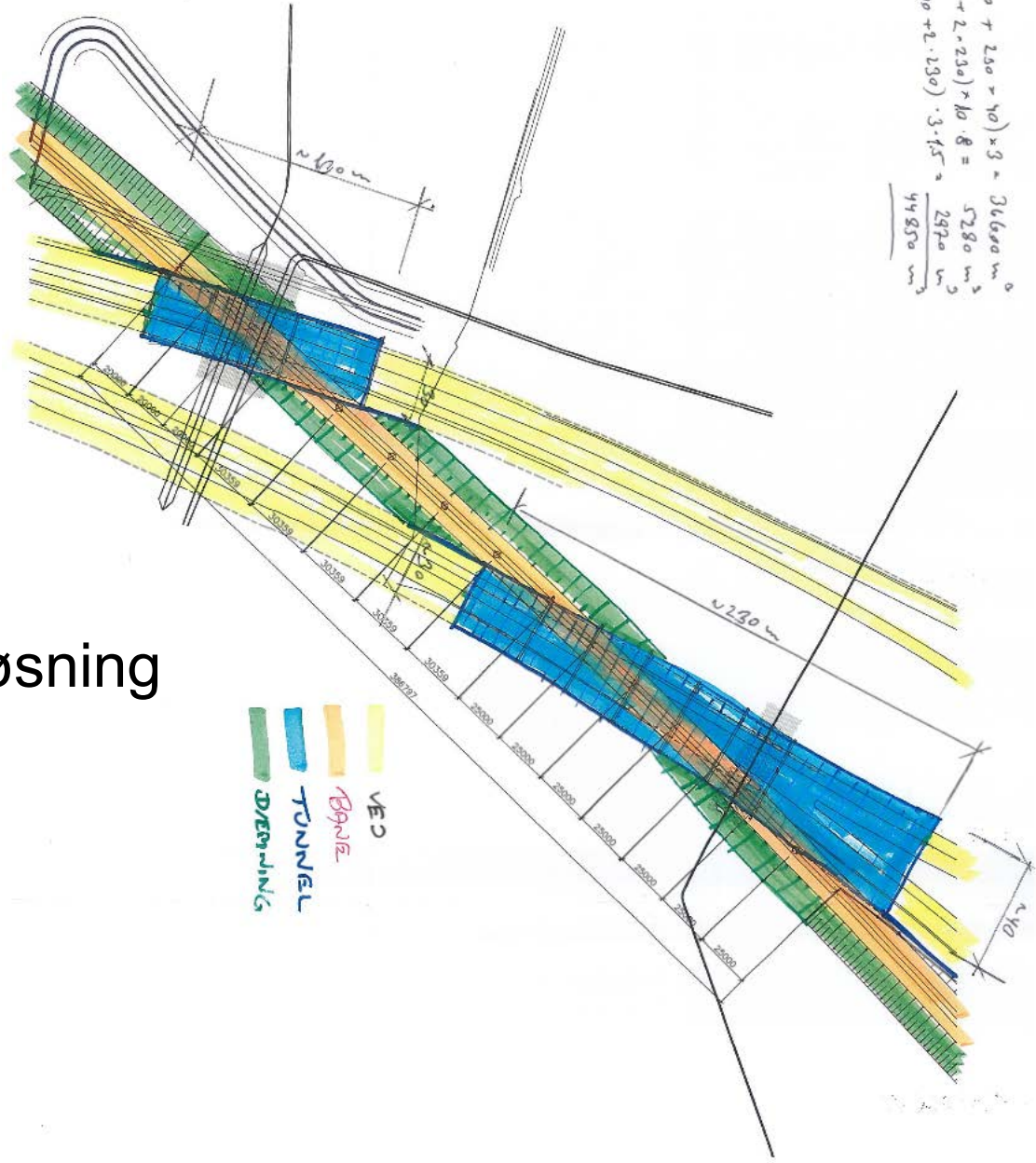
Google Earth

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50 m

TUNNEL:
 TRG: $\approx (30+100 + 250 + 10) \times 3 = 36600 \text{ m}^3$
 VEGG: $\approx (2+100 + 2+250) \times 10 \cdot 8 = 5280 \text{ m}^3$
 FURNING: $(2 \times 100 + 2 \times 250) \cdot 3 \cdot 15 = 2970 \text{ m}^3$
44850 m³

8000 kg/m³
 ↓
 358 mill.
 ↓
 +2000
 ↓
 400 mill.



- Tunnel løsning