

IJburg Bruggen 2060 & 2080

Engineering en voorbereiding

Eric de Vries – 08/10/2026





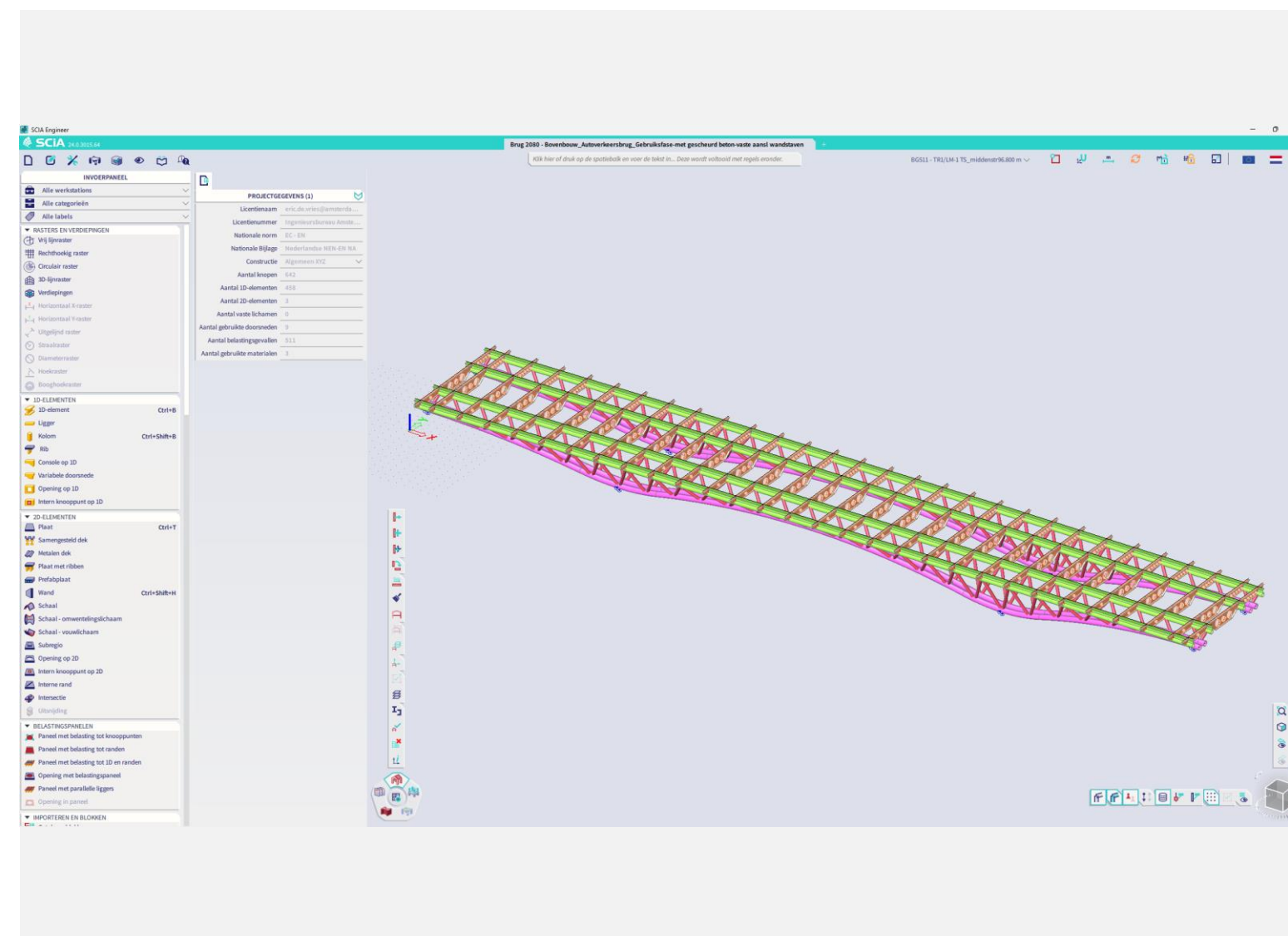
Wat is dit?



Van architect naar constructiemodel



Ontwerp architect



Rekenmodel

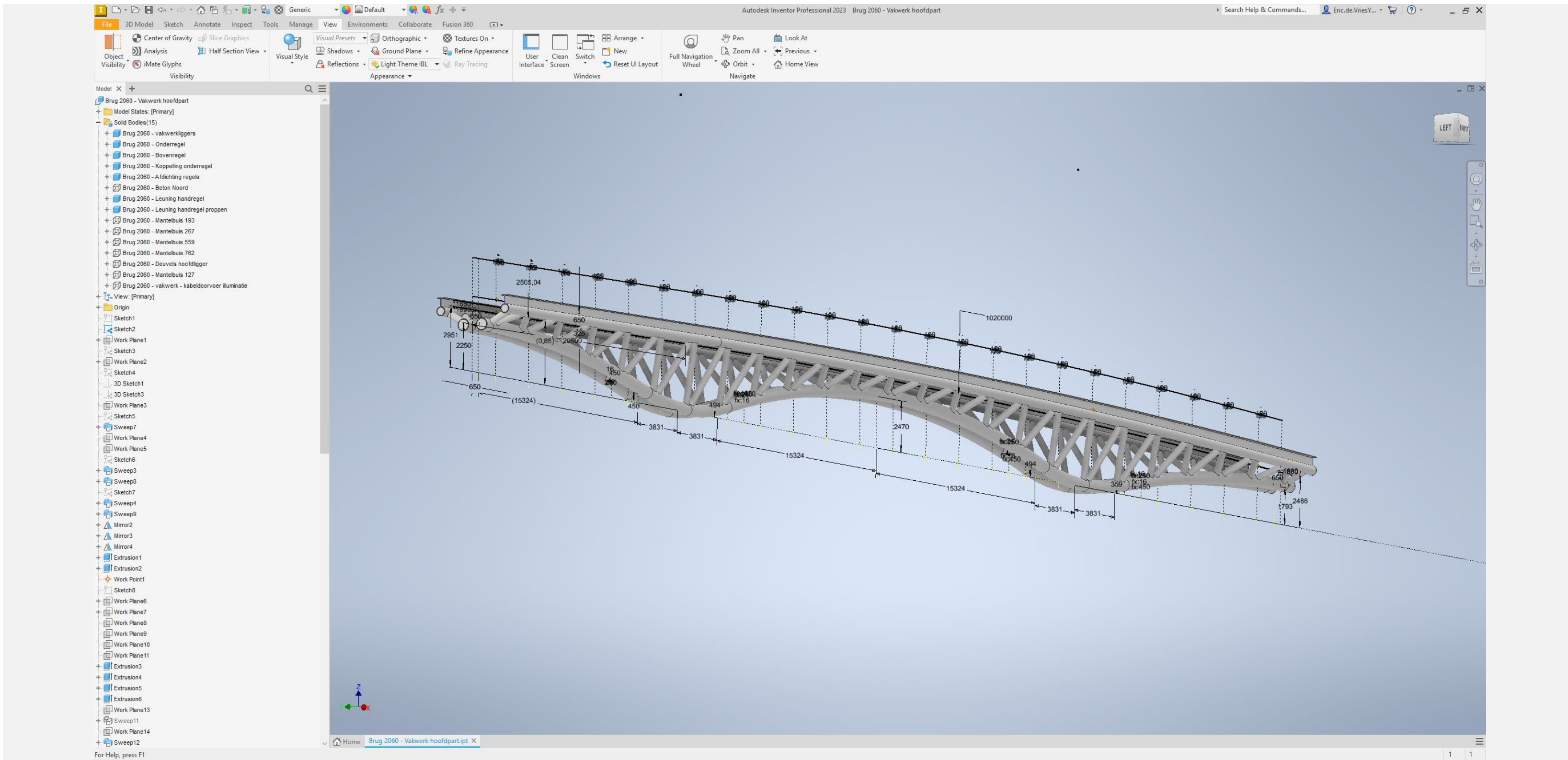


Vakwerk: één vorm, zes keer

1

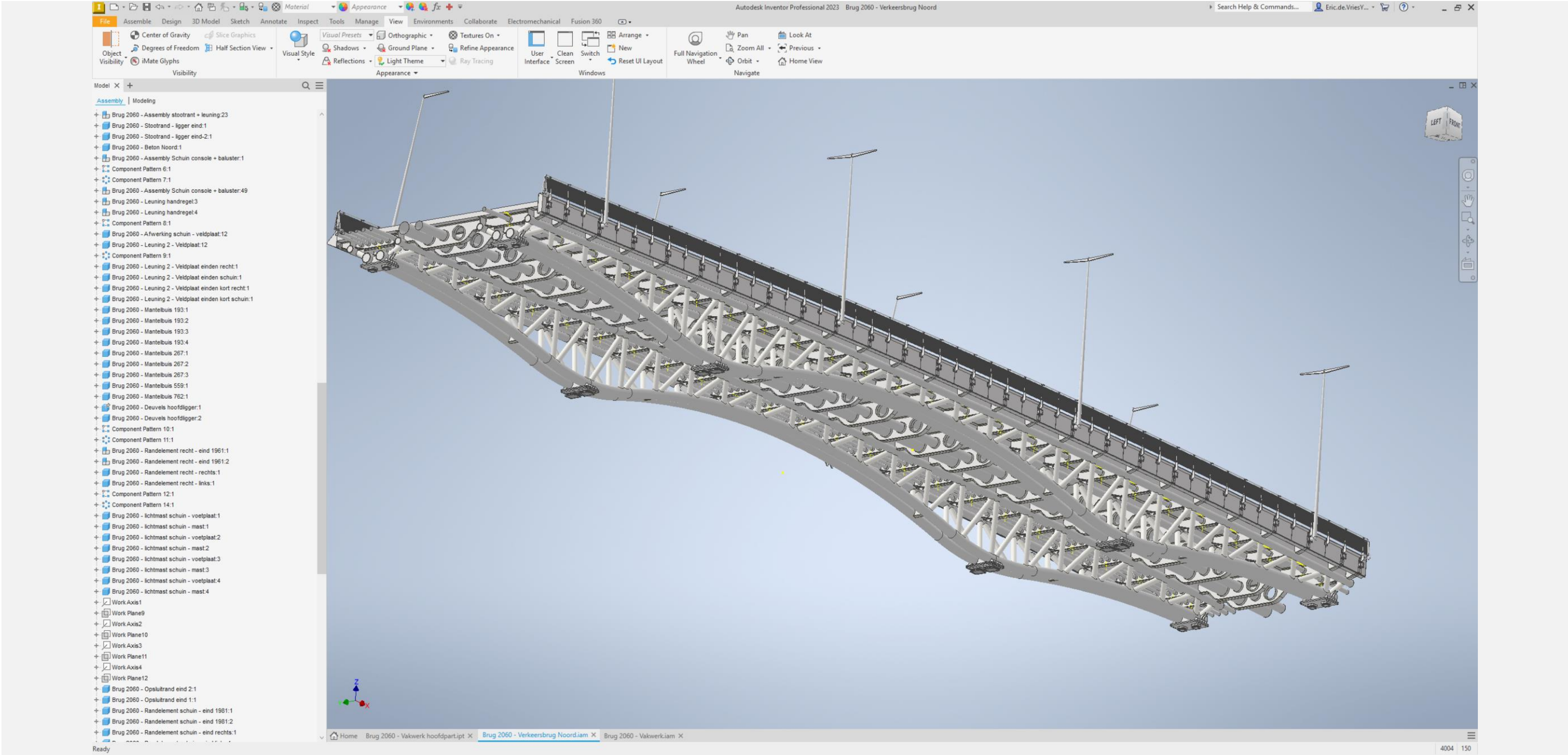
2

3





Dwarsdragers en randafwerking



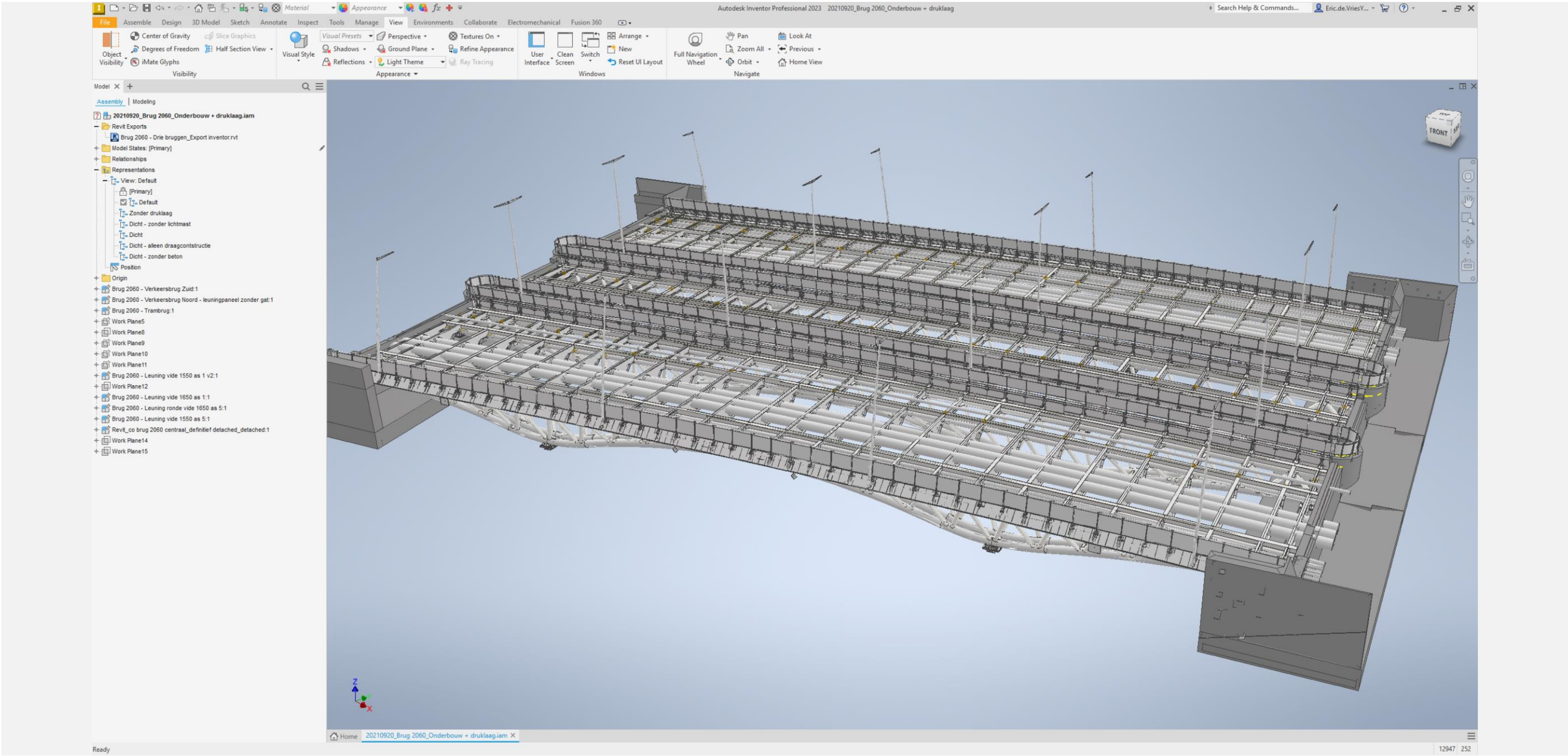


Eén model per brug

1

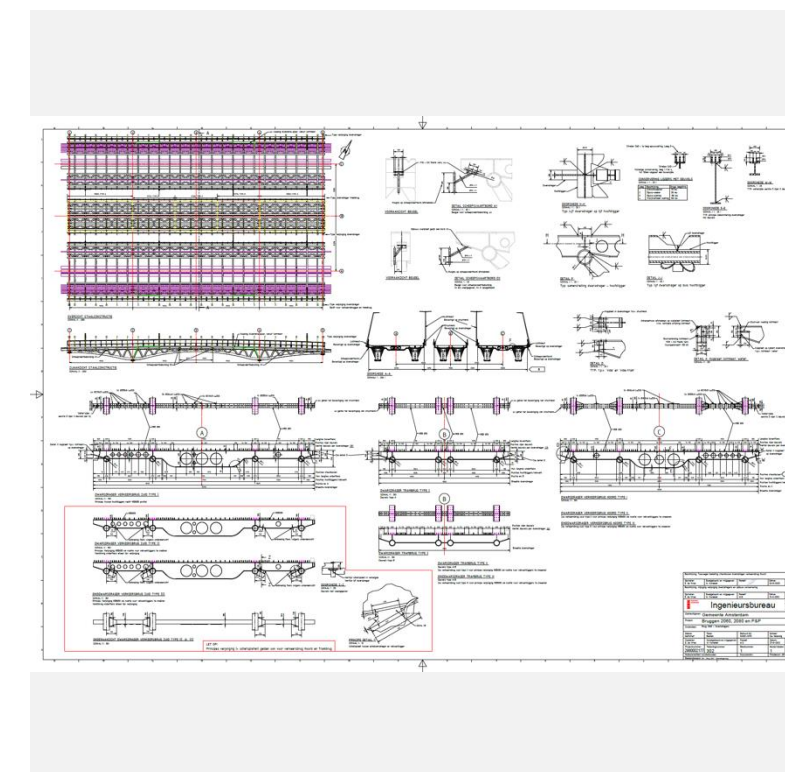
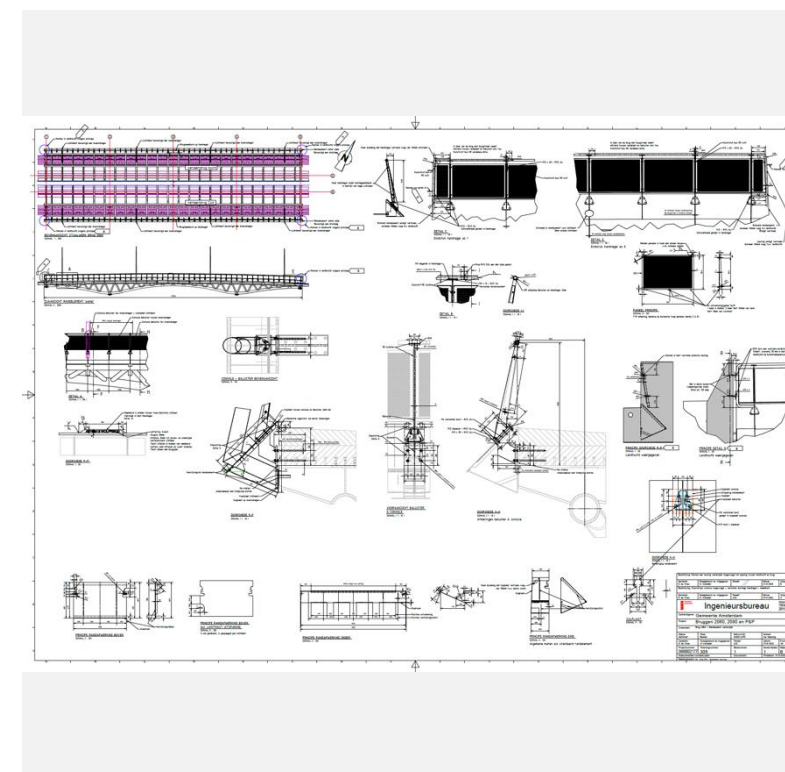
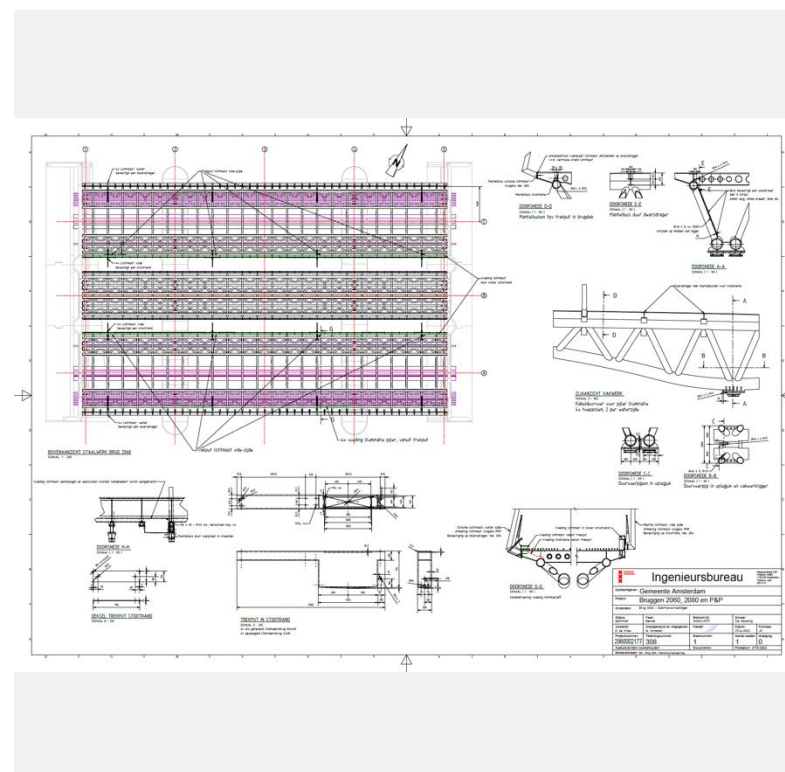
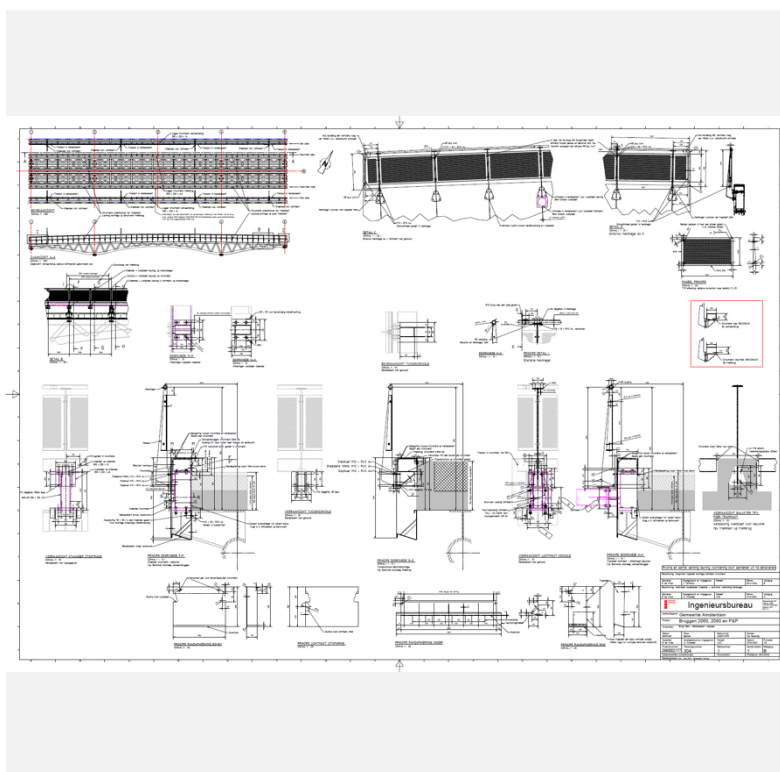
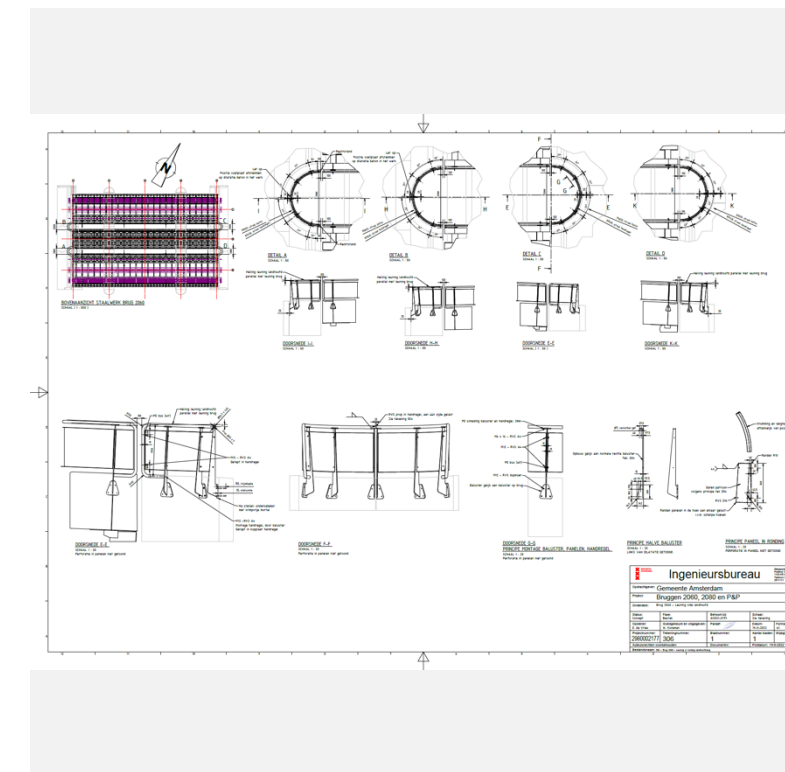
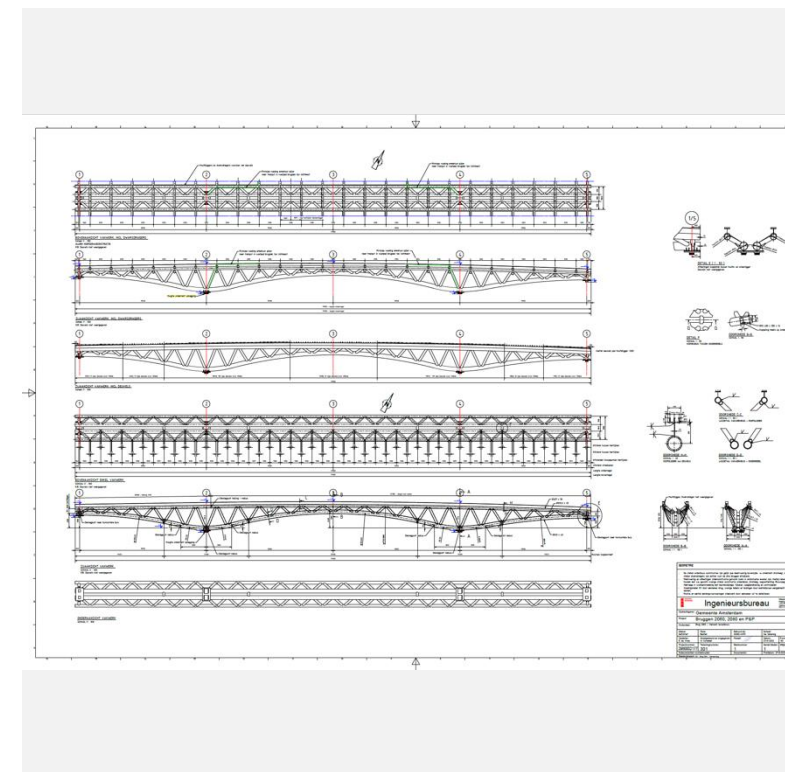
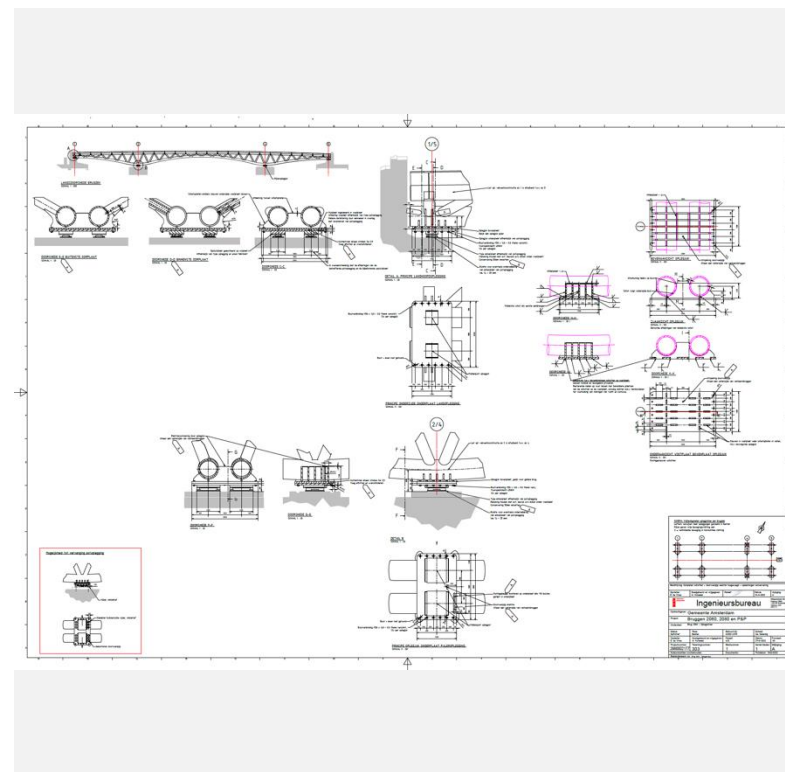
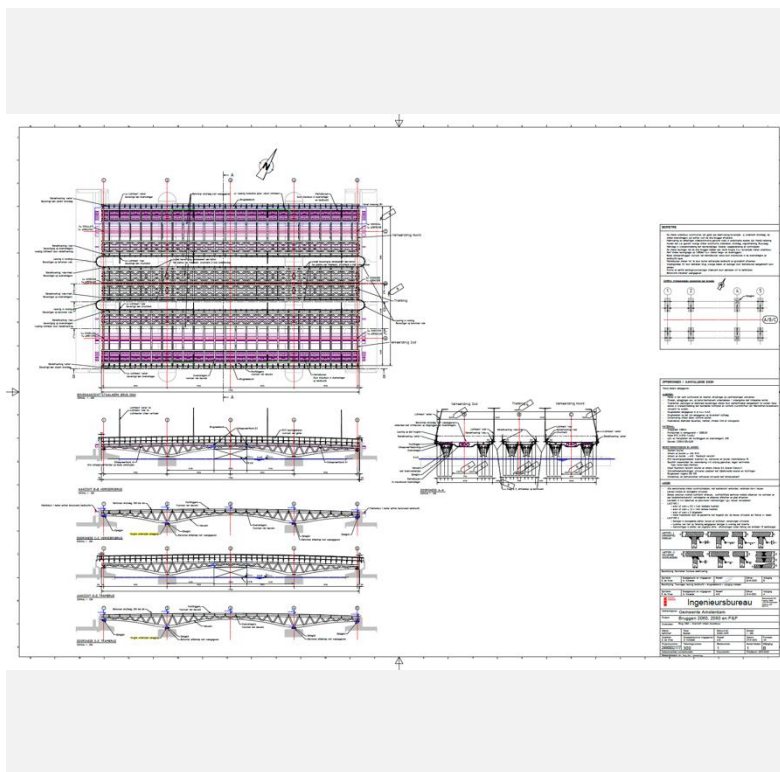
2

3





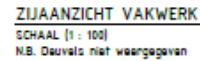
Tekeningen uit het model





Een uitdaging

Opleggingen



Uiteinden mogen niet opwippen

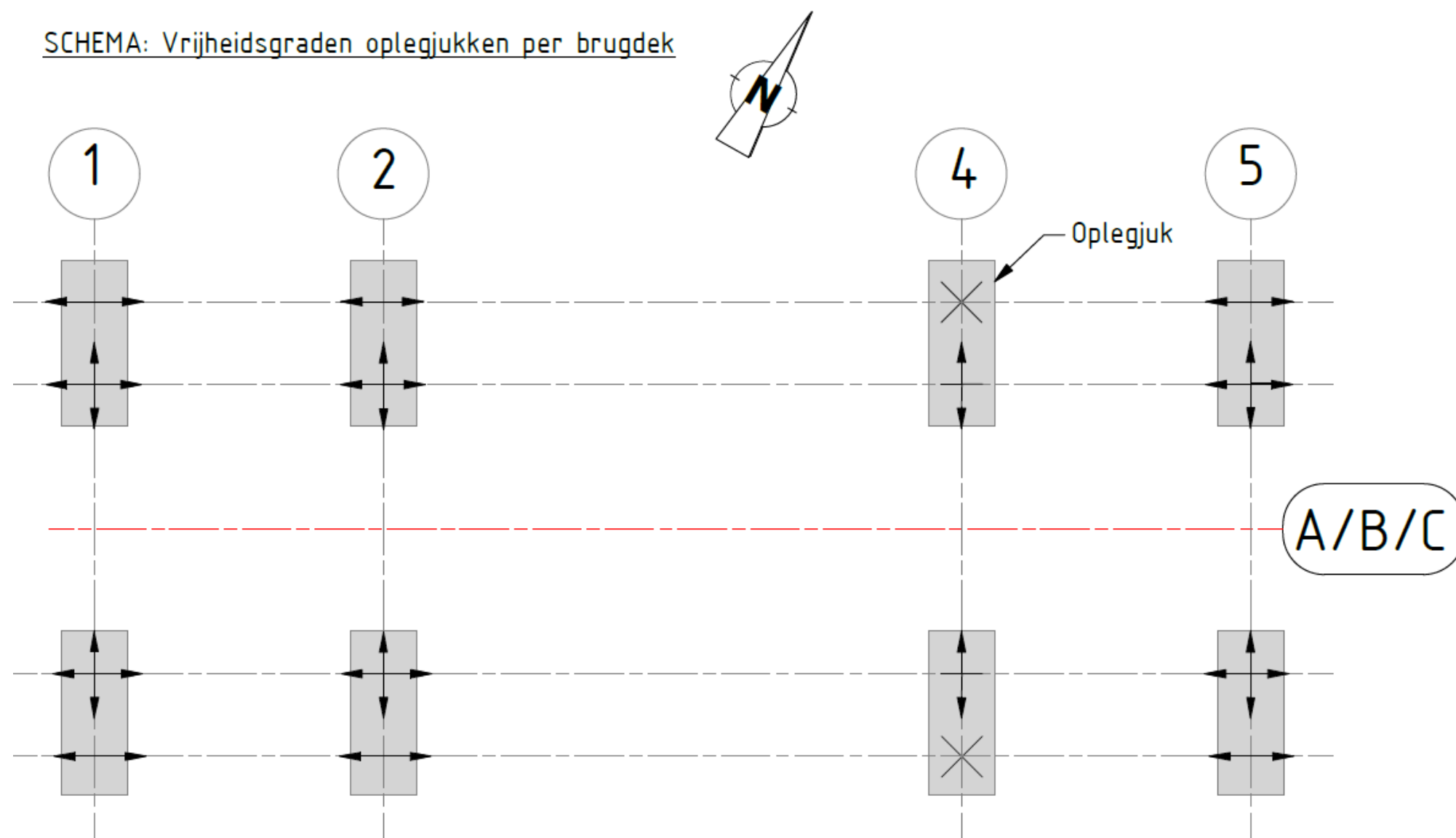
Extra zeeg = extra oplegkracht

Tramspoor: nauwelijks marge



Van vast naar verend in breedterichting

SCHEMA: Vrijheidsgraden oplegjukken per brugdek



Praktijk

Star

≠

Rekenmodel

Verend



Hoe nu verder?

Brug, landhoofden en waterpijlers waren al gemaakt



Veerstijfheid per oplegging

Landhoofden

Rubber

Haalbaar met standaard opleggingen

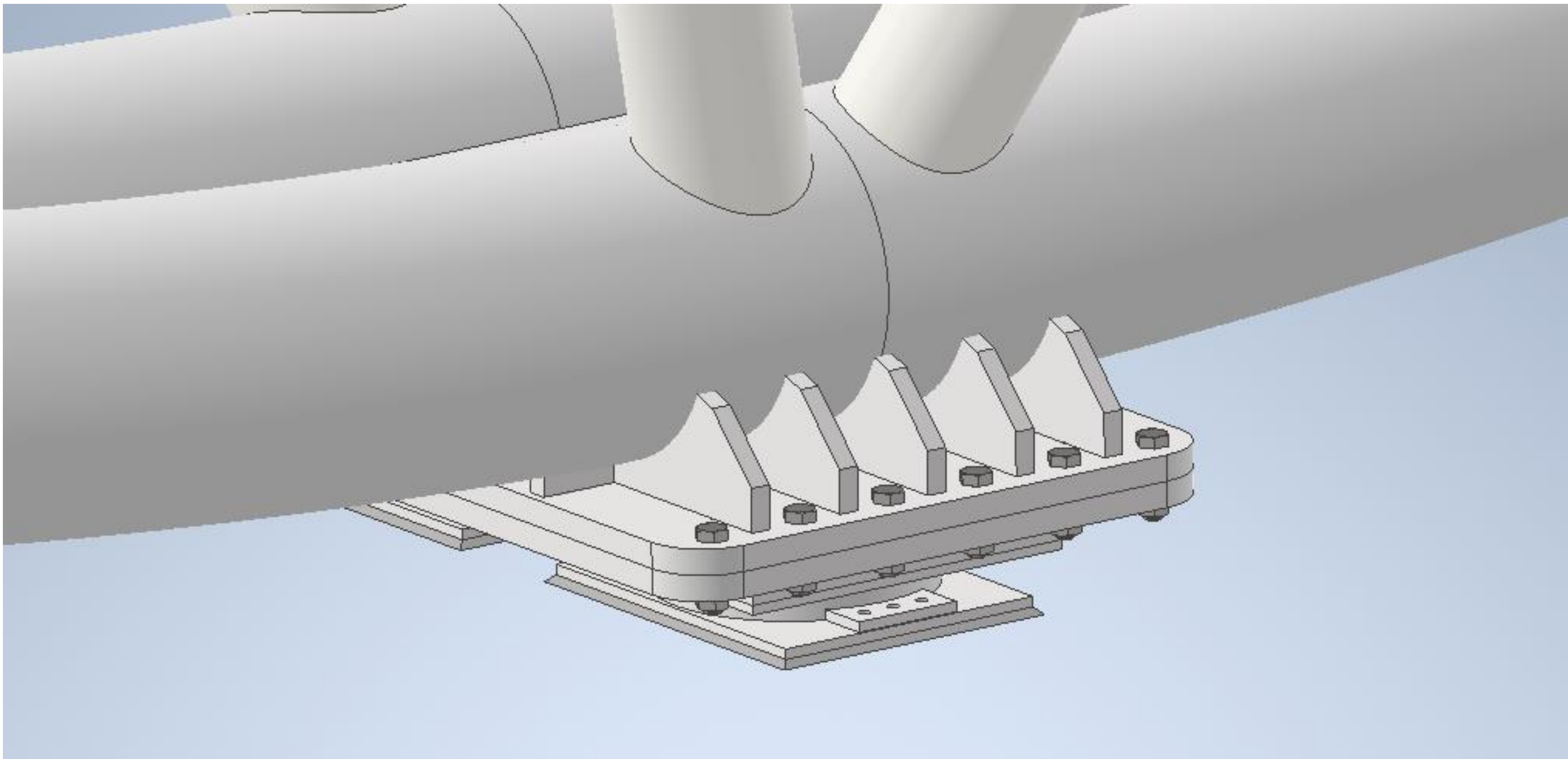
Waterpijlers

Te stijf

Niet haalbaar met een traditionele oplegging



Oplegjuk met twee platen





Wat zou u doen?

A

**Rubberblokken
op de zijkant**

B

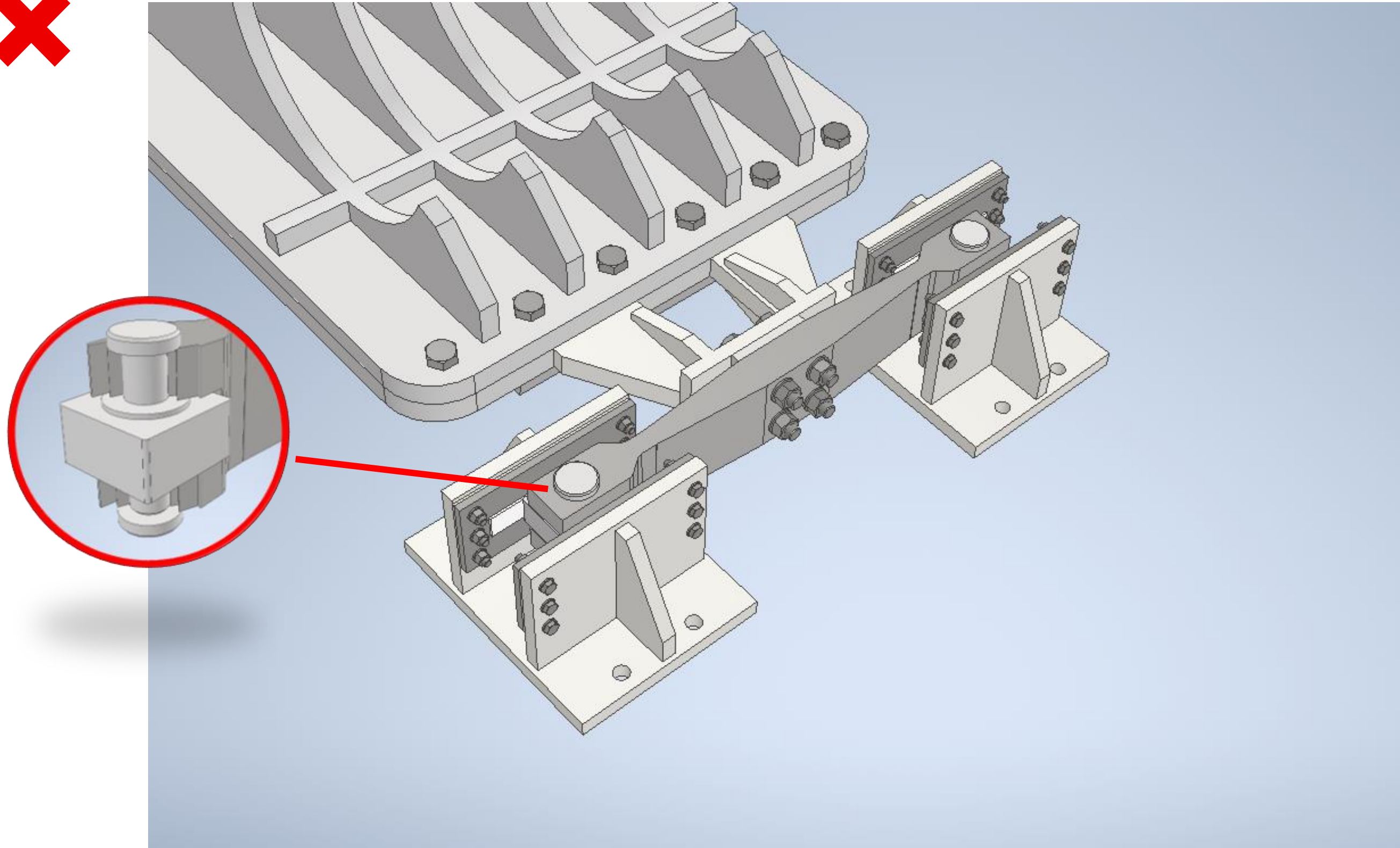
**Aardbevings-
buffers**

C

?



Het bladveersysteem



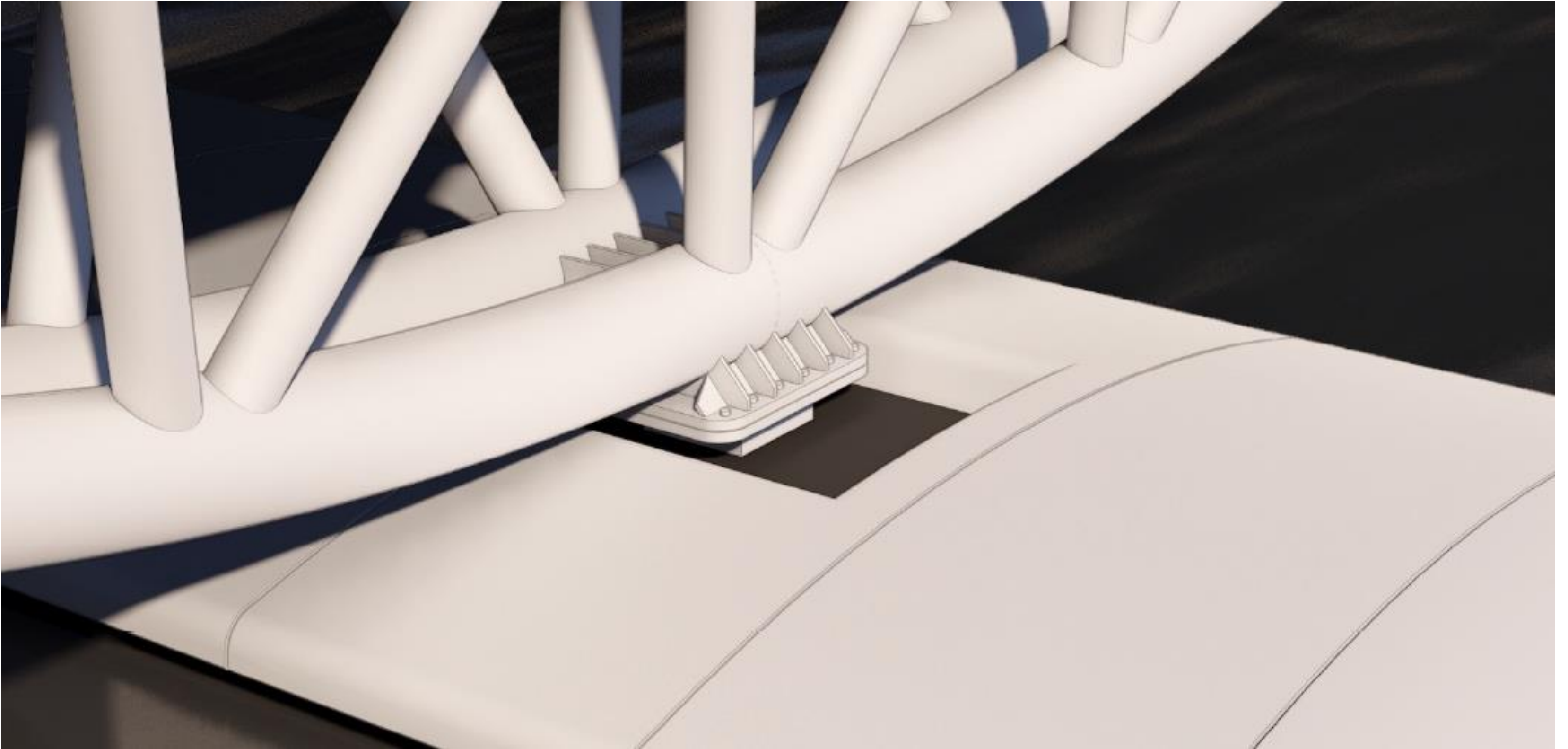
**Volgt verplaatsing
en rotatie**

**Onderdelen
vervangbaar**

**Krachten in de
onderbouw**



Inpassing





Gerealiseerd

Nu weet u wat dit is

