Absolutely

Structurally

Sound

En bild som visar himmel, vatten, utomhus, byggnad

Automatiskt genererad beskrivning

Figur , Bro i tre kvarts vy

Av: Arvid Kågedal och Andreas Charisoudis Stensudd

Inledning

Vi är två ingenjörer från Always Structurally Sound (A.S.S) som fått i uppgift att designa en 100m lång bro som ska klara 100 ton belastning d.v.s. 1 ton per meter. Den ska ligga i norra Norge och har två filer med gångbanor på sidorna. Vi valde att göra en bågbro med kablar som håller uppe vägbanan.

Bakgrund

Vi tittade på flera olika typer av broar för att få inspiration och valde i slutändan att designa en bågbro.

Bågbro

En bild som visar bro, vatten, utomhus, himmel

Automatiskt genererad beskrivningVi har valt att bygga en bågbro med vajrar som håller uppe vägbanan. Vi har tagit inspiration från Svinderviksbron i Nacka Kommun, Bugrinsky Bridge i Ryssland och Barqueta Bridge i Spanien. Bågbroar kan ha en stor spännvidd utan att behöva ha betongpelare i mitten. Eftersom kraften bron utsätts för sprids ut jämt behöver inte stålbalken vara så stor för att hålla uppe vikten. Kraften bron utsätts för flyttas till från vägbanan upp till bågen och sedan ner i berggrunden. En nackdel med Bågbroar är att de är känsliga för att falla ihop om de blir påkörda, som till exempel Tjörnbron. Men eftersom vår bro är på en plats där det finns låg båttrafik utöver fritidsbåtar är det inte ett stort problem. (Broar.net, Okänt datum)

Figur – Bågbro  
Okänd fotograf  
<https://www.diva-portal.org/smash/get/diva2:1223260/FULLTEXT01.pdf>  
sid.6

En bild som visar vatten, utomhus, himmel, byggnad

Automatiskt genererad beskrivningSnedkabelbro

Figur – Snedkabelbro   
Taget av: Marcus Bengtsson <https://sv.wikipedia.org/wiki/Fil:%C3%96resund_bridge.JPG>

Vi funderade även på att göra en snedkabelbro men valde att inte göra den på grund av hur dyr och komplicerad en sådan bro skulle vara att bygga. En snedkabelbro är en bro som bärs upp av kablar anslutna till pyloner som i sin tur har kablar fästa i huvudbärbalkar, som är balkar fästa i marken. Pylonerna och huvudbärbalkarna är oftast gjorda av betong och kablarna är gjorda av stål.

Tillvägagångssätt

Vi började med att brainstorma olika typer av broar och sökte upp fördelar och nackdelar med dem, vi kom fram till att göra en bågbro eftersom den verkade intressant och såg bra ut. Vi sökte därefter upp olika typer av bågbroar med en eller två bågar, bågen över och under vägbanan men kom fram till att bygga en med en båge över vägbanan och vajrar som håller uppe den. Vi valde den eftersom den såg relativt simpel ut att designa och för att den är stark utan att vara överdrivet tung eller dyr. Sedan började vi göra 3d modellen.

![En bild som visar text, friidrott, sport

Automatiskt genererad beskrivning](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAJAAkAAD/4TVMRXhpZgAATU0AKgAAAAgACQALAAIAAAAmAAAIhgESAAMAAAABAAEAAAEaAAUAAAABAAAIrAEbAAUAAAABAAAItAEoAAMAAAABAAIAAAExAAIAAAAmAAAIvAEyAAIAAAAUAAAI4odpAAQAAAABAAAI9uocAAcAAAgMAAAAegAAEZIc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAAAAAJAAAAAEAAAAkAAAAAVdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMjowMzowOCAyMjowNzo0NQAACJADAAIAAAAUAAARaJAEAAIAAAAUAAARfJKRAAIAAAADMDAAAJKSAAIAAAADMDAAAKABAAMAAAABAAEAAKACAAQAAAABAAAEUKADAAQAAAABAAADPOocAAcAAAgMAAAJXAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figur , Skiss av bro

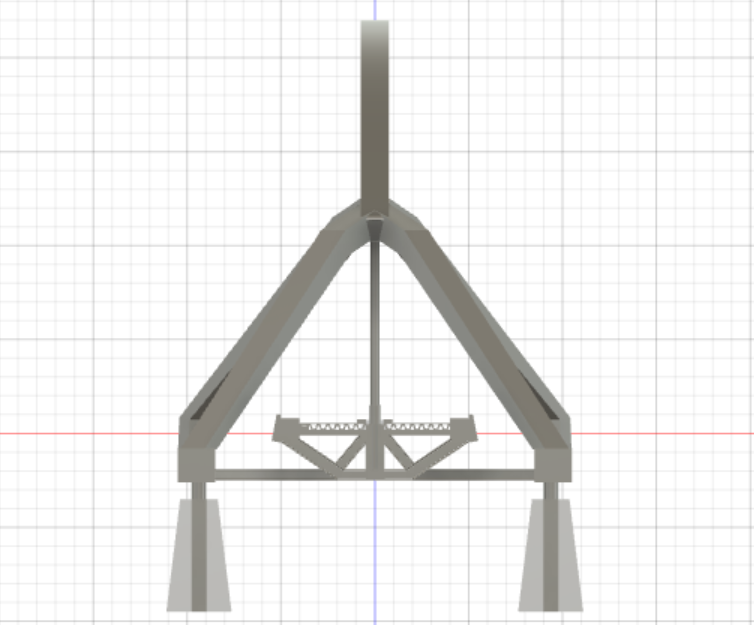
Resultat

Här presenterar vi hur vår bro blev och våra hållfasthetsberäkningar som tog oss dit. Vi motiverar också våra val av material.

Hållfasthetsberäkningar

Beräkning av den maximala dragbelastning en av våra I balkar kan utsättas för med en säkerhetsfaktor av tre. Balkens tvärsnittsarea är 0,194 m² eller 194000mm². ASTM A36 som är det stål vi använder har en sträckgräns på 250 MPa som kan ökas med cirka 40% av värmebehandling till 350 MPa. (Matmatch. Okänt datum) (V. K. Judge, J. G. Speer, K. D. Clarke, K. O. Findley & A. J. Clarke, 2018) (F/A=σ. F/194 000=350. Max dragspänningen balken klarar av är 67 900kN med säkerhetsfaktor 3 är maximala dragspänningen balken får utsättas för är 22 633 kN.

Beräkning av diameter på vajrar. Det är nio vajrar som behöver hålla uppe 90 meter bro tillsammans eftersom marken håller upp fem meter på var sida. Varje vajer behöver hålla 1 ton per meter gånger 10 meter plus vikten av tio meter bro, som vi uppskattar till 60 ton. Spänningen i vajern blir σmax = F/A. Spänningen(F) i varje vajer blir 10 000 kg + 60 000kg. 60 000kg är en spänning på 600 000N. Sigma max(σmax) är den maximala belastningen vajern får utsättas för per kvadratmillimeter, med en säkerhetsfaktor (ns) 3 behöver den verkliga sträckgränsen (Re) vara Re = σmax \* ns. Re för vajer är cirka 1 600 N/mm2. (K.K. Chawla, 2002) 1 600/3= 533.33. σmax=F/A. 533.33= 600 000/A. 136mm2. Vajerns styrka är inte ett problem men vi vill göra den tjockare för att den ska hålla över tid.



Figur , Bro sedd från kortsidan

En bild som visar text, järnväg, järnvägsspår

Automatiskt genererad beskrivning

Figur , Simulering av bro

Materialmotivering

Vi valde att använda värmebehandlat kolstål till vår bro eftersom det är starkt, flexibelt och lätt att forma och svetsa. Detta gör att det blir billigare eftersom vi använder mindre stål än obehandlat kolstål och lättheten att bygga med det gör också att det tar mindre arbetstimmar att bygga bron vilket också hjälper med att göra bron billigare. (Gio Valle, 2022)

Vi valde att inte använda cortenstål eftersom vi inte tror att färgen skulle se bra ut men framför allt på grund av att det både är känsligt för saltvatten och vägsalt, två saker vår bro kommer i kontakt med mycket. Men vi valde även bort det på grund av att risken är stor att stålet skulle färga av sig på betongpelarna i vattnet och vägbanan under tiden det rostade. (Gio Valle, 2022)

Miljö

Vi valde att bygga vår bro av svenskt stål och inte betong eftersom det krävs stora mängder betong för att bygga en bro och utvinningen av betong är väldigt resurskrävande. (Natur och miljö, 2018) LKAB tillverkar stål som är mycket bättre för miljön än betong, de är världsledande i att minimera utsläpp från ståltillverkning. (LKAB, 2018)

Kostnad

På $850 per ton är värmebehandlat kolstål billigare än rostfritt stål som kostar $1400 per ton. Vi jämförde vår bro med andra av liknande storlek och material och kom fram till ett pris om 50 miljoner kronor.

Diskussion

Vår bro höll men var väldigt överdimensionerad, vi valde att inte förändra den eftersom den ska klara av Nordnorges starka vindar och hårda regn som inte är med i simulationen. Många delar är tjocka för att inte hålla även om de blir lite korroderade. Vi hade kunnat göra vårt fackverk glesare för att spara pengar och material. Vajrarna kunde även ha varit tunnare av samma anledningar.

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