

BHJ *INŻYNIERIA Sp. z o.o.*

Tomasz Bochiński
Bridge designer

Bartosz Hopke
Bridge designer

Jakub Jaworski
Bridge designer

Software:



Partners:



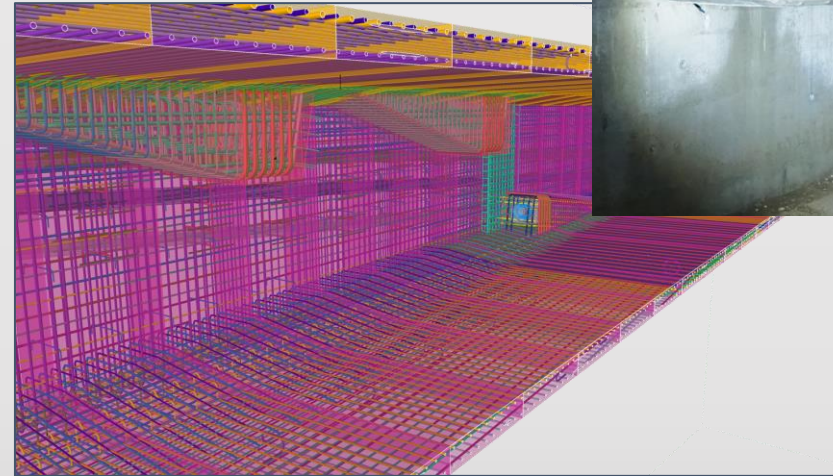


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Selected projects

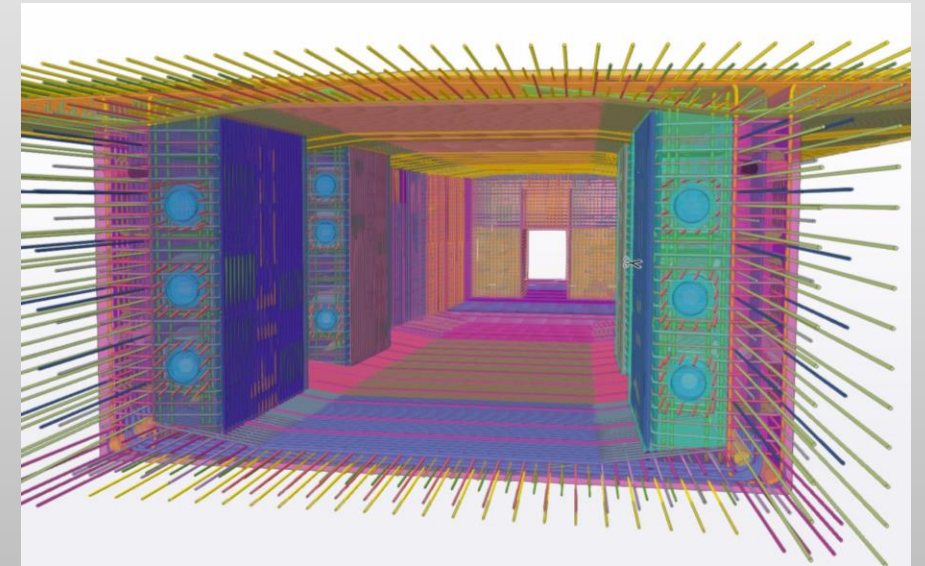
The EG-1 viaduct along the Czudec ring road

- Continuous prestressed box girder with total length 302,5m.
- Spans lengths: 40,0+50,0+70,0+50,0+50,0+40,0



The EG-2 viaduct along the Czudec ring road

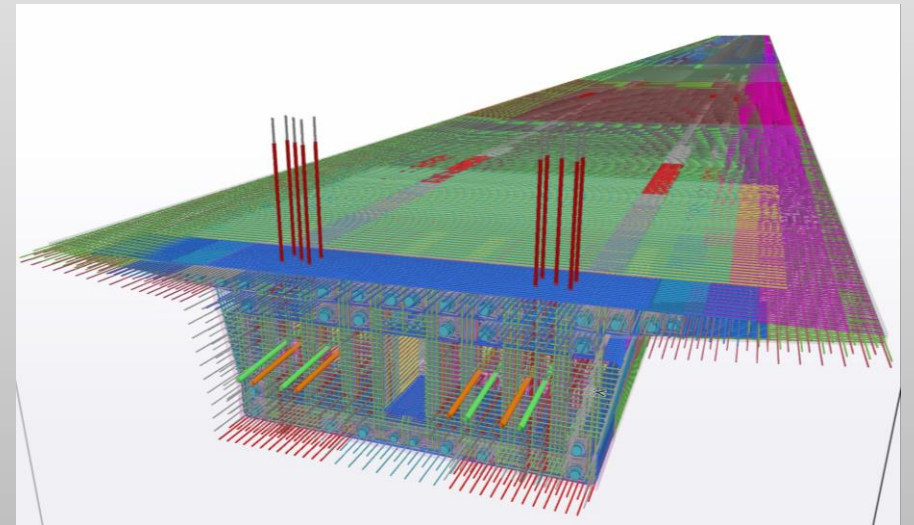
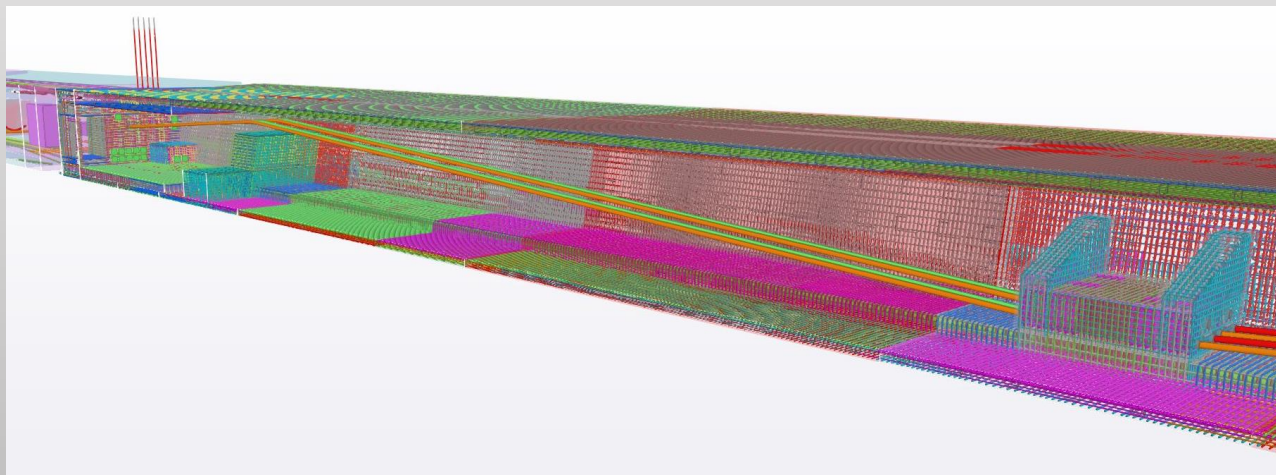
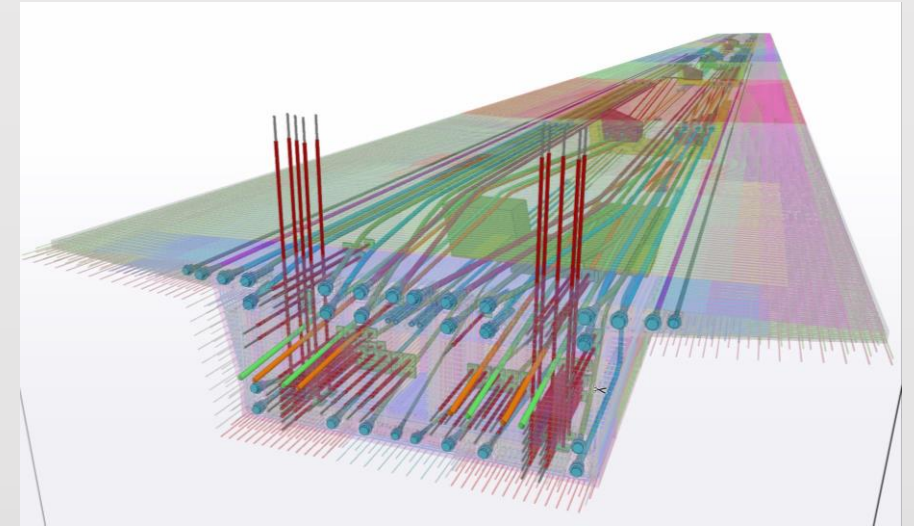
- Continuous prestressed box girder with total length 406,4m.
- Spans lengths: 60,0+87,0+87,0+100,0+70,0m



The MS-41 bridge along S5 express way

In cooperation with LENTAS - leading design office

- Continuous prestressed box girder with total length 754m.
- Double-sided Incremental launching
- Spans lengths: 48,0+58,0+9x60,0+58,0+48,0m



The MS-36 bridge along S5 express way

In cooperation with LENTAS - leading design office

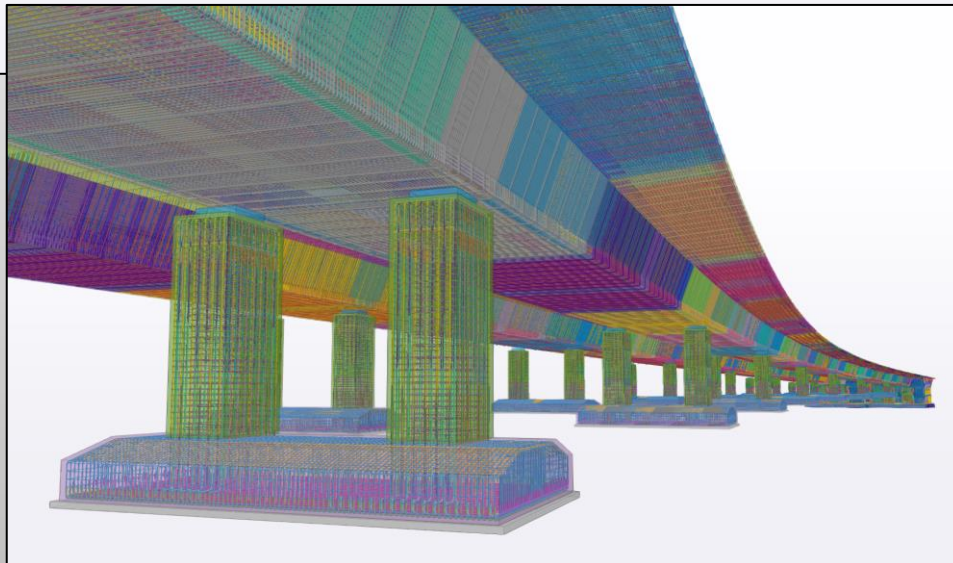
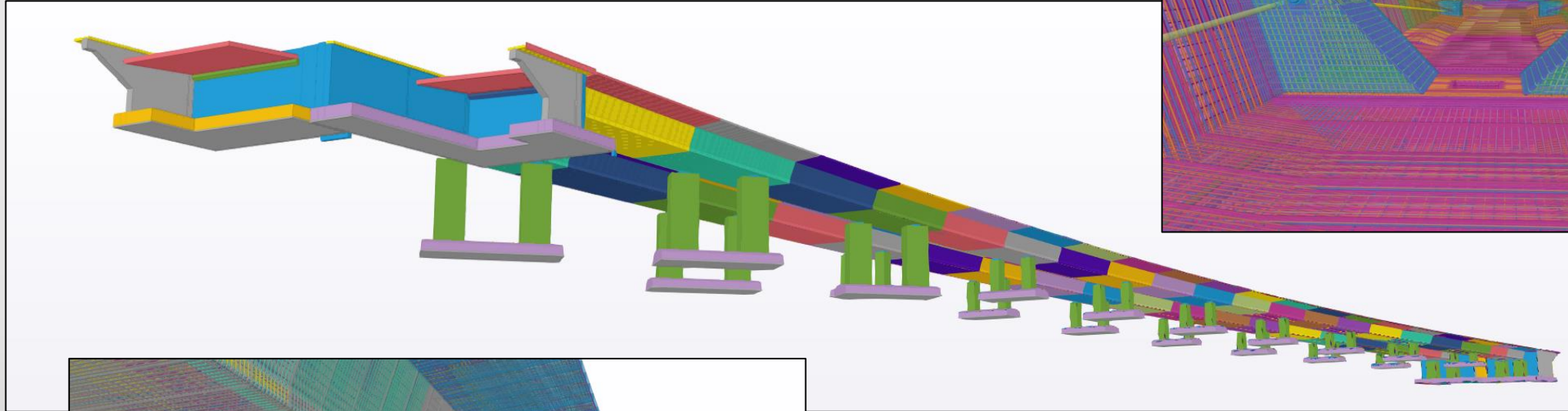
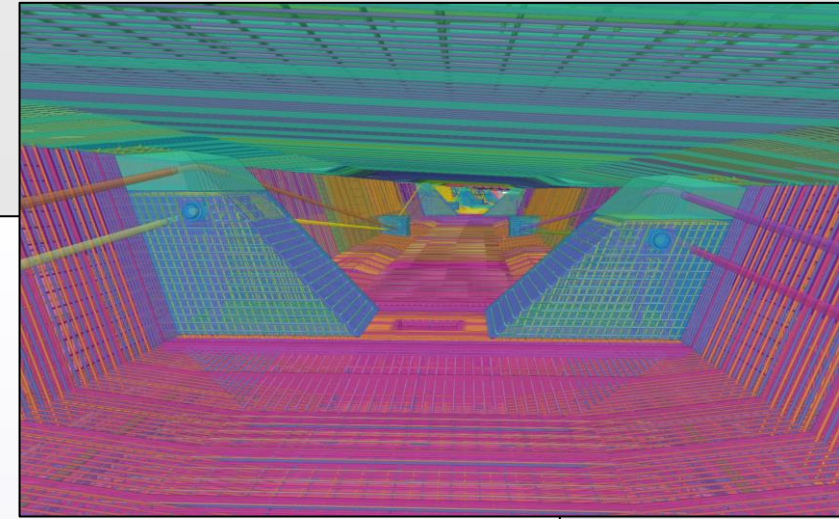
- Continuous prestressed box girder with total length 266.2m.
- Incremental launching
- Spans lengths: 48,0+56,0+56,0+56,0+48,0m



The MS-35 bridge along S1 express way

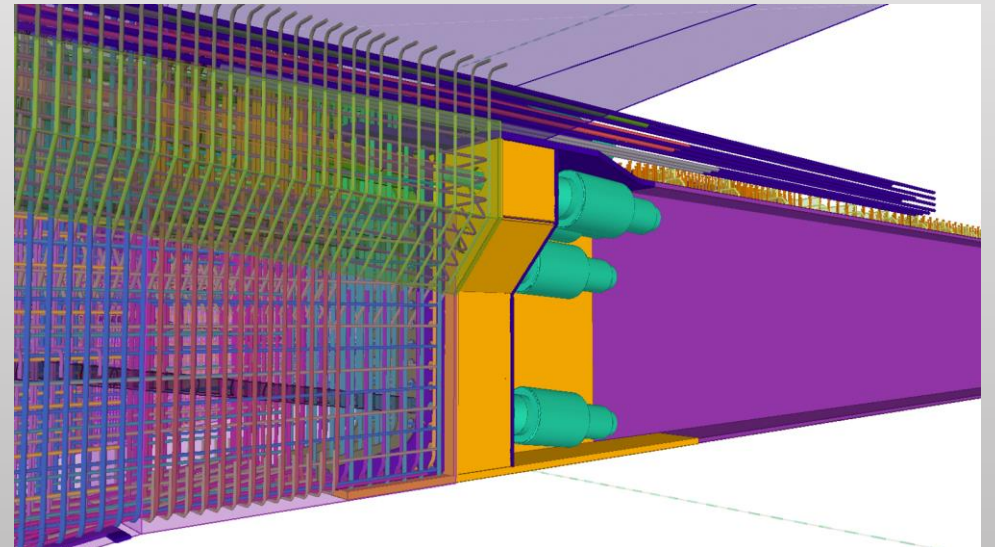
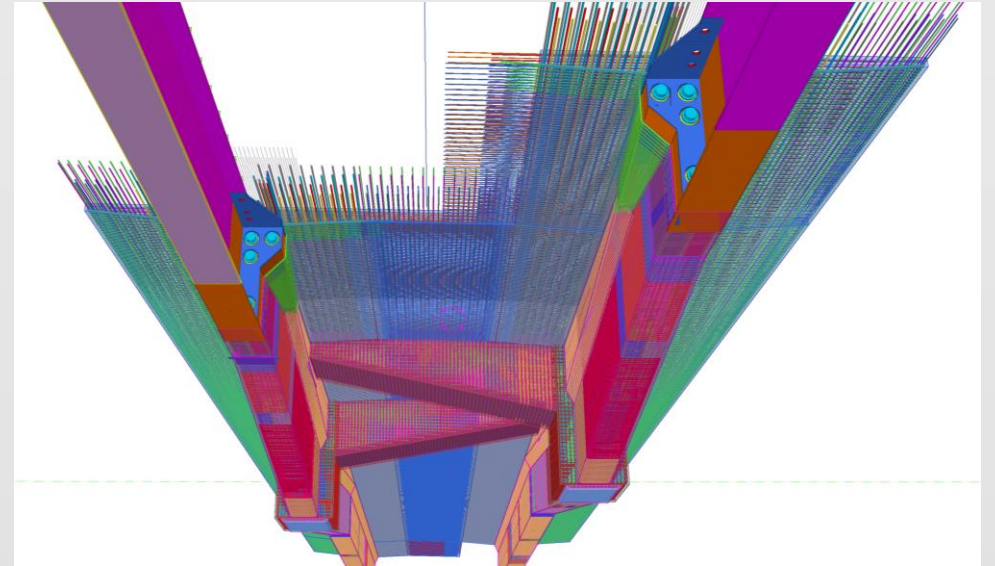
In cooperation with SKD - leading design office

- Continuous prestressed box girder with total length 463,311m – left side and 483,400m – right side.
- Incremental launching
- Spans lengths: variable for both sides, max span length 48,5m – left side and 51m – right side.



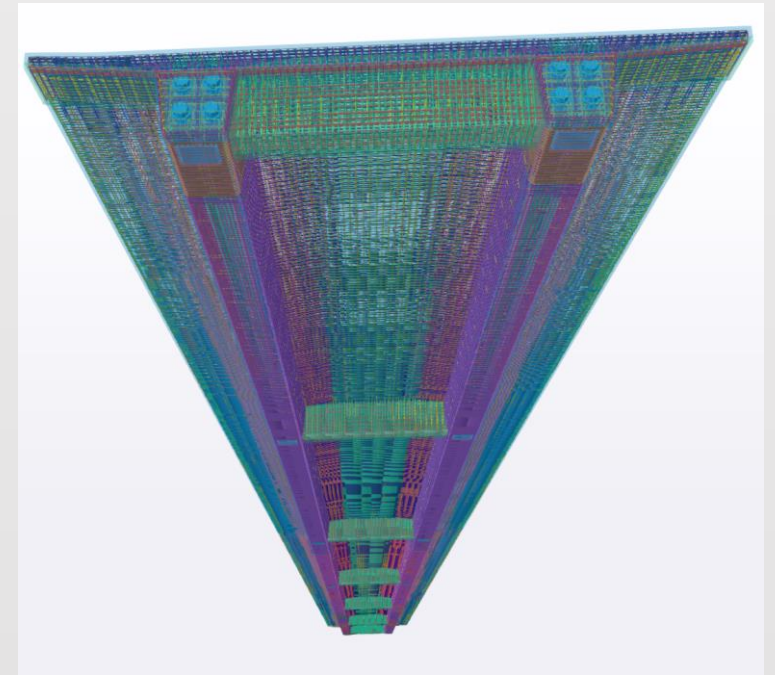
The road viaduct along TS Road in Toruń city

- Prestressed double-girder beam structure with steel girders in one span. Total length 457.25m
- Spans lengths: 50+80+52,75+47+47+47+49+47+34m



The road viaduct M8

- Prestressed double-girder beam structure. Total length 161,6m
- Casting using VFT girders with preassembled formwork
- Spans lengths: 23+4x28,5+23m



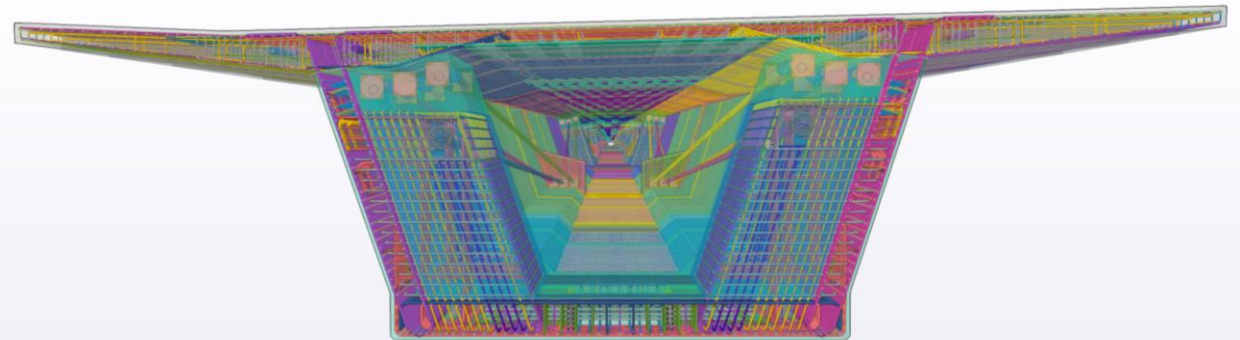
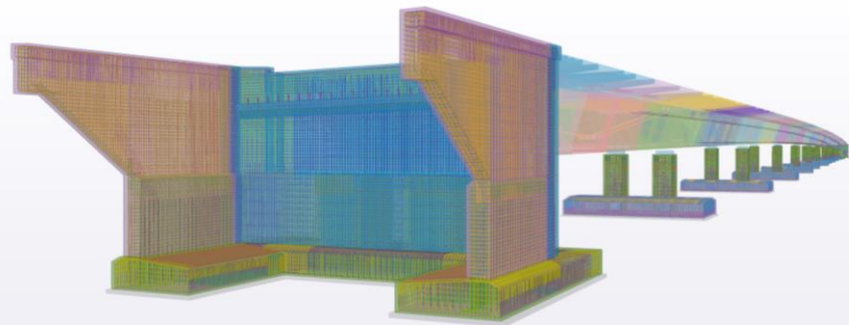
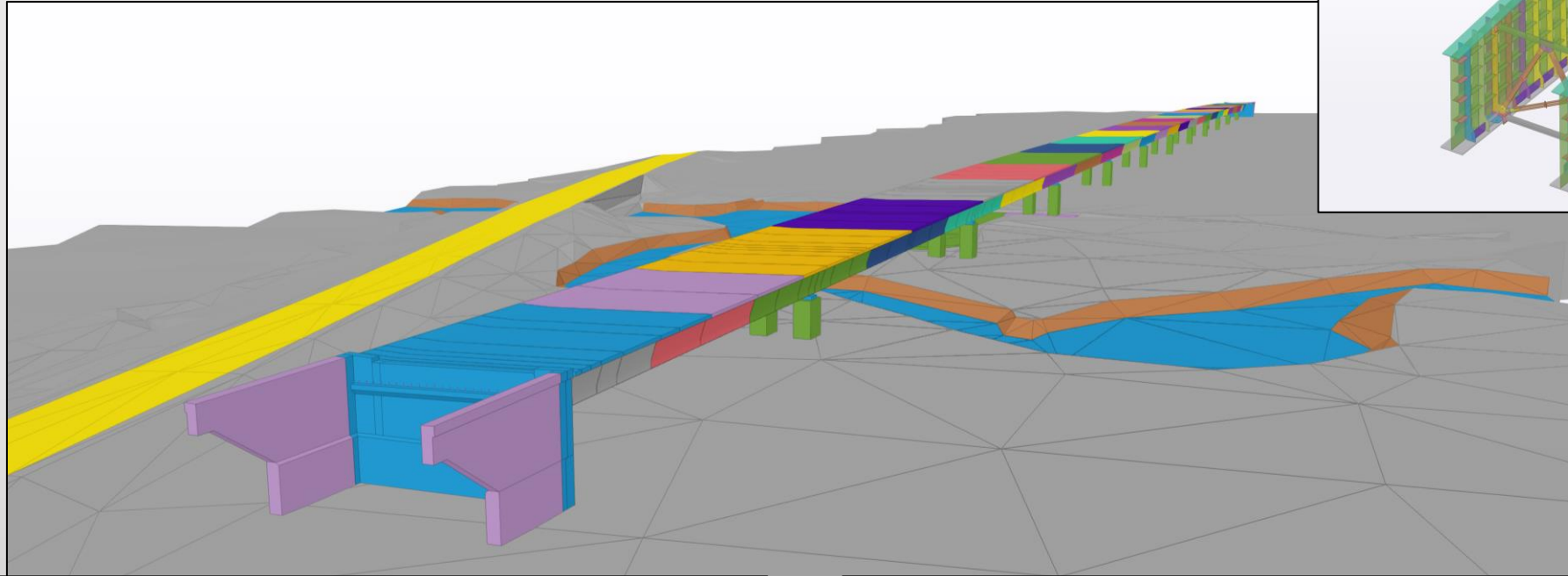
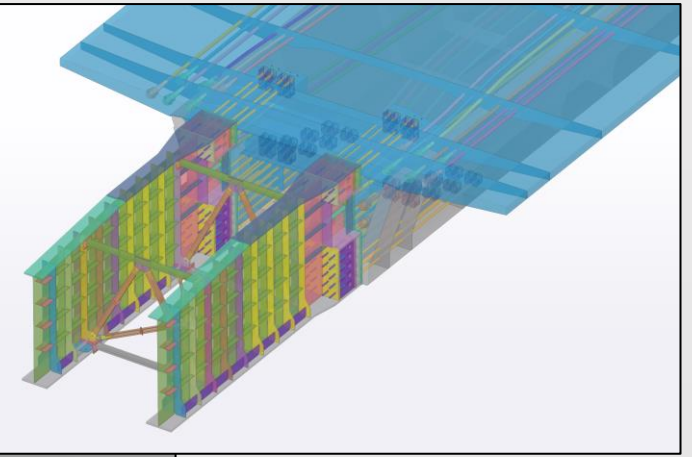
The road viaduct WD-1

- *Composite girder: custom precast prestressed concrete beams and concrete plate cast in place.*
Total length 82.1m
- *Spans lengths: 20+22,5+22,5+16.5m*



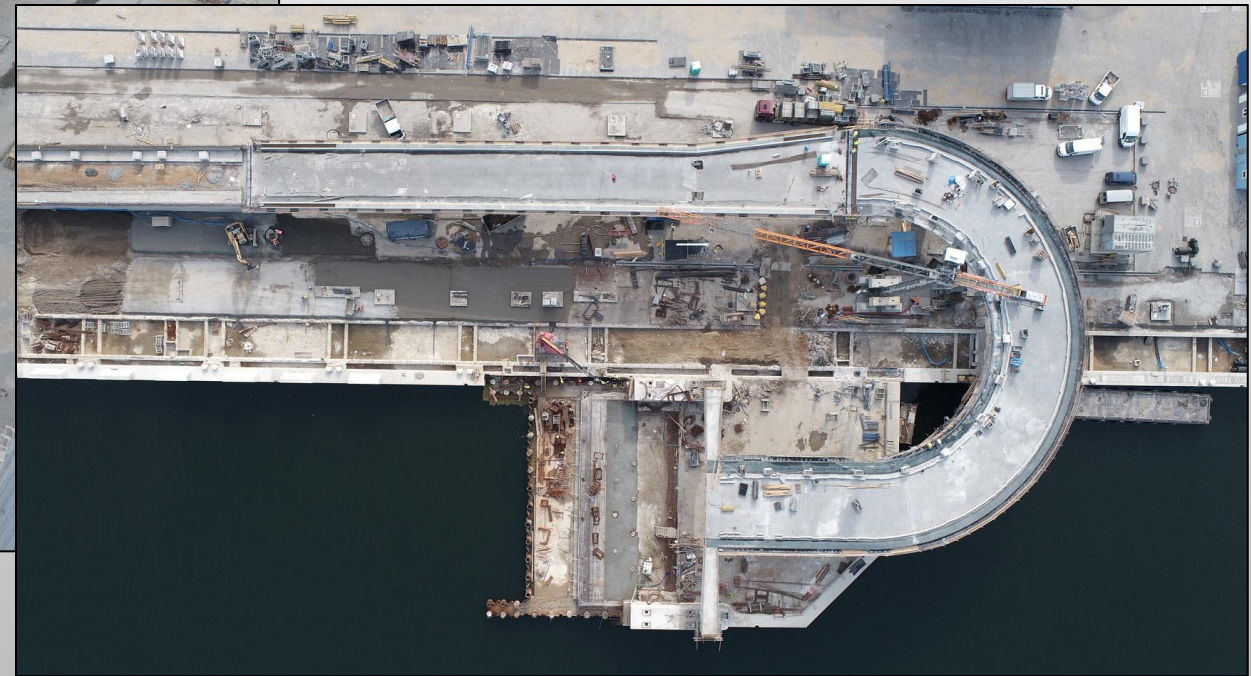
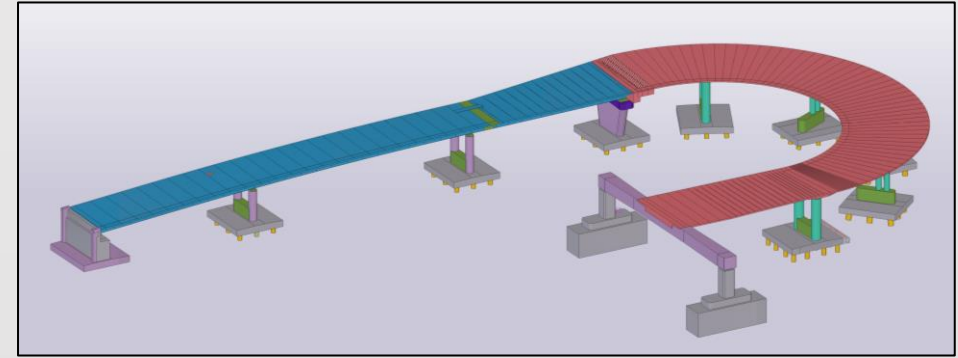
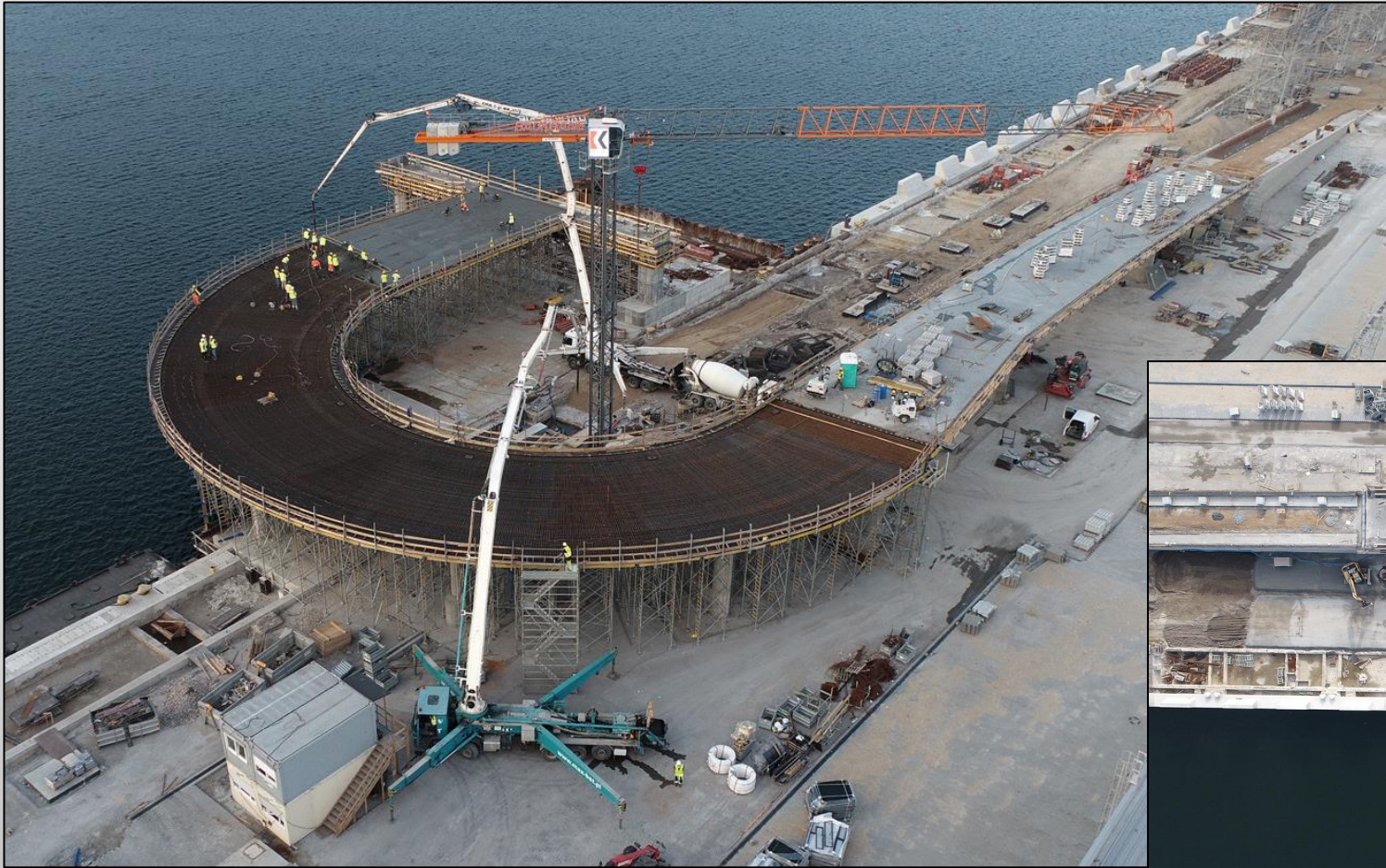
The ED-1 bridge along DK1 road

- Continuous prestressed box girder with total length 665,500m
- Incremental launching
- Spans lengths: 46,2+10x57+46,2m

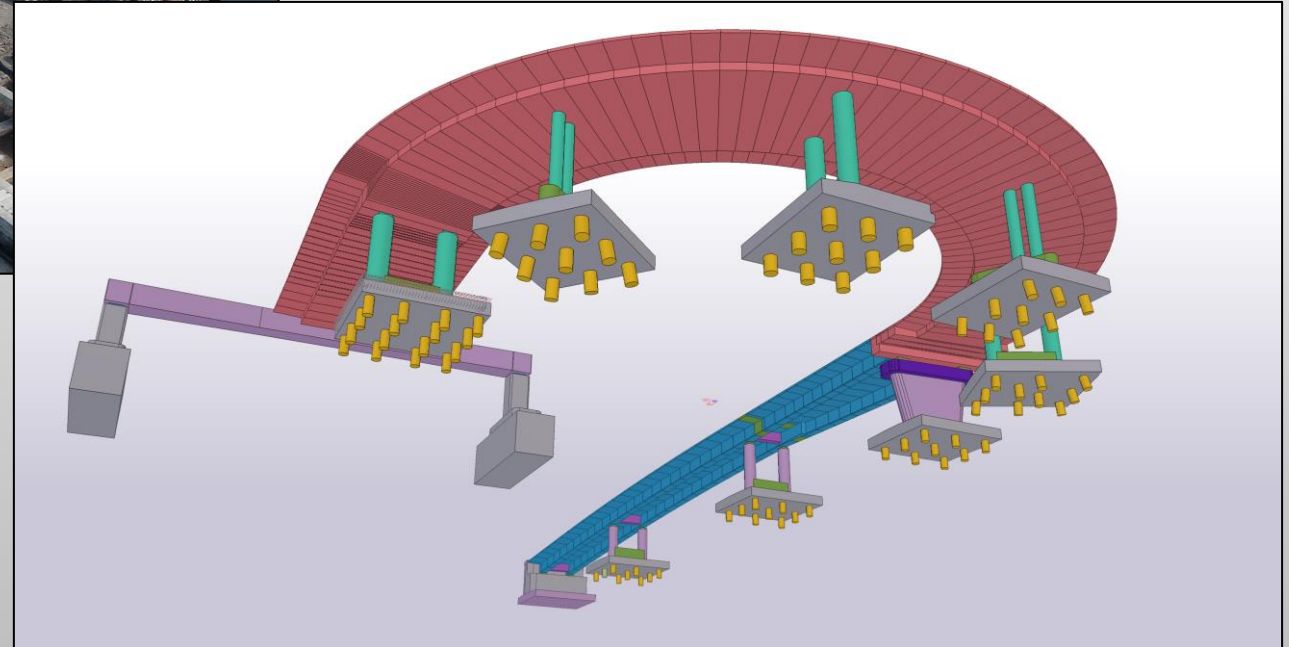
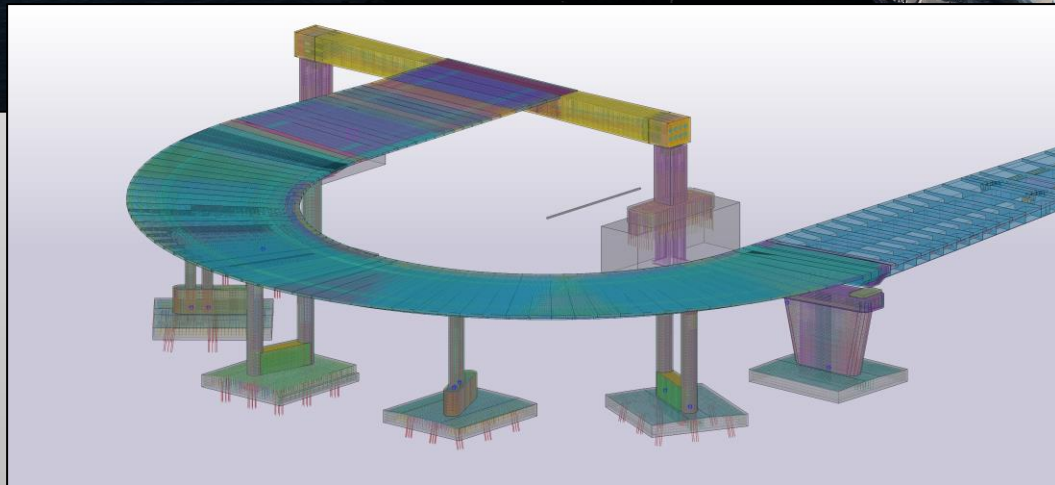
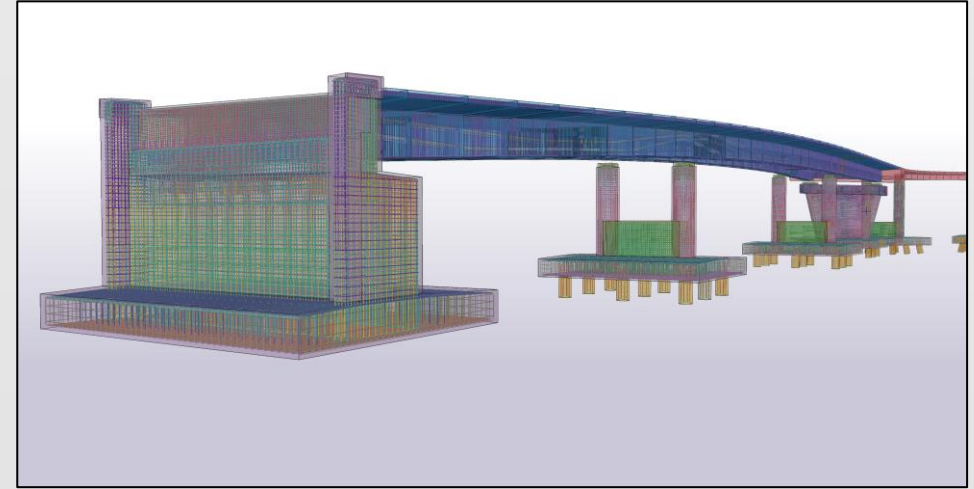
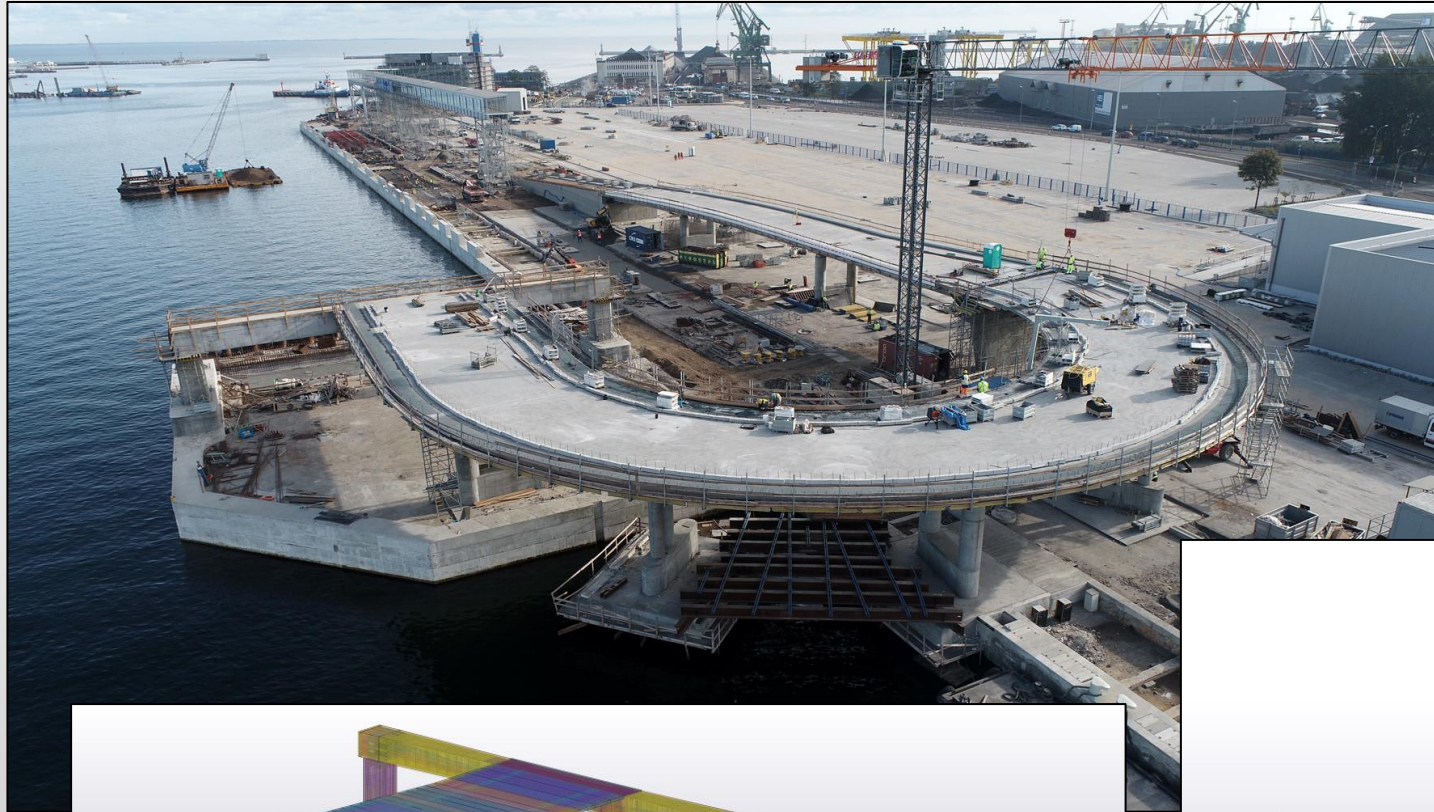


The overpass of the Public Ferry Terminal at the Gdynia Port

- Two constructions with total length 169,80m
 1. Prestressed double-girder beam structure - length 85,75m. Spans lengths: 25.0+35.0+24.4m.
 2. Reinforced concrete plate structure - length 83,953m. Spans lengths: 11.089+3x12.078+12.069+23.011m.



The overpass of the Public Ferry Terminal at the Gdynia Port



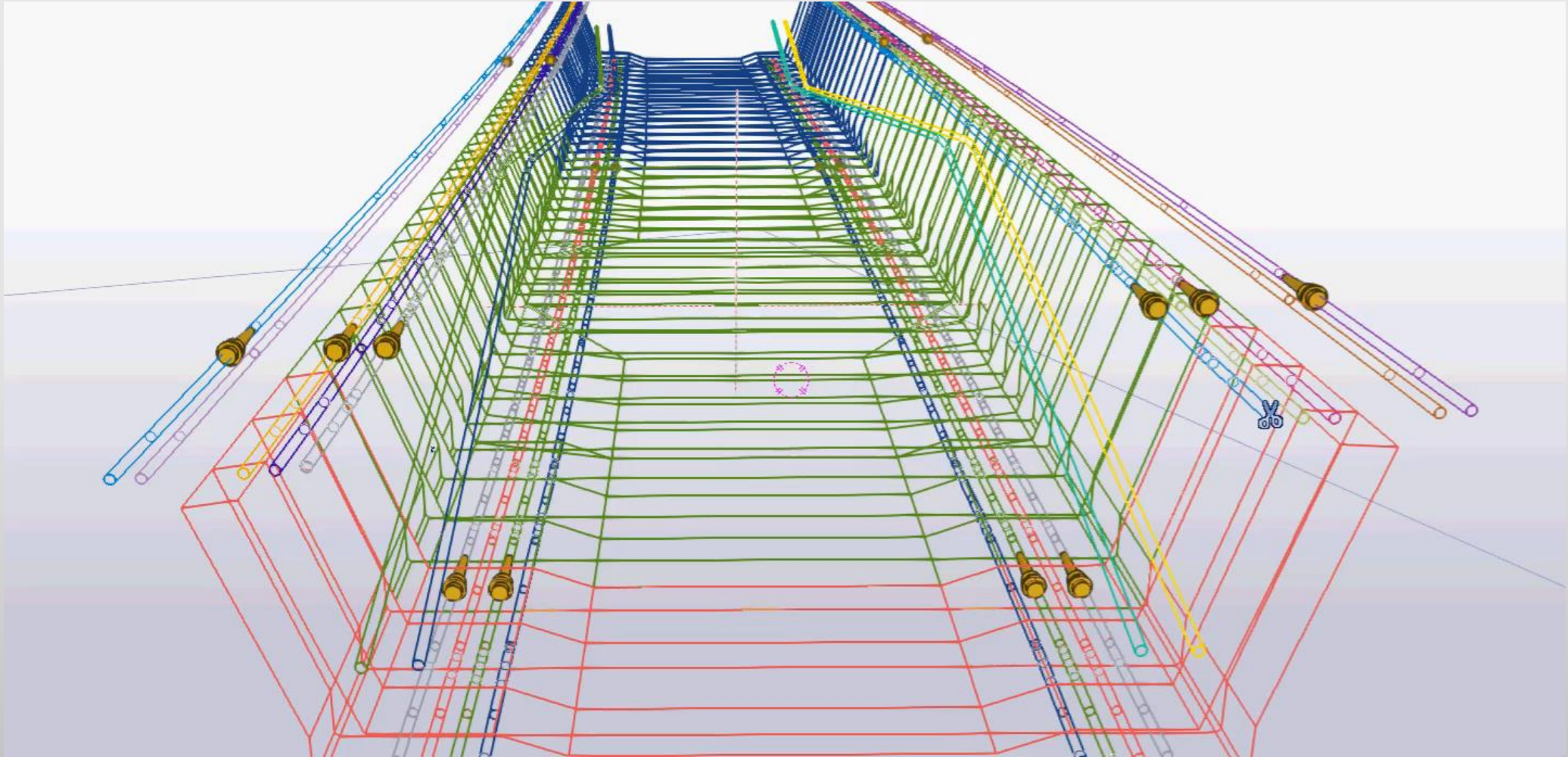


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Design improvements

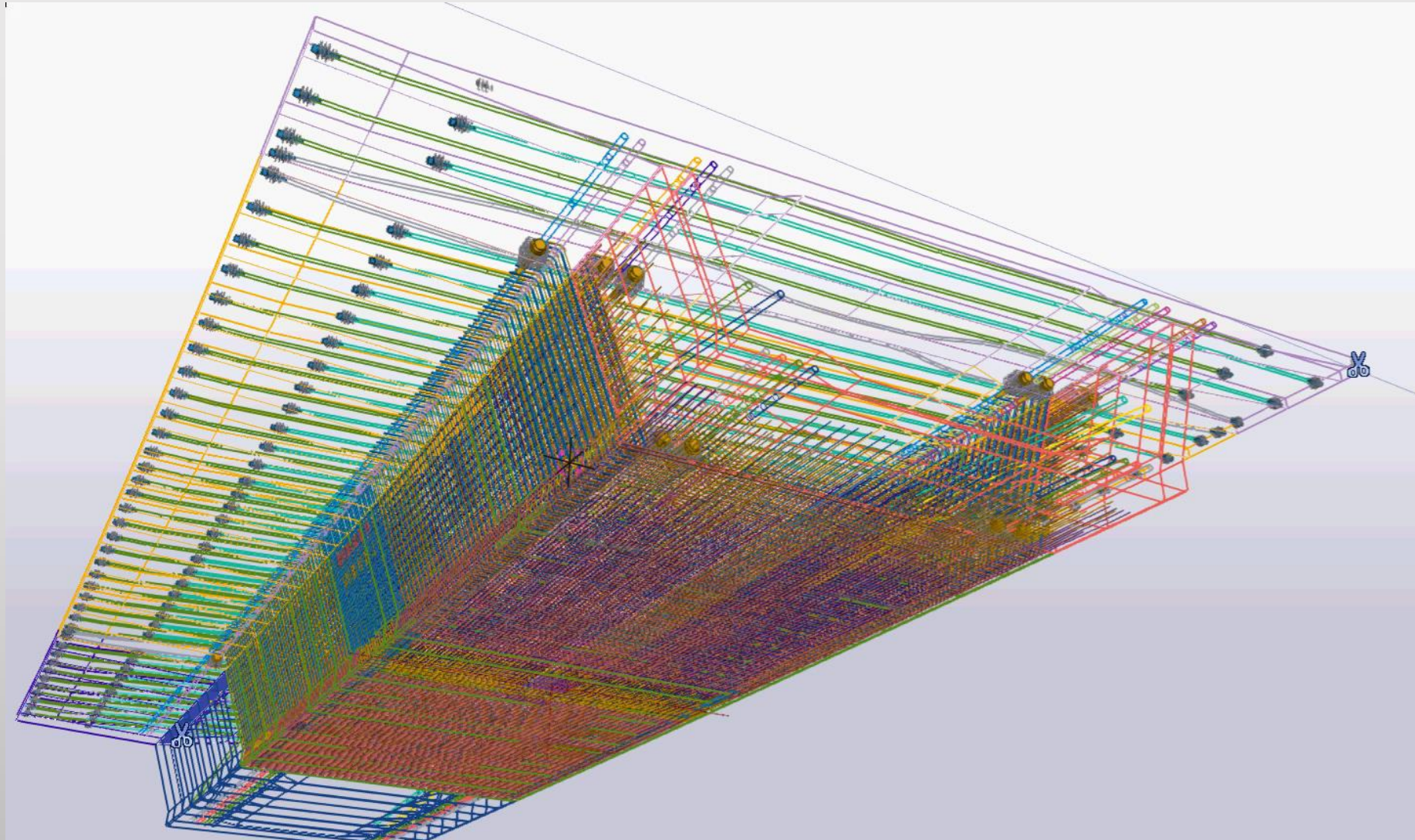
After conceptual work, FEM modeling, static and strength calculations, the next most time-consuming stage of design is the creation of the BIM model and drawing documentation.

*ES-35 Bridge, S1 expressway
Bottom part of box girder reinforcing process (press play)*



Our goal is to automate the structure modeling process through custom coded solutions. This allows us to focus our attention on the detailing of complicated zones such as tendon deviators and diaphragms.

ES-35 Bridge, S1 expressway
Top plate of box girder reinforcing process (press play)





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Thank you for watching!
Best regards!