



Södra Marieholmsbron

Brodag 04-04-2017
Andreas Lundsteen

 MTHøjgaard

Södra Marieholmsbron

- En del af Marieholmsforbindelsen

Centrale Gothenburg

Hisingen

Marieholmtunneln

Södra Marieholmsbron

 Samfinansieret av EU
Transeuropeiska transportnätet (TEN-T)

Marieho



Marieholmsbron

Marieholsprojektet

Älvsborgsbron



Marieholsbron

Marieholsprojektet

Älvsborgsbron

Hisingsbron 2021

Marieholsbron

Marieholmsprojektet

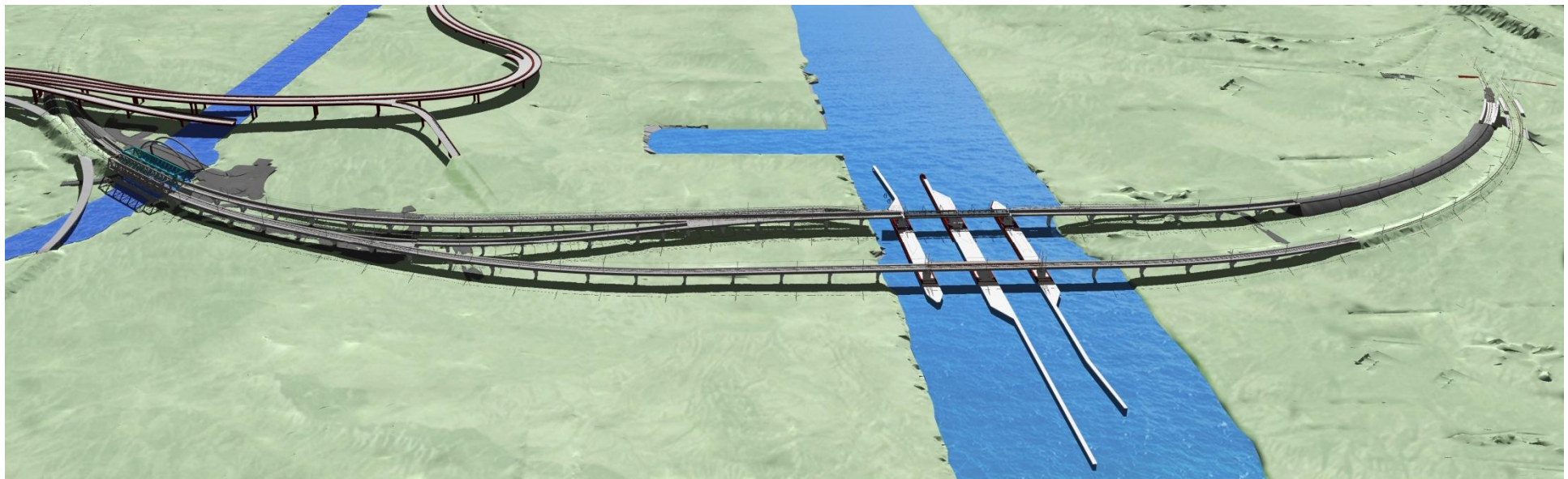
Älvsborgsbron

Götaälvbron

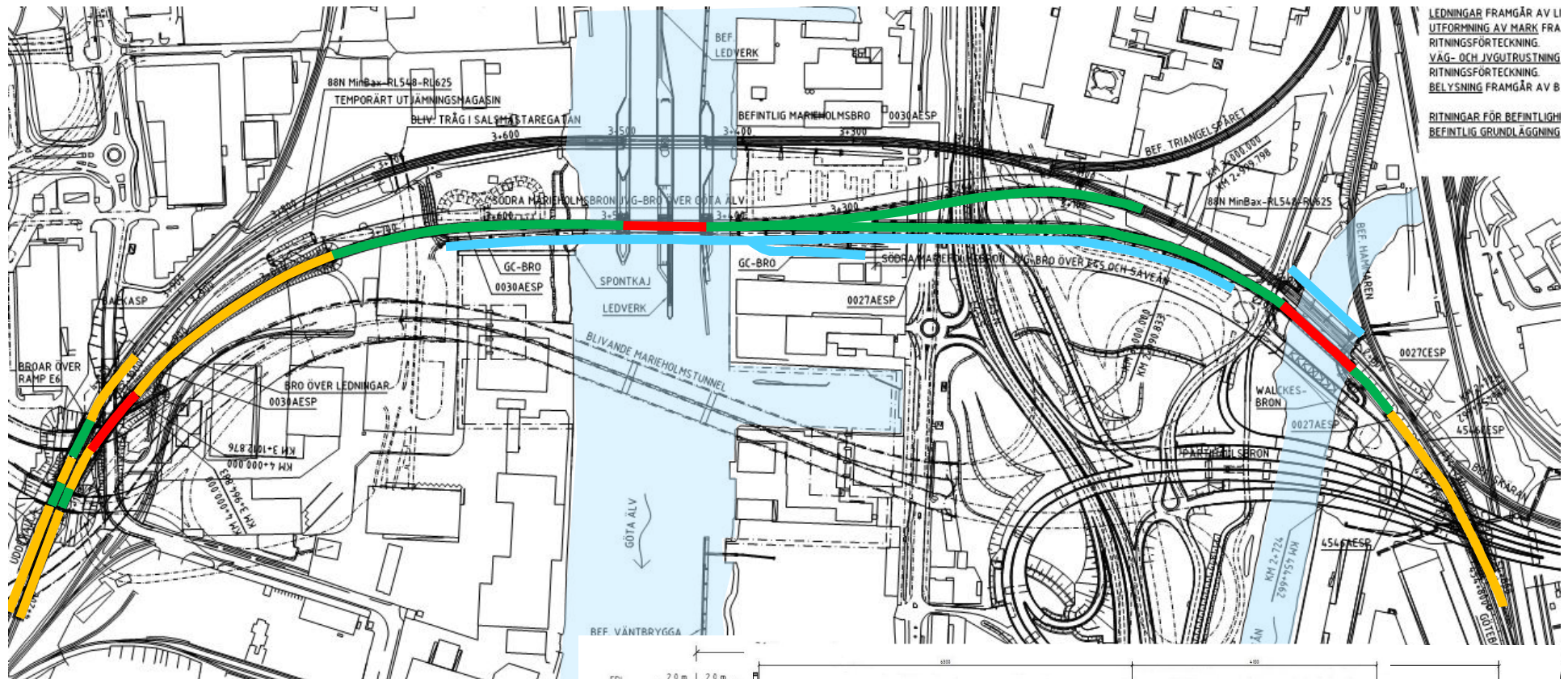


Projektinformation

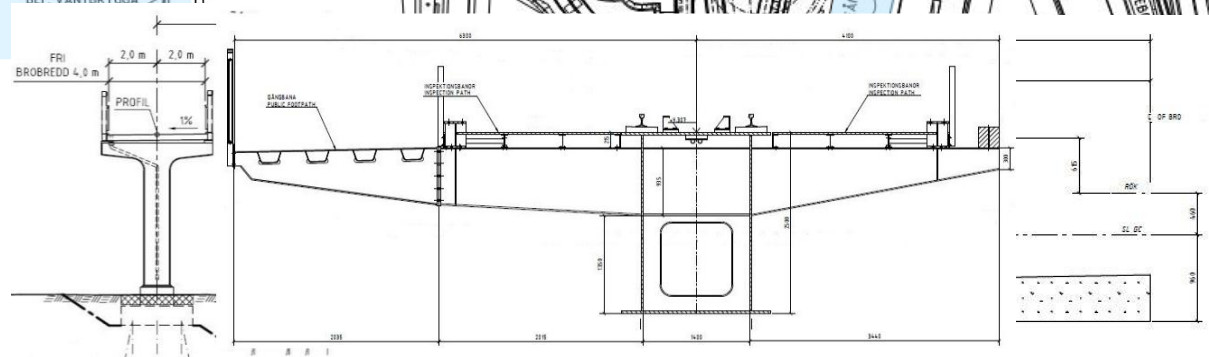
- Bygherre  TRAFIKVERKET
- Entreprenør JV   MTHøjgaard
- kontraktsum 790 600 000 SEK
- Kontraktsform Totalentreprise
- Udførelsesperiode Jan 2014 – May 2017
- Jernbane i drift 2016
- Samlet længde ca. 1,5 km (bro 969 m)



Oversigt



- Jernbanebro – beton
- Jernbanebro – stål
- Jernbane - dæmning
- Gang- og cykelbro – stål



2015-
04-15

Rådgivere

SKANSKA

(Beton, geoteknik)

 **MTHøjgaard**

(Montage stålbroer)

COWI

(Stålbroer)

SWECO 

(Jernbaneteknik, **BEST**)

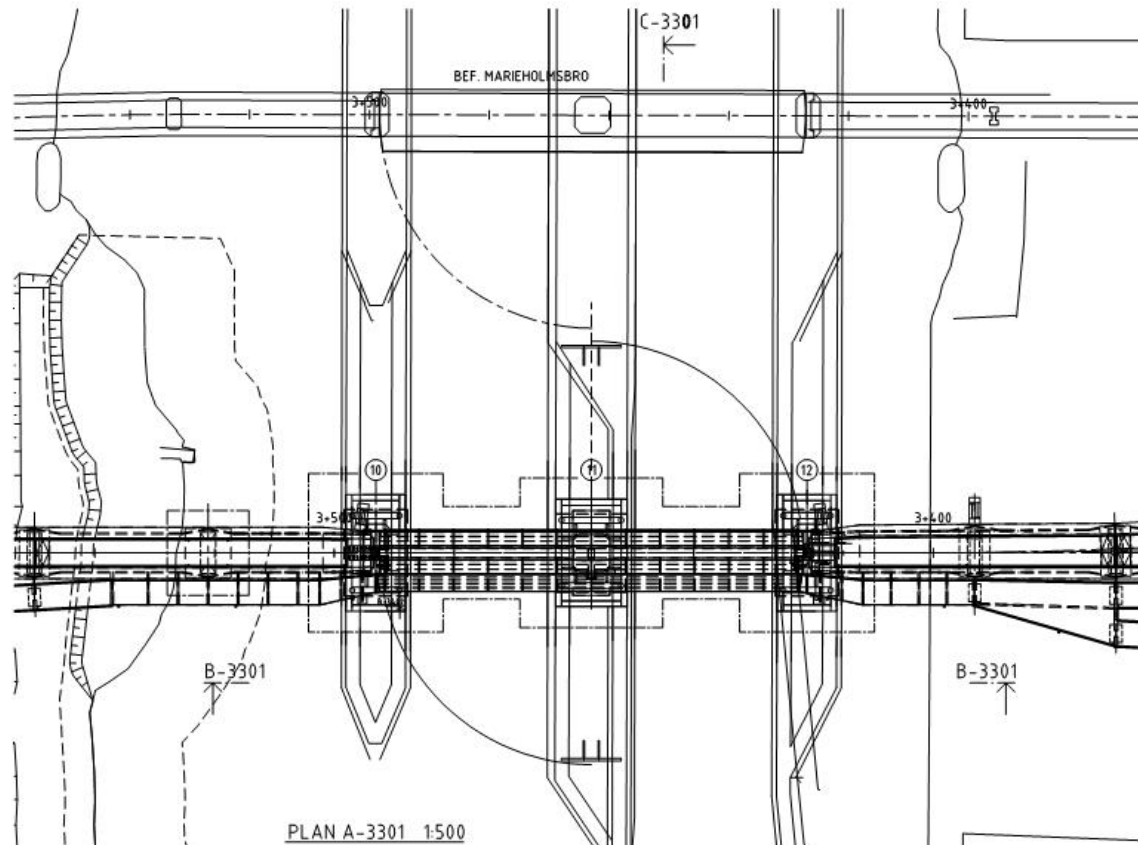
 **MOTALA VERKSTAD**

(Maskineri og hydraulik)

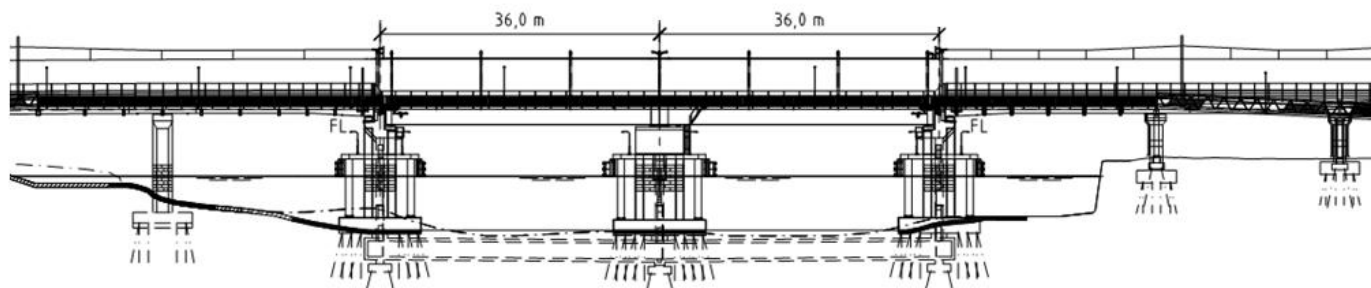
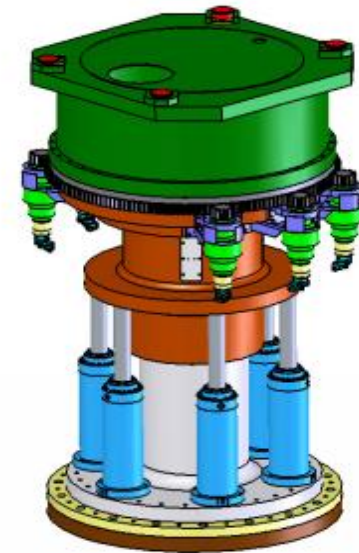
 **ACTEMIUM**

(Styresystem)

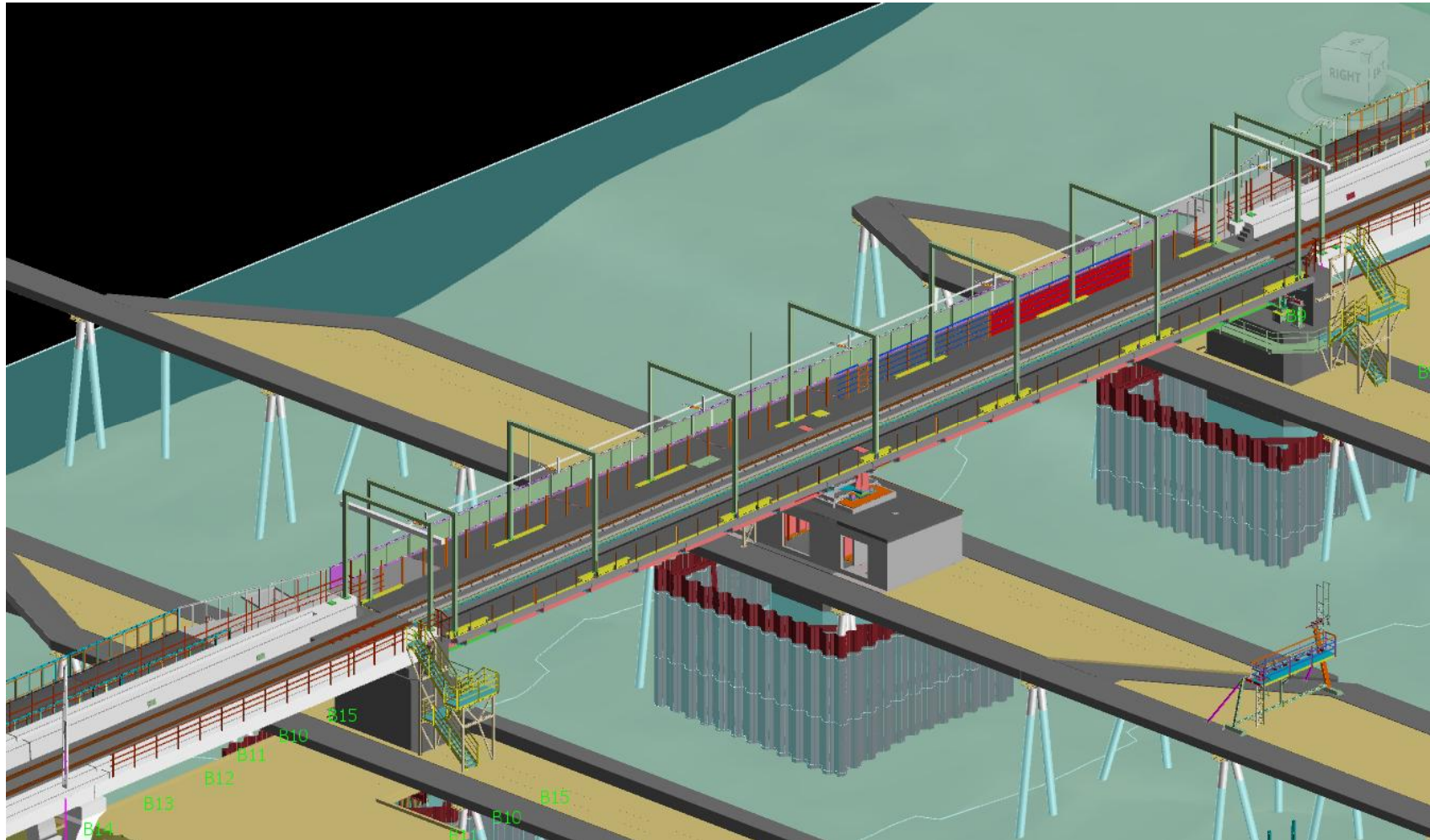
Svingbroen



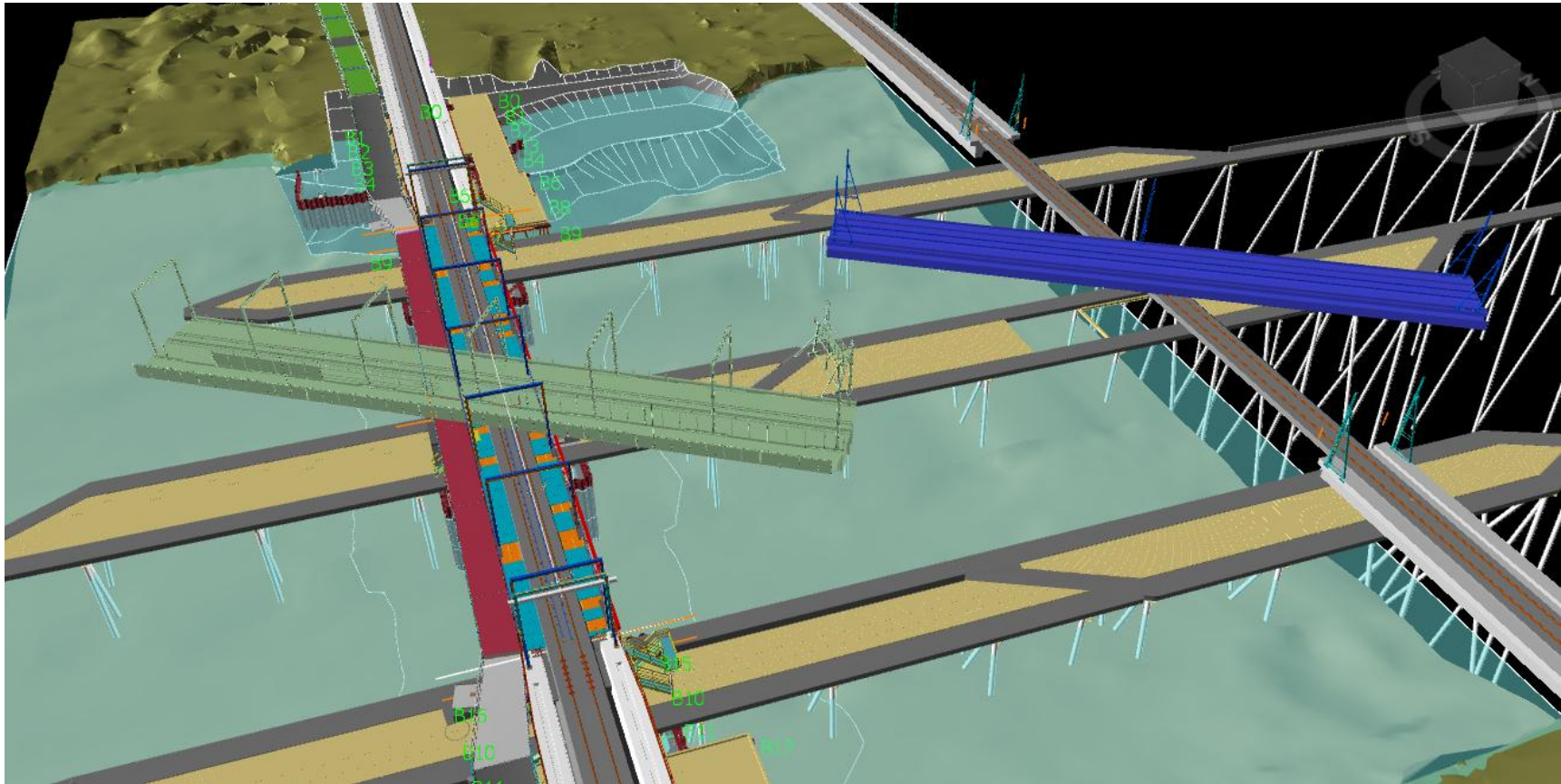
To fags kassedrager
Længde – 72m
Bredde – 10m
Vægt – 400tons



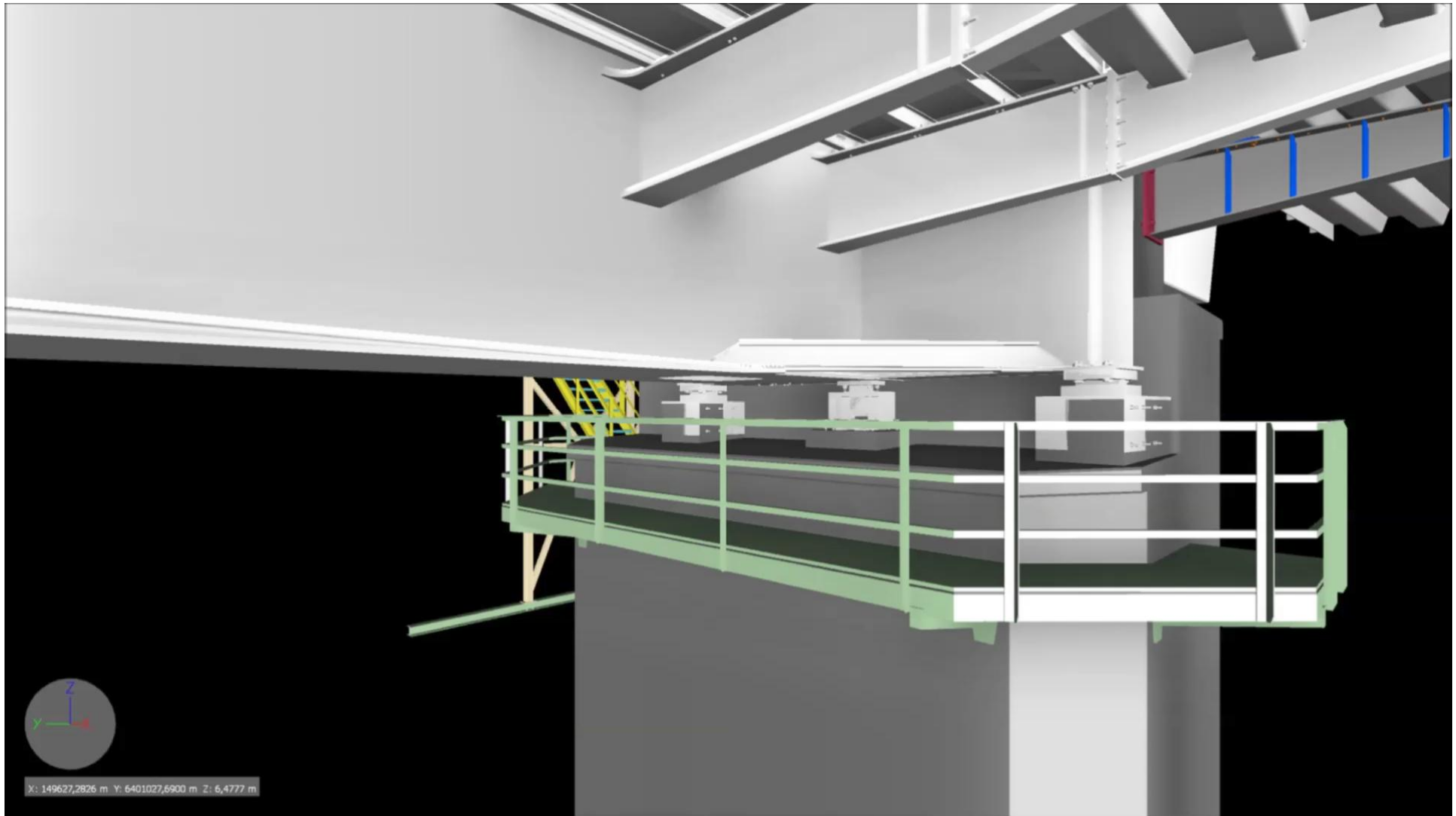
Svingbroen



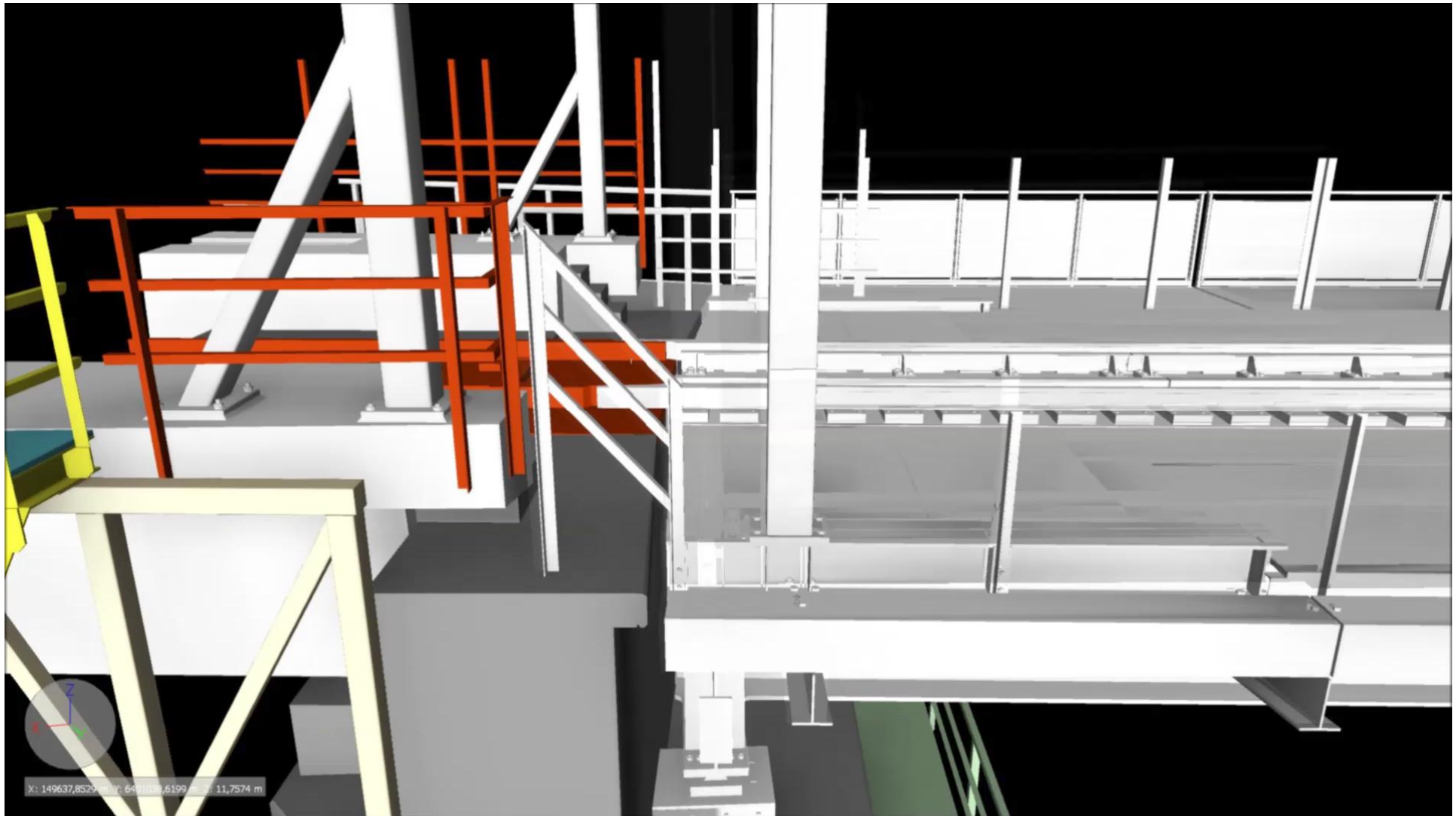
Animated clash detection



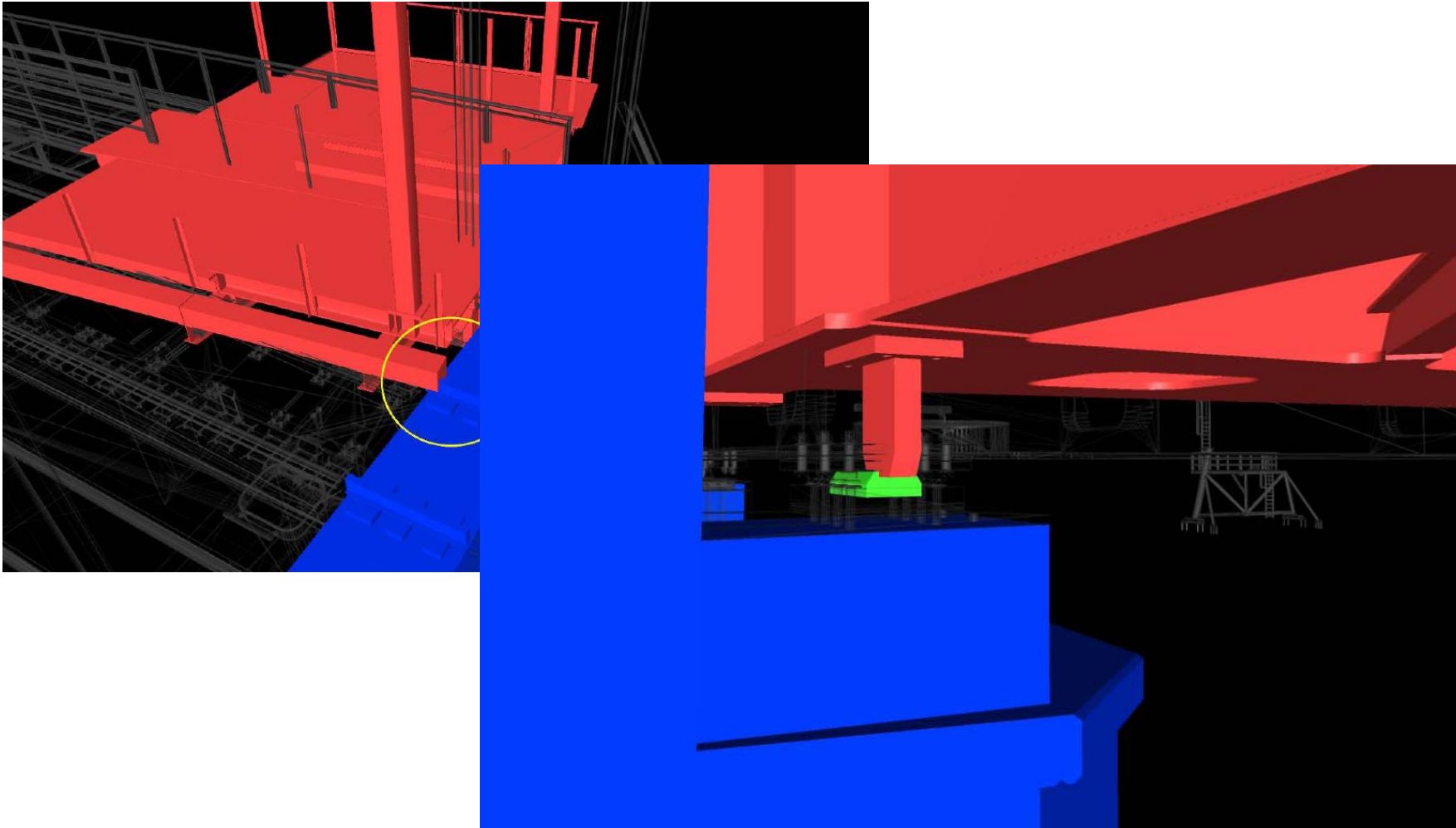
Animated clash detection



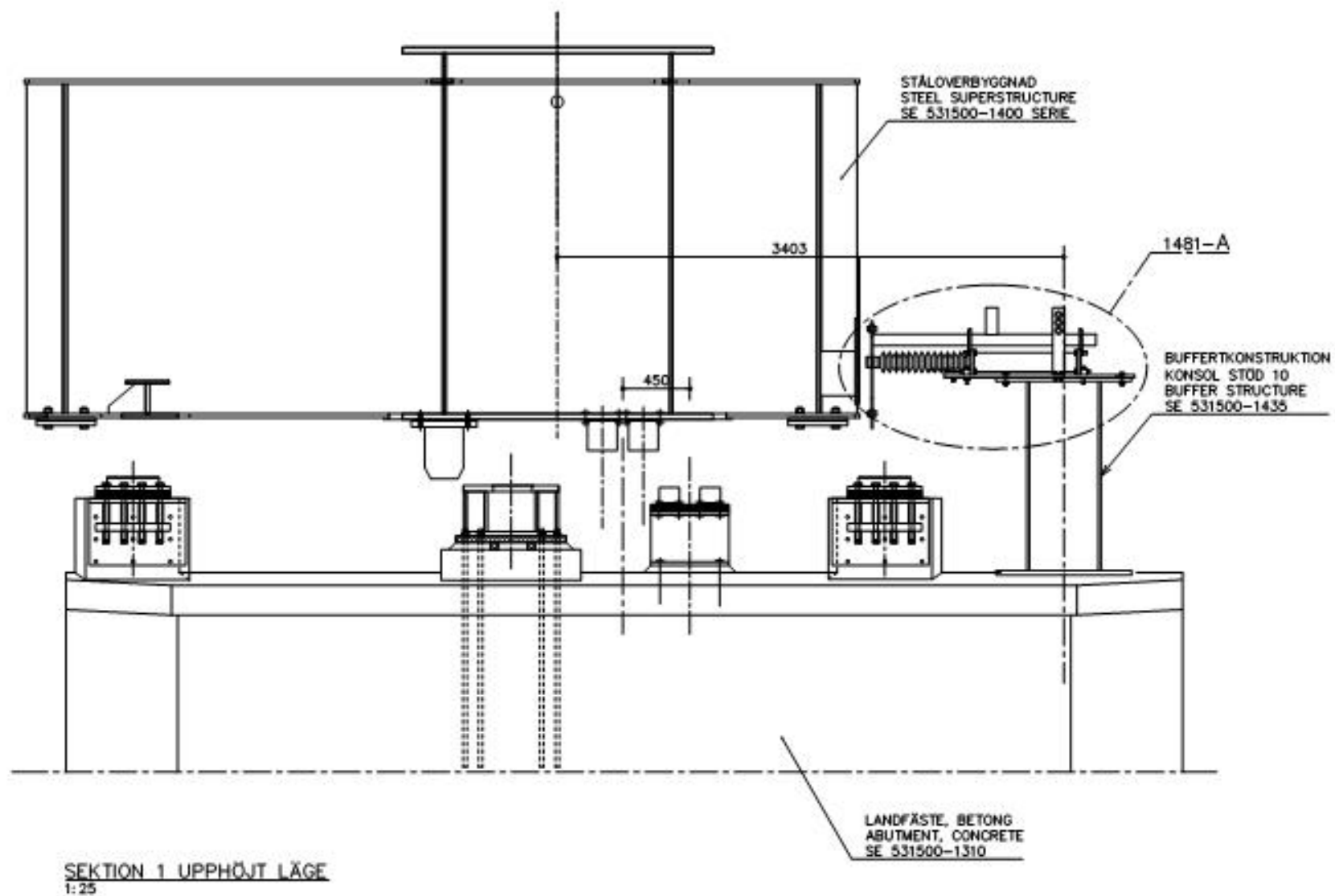
Animated clash detection



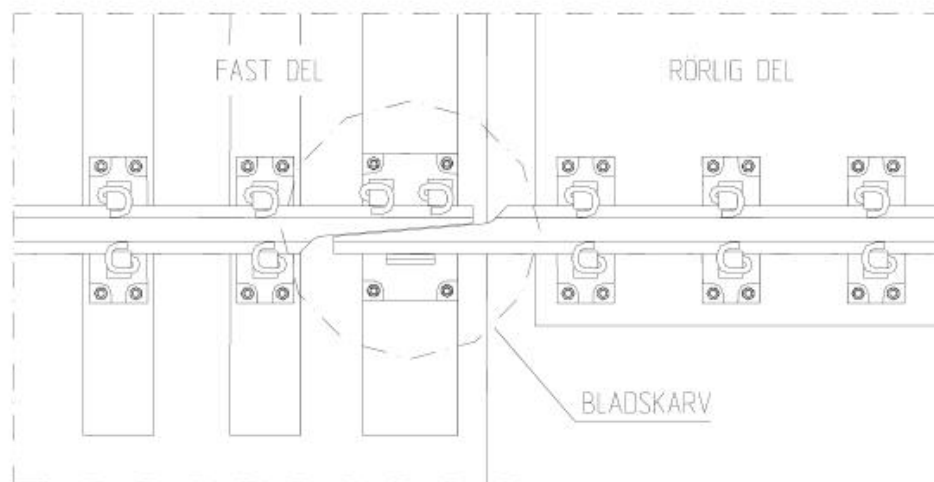
Animated clash detection



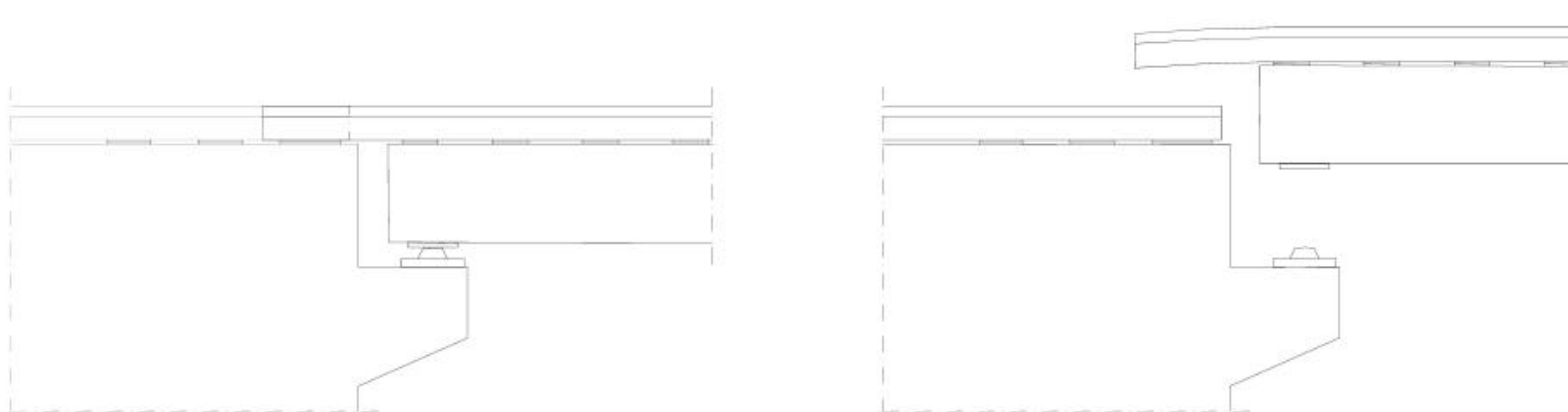
Landfæste detaljer



Landfæste detaljer

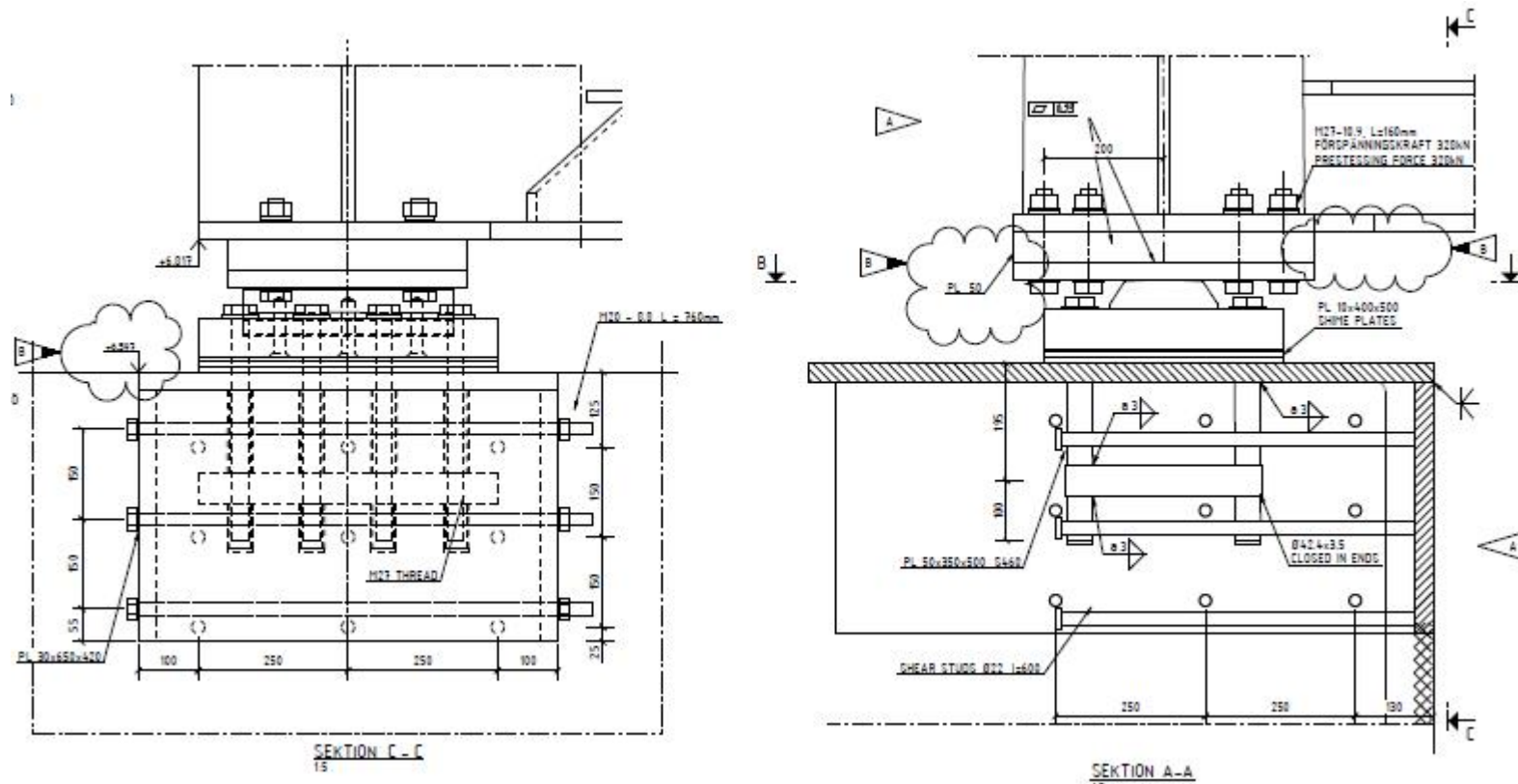


Figur 7-1 Bladskarv



Figur 7-2 Anliggning av rälsändar.

Bearings



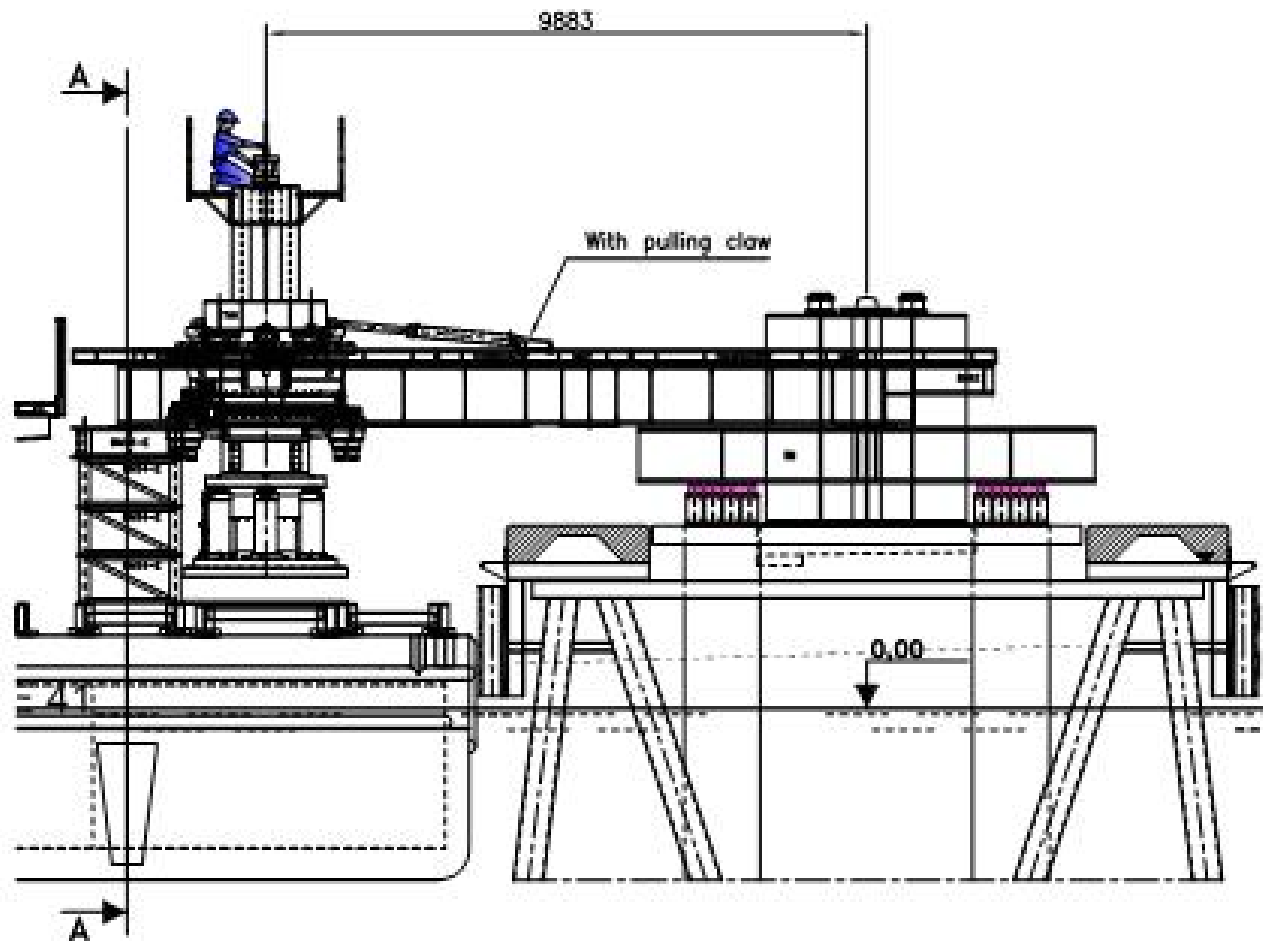
Montage af svingbroen



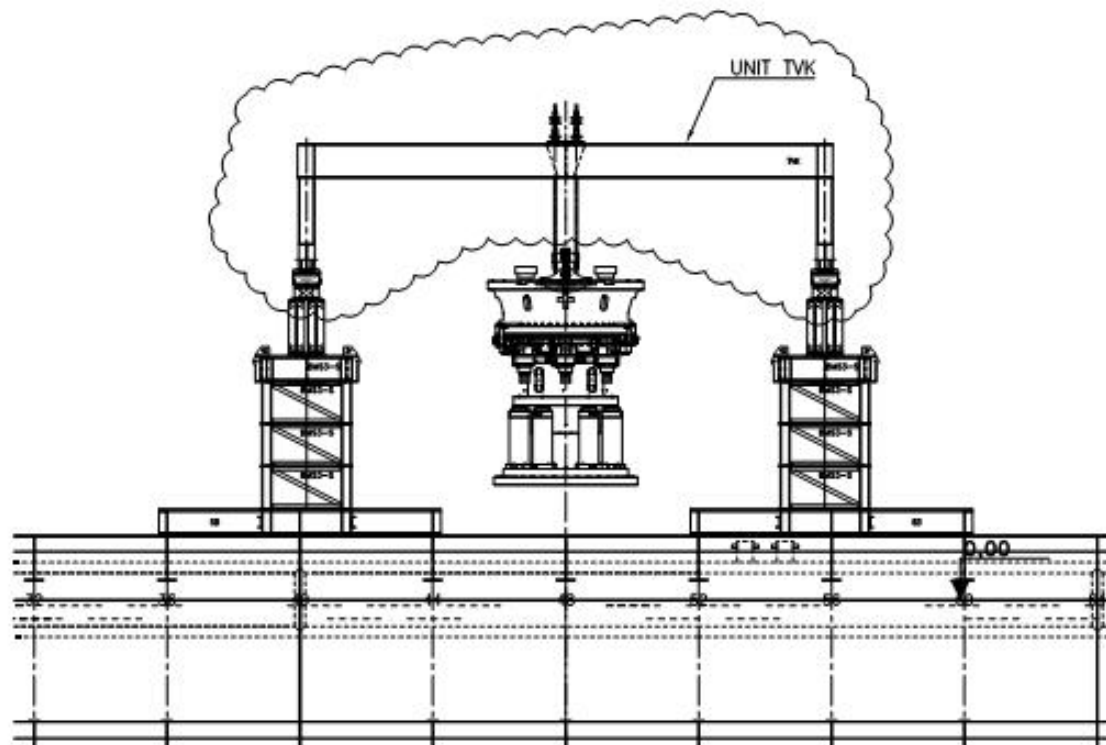
Karakteristika for montageoperation

- Brovægt: 360 tons
- Maks vindhastighed under montage: 16 m/s
- Strøm i älven: 0,65 m/s
- Tidevand +1,50 m/-1,20 m (år) +/-20cm (aktuelt)
- Maks. Vertikal variation af lanceringssystem:
+/- 0,1 m

Montage af svingmaskineri



Montage af svingmaskineri



Montage af svingmaskineri



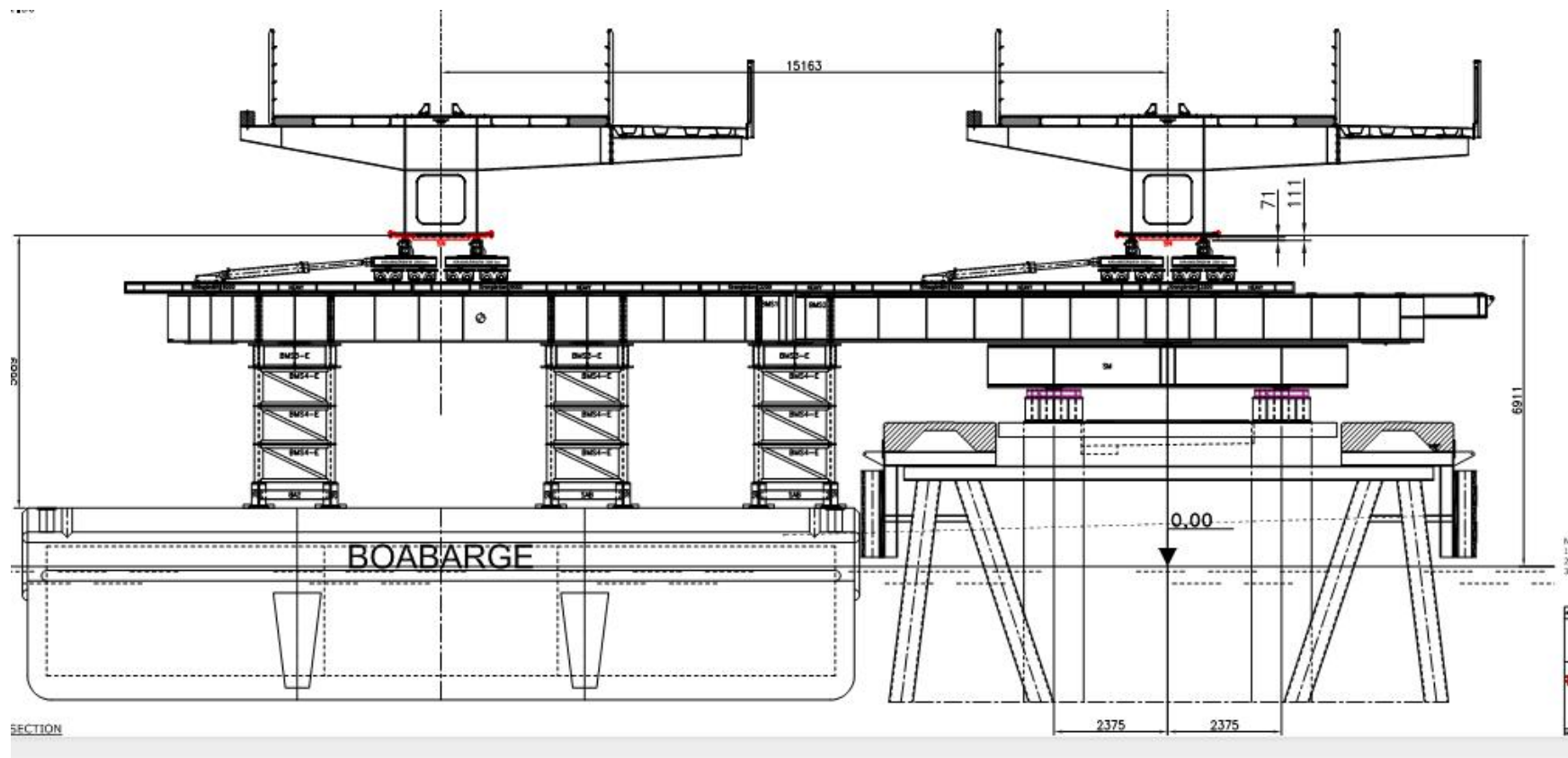
Optimalt design på løftehøjde



Montage af svingmaskineri



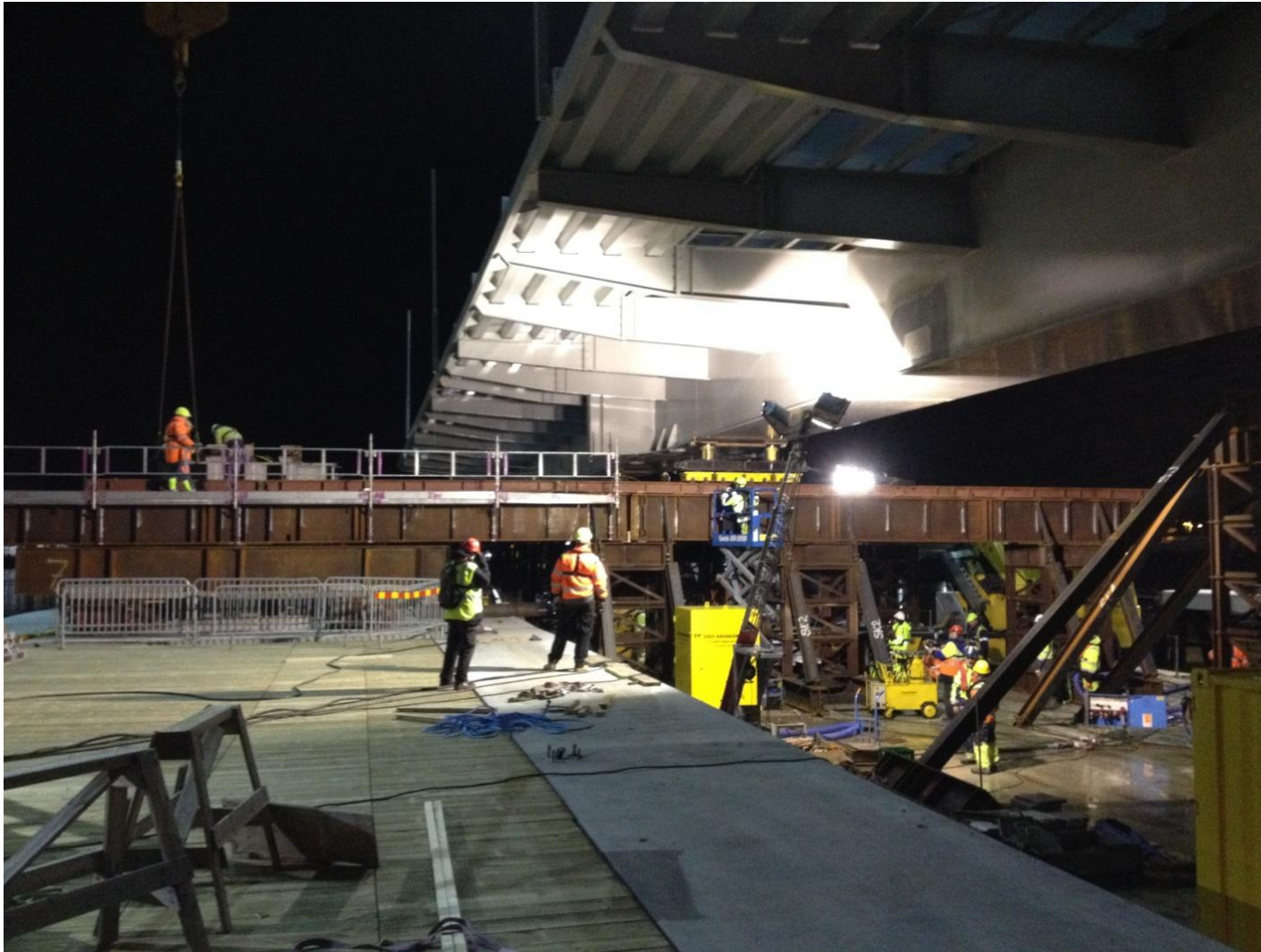
Montage af svingbroen



Lanceringsystem



Lancering



Lyftsvängbron

