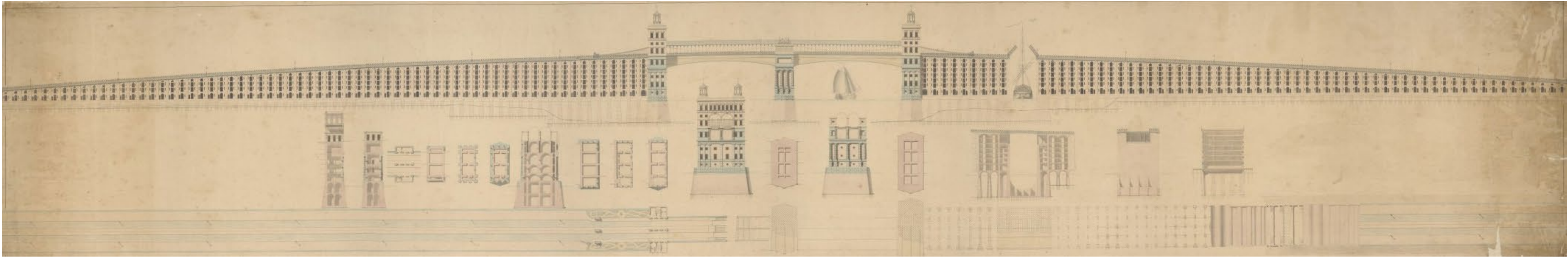


JUMP ~~OVER~~ ONTO THE IJ

A MULTI-FUNCTIONAL BRIDGE AS AN ACTIVE CONNECTION
BETWEEN THE NORTH AND SOUTH OF AMSTERDAM

Timber for Urban Density
Marloes van Zee
4840836

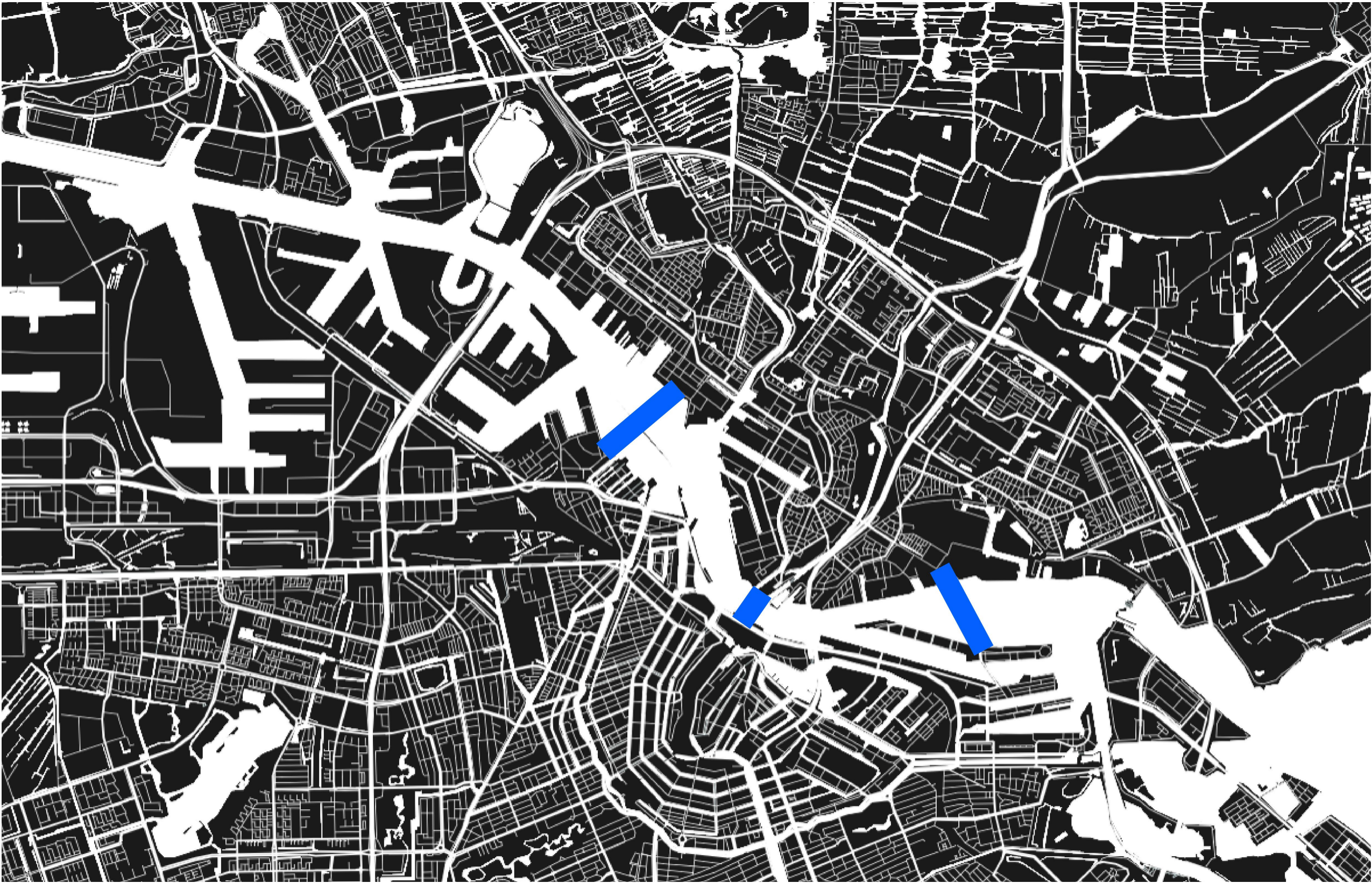


Bridge design by Jan Galman in 1852, Amsterdam City Archive



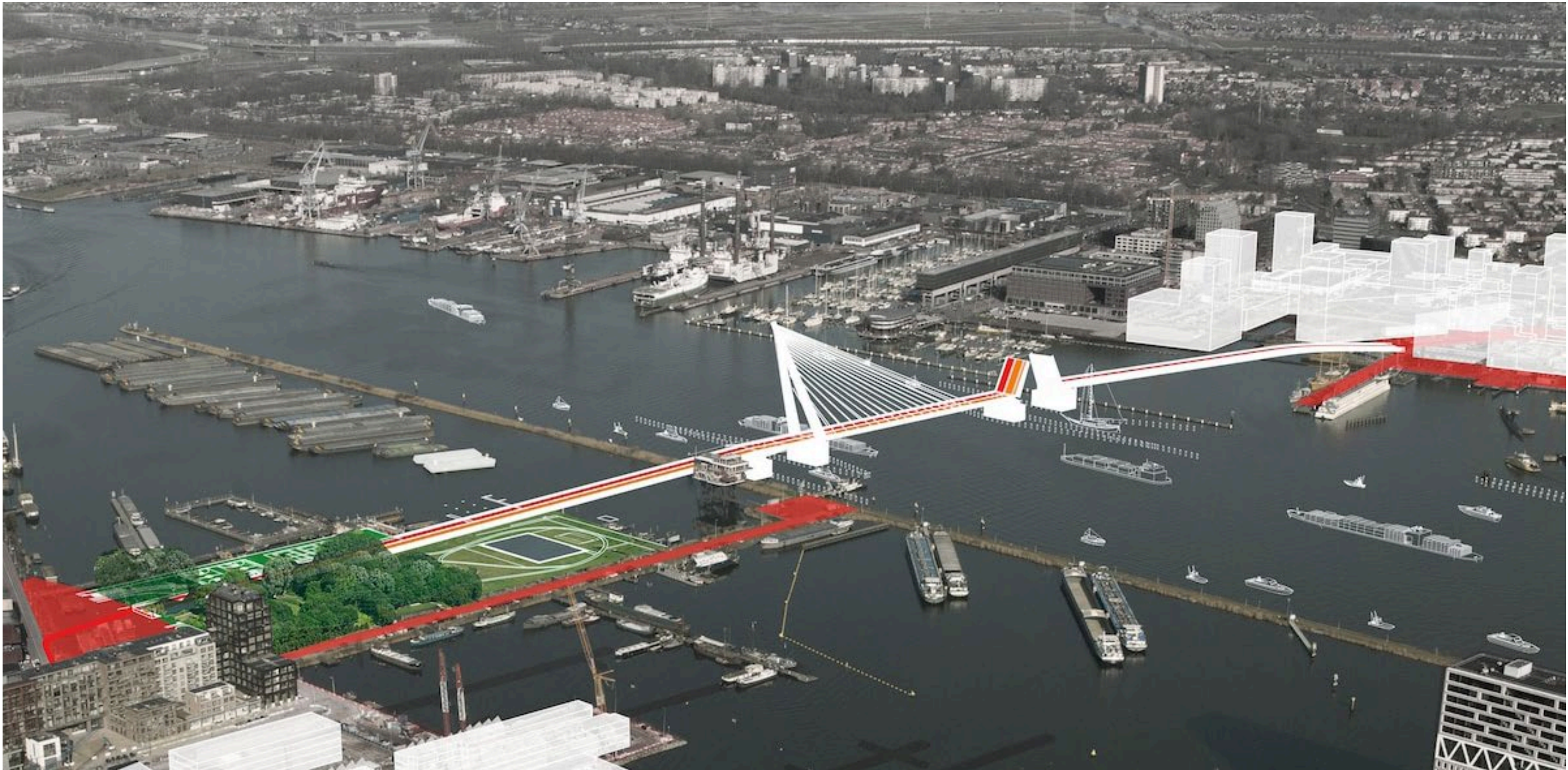
HAVENSTAD PLAN AREA

- + 70.000 homes
- + 58.000 places to work



LOCATIONS OF THE PROPOSED BRIDGES AND TUNNEL

WHICH SPACES CAN BE USED BETTER?



WEST-BRIDGE PROPOSAL FROM THE MUNICIPALITY



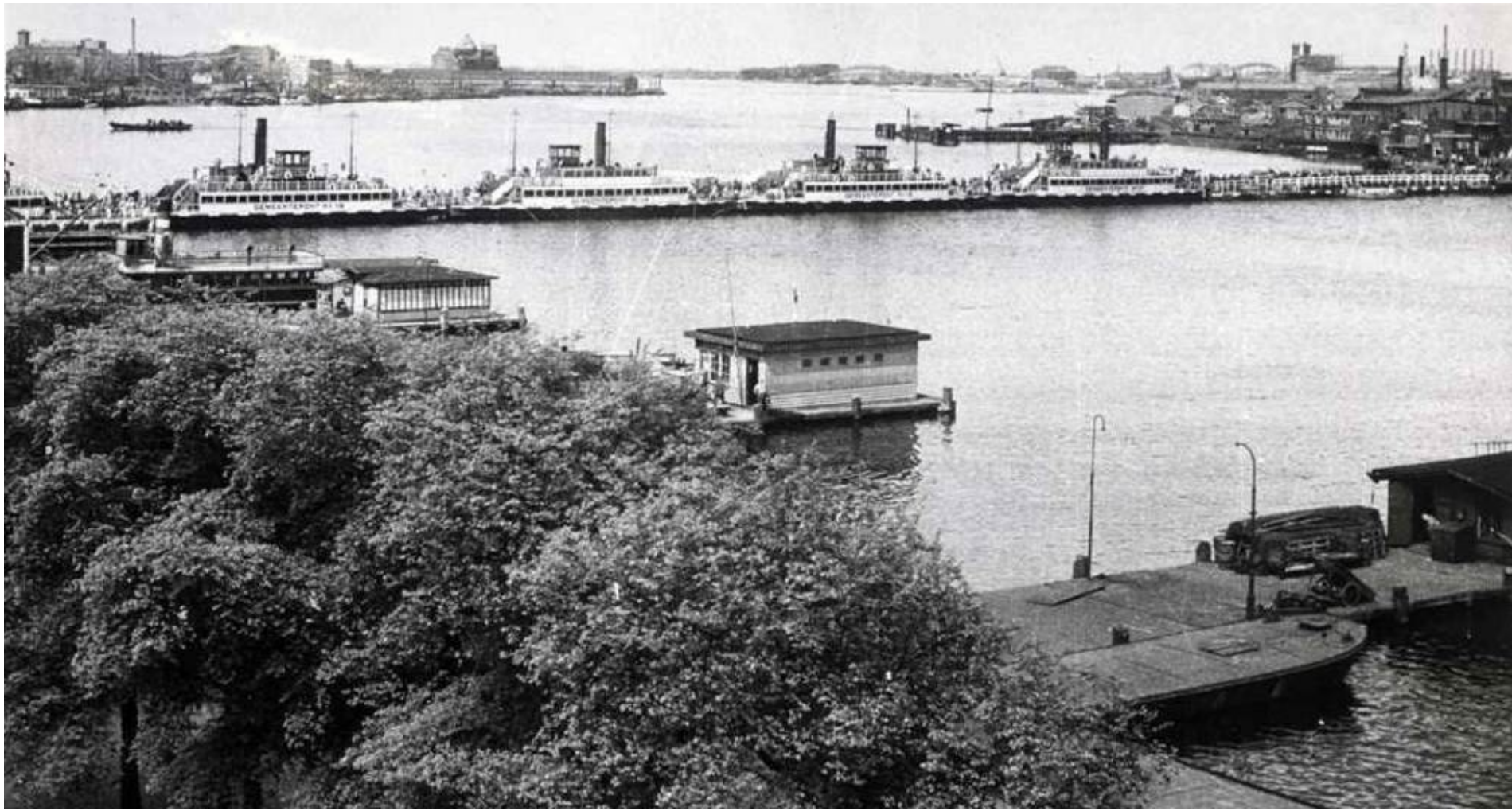
THEN



NOW



JUMP
OVER ONTO
THE IJ



Ferry bridge crossing the IJ in 1945



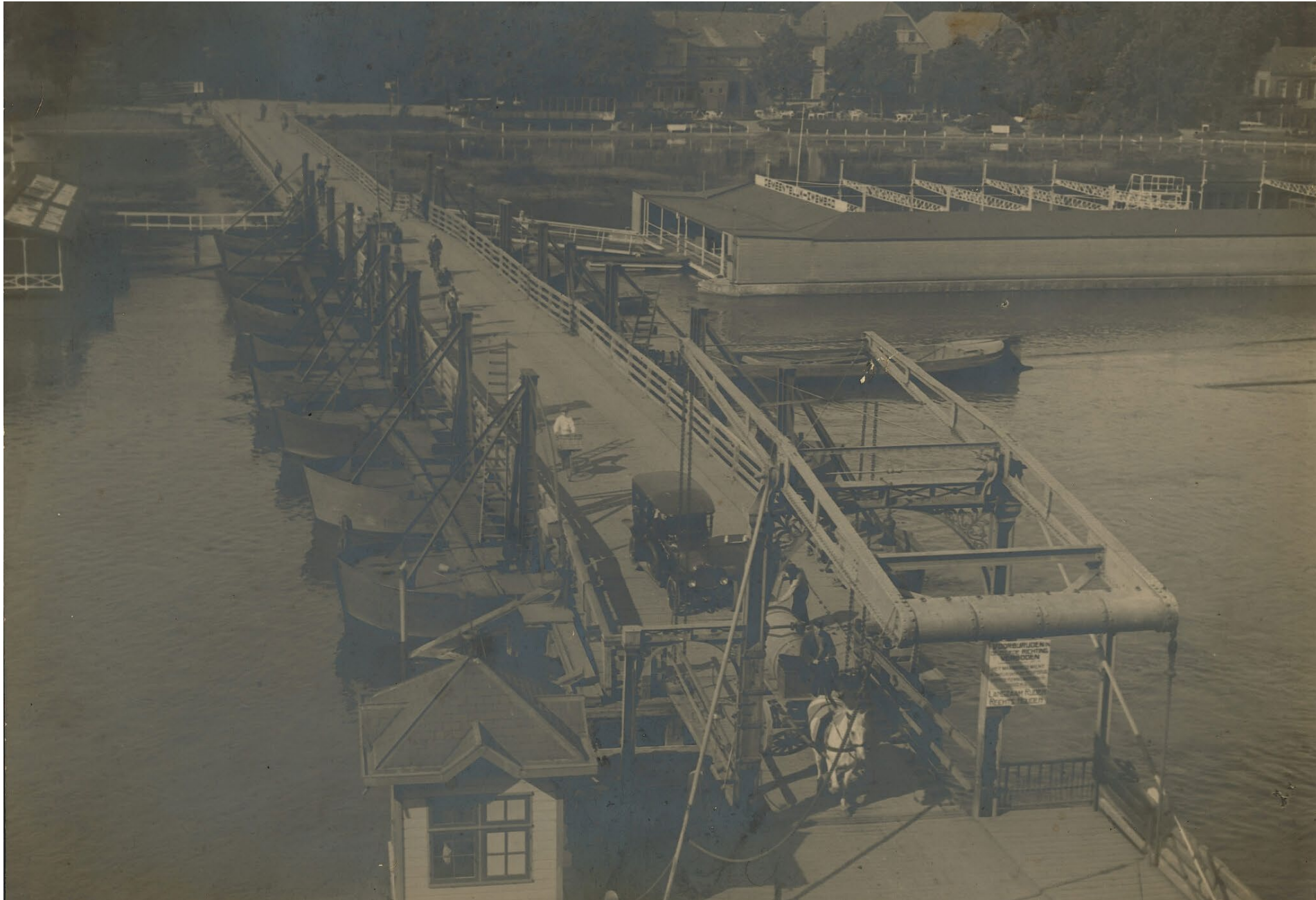
Temporary monument on liberation day in 2016

THEN



NOW





DEVENTER



ARNHEM

DESIGN CONCEPT

FLOATING MULTIFUNCTIONAL BRIDGE

RESEARCH QUESTION

**HOW CAN A BRIDGE CROSSING THE IJ RIVER IN AMSTERDAM SERVE AS A
MULTIFUNCTIONAL SPACE THAT CONTRIBUTES TO THE URBAN DENSITY AND
CREATES AN ACTIVE CONNECTION BETWEEN THE NORTH AND SOUTH OF
THE CITY?**

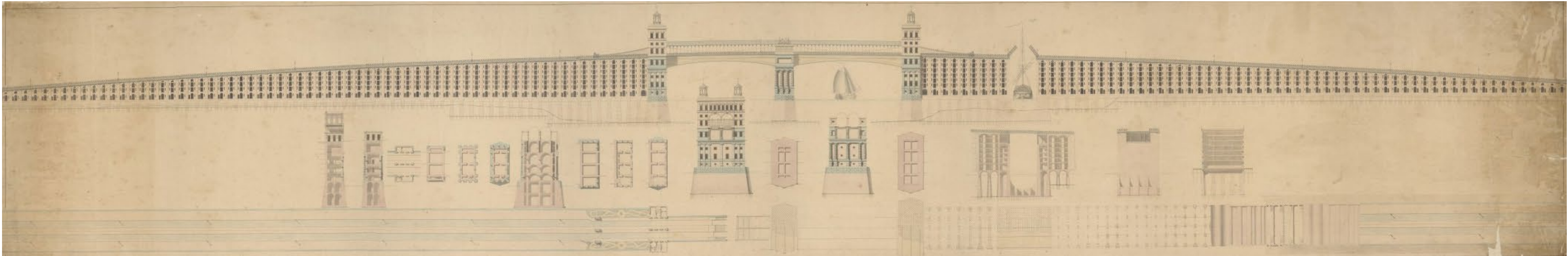
MULTI-USE

STORY OF THE
BRIDGE

HOW CAN A BRIDGE CROSSING THE IJ RIVER IN AMSTERDAM SERVE AS A
MULTIFUNCTIONAL SPACE THAT CONTRIBUTES TO THE URBAN DENSITY AND
CREATES AN ACTIVE CONNECTION BETWEEN THE NORTH AND SOUTH OF
THE CITY?

ADDED VALUE

STORY OF THE BRIDGE IN AMSTERDAM



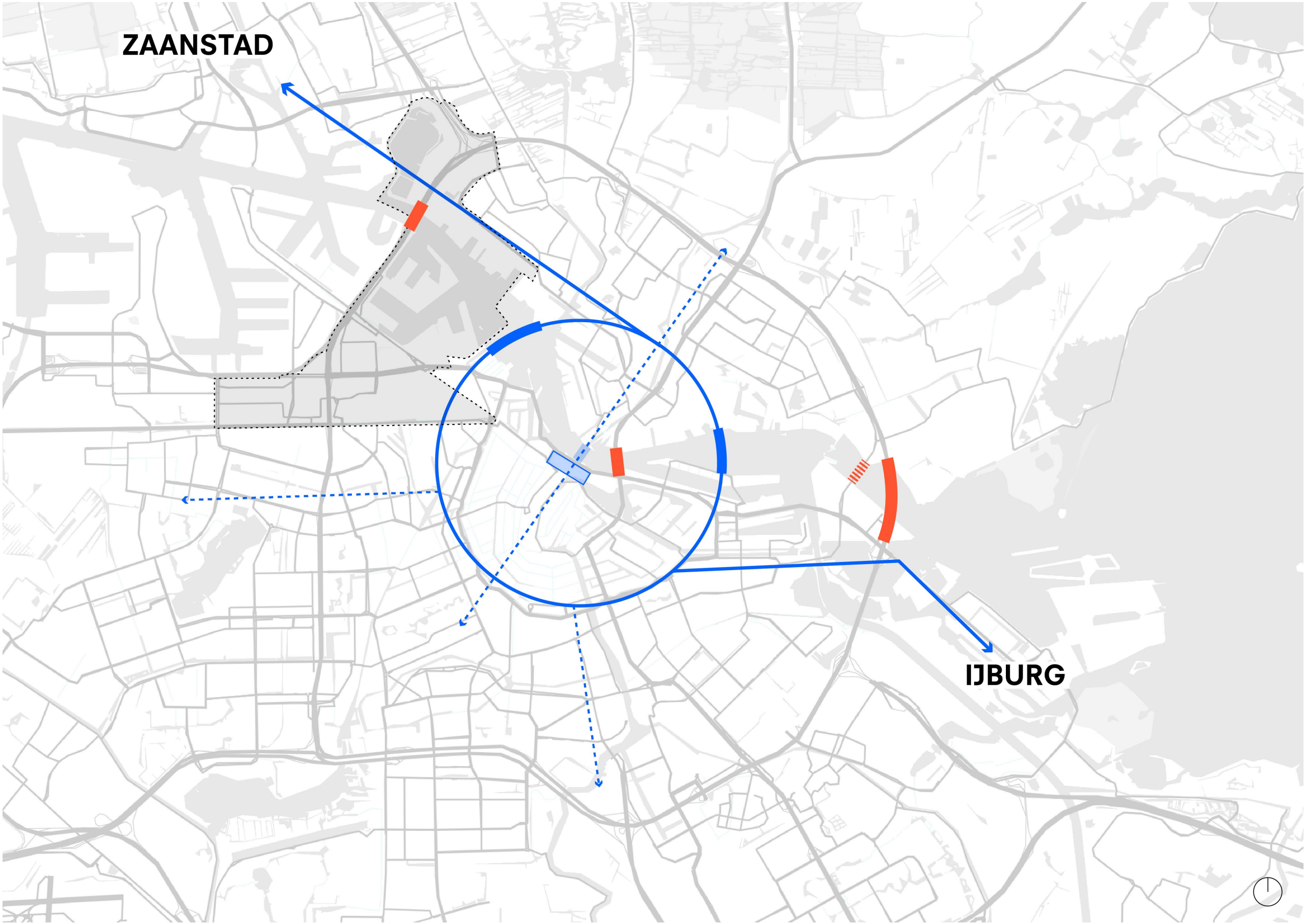
THEN

NO DEMAND, NORTH IS NOT DEVELOPED
TOO MUCH IMPACT ON THE HARBOUR

NOW

NORTH IS DEVELOPED AND WILL GROW FURTHER
HARBOUR IS STILL IMPORTANT

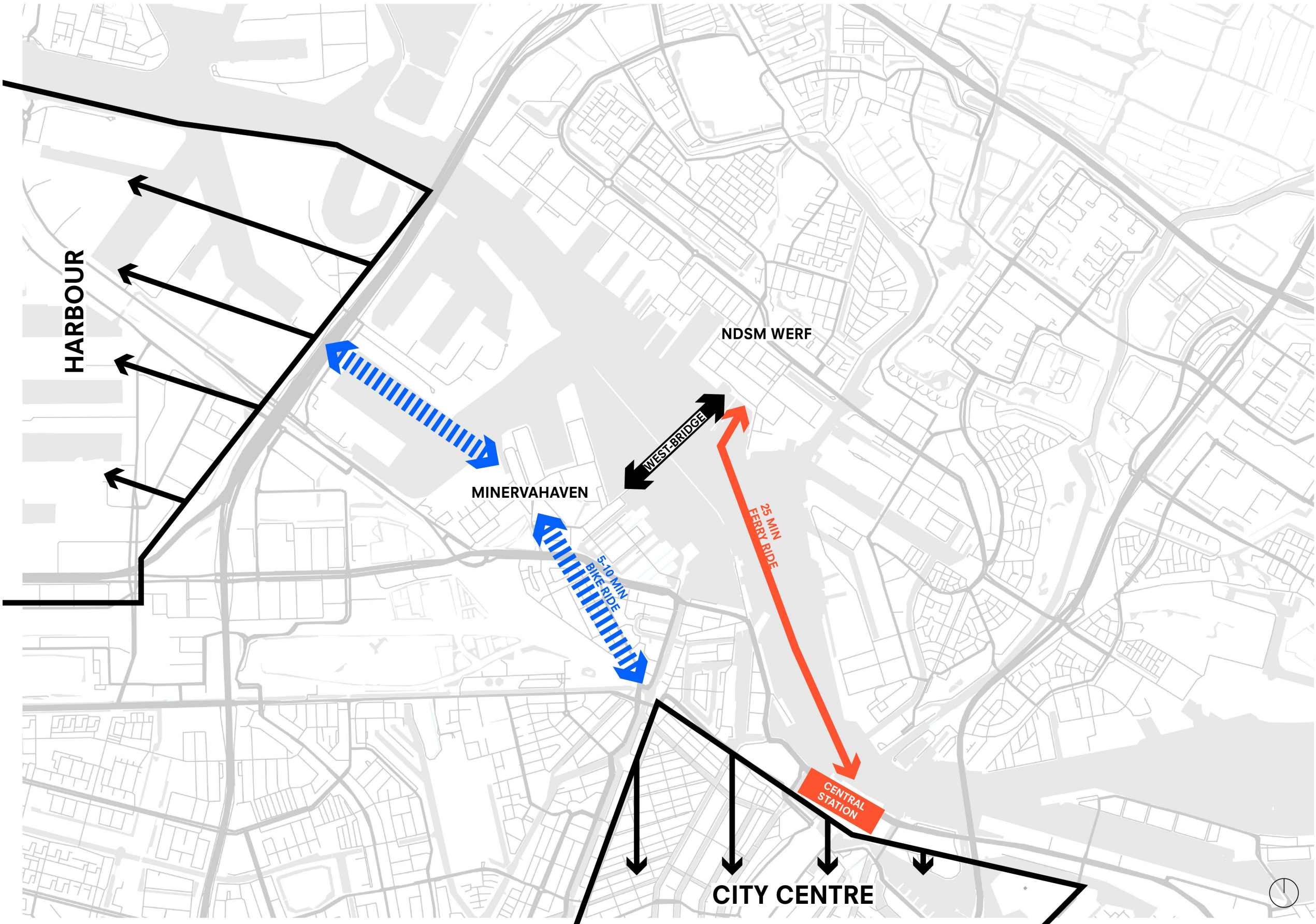
WHY/WHAT?



+ CONNECT NORTH AND SOUTH
+ CONNECT TO BIKE NETWORK

- EXISTING CONNECTIONS ONLY FOR CARS

BRIDGE
+ BIKES AND PEDESTRIANS

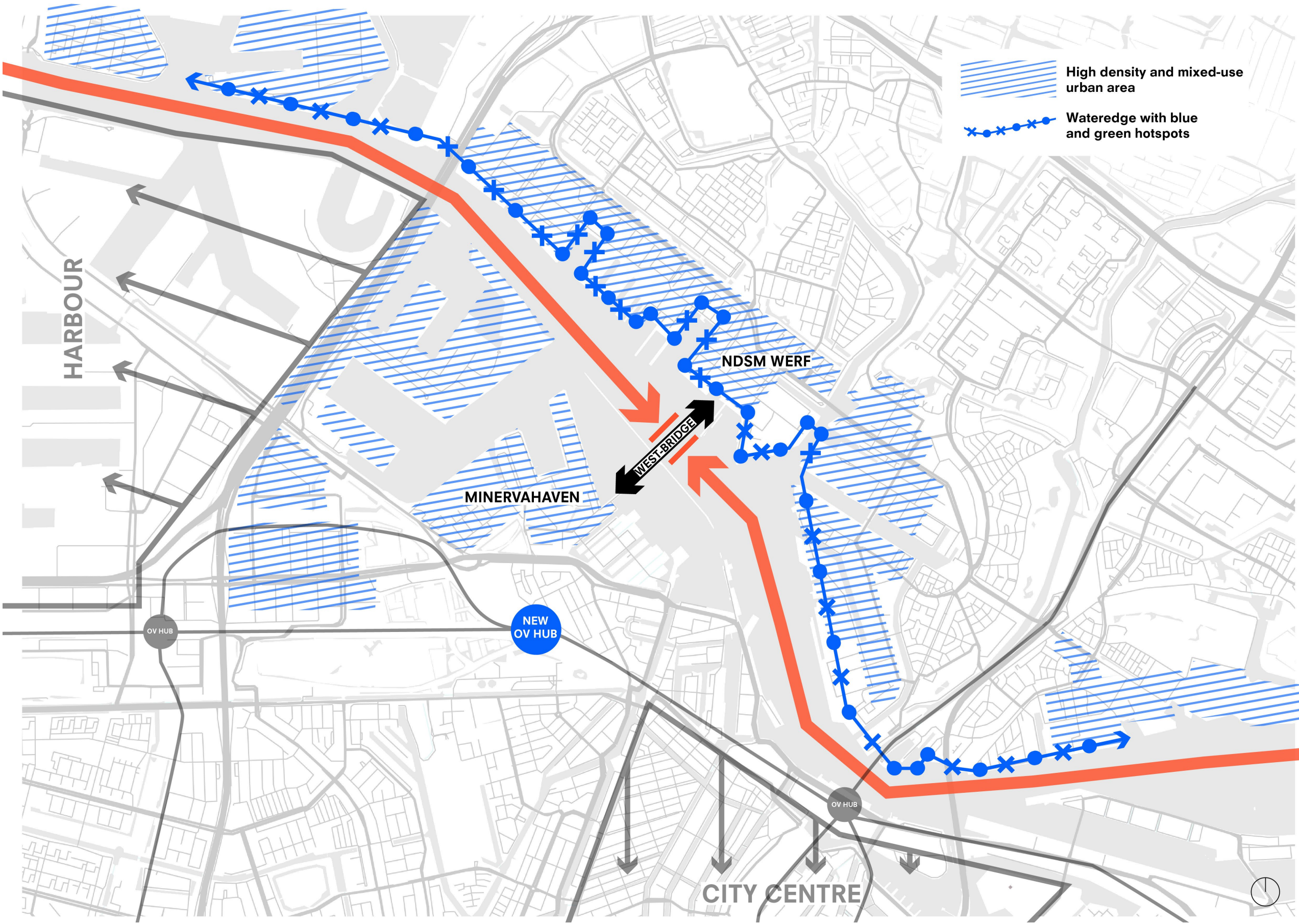


+ ON THE BORDER OF HARBOUR AND CITY CENTRE

**- LONG FERRY RIDE
- PRESSURE ON THE FERRIES**

BRIDGE

**+ RELEASE PRESSURE ON THE FERRIES
+ LESS TRAVEL TIME TO THE NORTH**



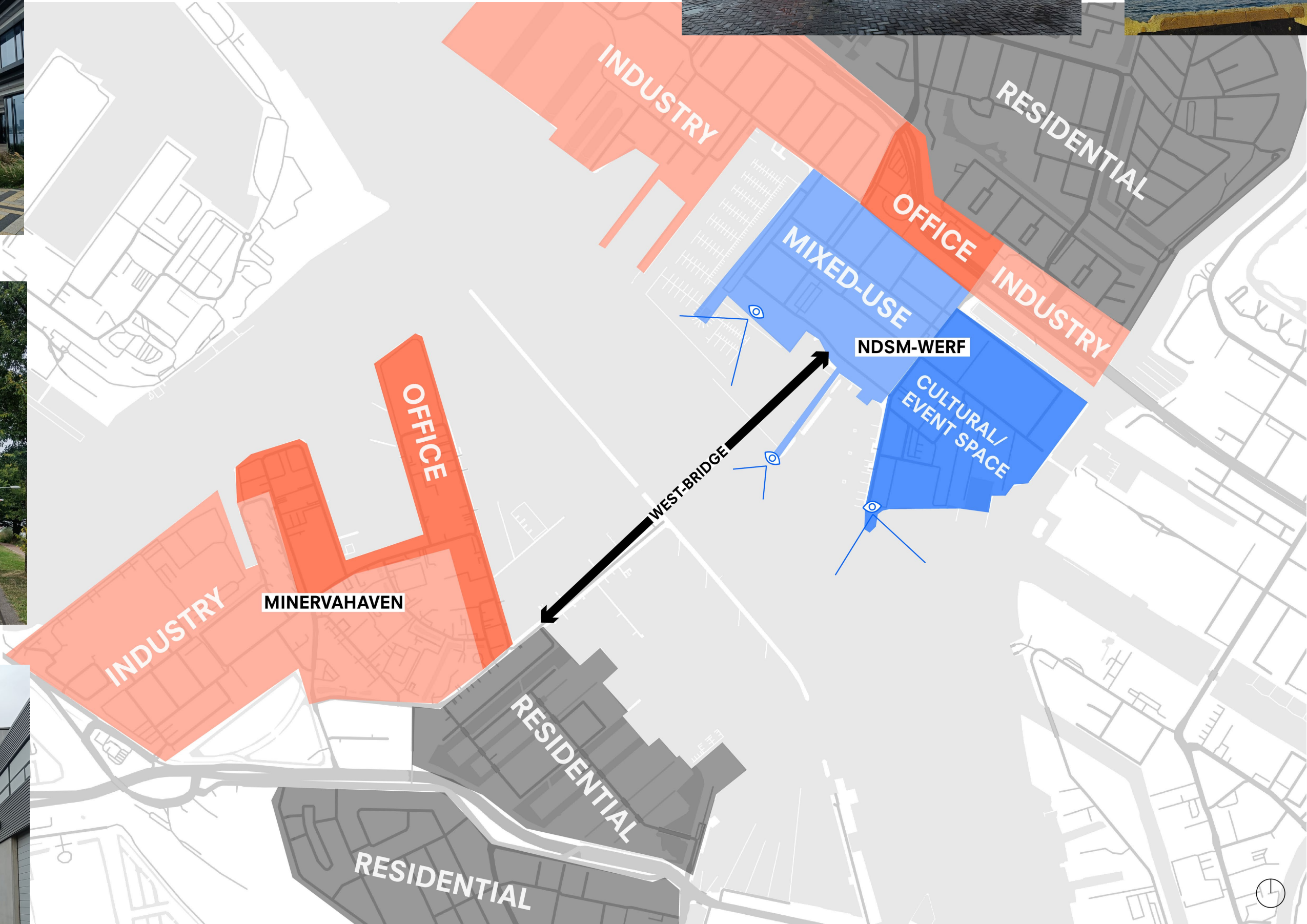
+ HAVENSTAD TRANSFORMATION
+ PROXIMITY TO NEW OV-HUB

- IMPACT ON HARBOUR TRAFFIC

BRIDGE

**+ CONTRIBUTE AND CONNECT TO HAVENSTAD
TRANSFORMATION**
+ RIGHT MEASUREMENTS AND OPENABLE FOR RIVER TRAFFIC

JUMP
OVER ~~ONTO~~
THE IJ



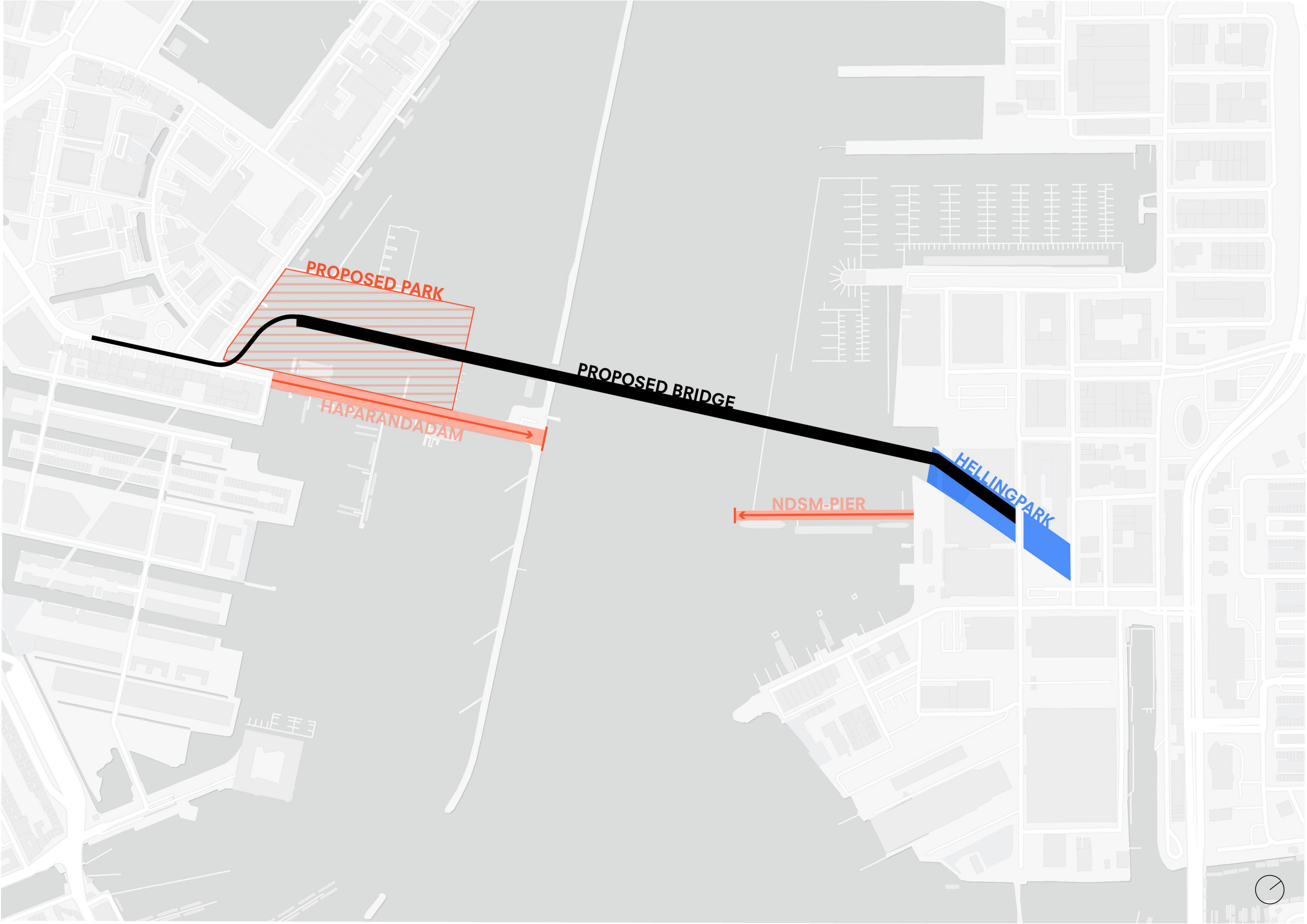
+ VIEW
+ CREATIVE AND INDUSTRIAL CHARACTER

- MONOFUNCTIONAL
- LACK OF FACILITIES
- ONLY LIVELY AT TIMES
- RESIDENTIAL AREA SEPARATED FROM THE RIVER

BRIDGE

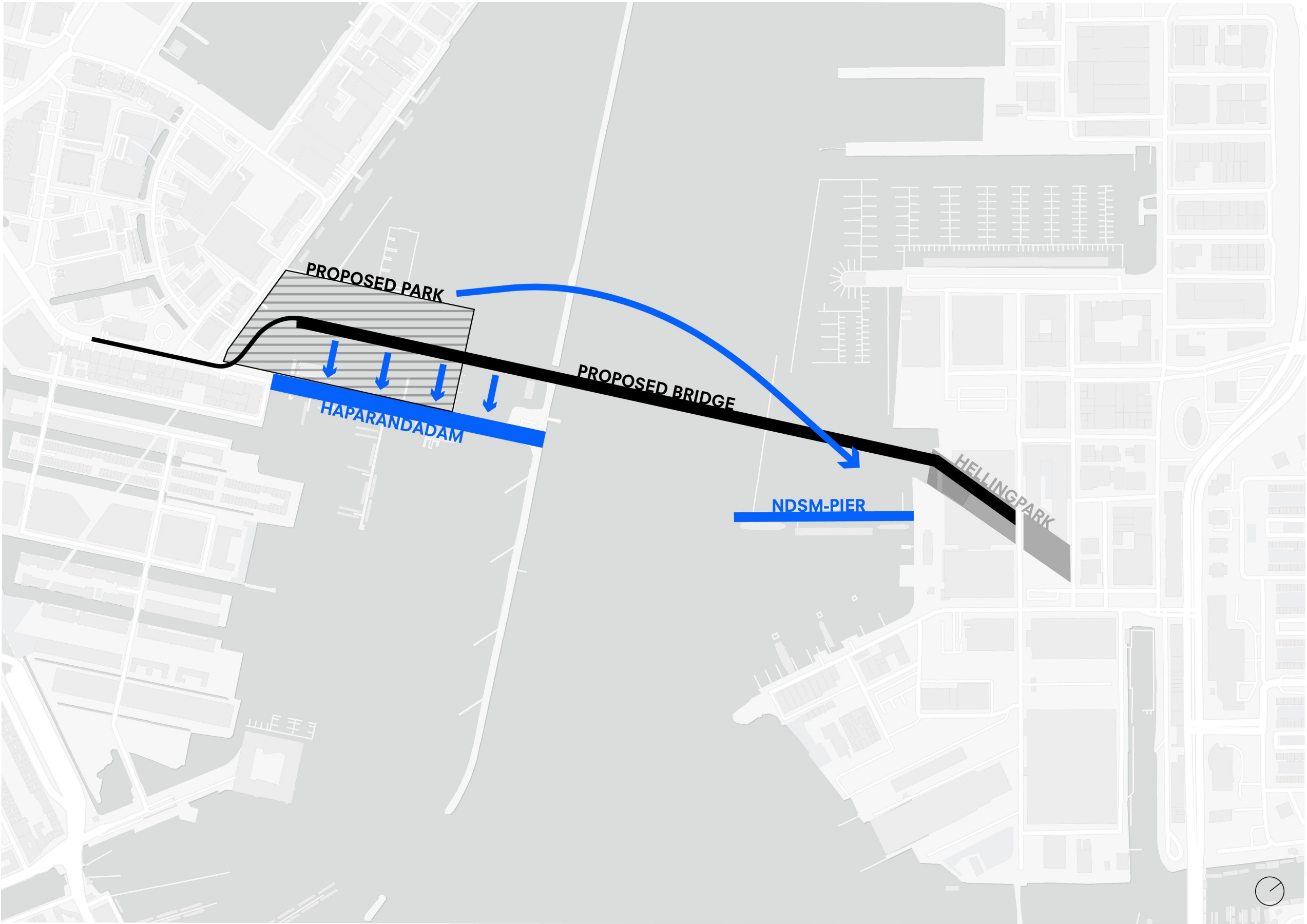
+ ADD FACILITIES AND HOUSING CLOSE TO THE WATER
+ CONNECT TO THE CHARACTERS OF THE CONTEXT

HOW?

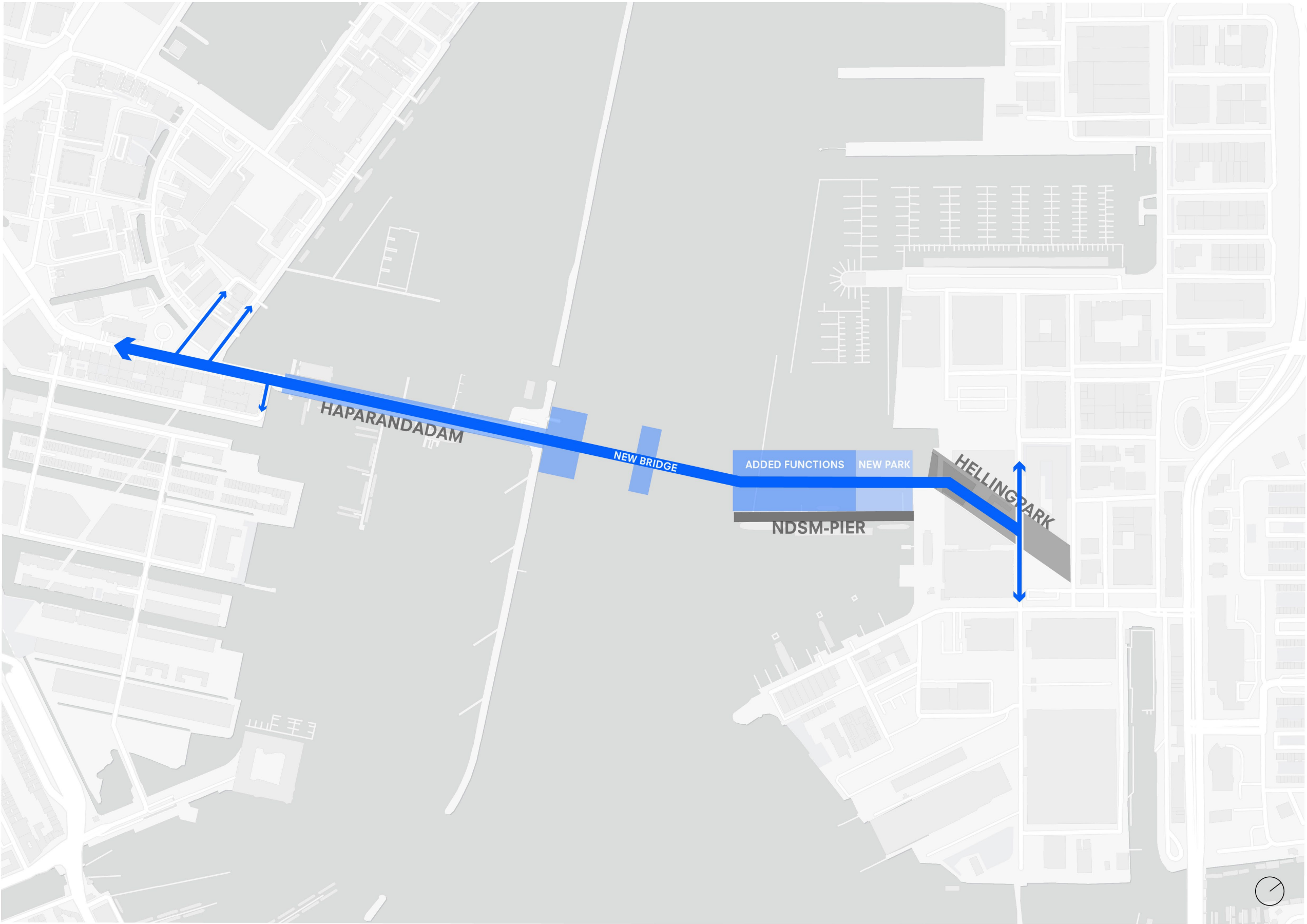


+ CONNECTION TO HELLINGPARK

- DEAD END
- IMPACT ON HARBOUR

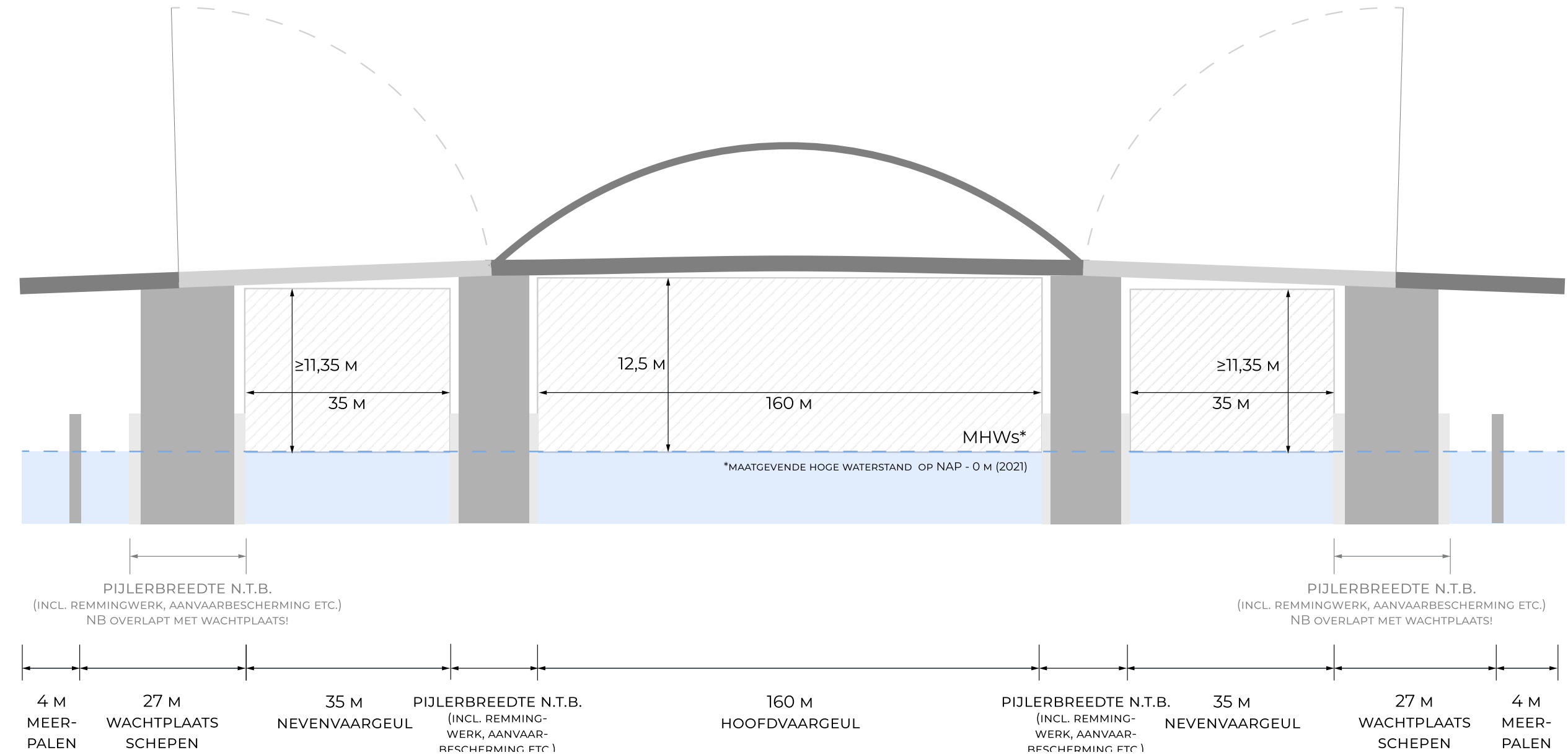


- + MOVE THE PARK
- + USE EXISTING STRUCTURES
- + ACTIVATE THE DAM AND THE PIER

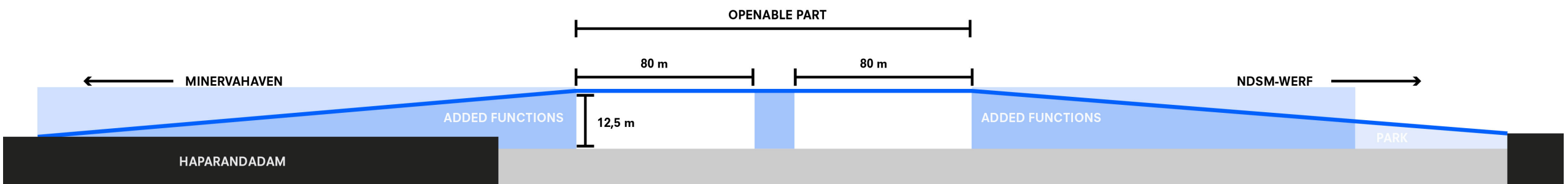


NEW BRIDGE LOCATION

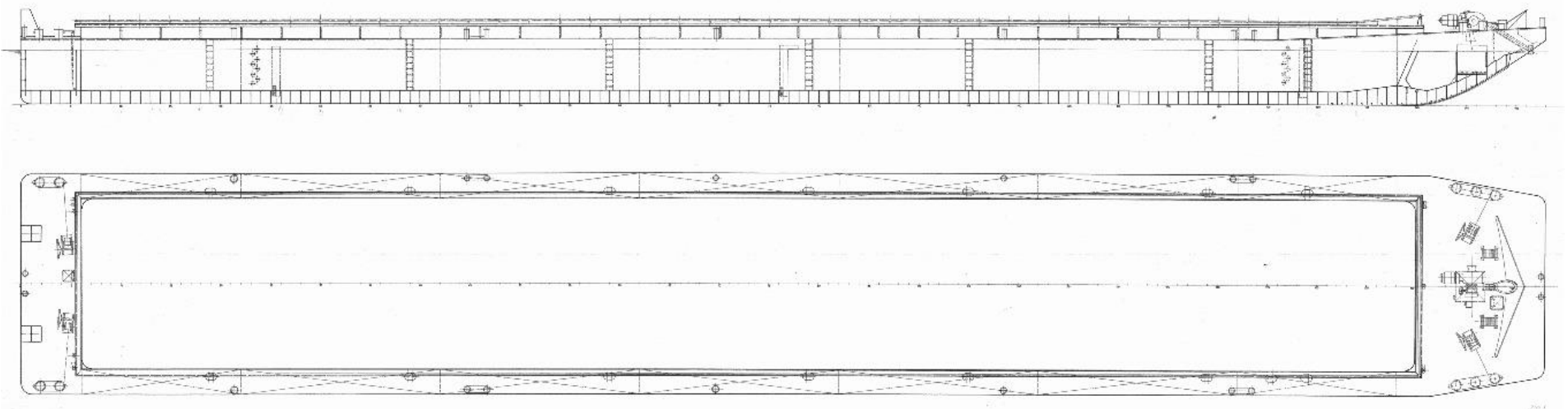
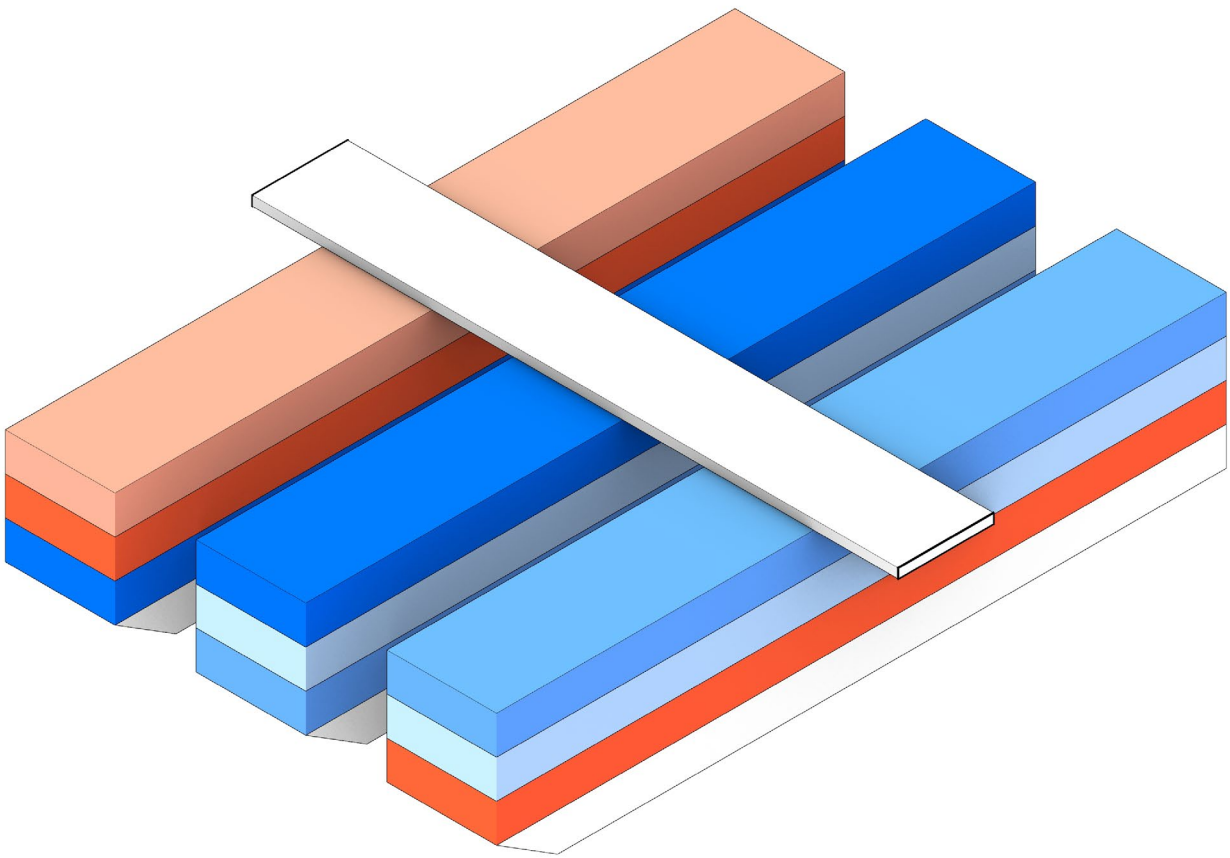
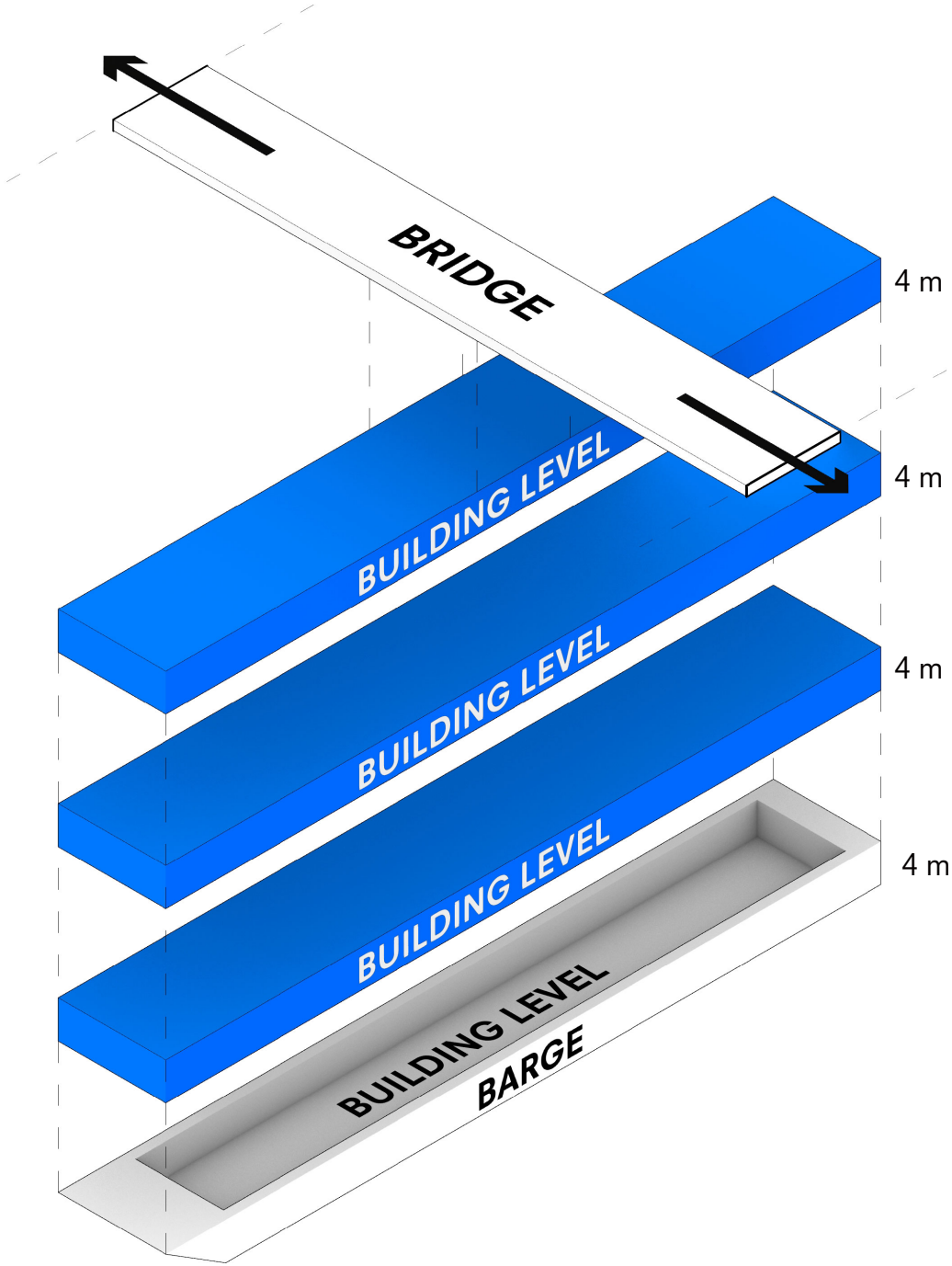
Actualisatie Nota van Uitgangspunten Sprong over het IJ 2022



MEASUREMENTS FROM THE MUNICIPALITY



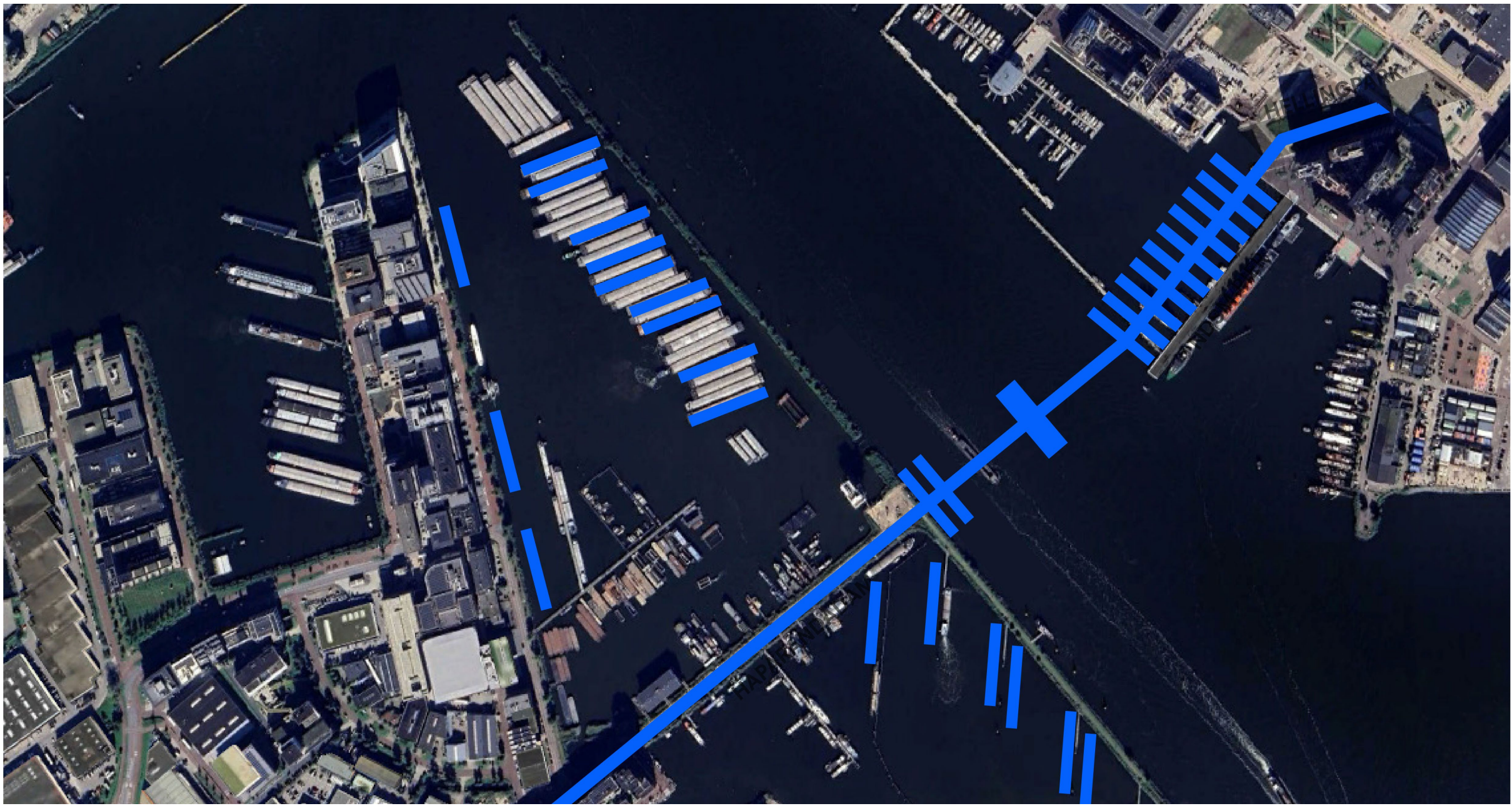
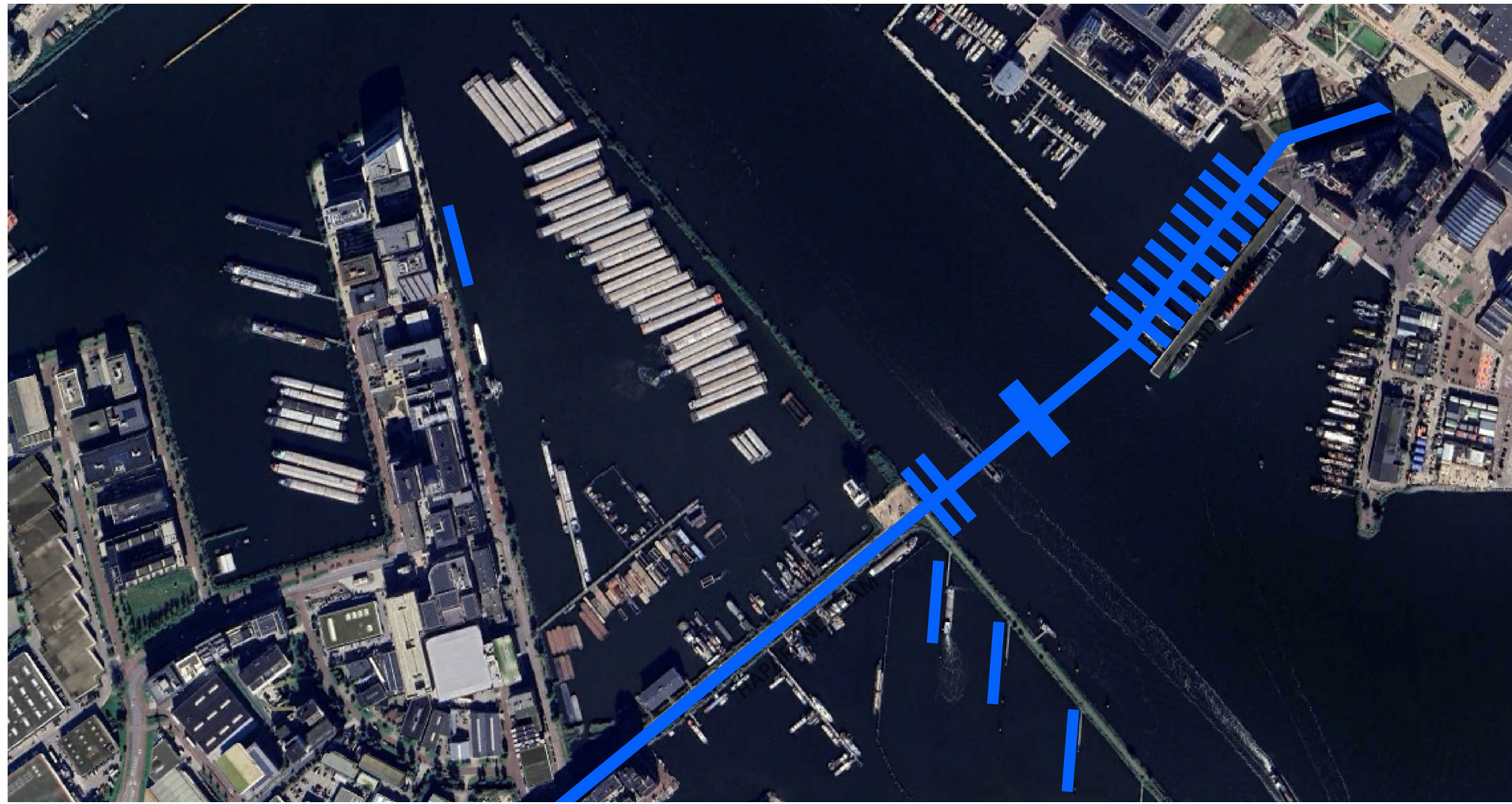
APPLICATION TO THE BRIDGE



4 m

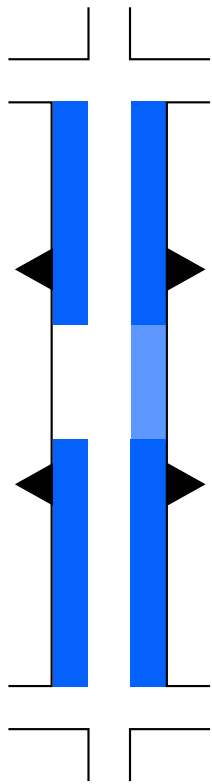
11,5 m

76,5 m

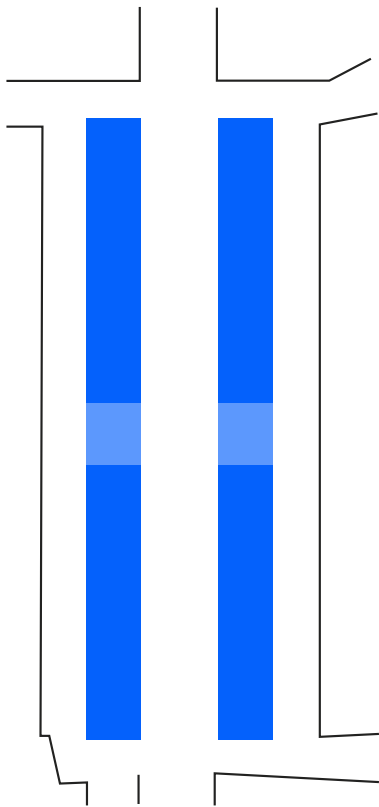


WHERE?

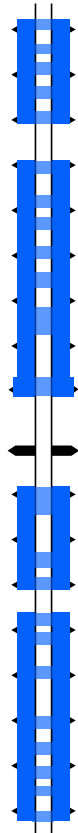
PONTE VECCHIO



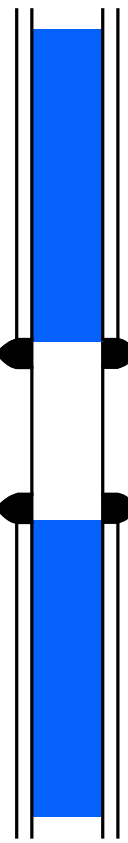
PONTE DI RIALTO



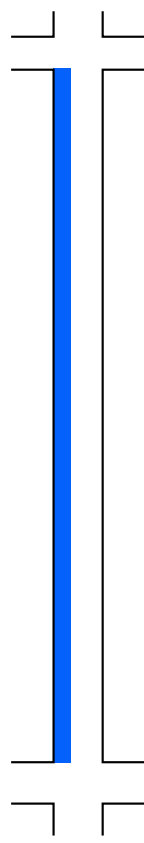
OLD LONDON BRIDGE



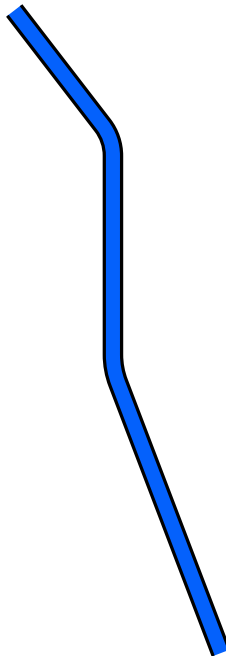
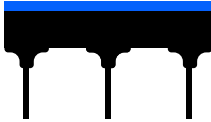
GALATA BRIDGE



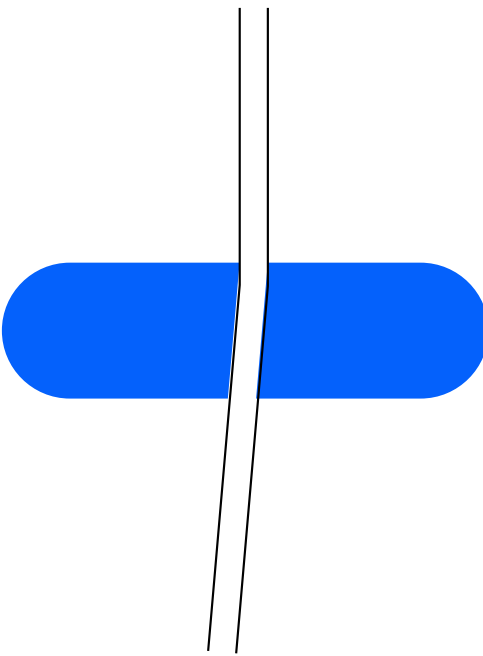
SIMONE VEIL BRIDGE



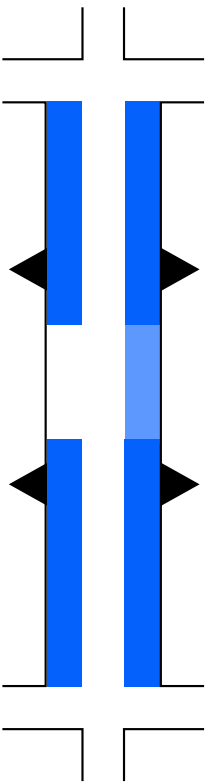
HIGH LINE



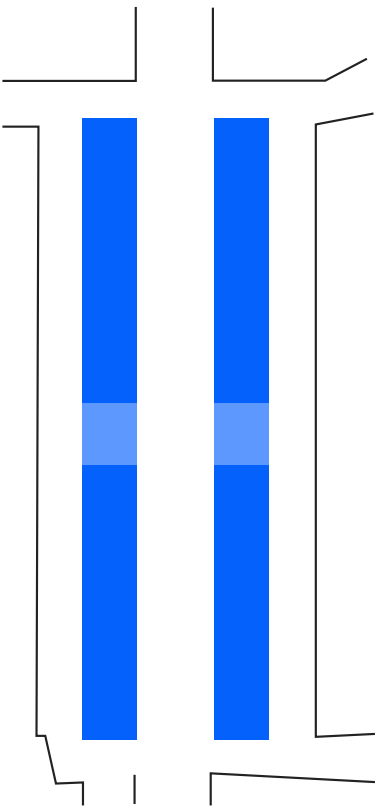
NODEUL ISLAND



PONTE VECCHIO



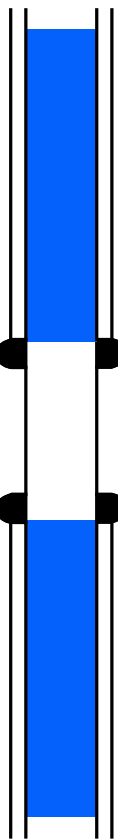
PONTE DI RIALTO



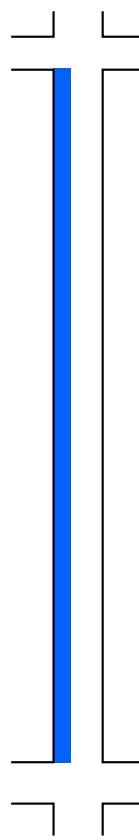
OLD LONDON BRIDGE



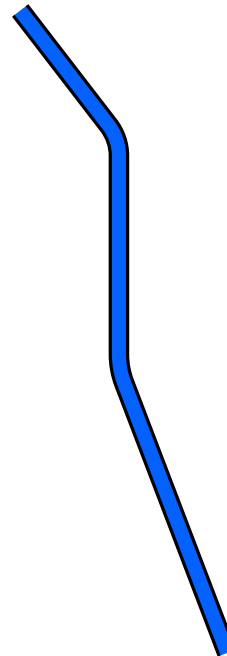
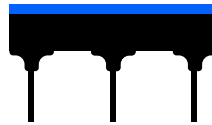
GALATA BRIDGE



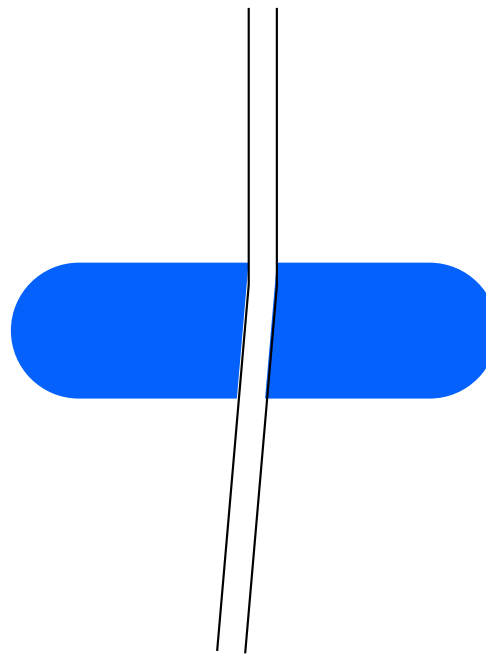
SIMONE VEIL BRIDGE



HIGH LINE



NODEUL ISLAND

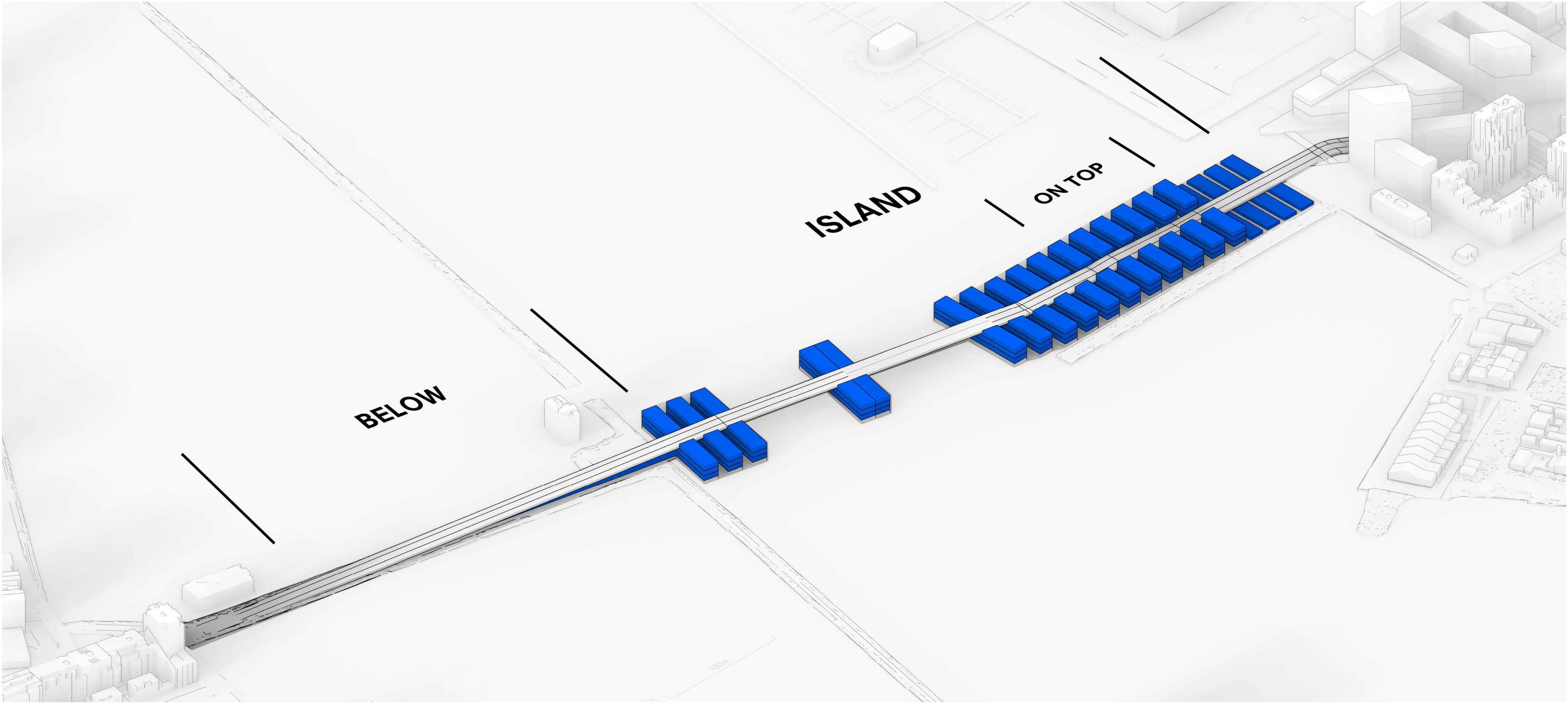


ON TOP

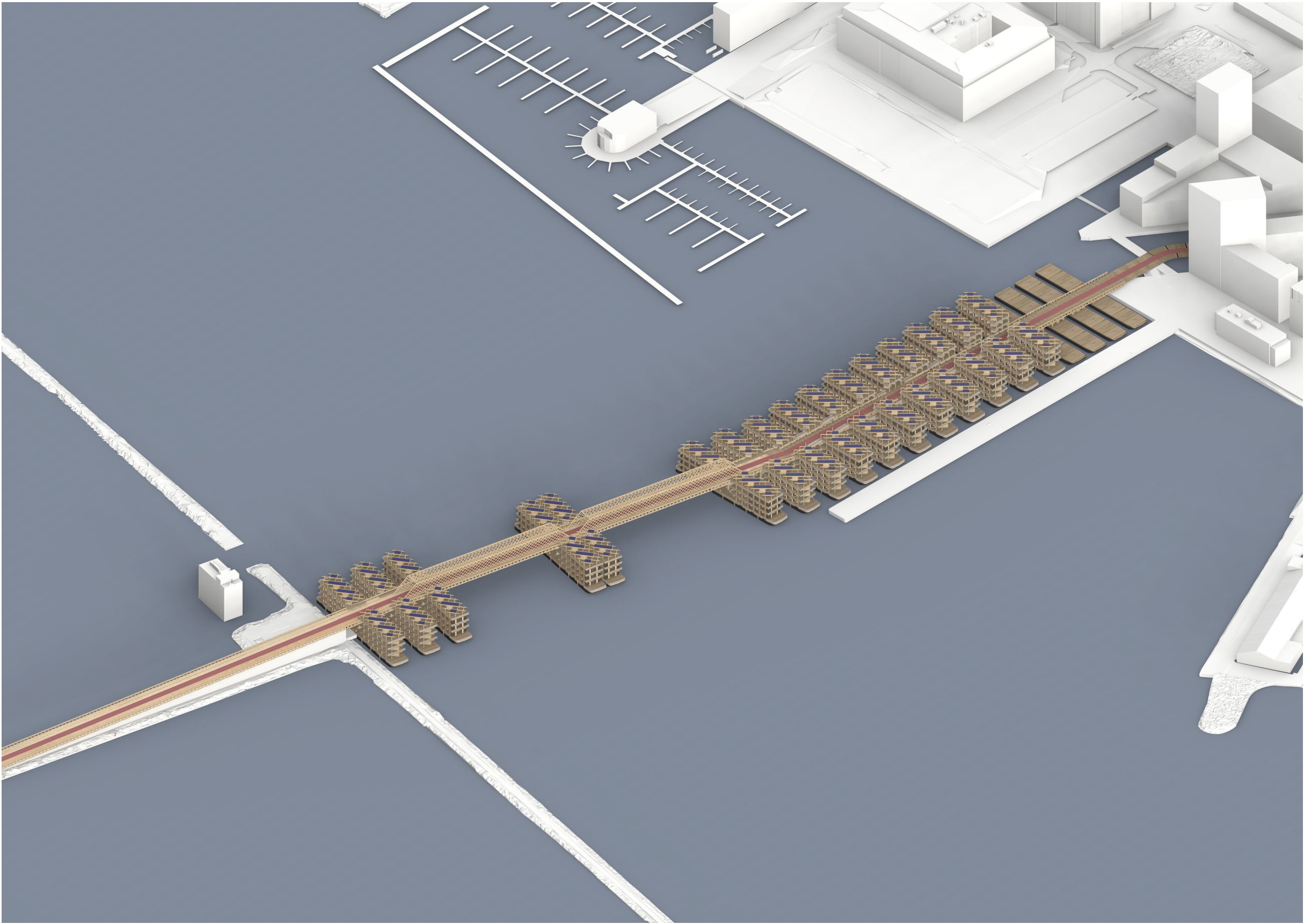
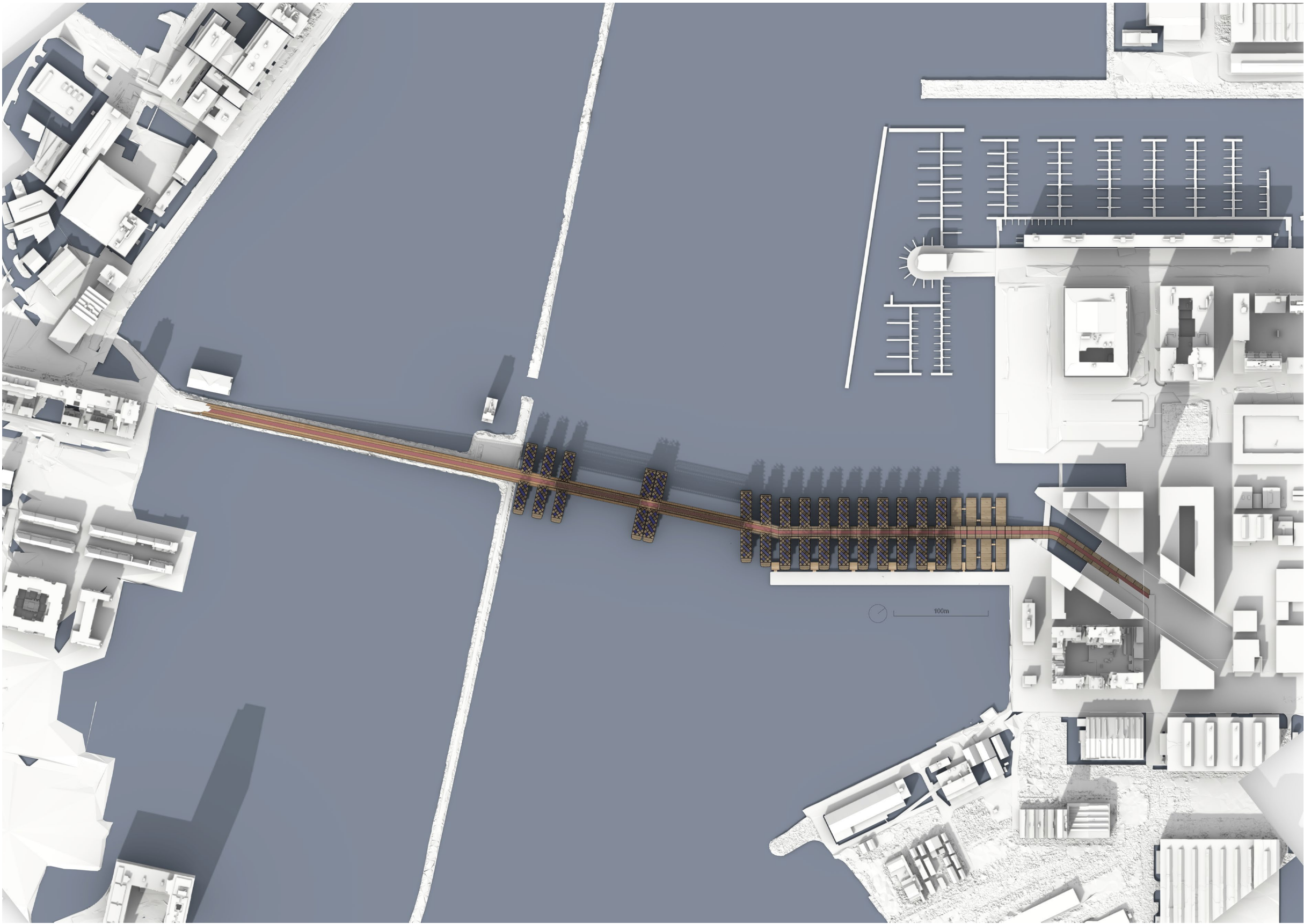
BELOW

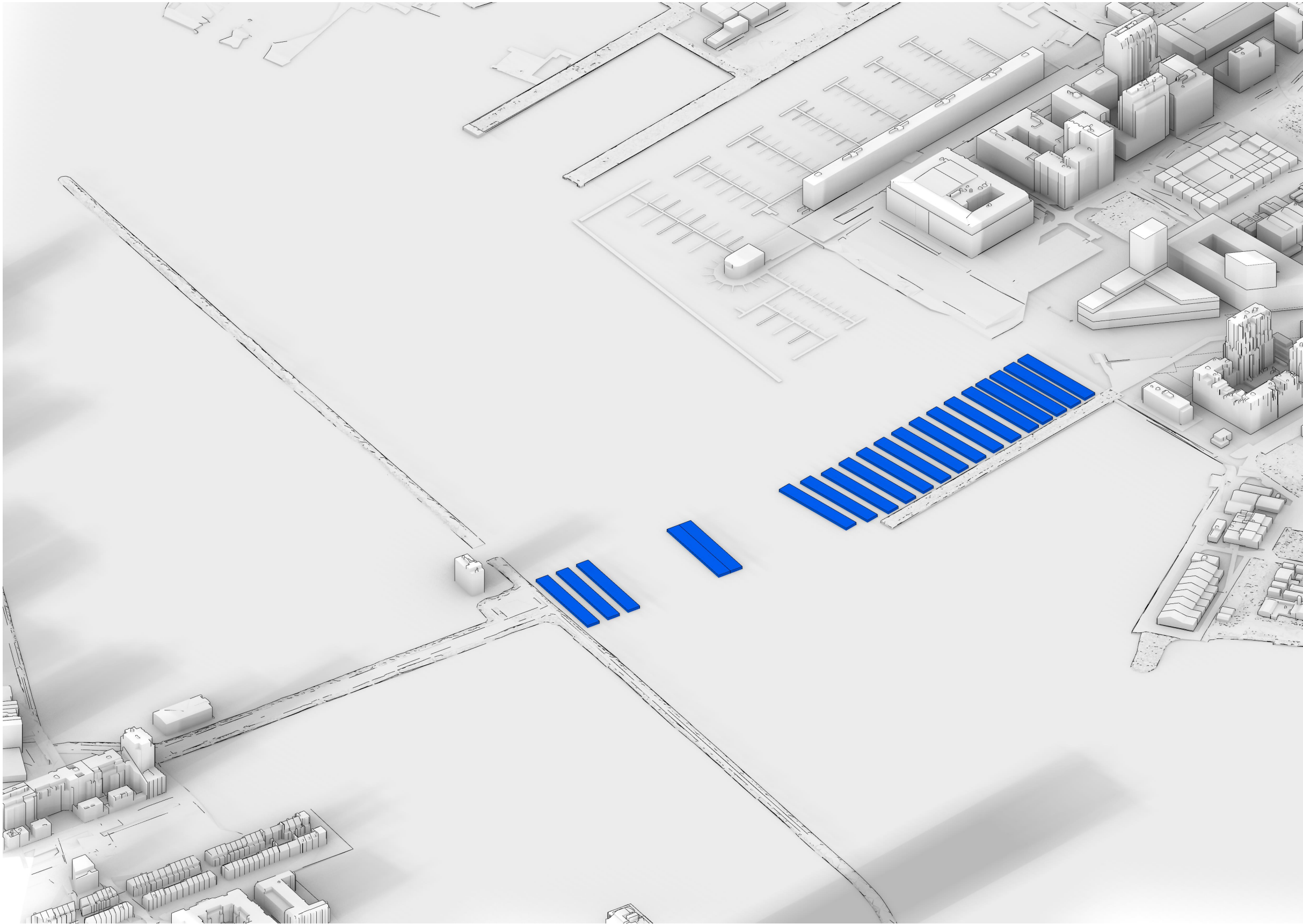
SIDE BY SIDE

ISLAND

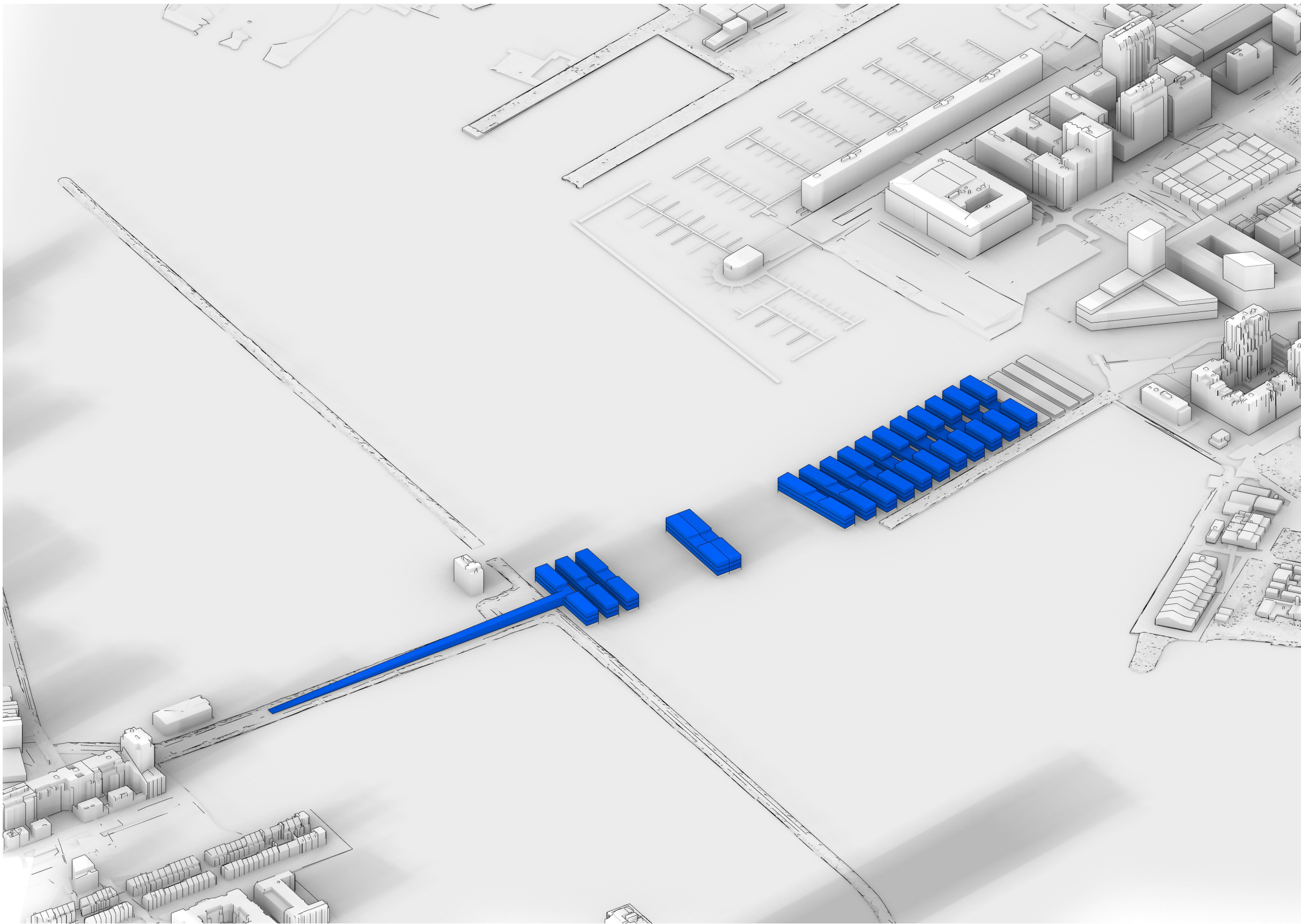


MULTIFUNCTIONAL BRIDGE IN AMSTERDAM

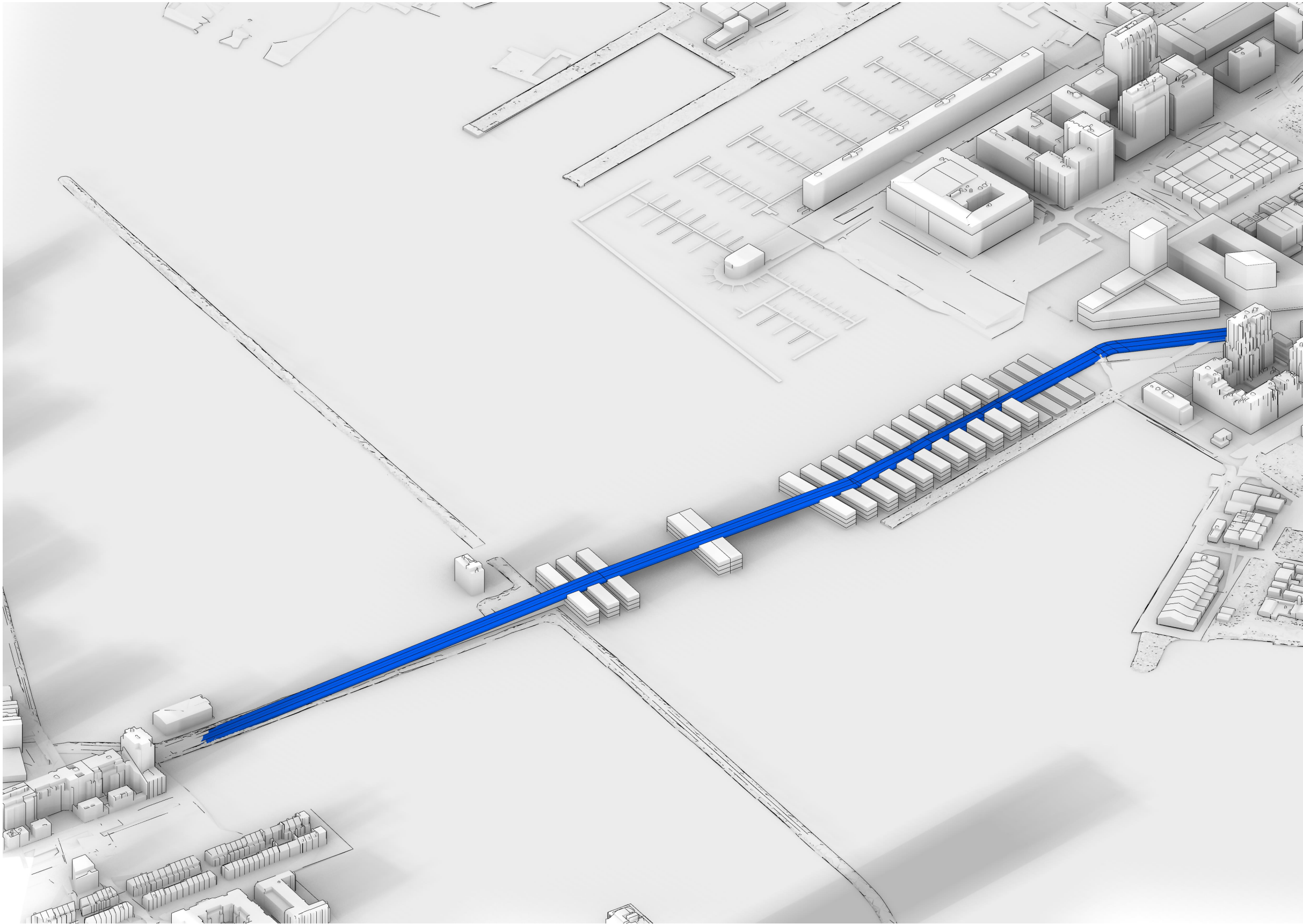




BARGE



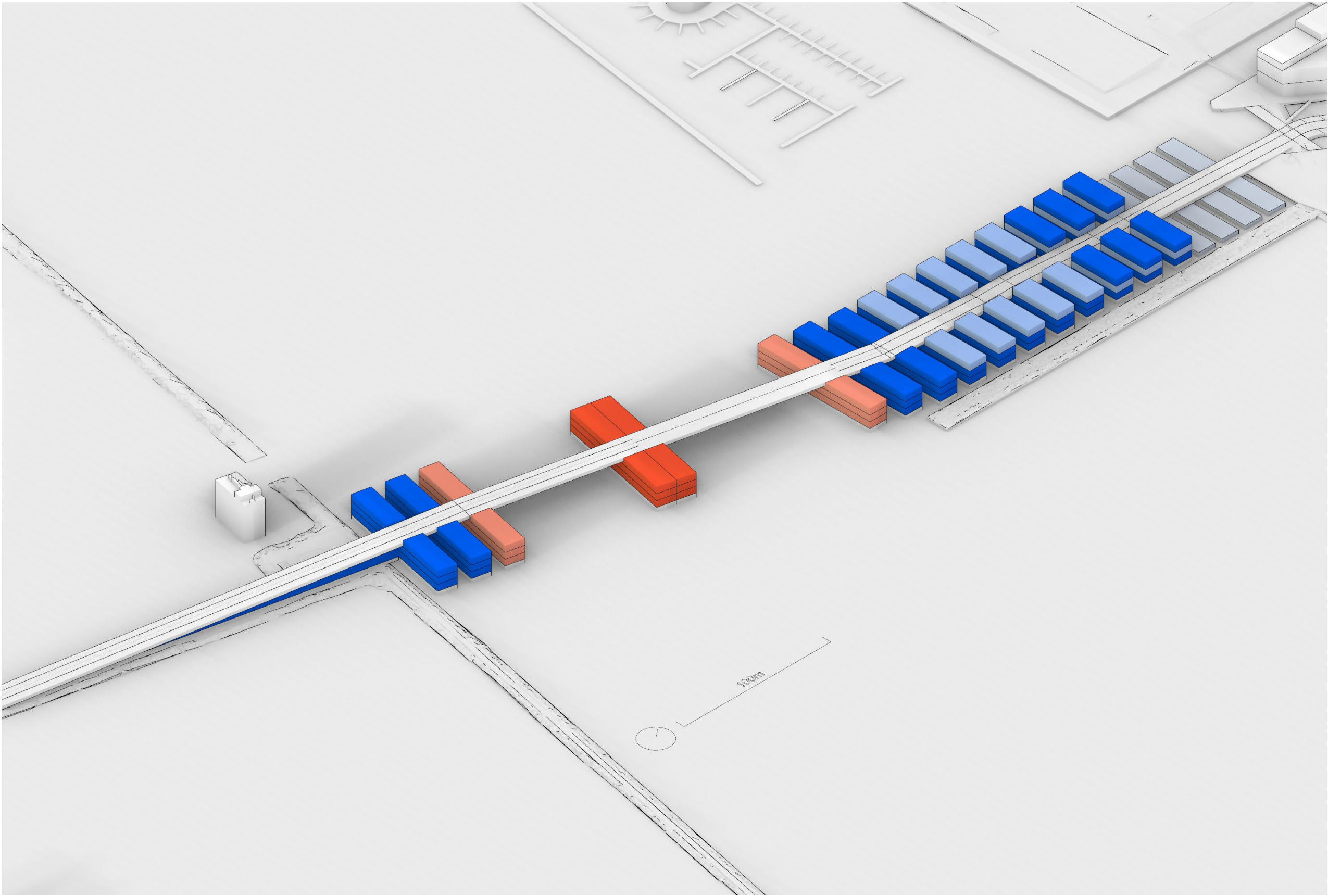
BUILDING
BARGE



BRIDGE
BUILDING
BARGE





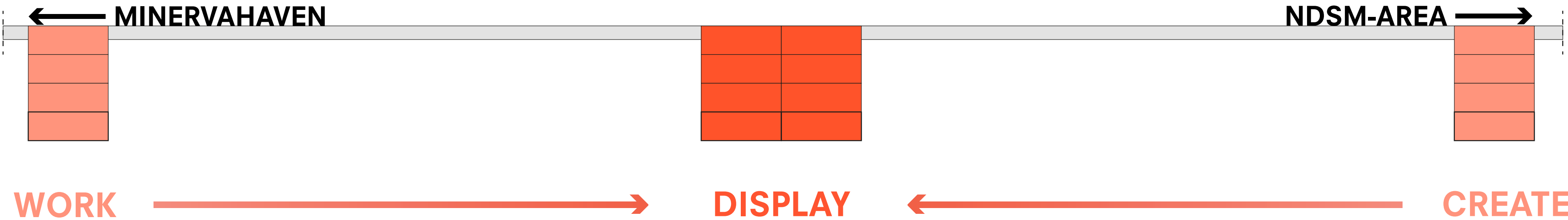
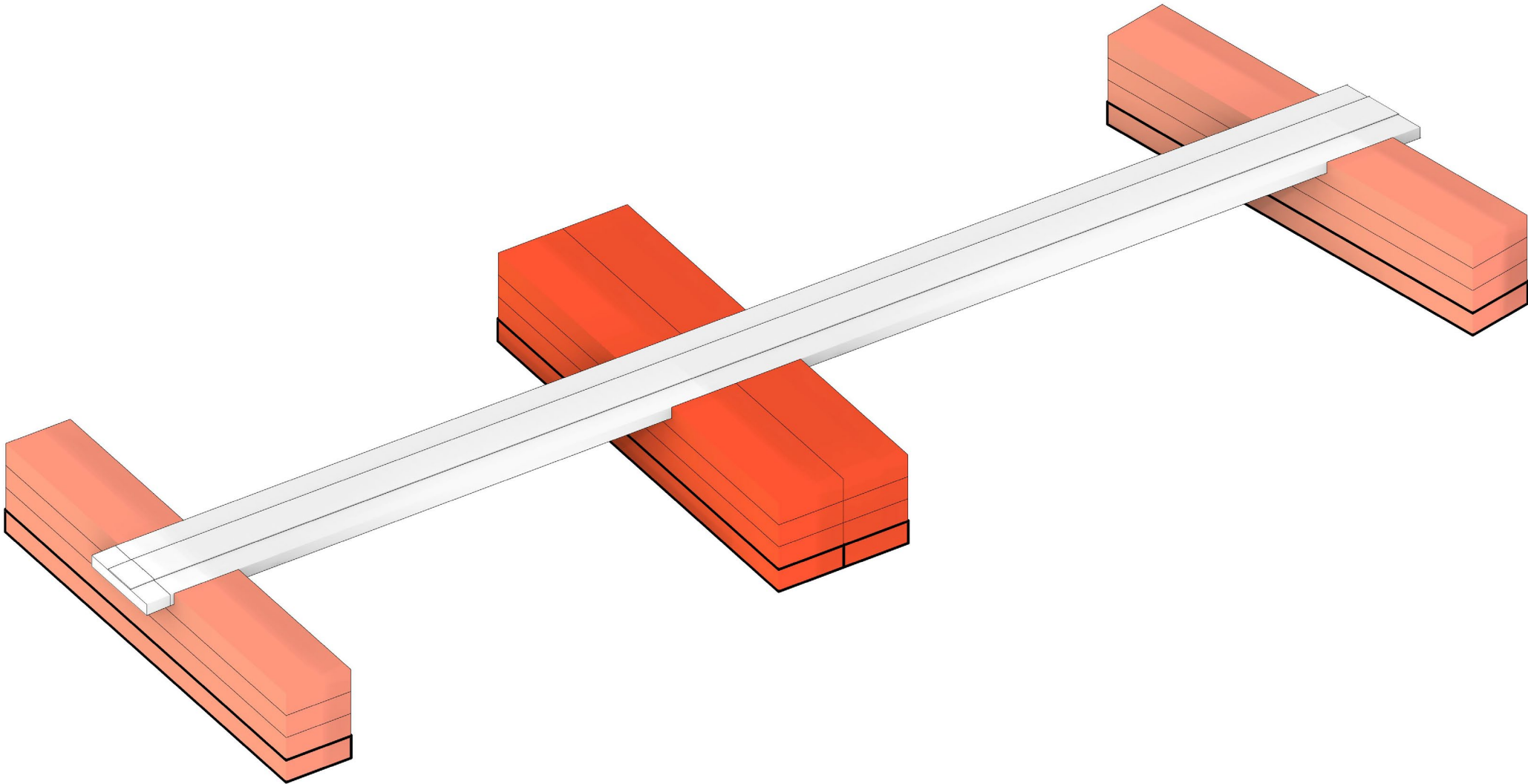


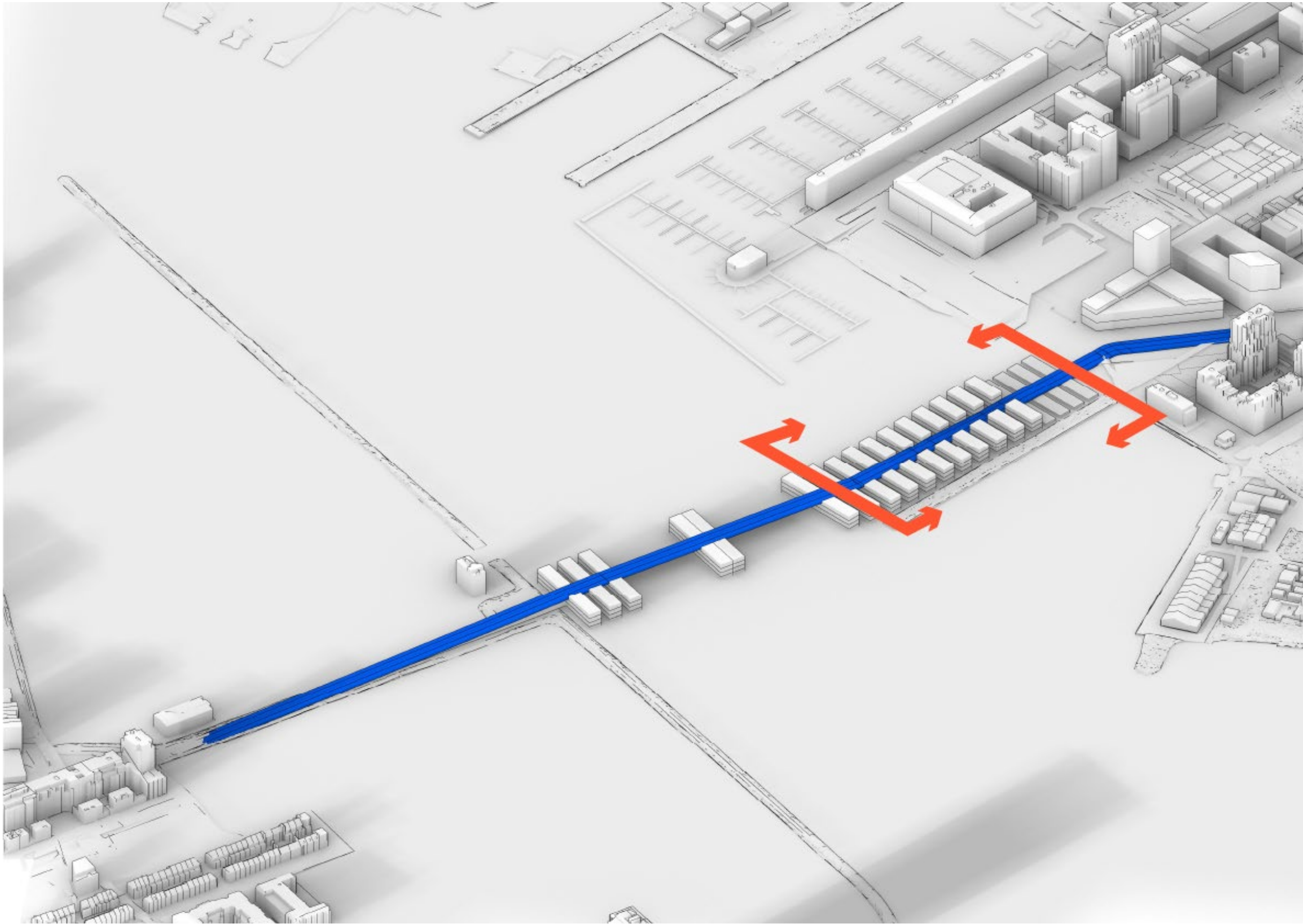
FUNCTIONS

HOUSING
PUBLIC
PUBLIC PARK

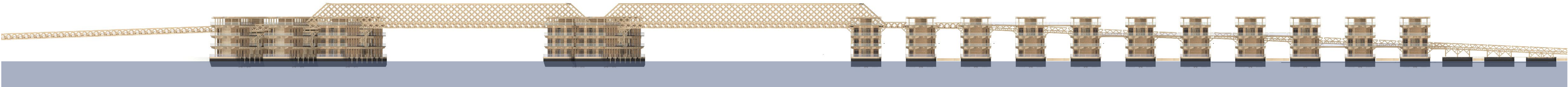
CORE CULTURE HUB
ADDITIONAL CULTURE HUB

JUMP
OVER ~~THE~~ ONTO
THE IJ





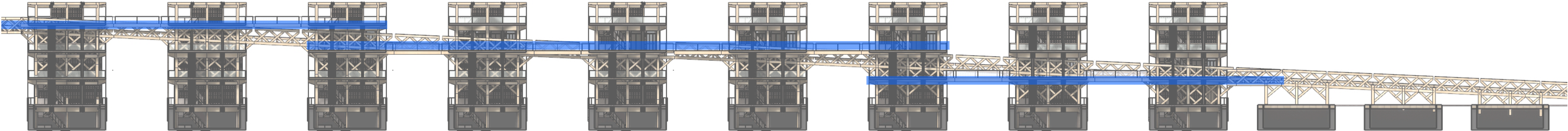
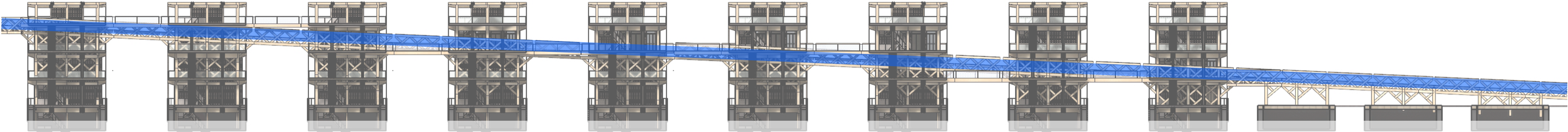
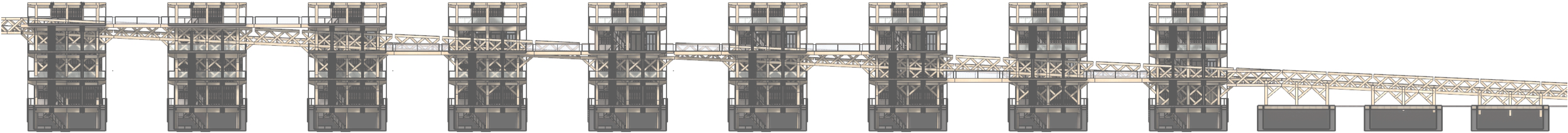
FOCUS



← MINERVAHAVEN

NDSM-AREA →

JUMP
~~OVER~~ ONTO
THE IJ



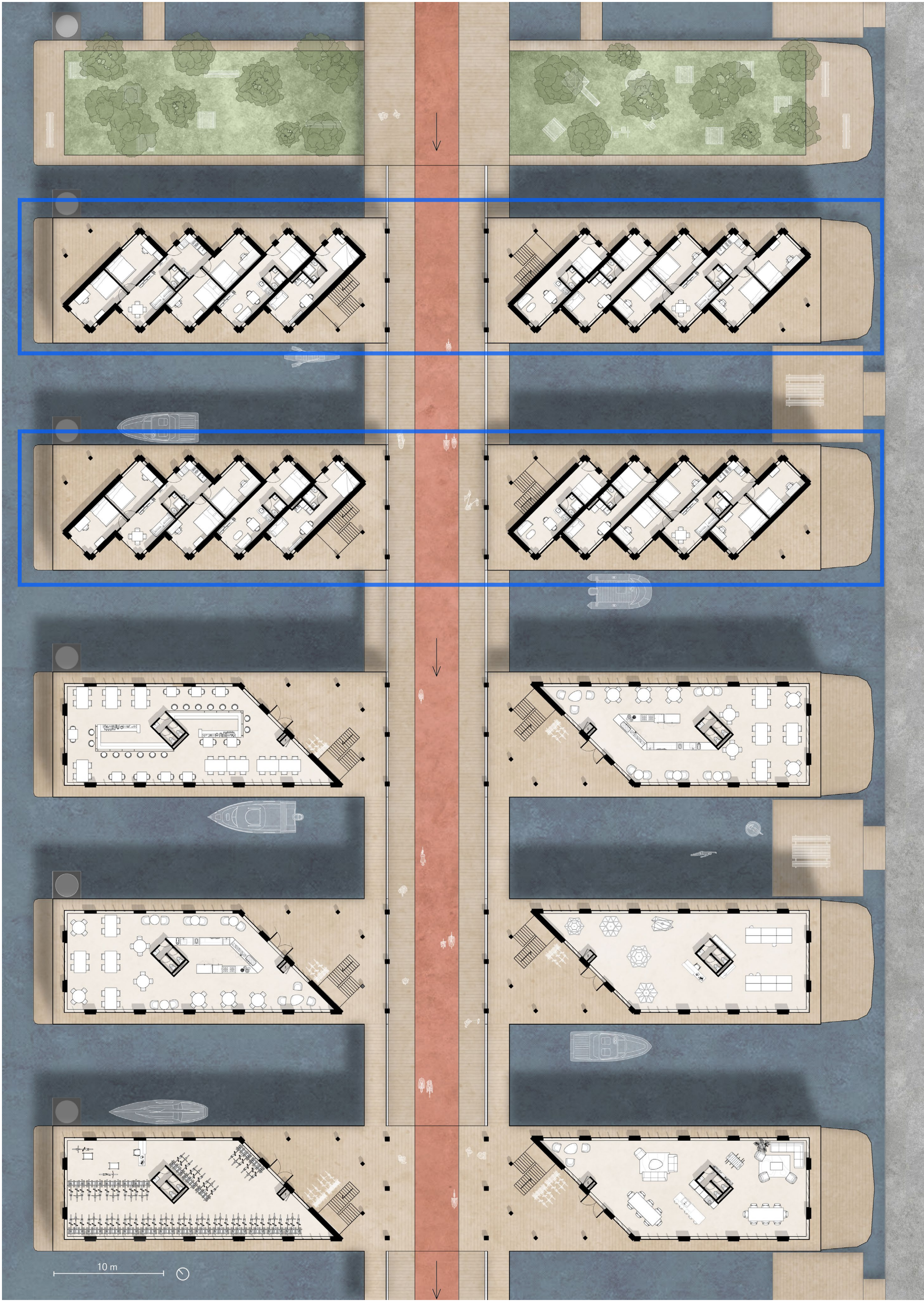
CONNECTION TO BUILDING LEVELS

BUILDING AND FUNCTIONS

JUMP
~~OVER~~ ONTO
THE IJ



JUMP
~~OVER~~ **ONTO**
THE IJ

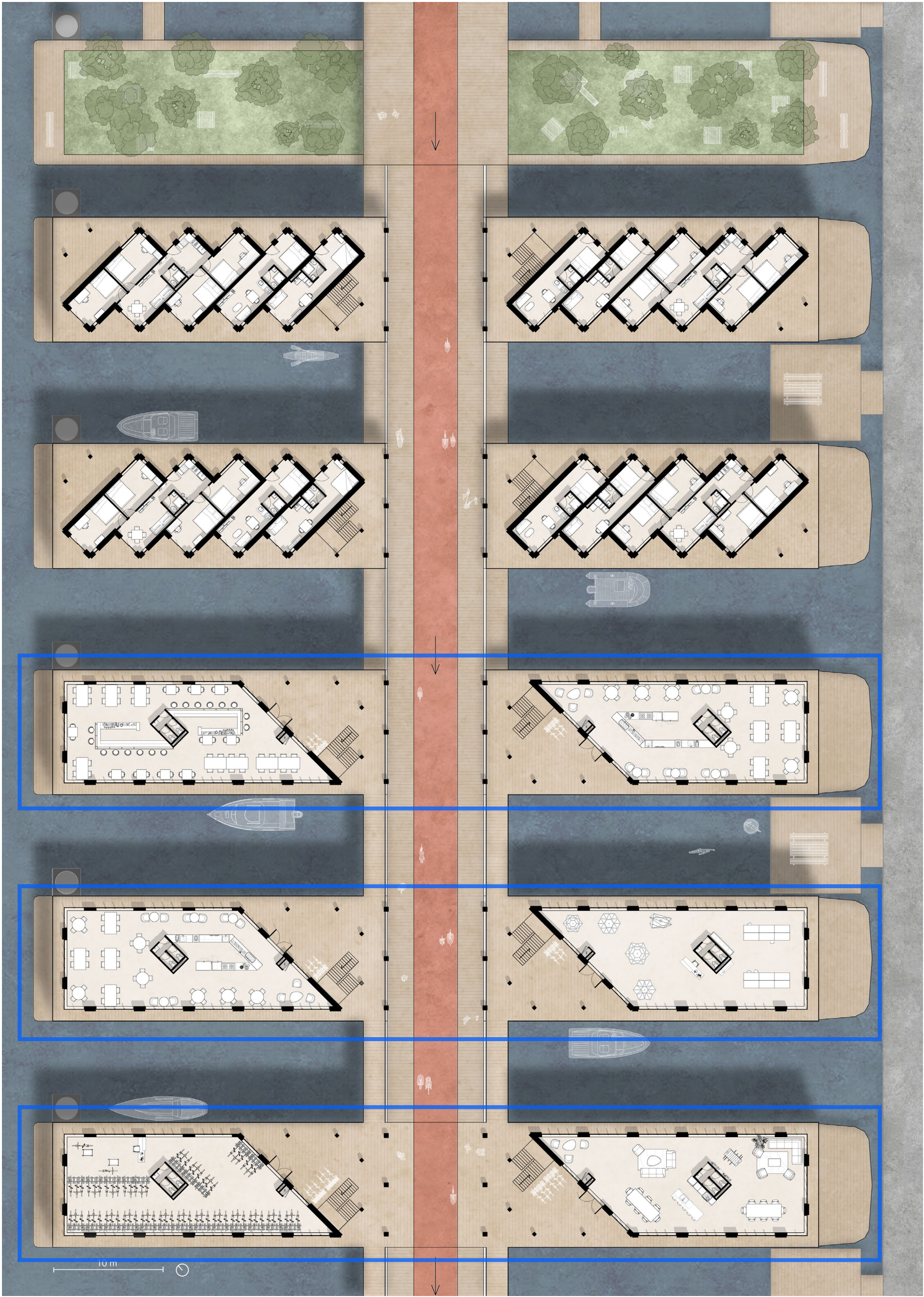


HOUSING

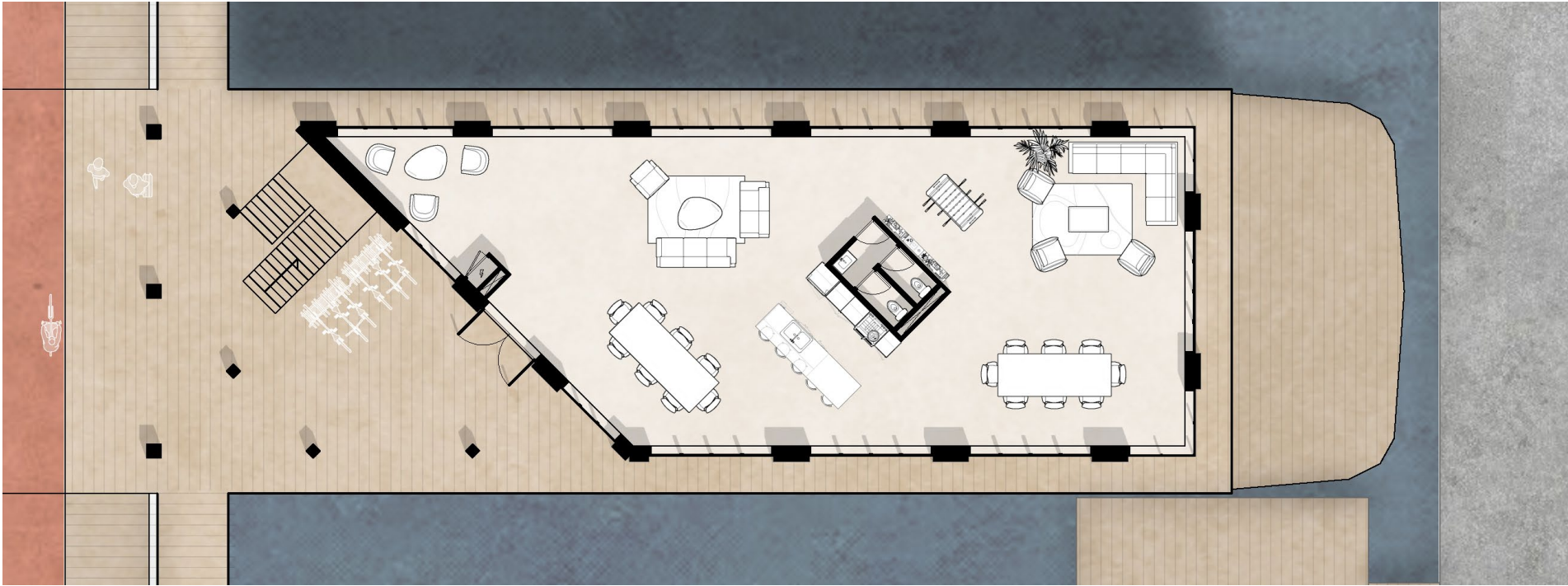
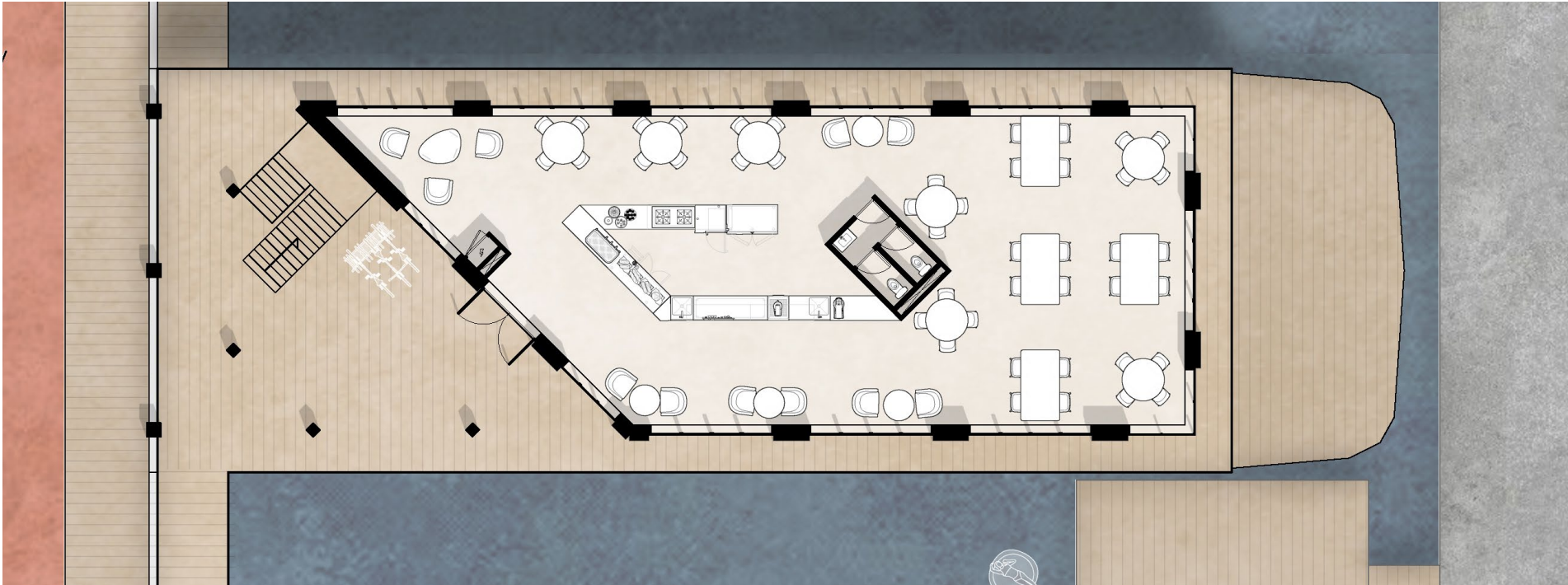


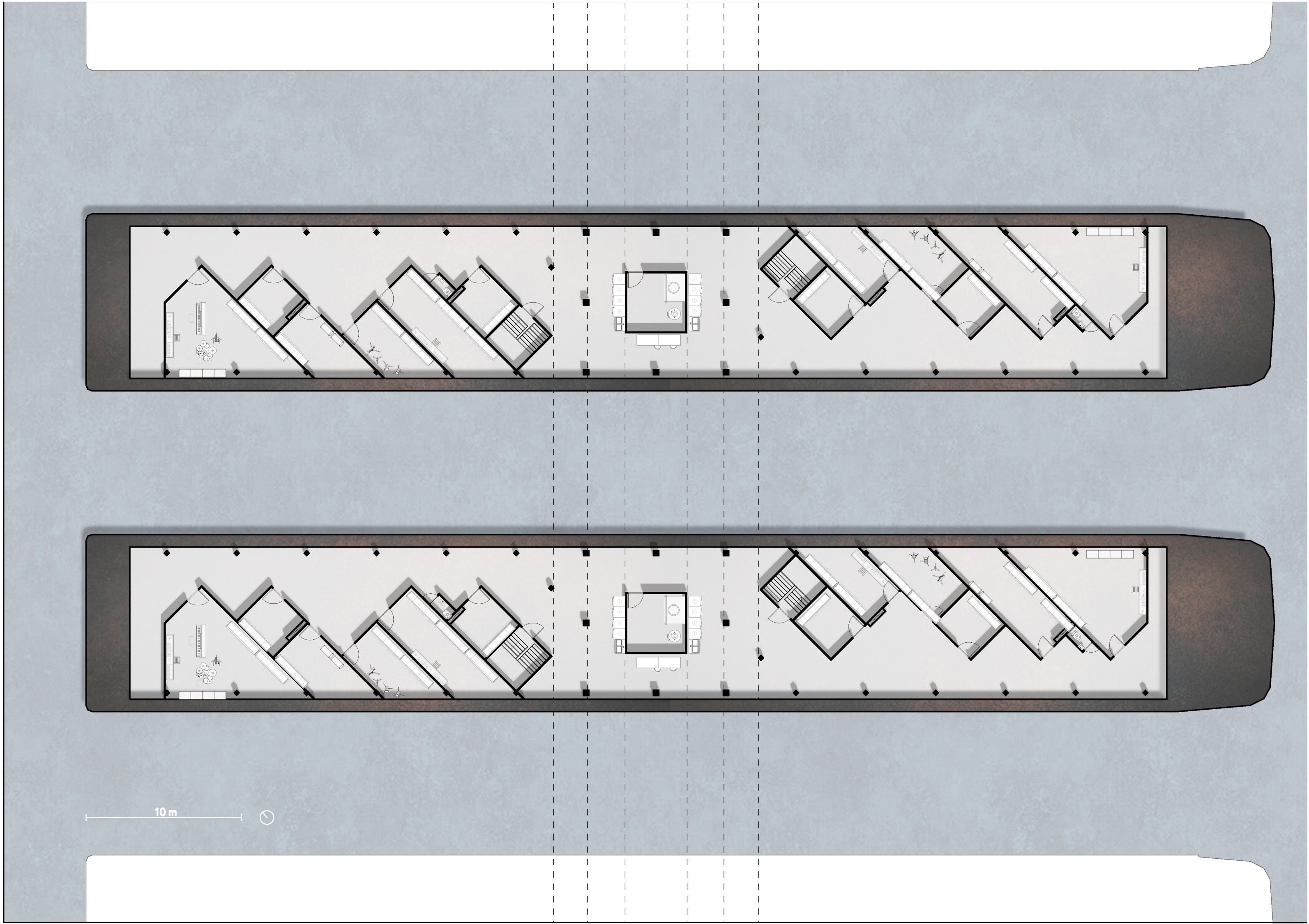
PRIVATE APPARTMENT SHARED HOUSING

JUMP
OVER ~~ONTO~~
THE IJ

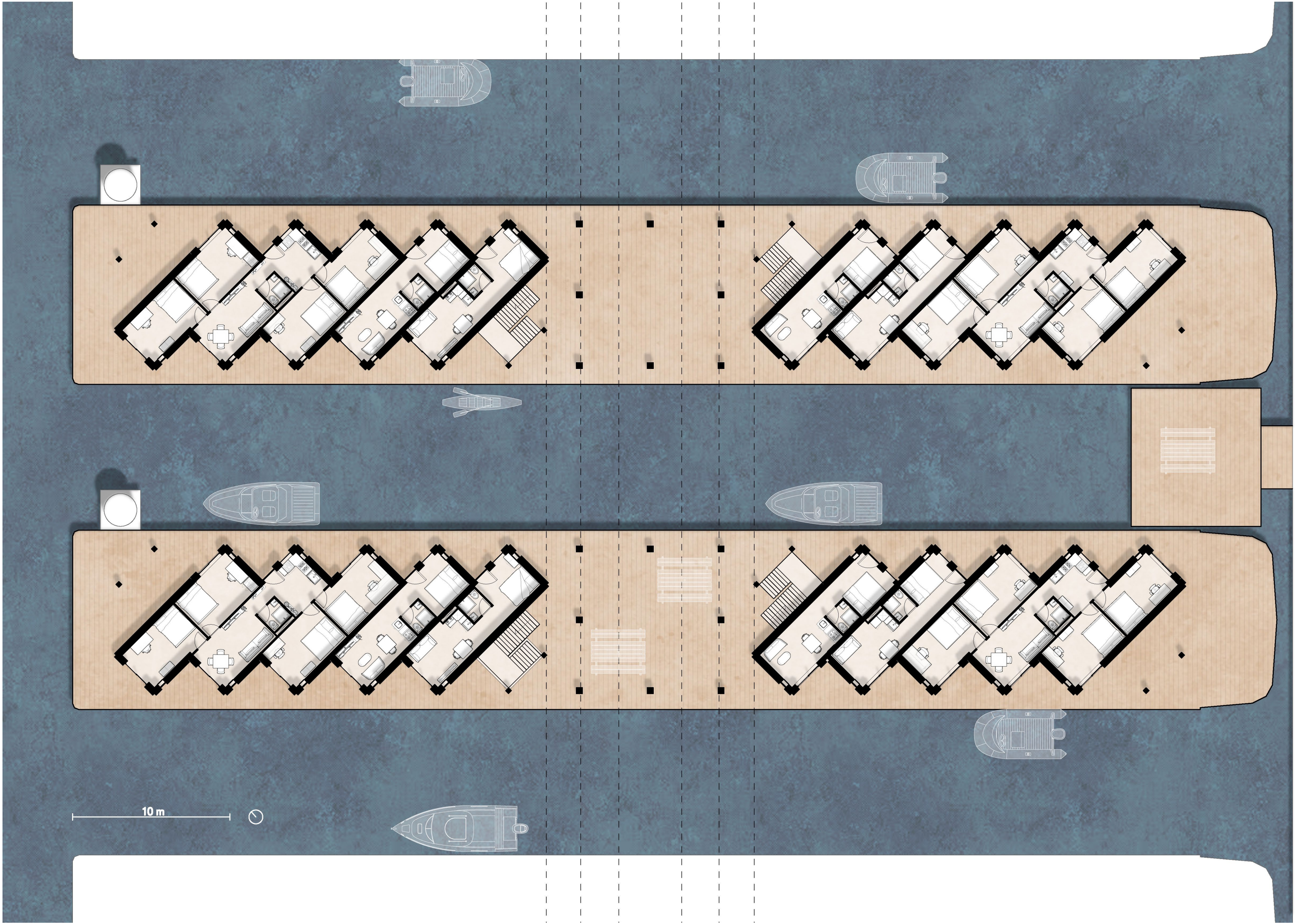


PUBLIC FUNCTIONS

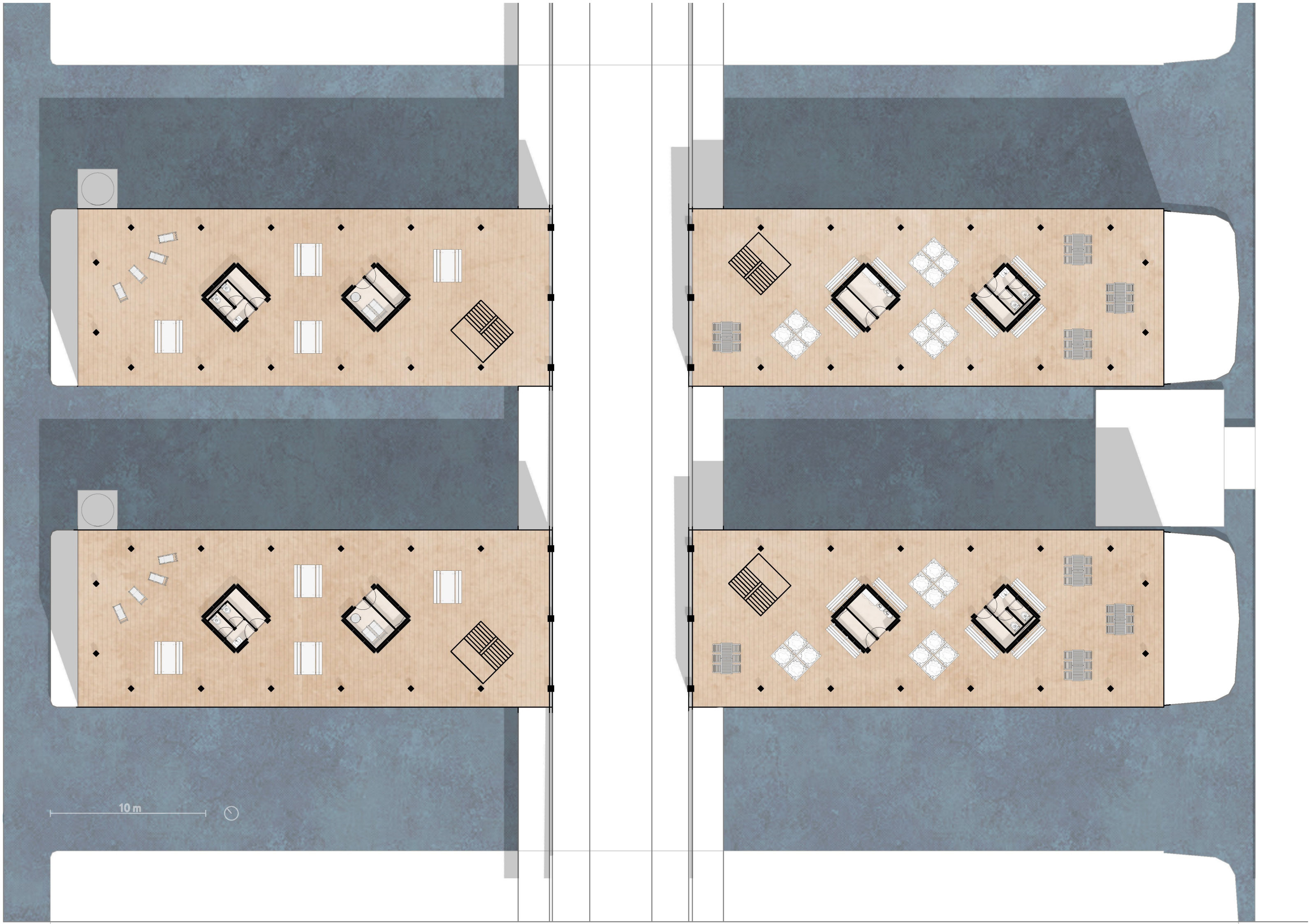




BASEMENT

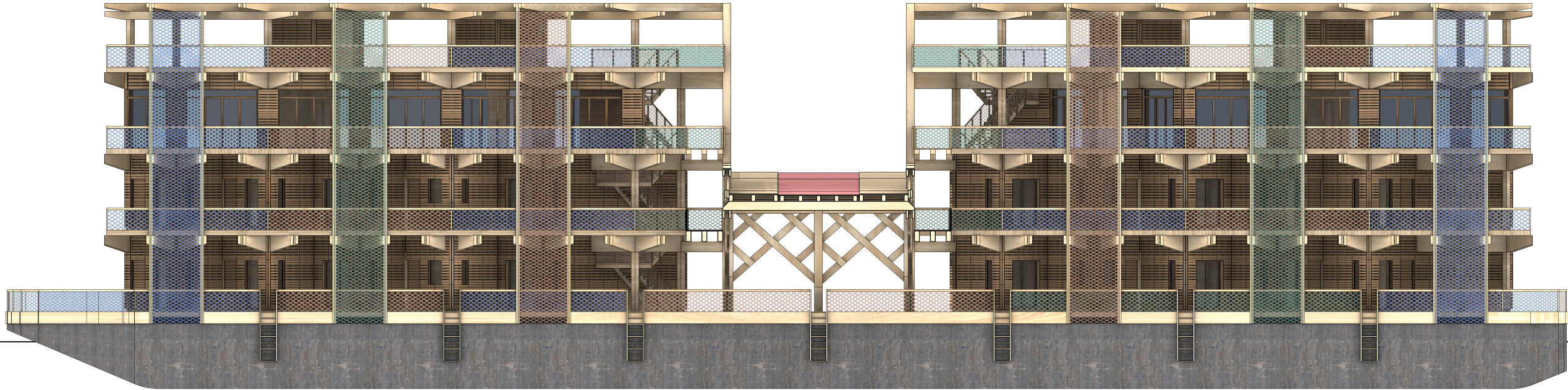


GROUND FLOOR

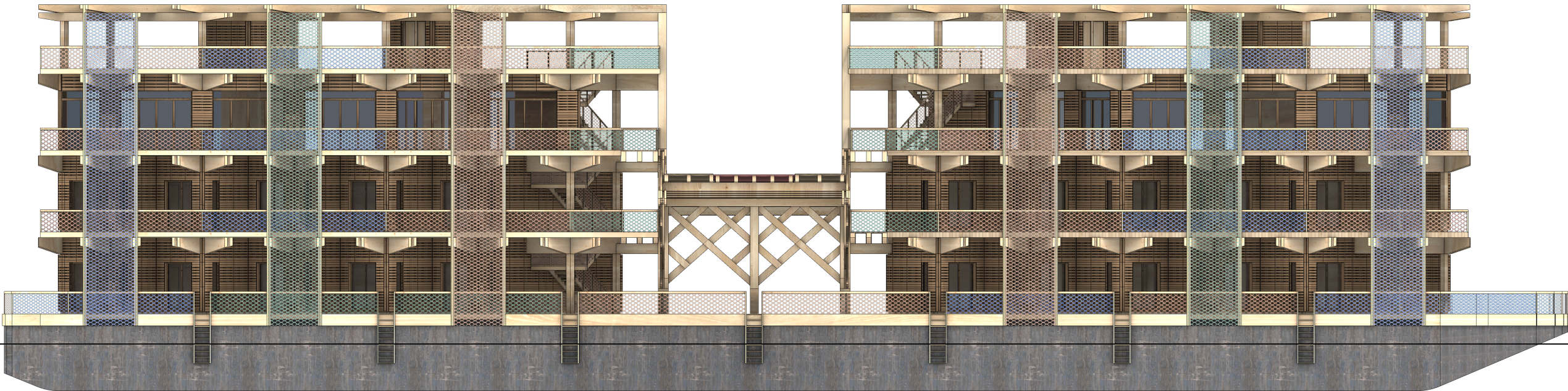


ROOF TERRACE

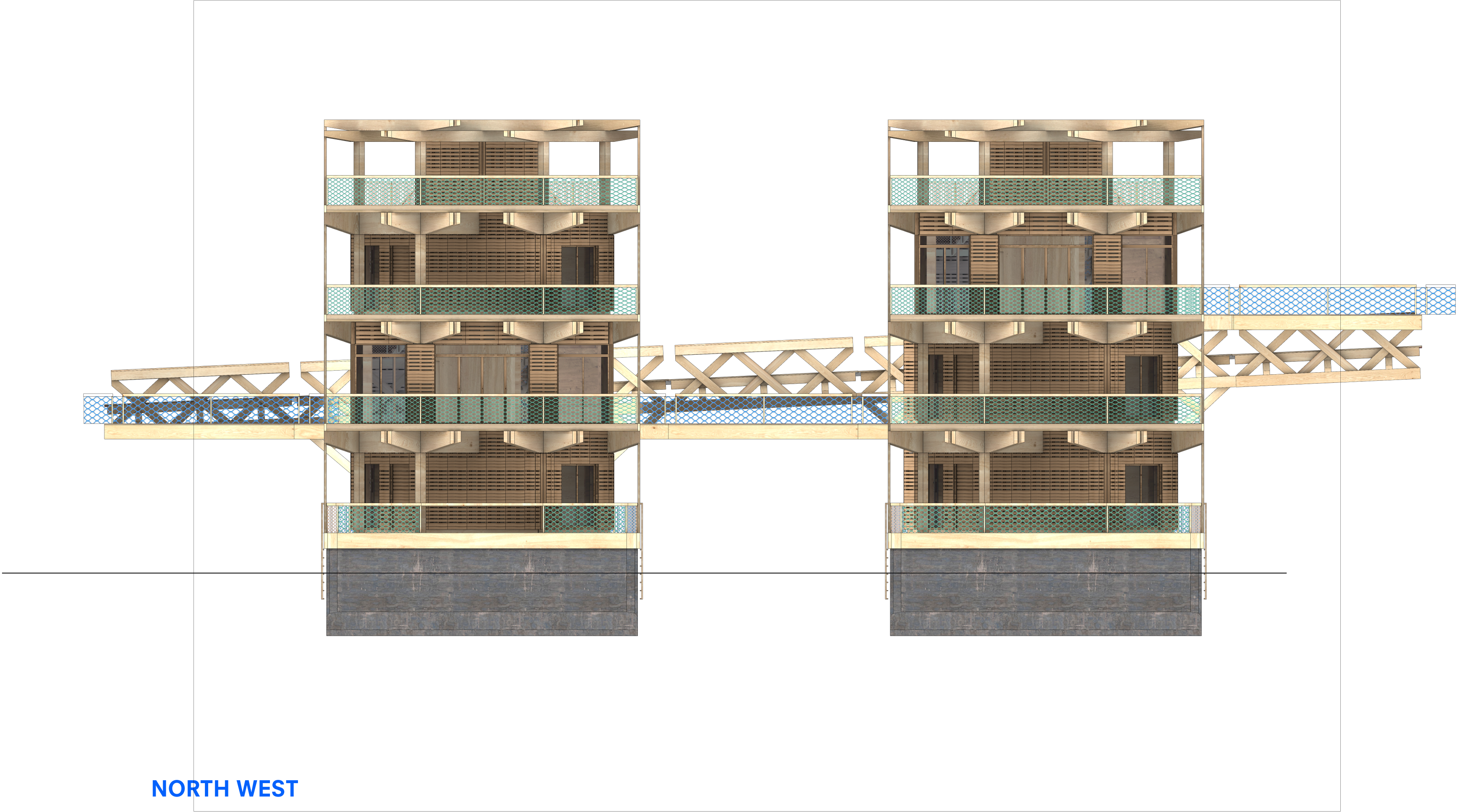
FACADE

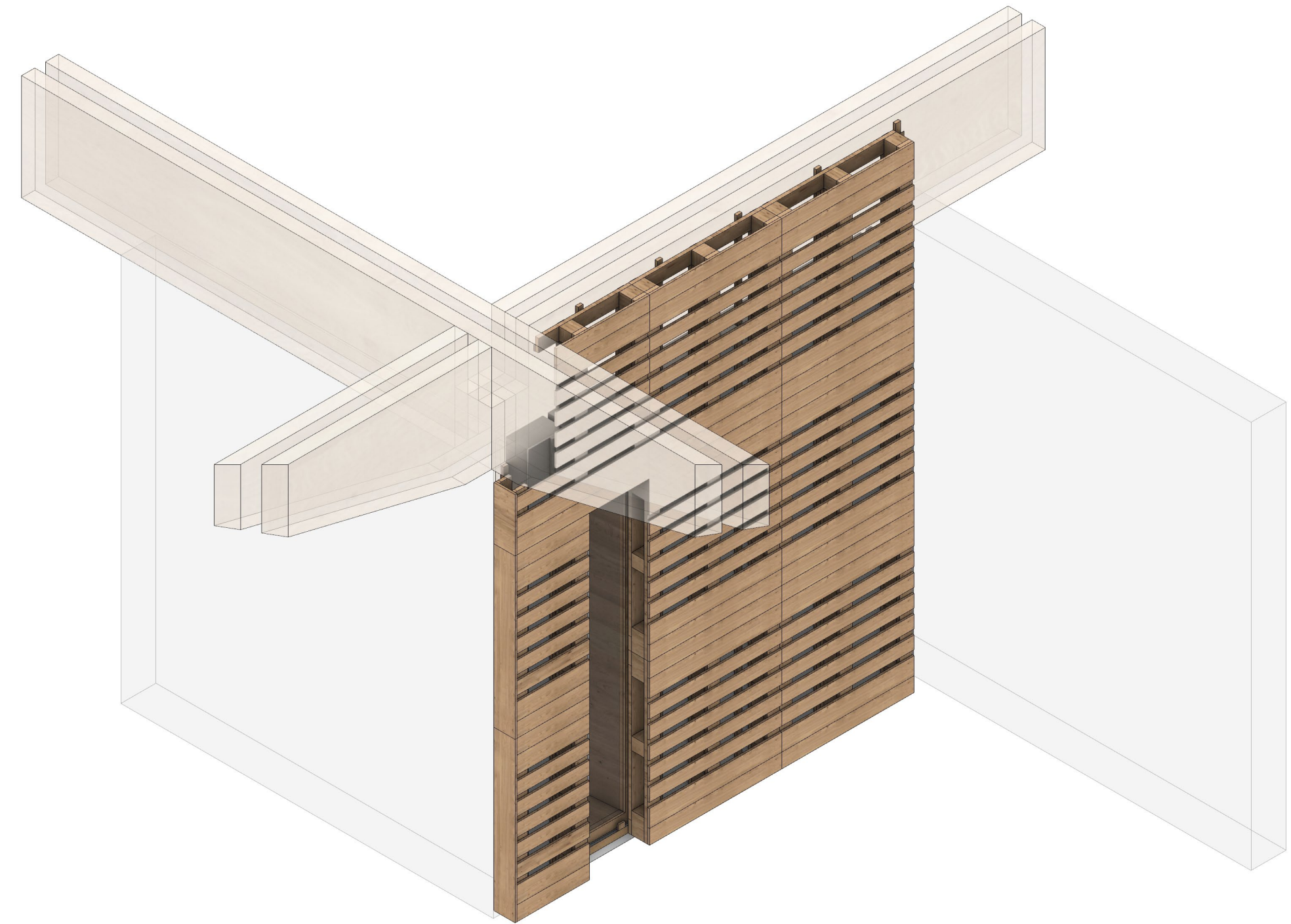
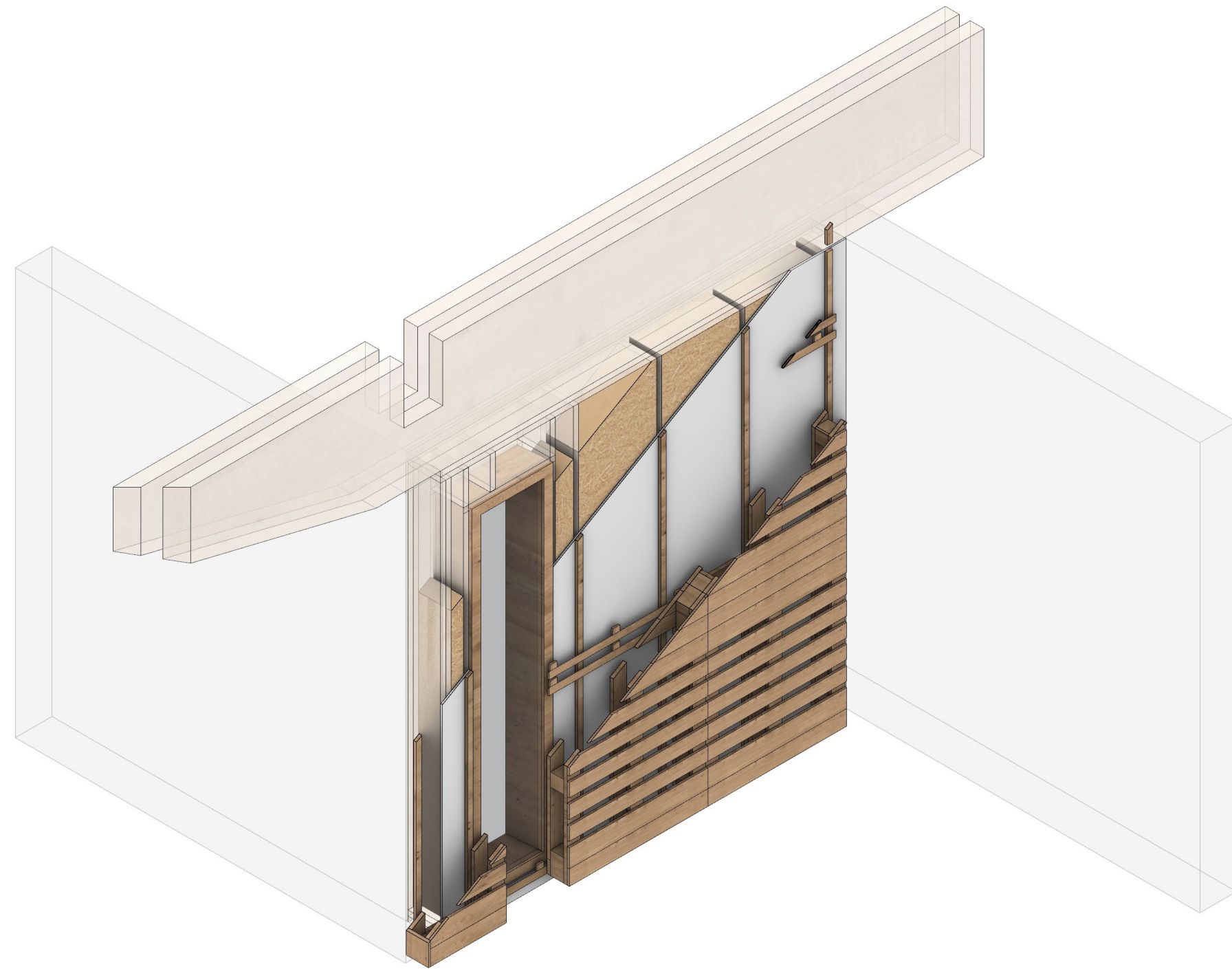


NORTH EAST



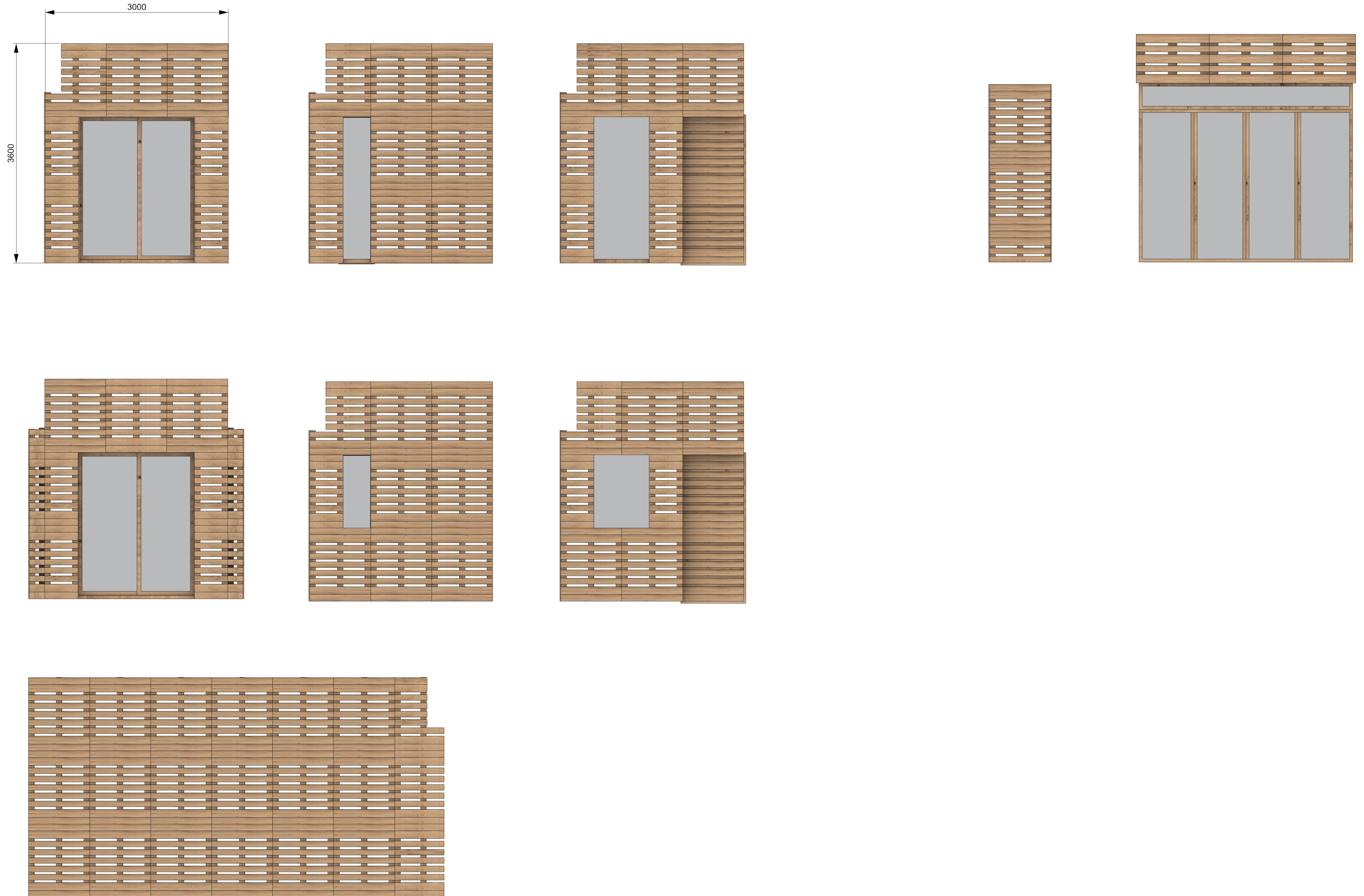
SOUTH WEST





FACADE MATERIALS

- 235 mm Timber frame wall
- 235 mm Woodfibre insulation
- 12 mm Modoxx 90 min fireresistant panel
- 20 mm cavity with vertical timber frame
- French cleat wood connection for fastening cladding
- Pallet cladding



JUMP
OVER ONTO
THE IJ

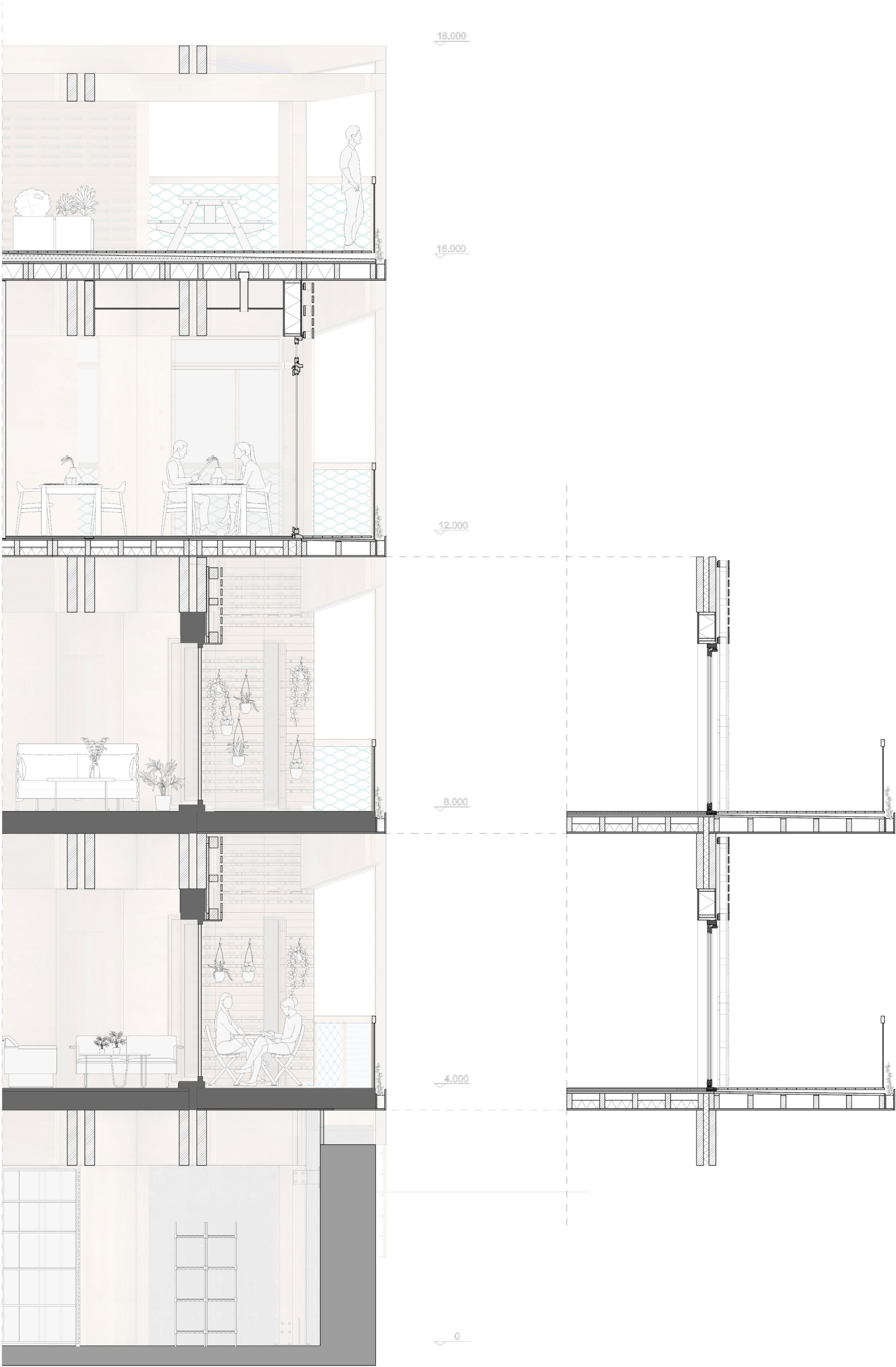
ROOF TERRACE

CAFE

HOUSING

HOUSING

BASEMENT

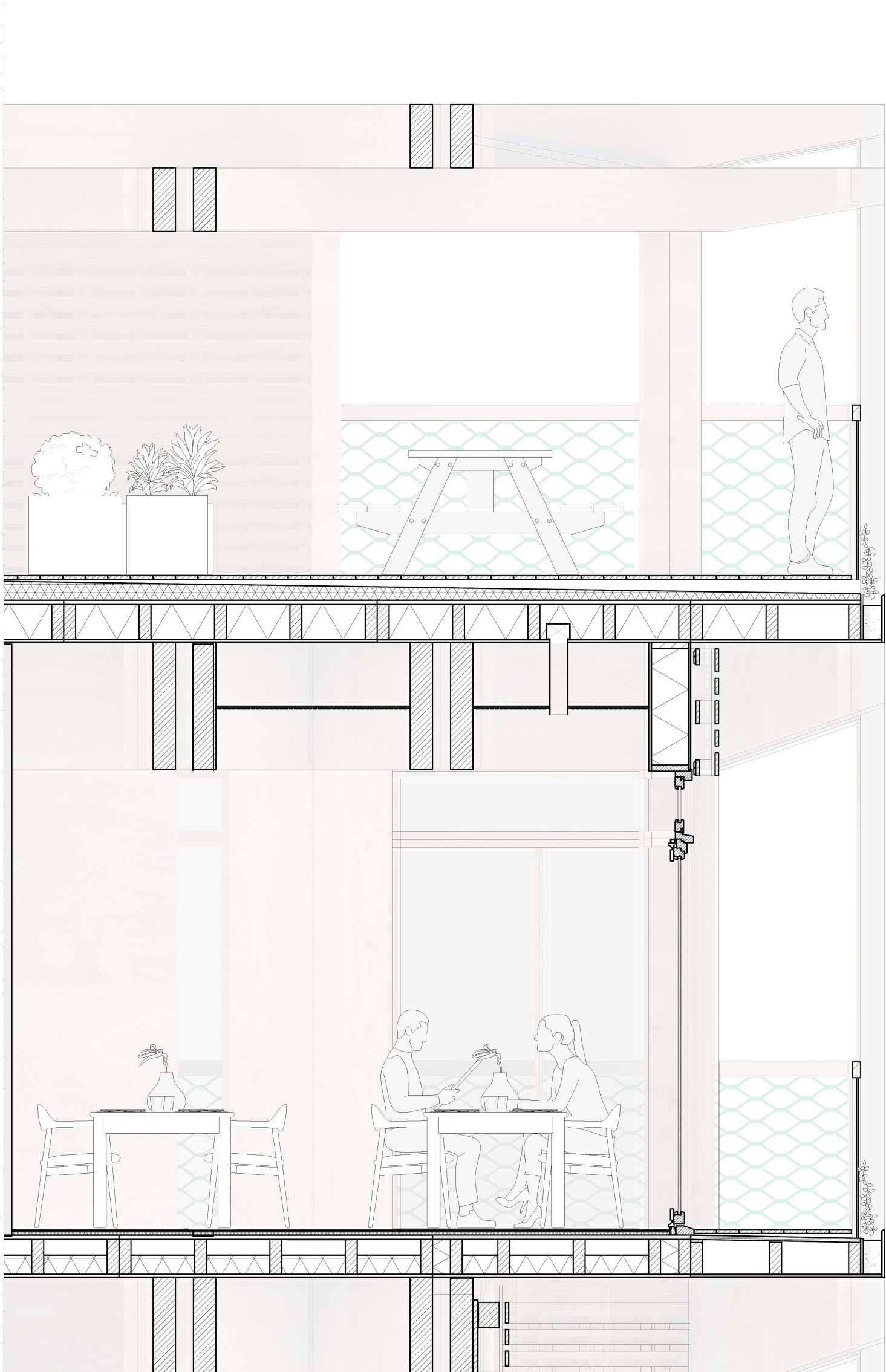


FRAGMENT

JUM
OVE
THE

ROOF TERRACE

CAFE



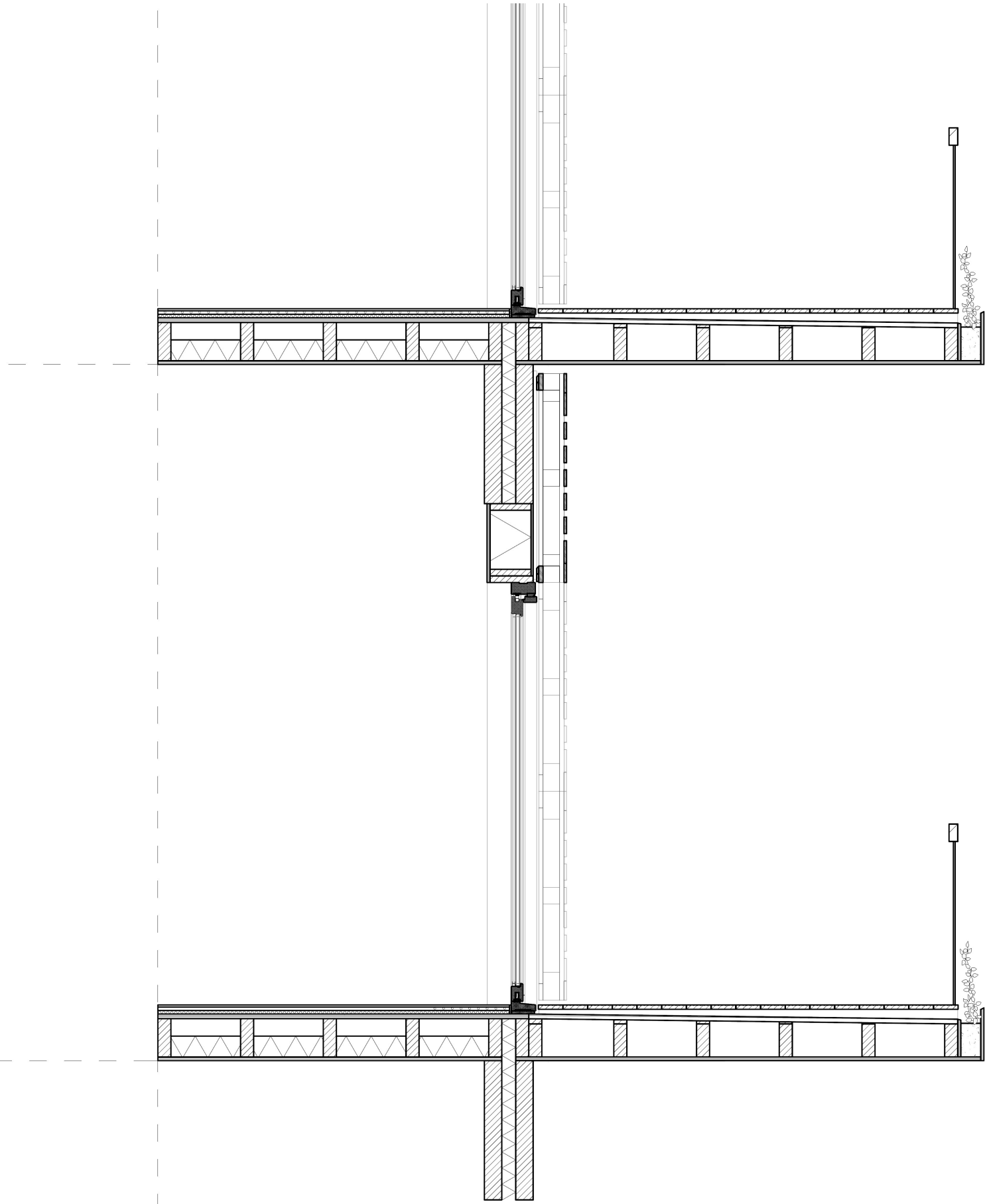
18.000

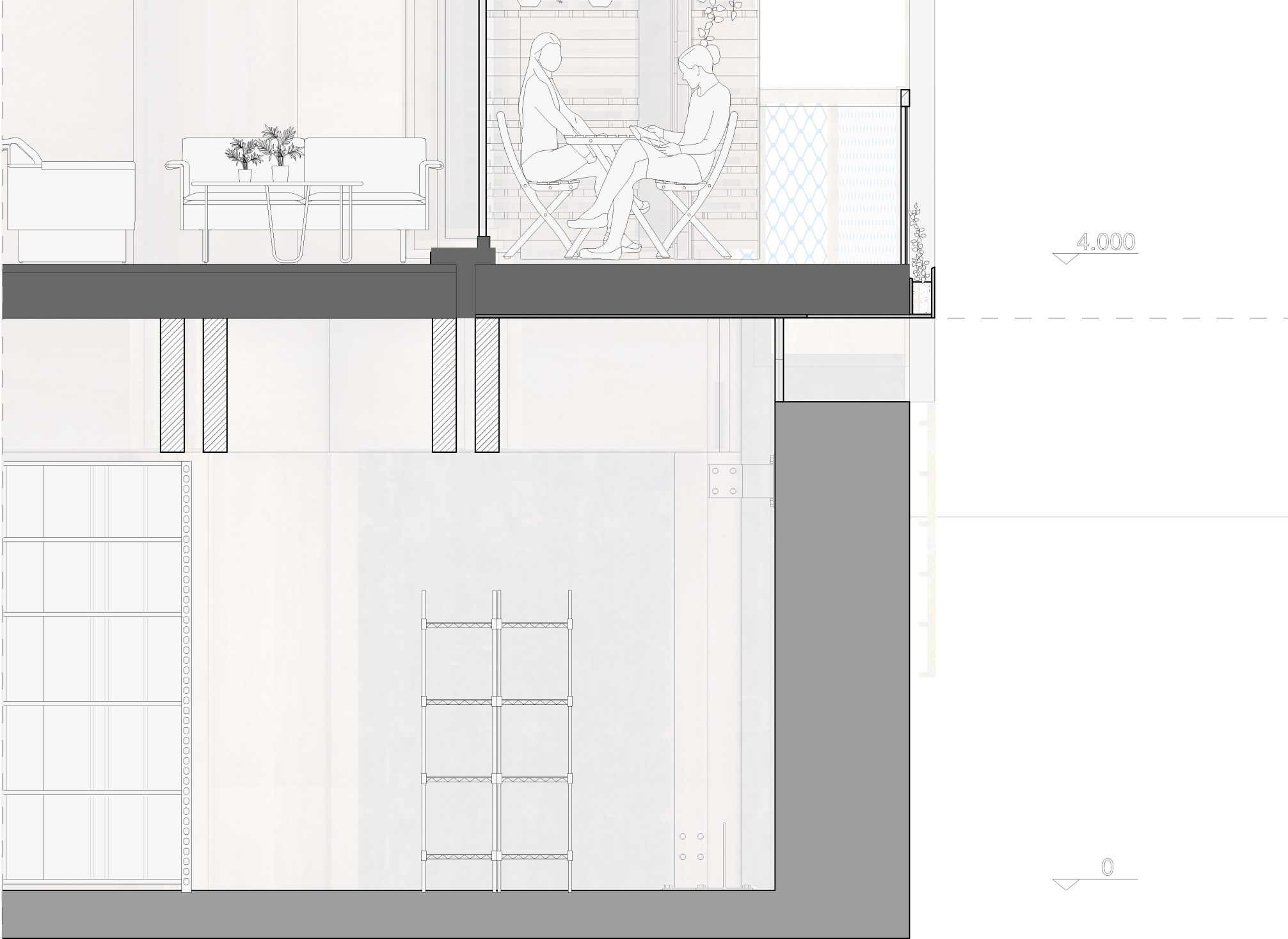
16.000

12.000

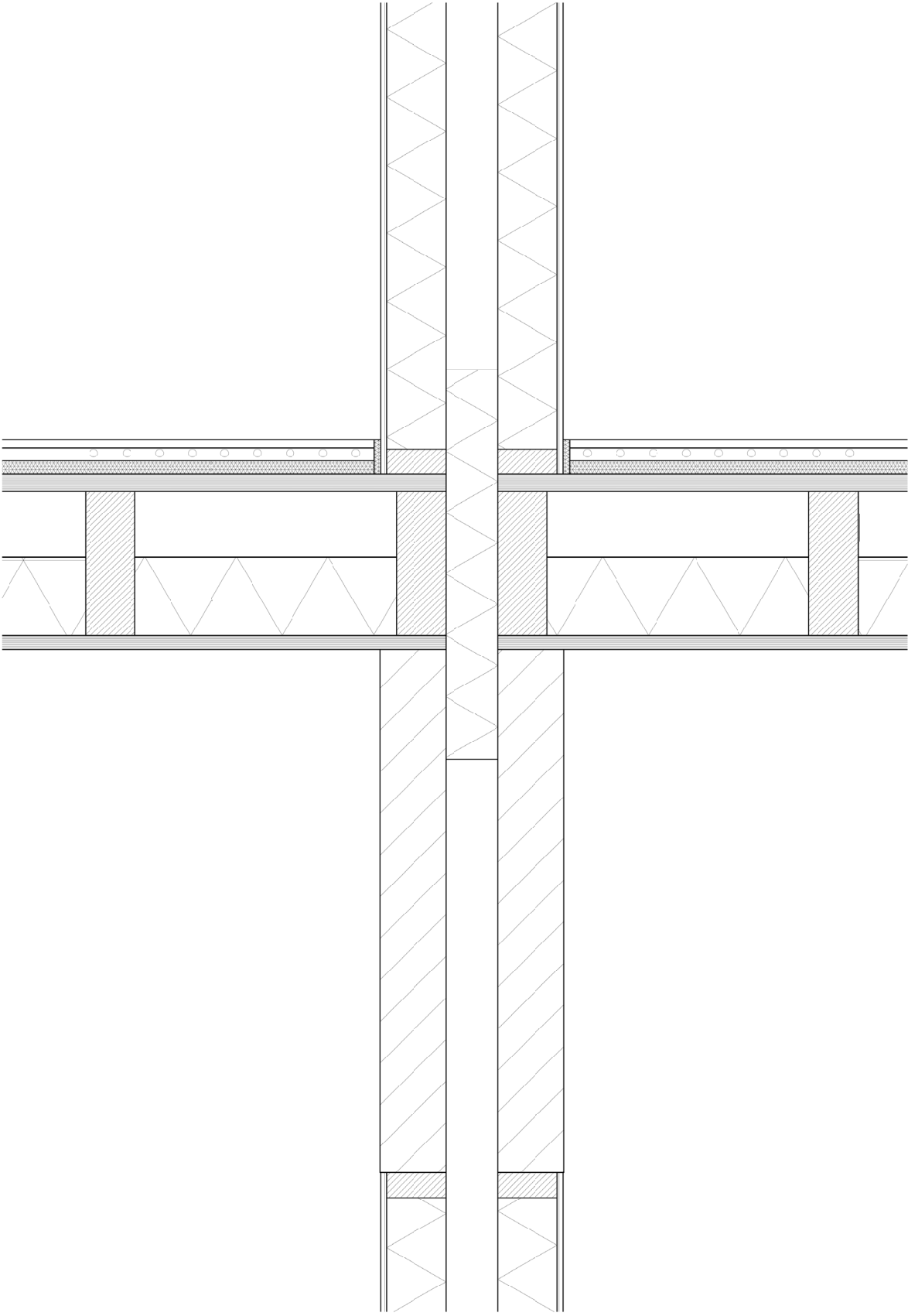
HOUSING

HOUSING



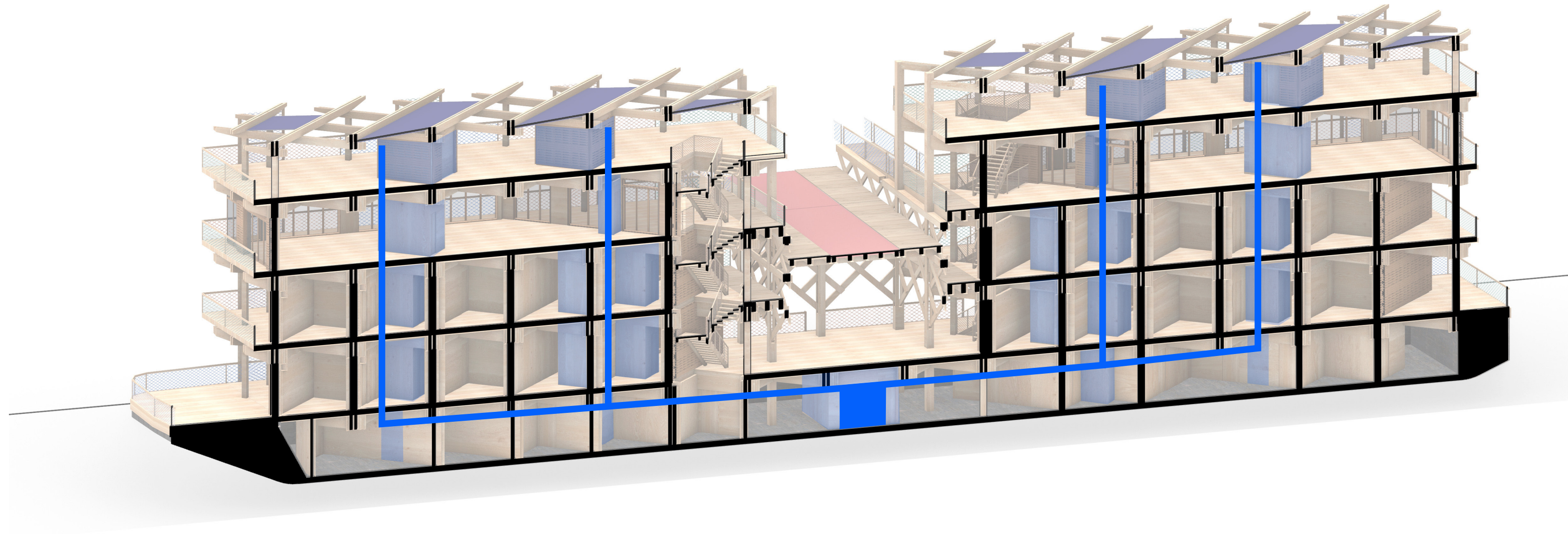


BASEMENT

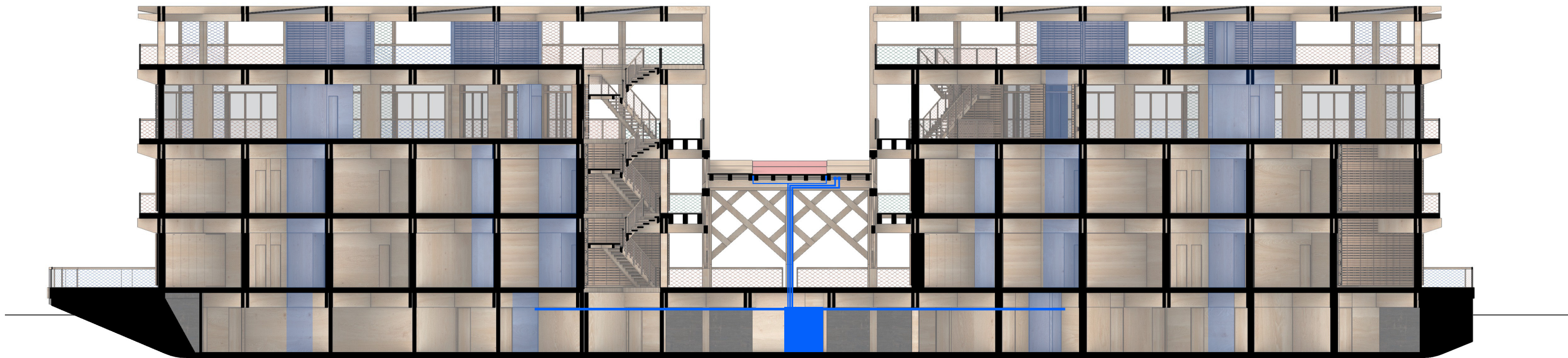
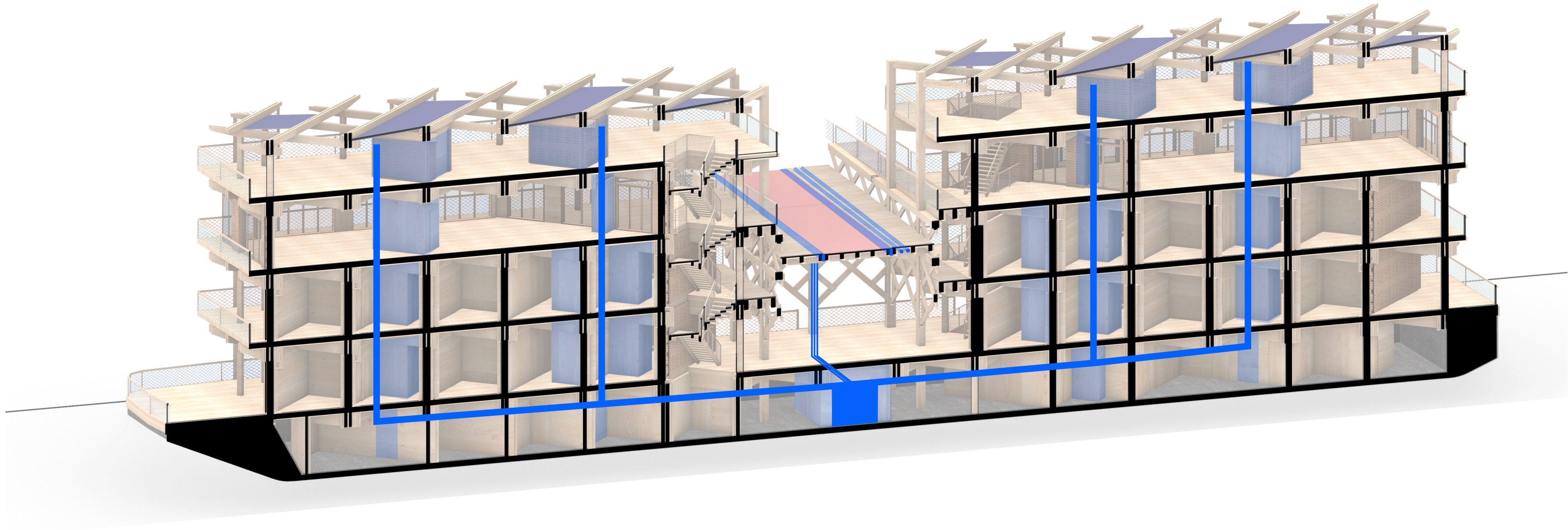


WALL BETWEEN APARTMENTS

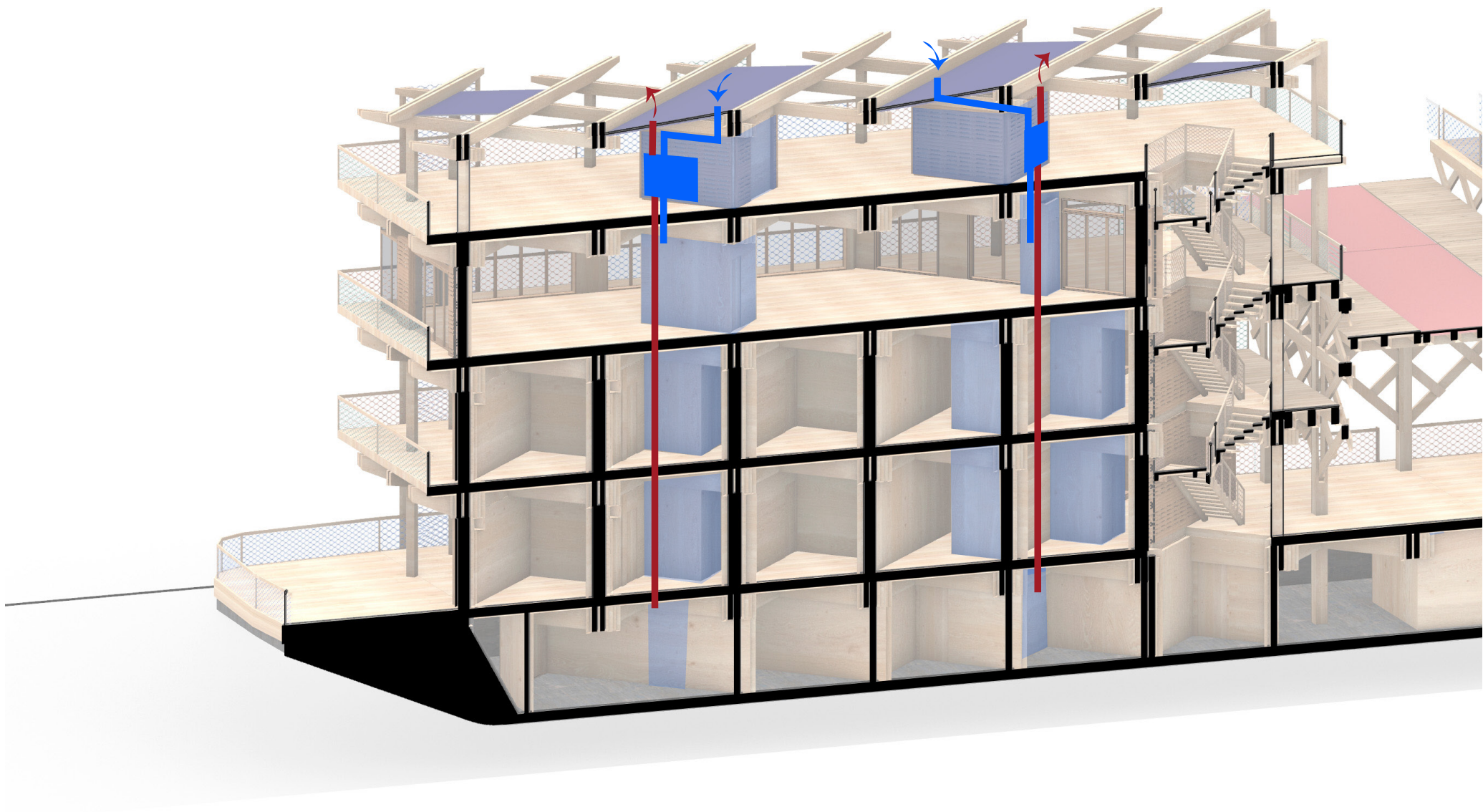
CLIMATE DESIGN



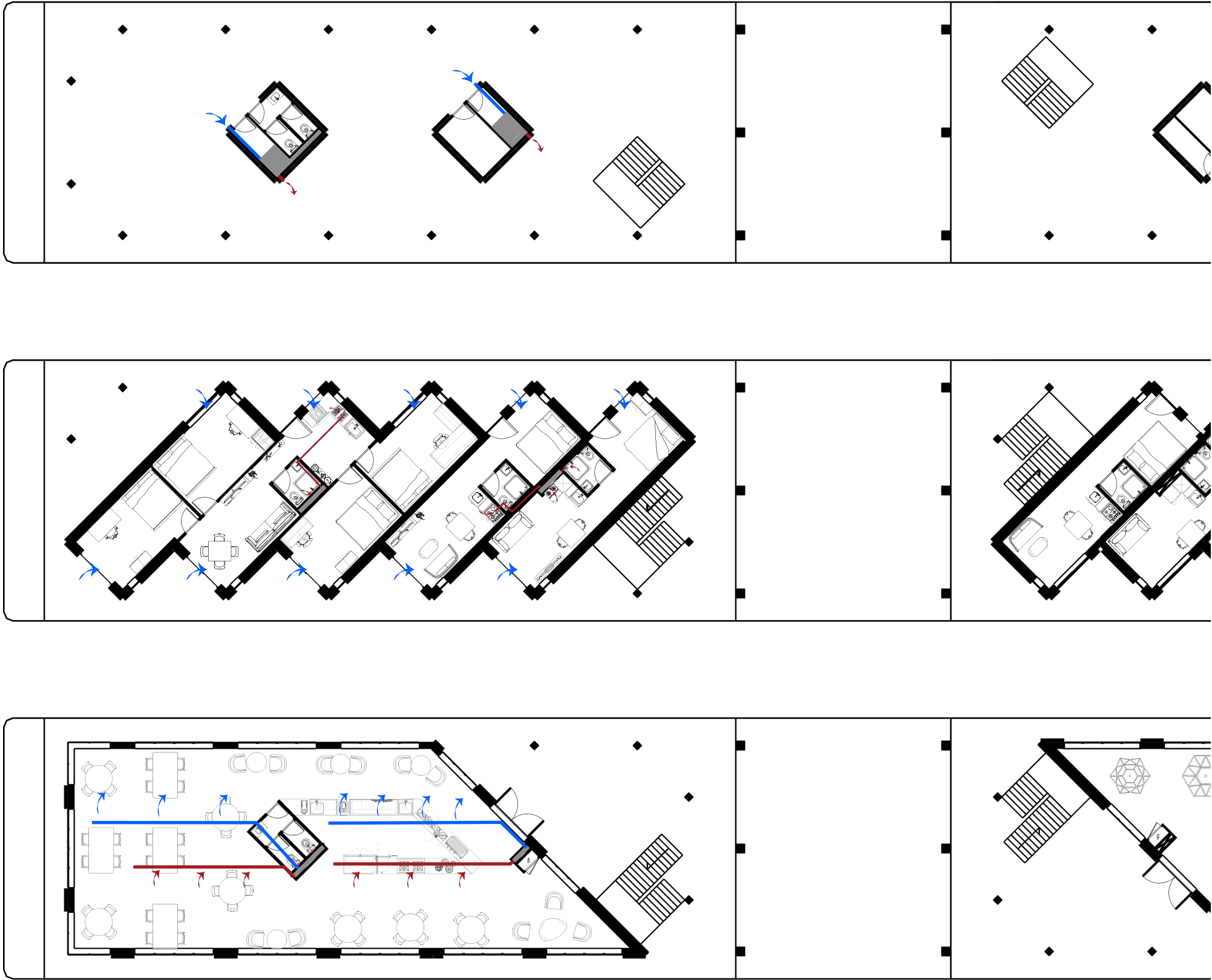
PLACEMENT OF THE SYSTEMS



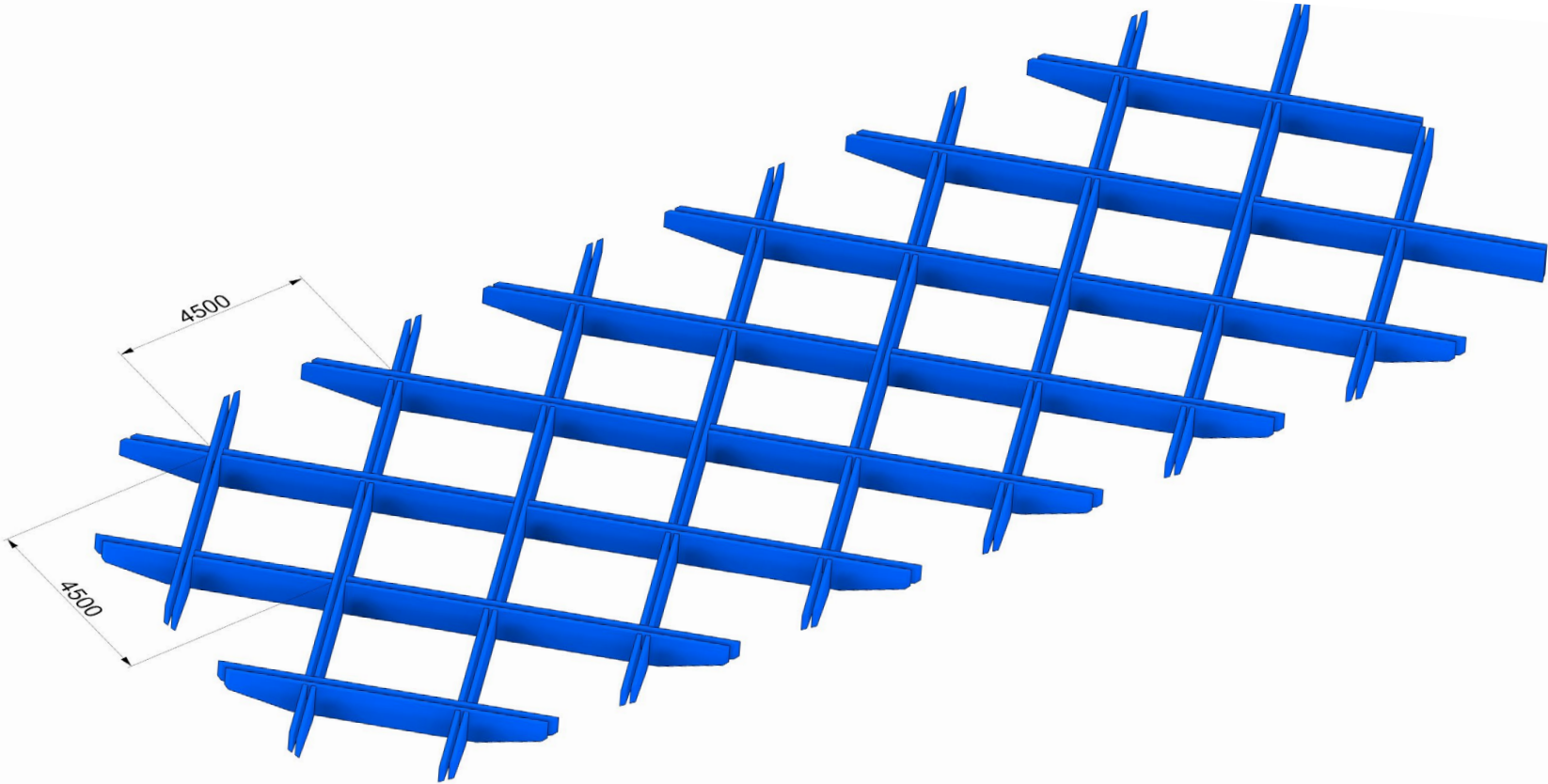
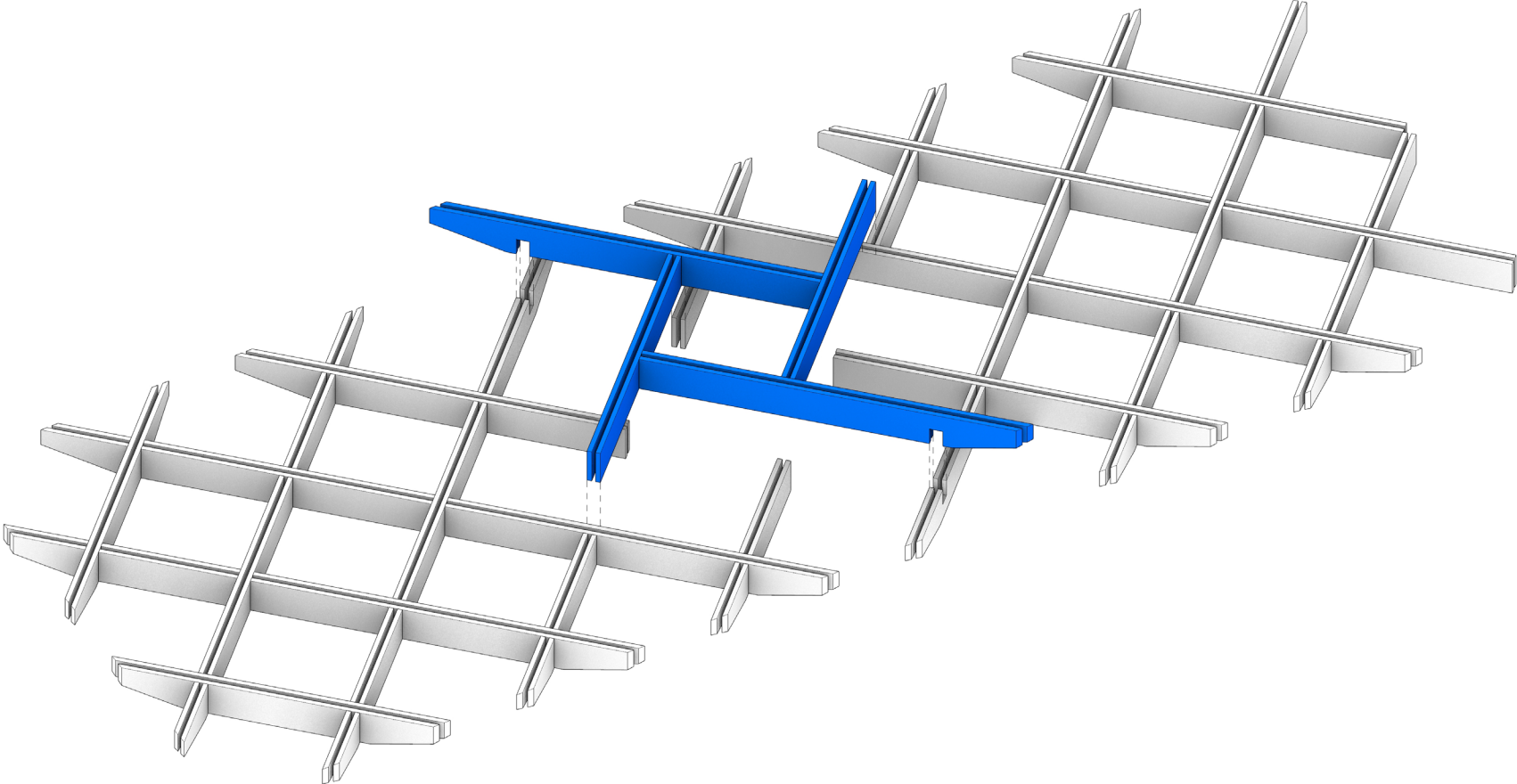
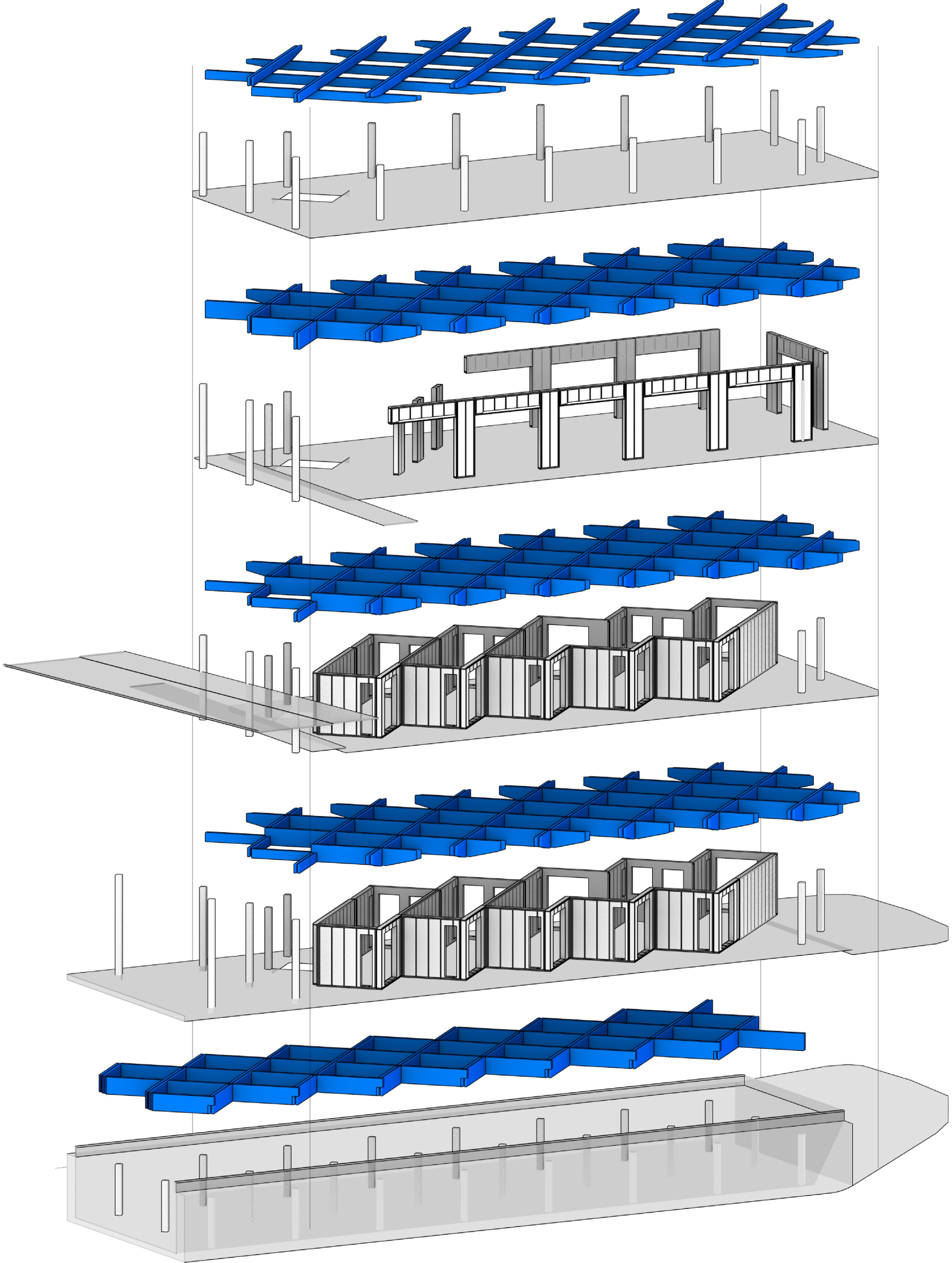
WATER AND SEWAGE



VENTILATION

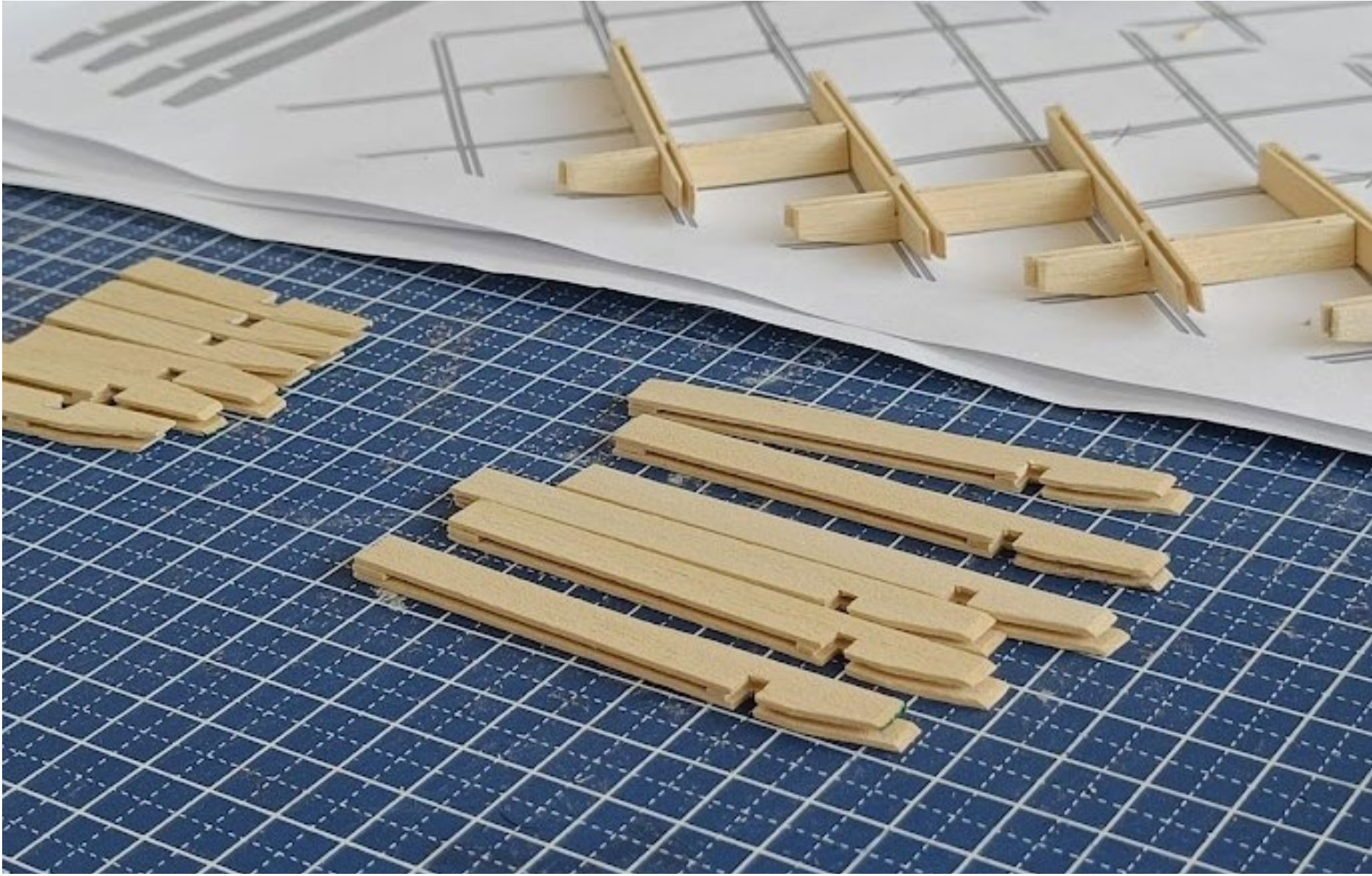
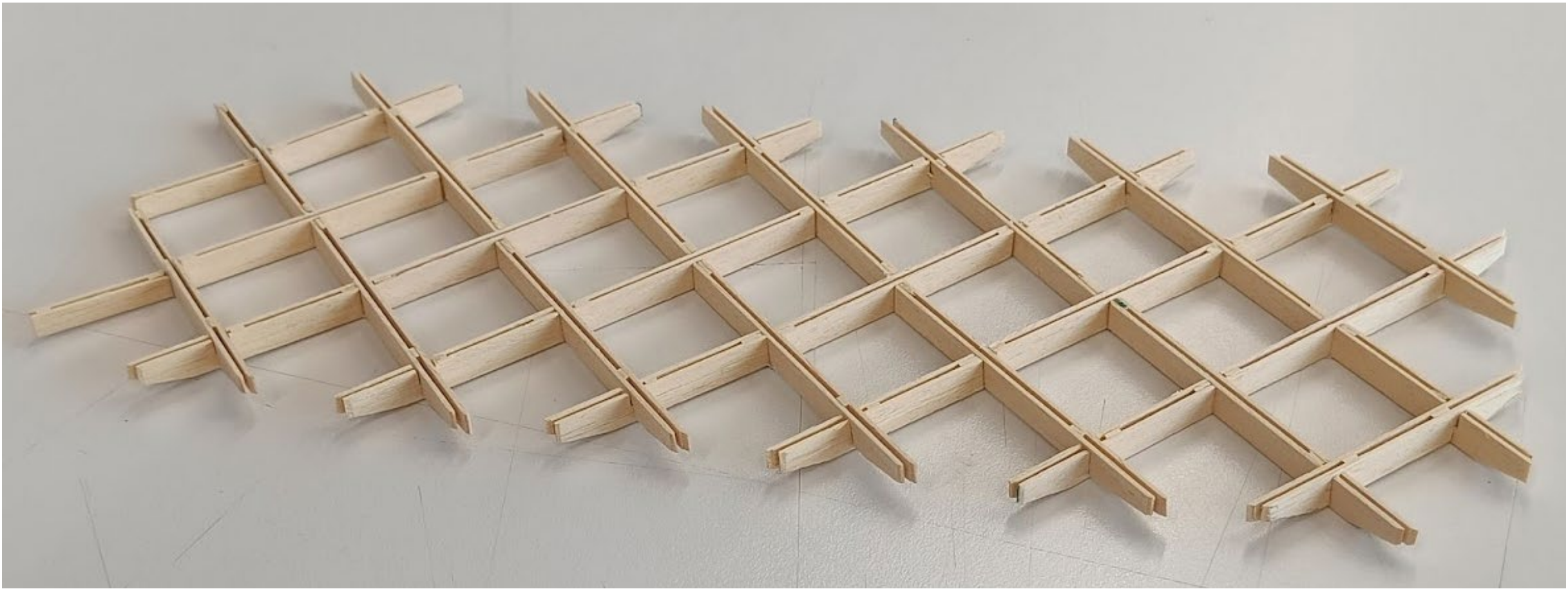
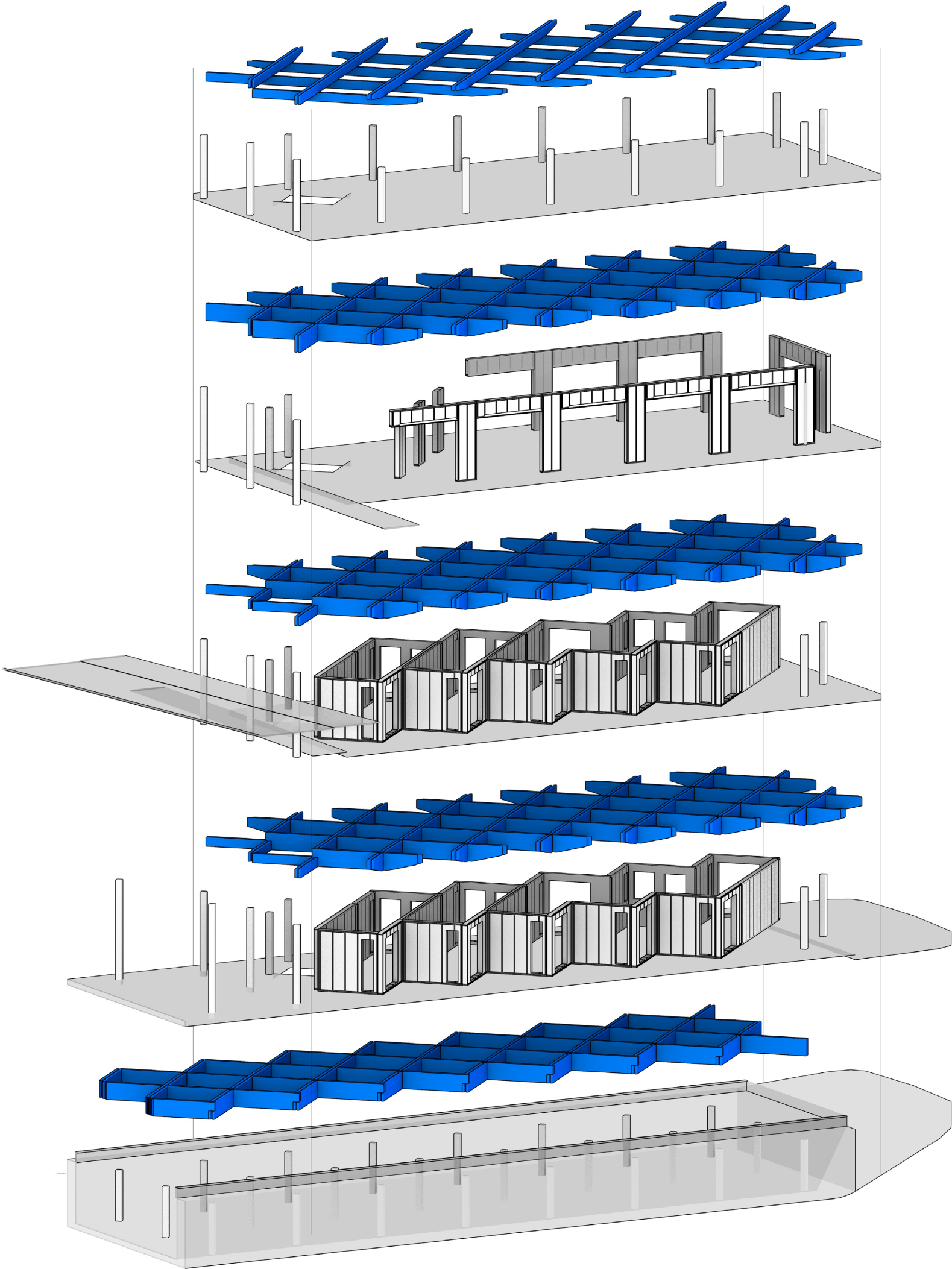


STRUCTURE

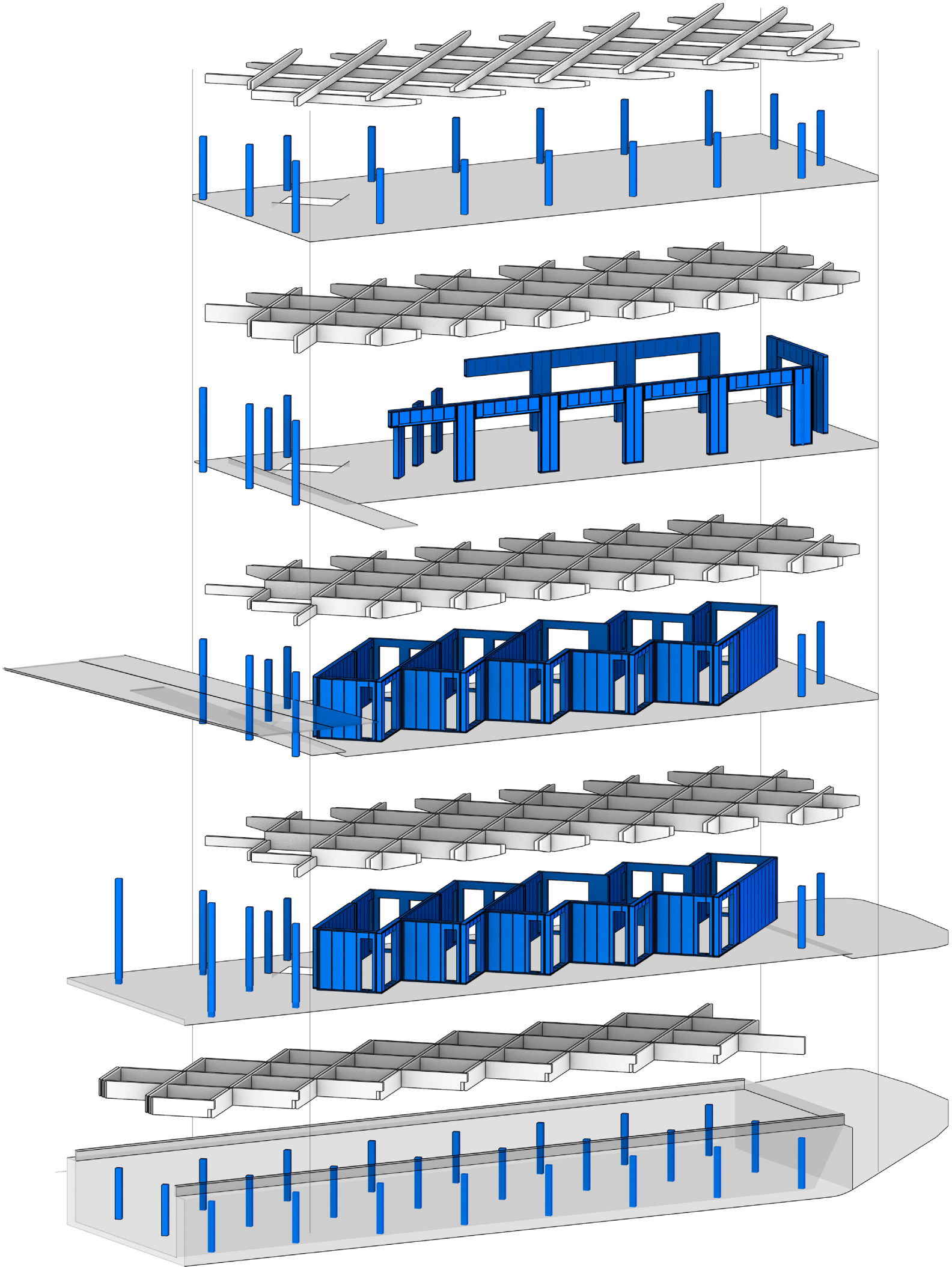


BUILDING RECIPROCAL BEAM FRAME

JUMP
OVER ONTO
THE IJ

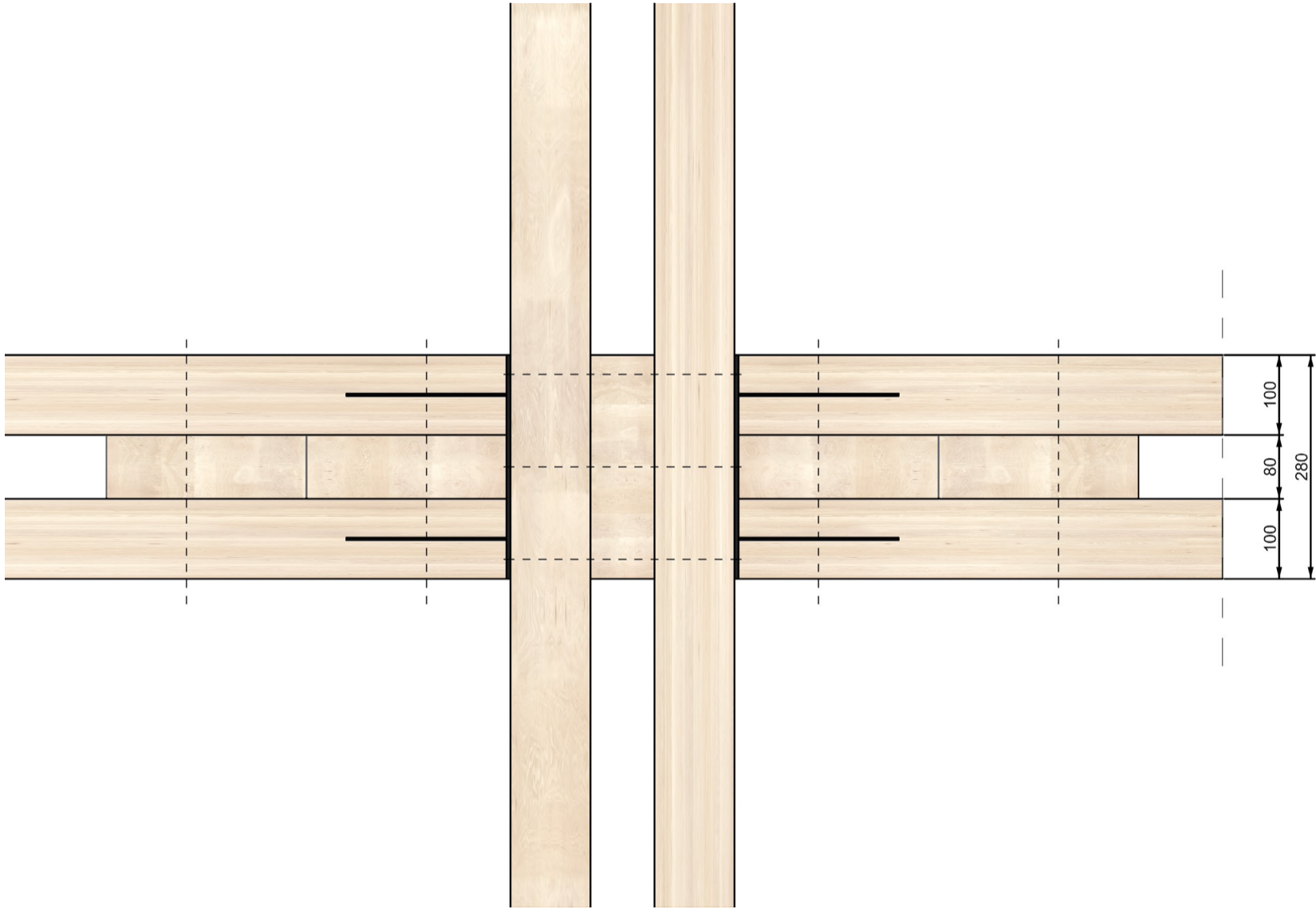
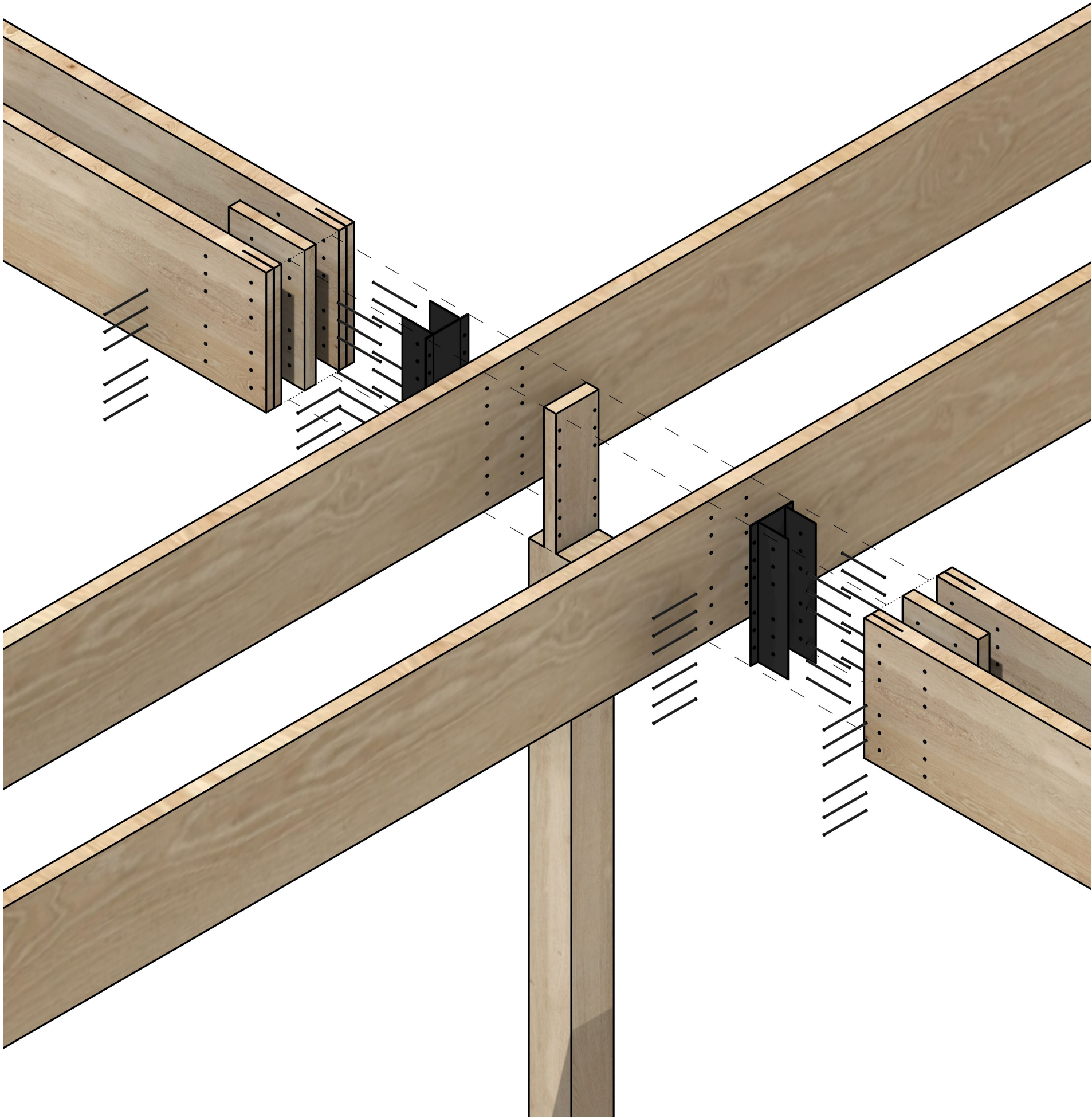


BUILDING RECIPROCAL BEAM FRAME



BUILDING COLUMNS AND WALLS

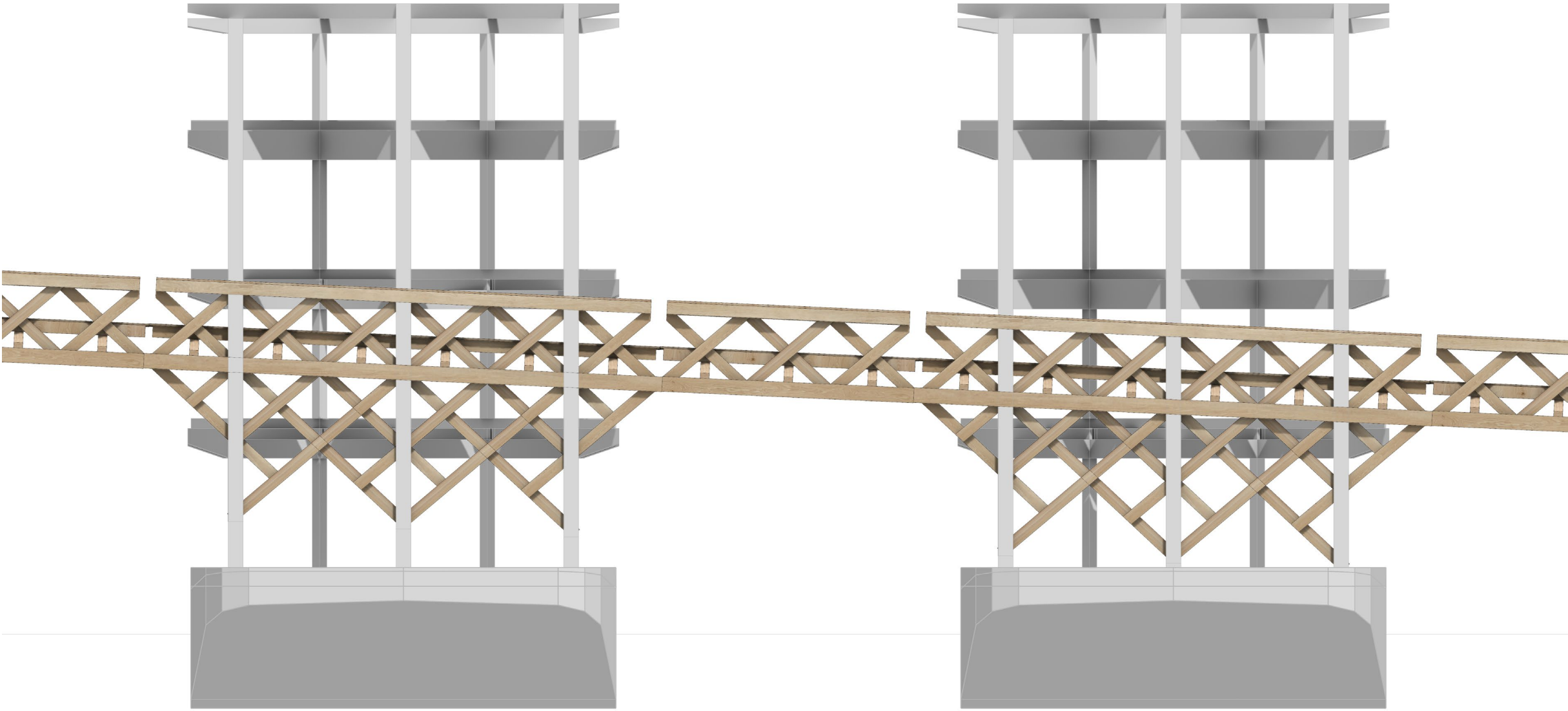
BUILDING BEAM TO COLUMN CONNECTION



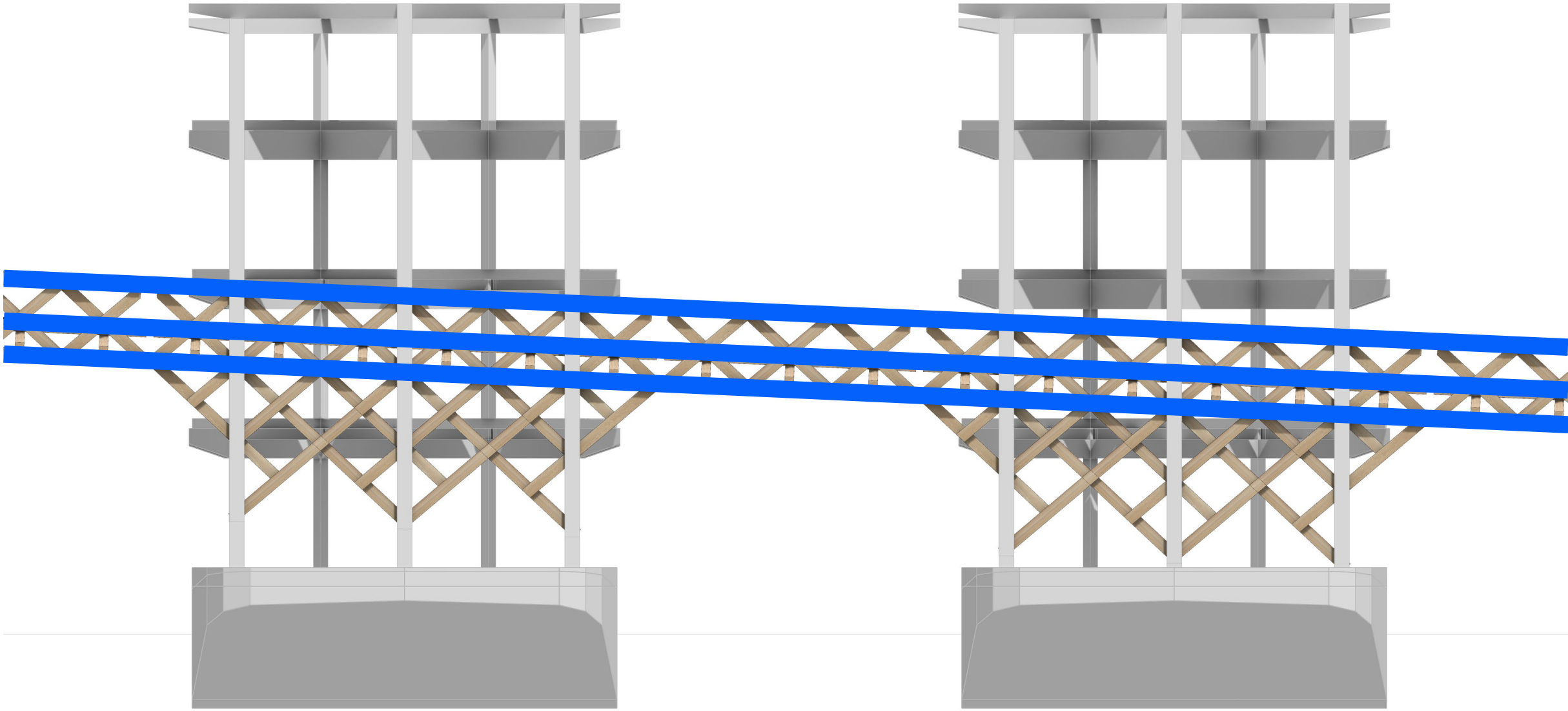
BUILDING BEAM TO COLUMN CONNECTION



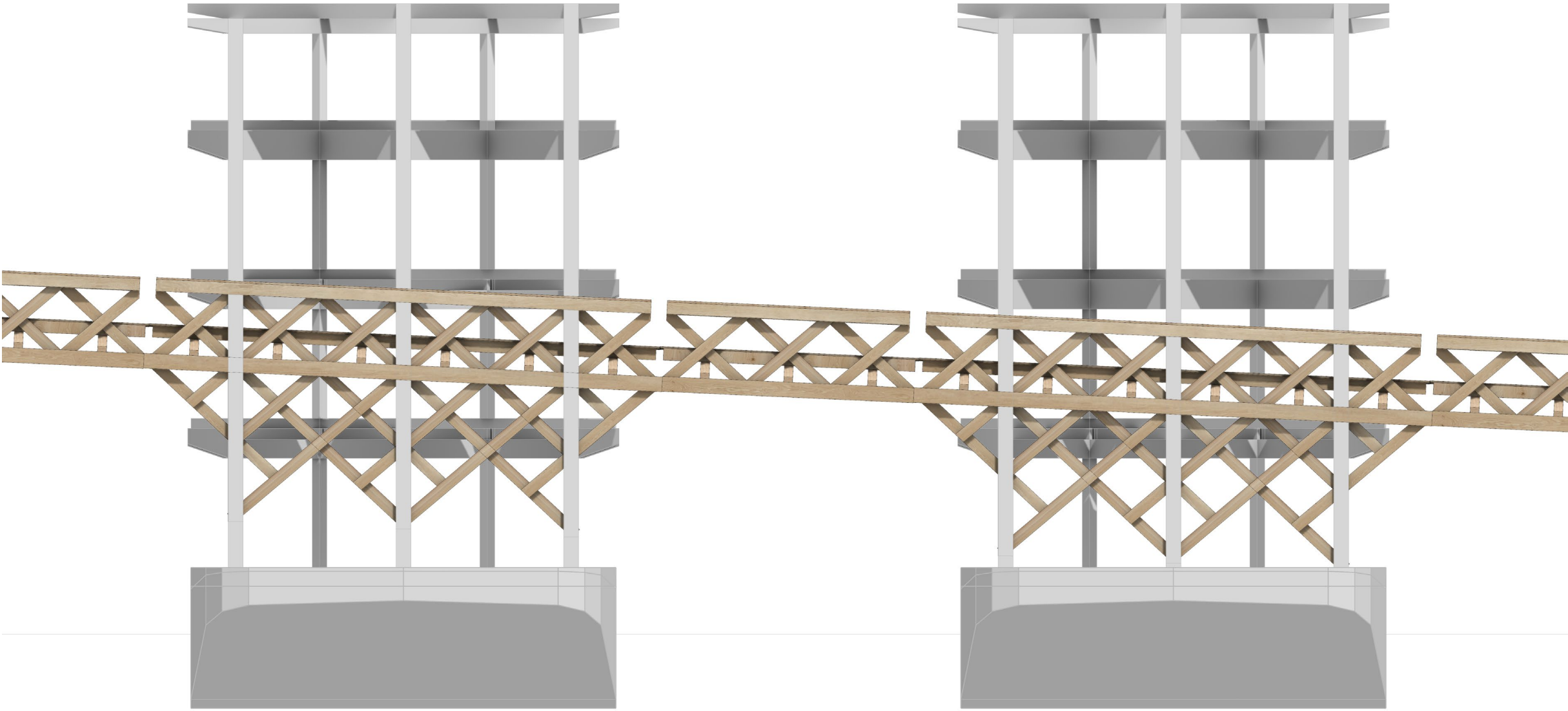
BRIDGE GRID



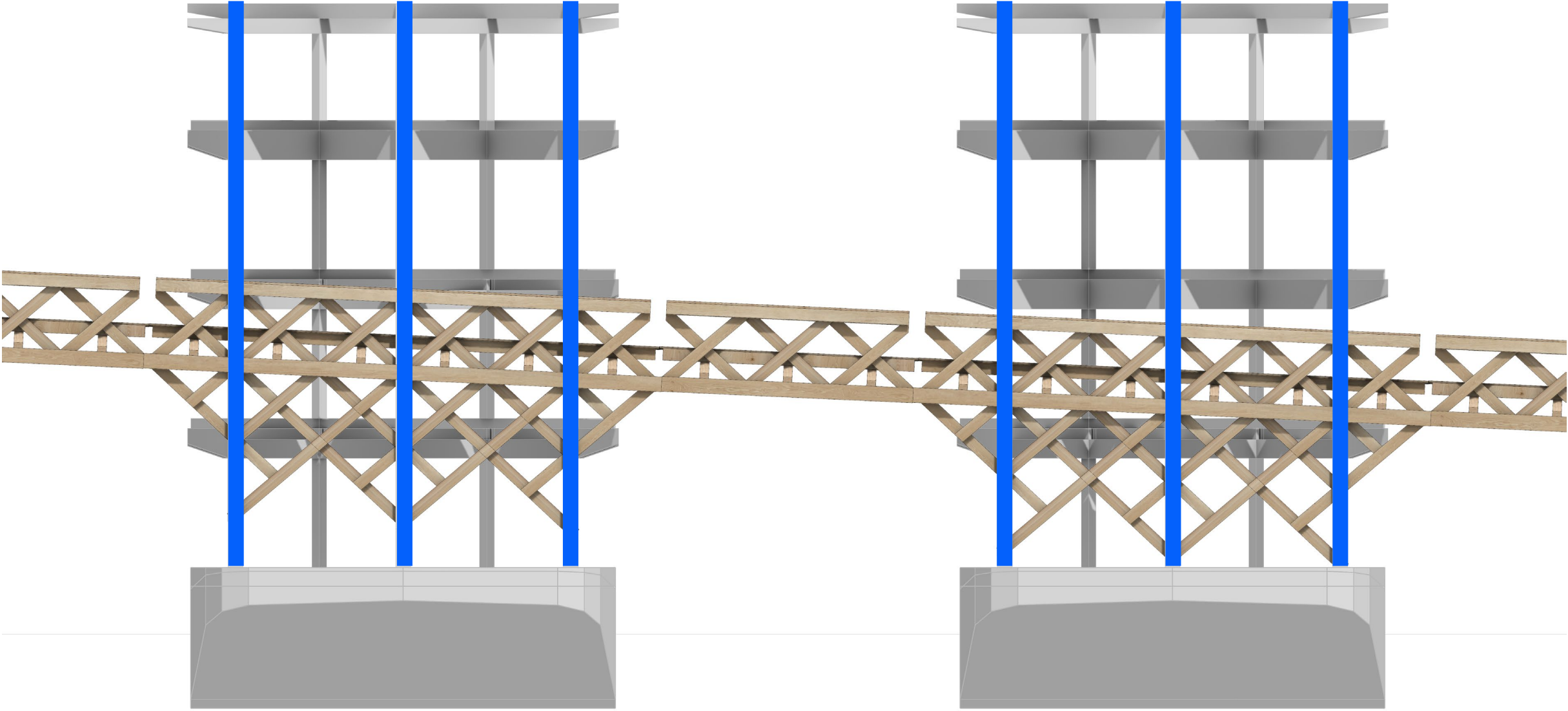
BRIDGE GRID DIAGONAL

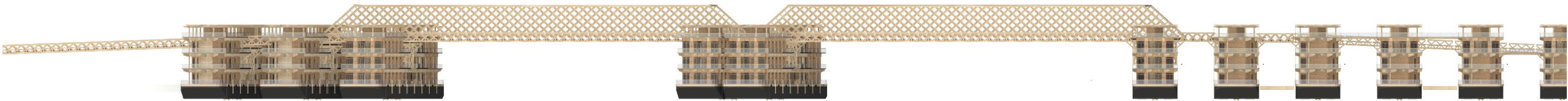
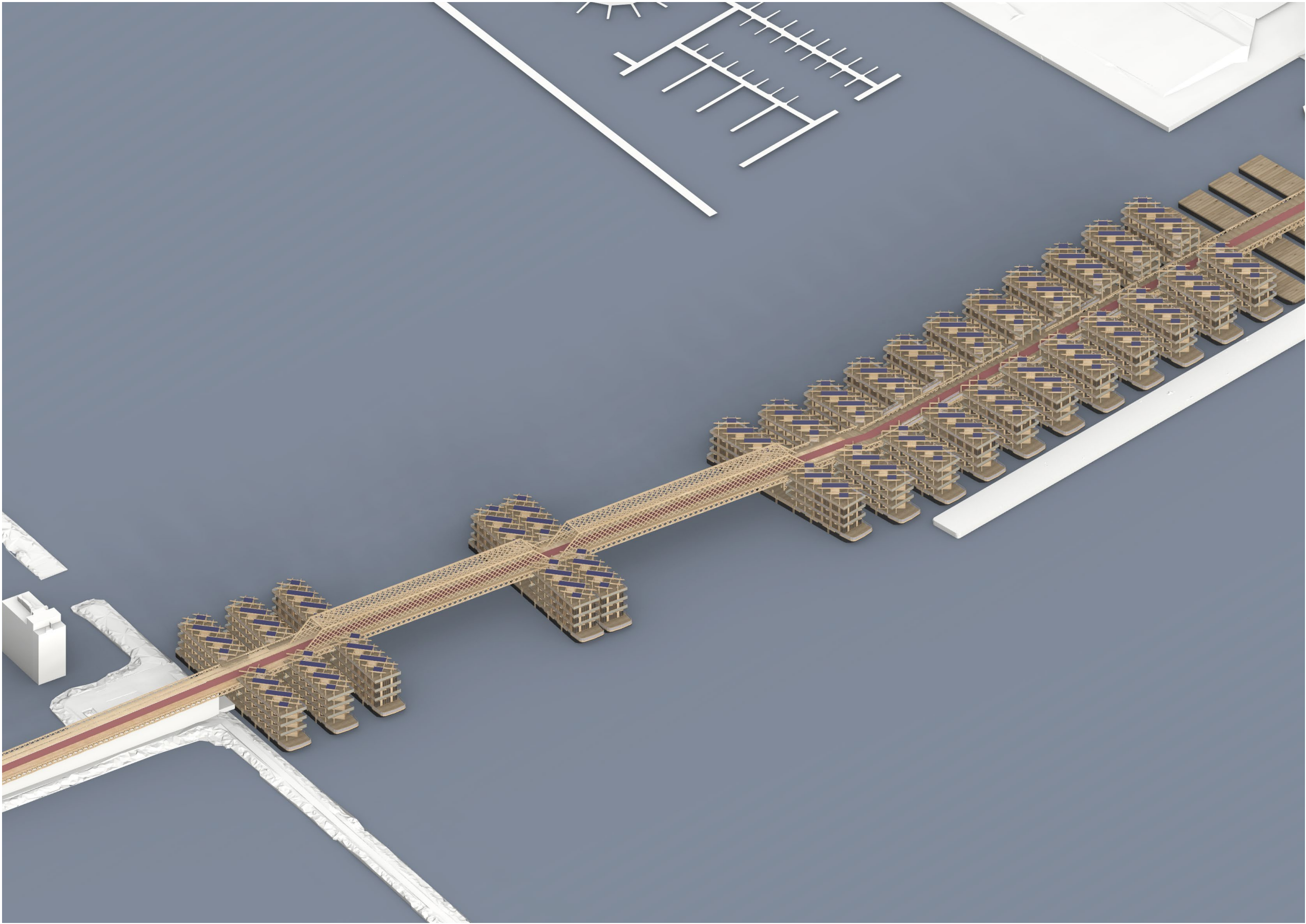


BRIDGE GRID



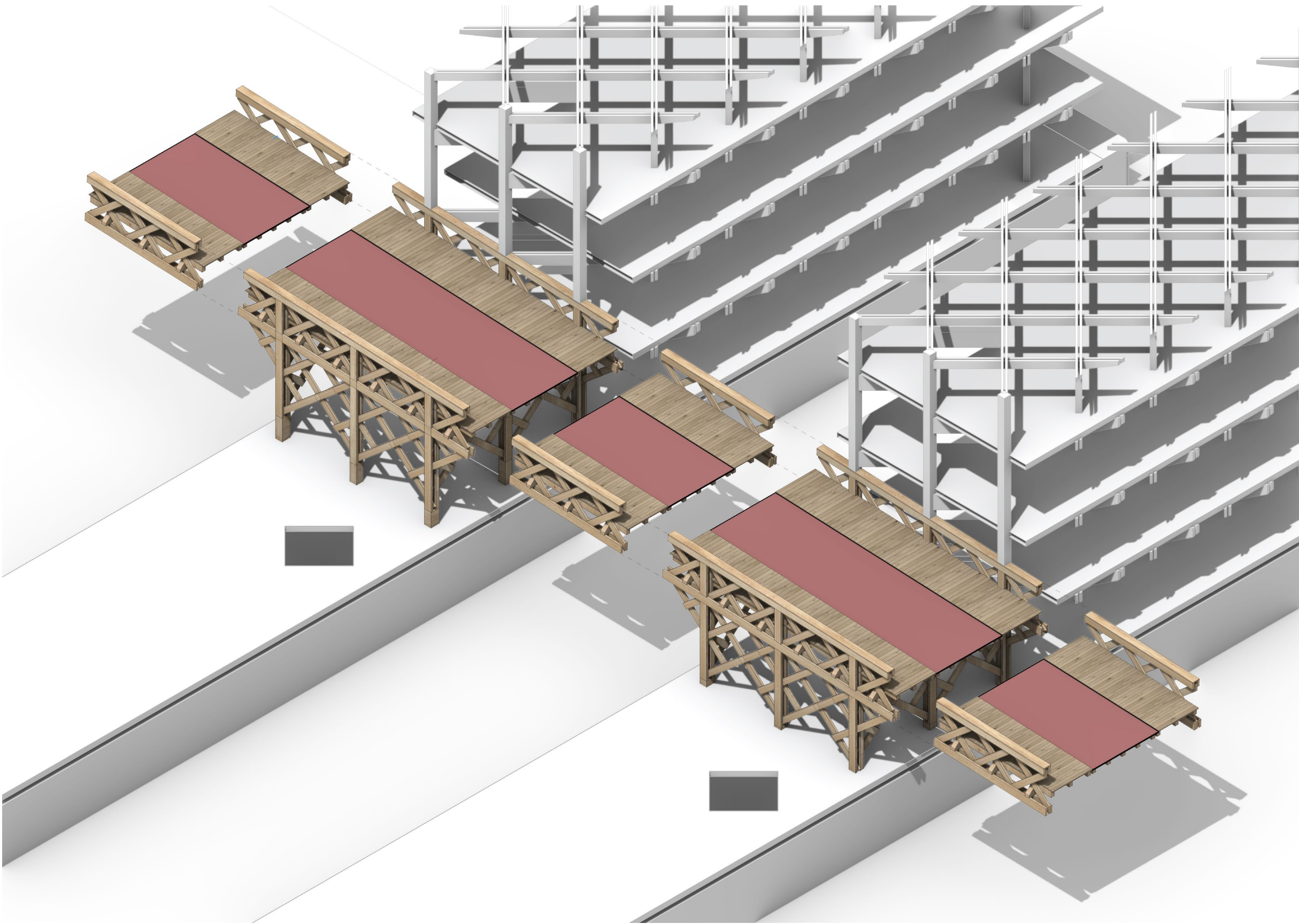
BRIDGE GRID VERTICAL



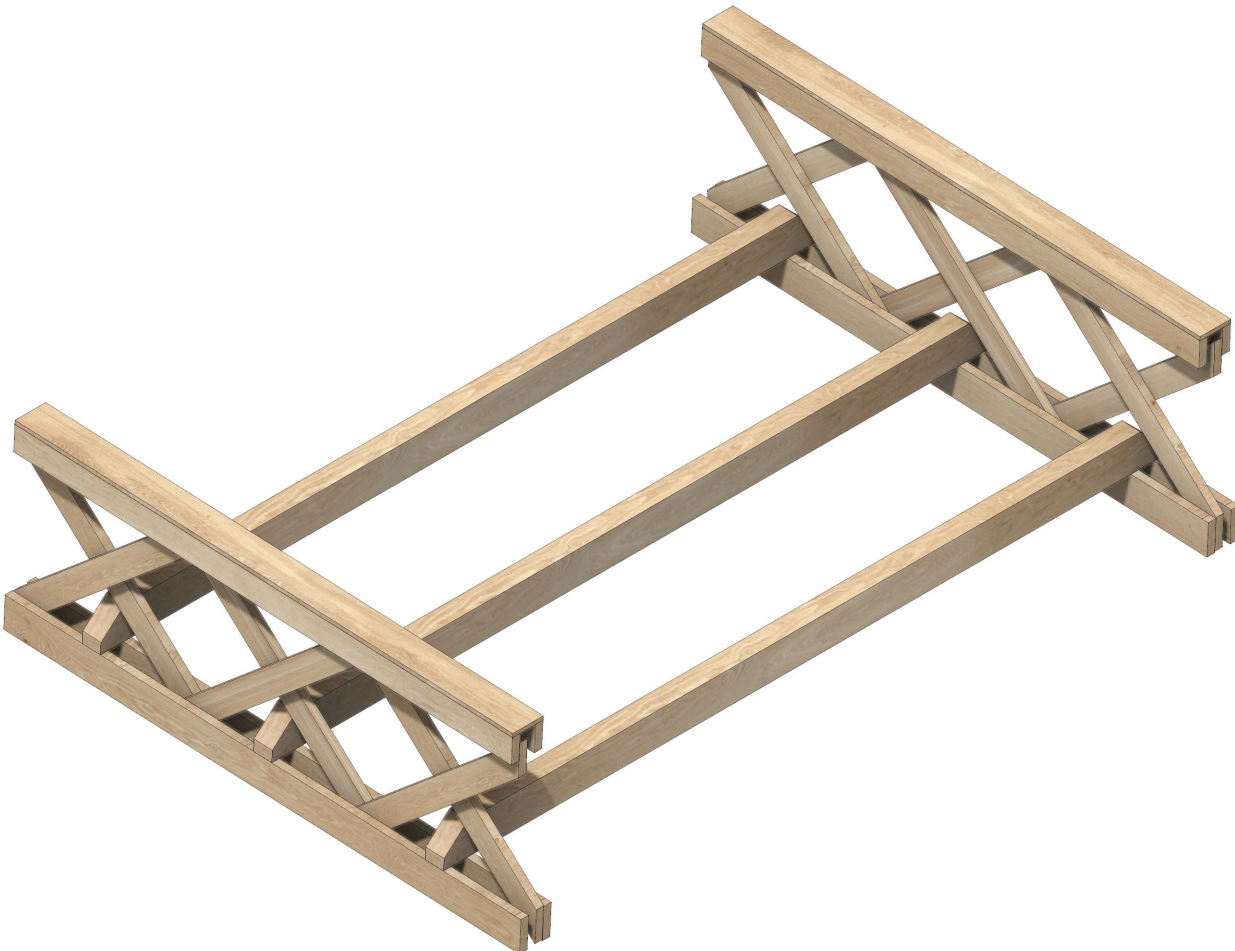


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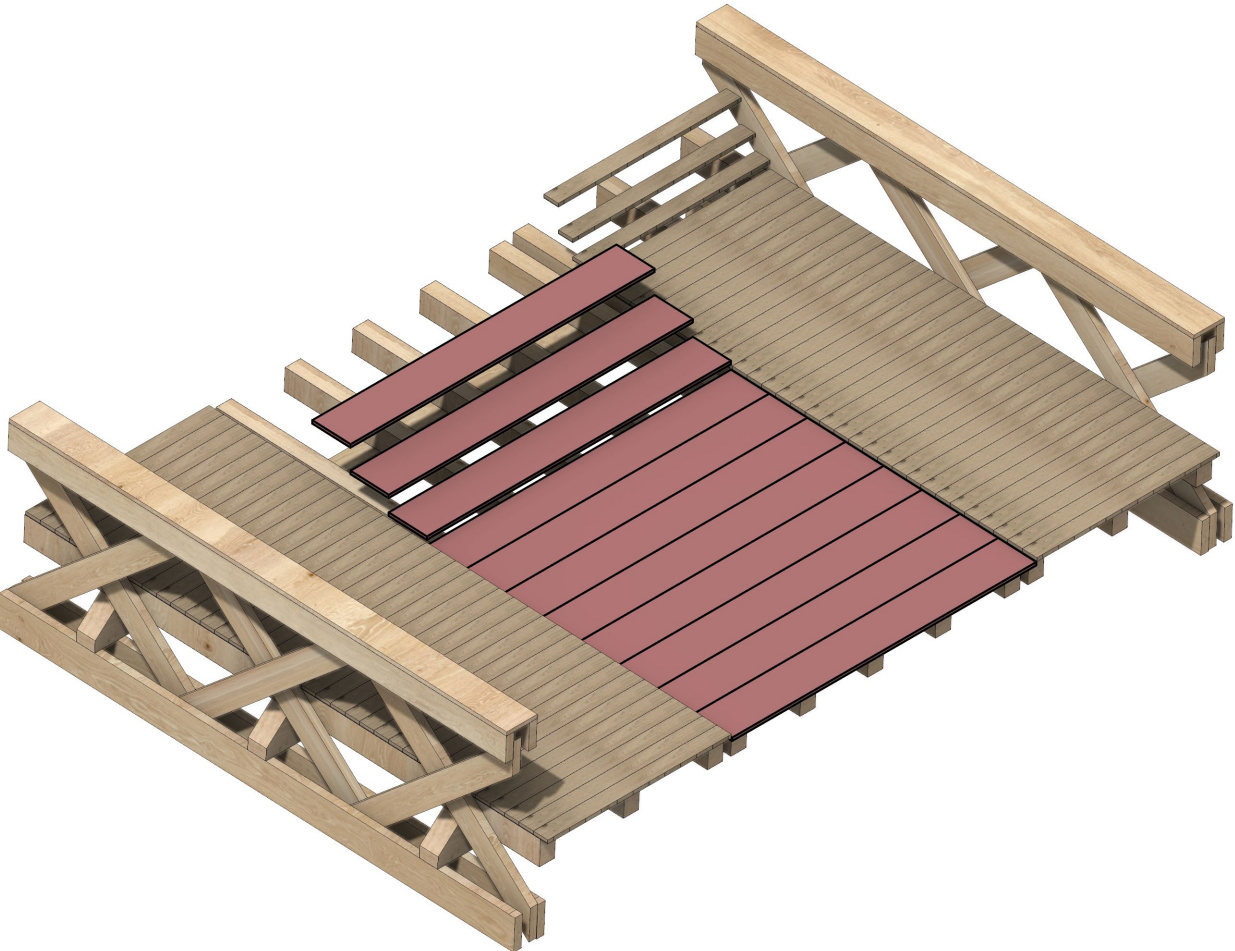
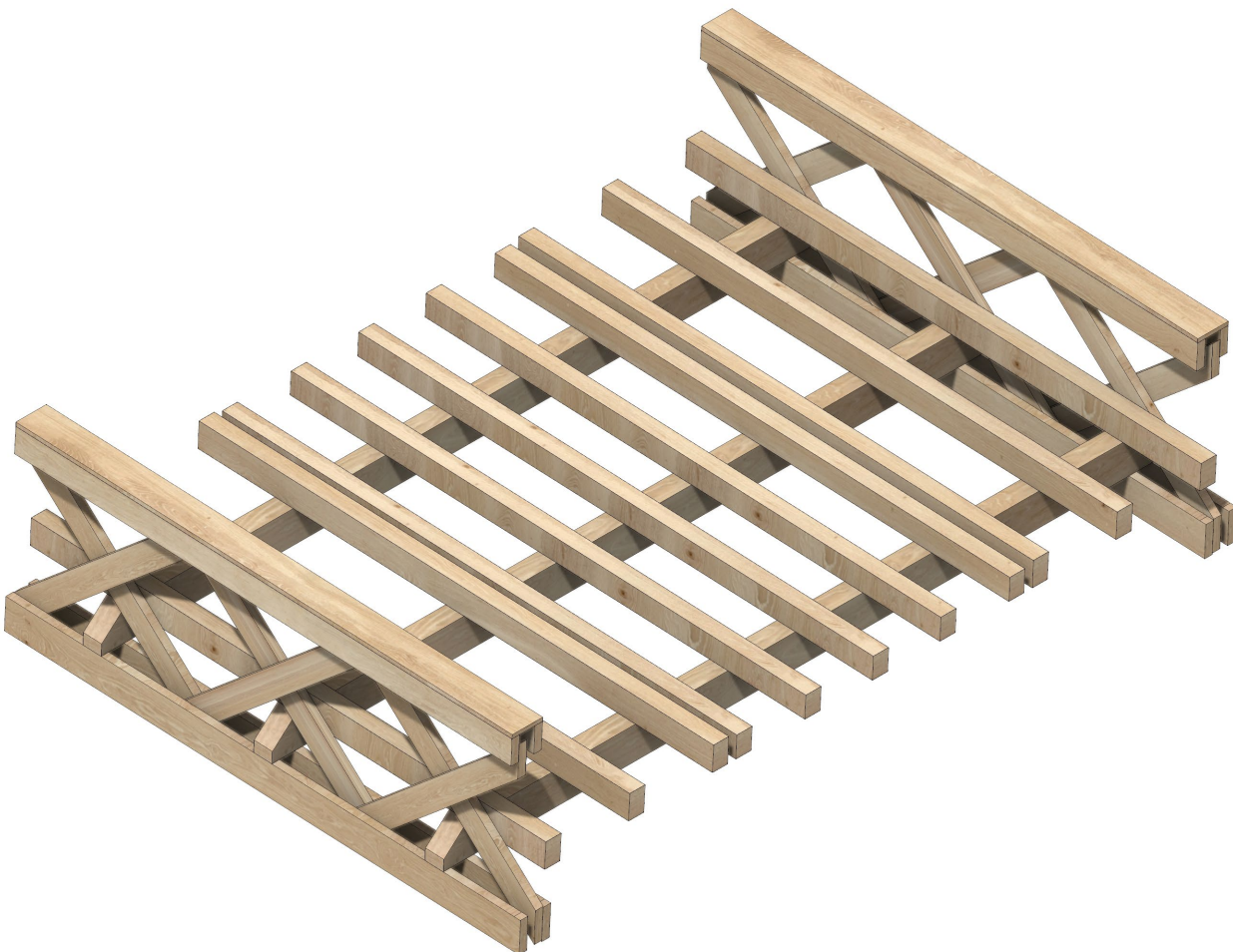
JUMP
OVER ~~THE~~ ONTO
THE IJ



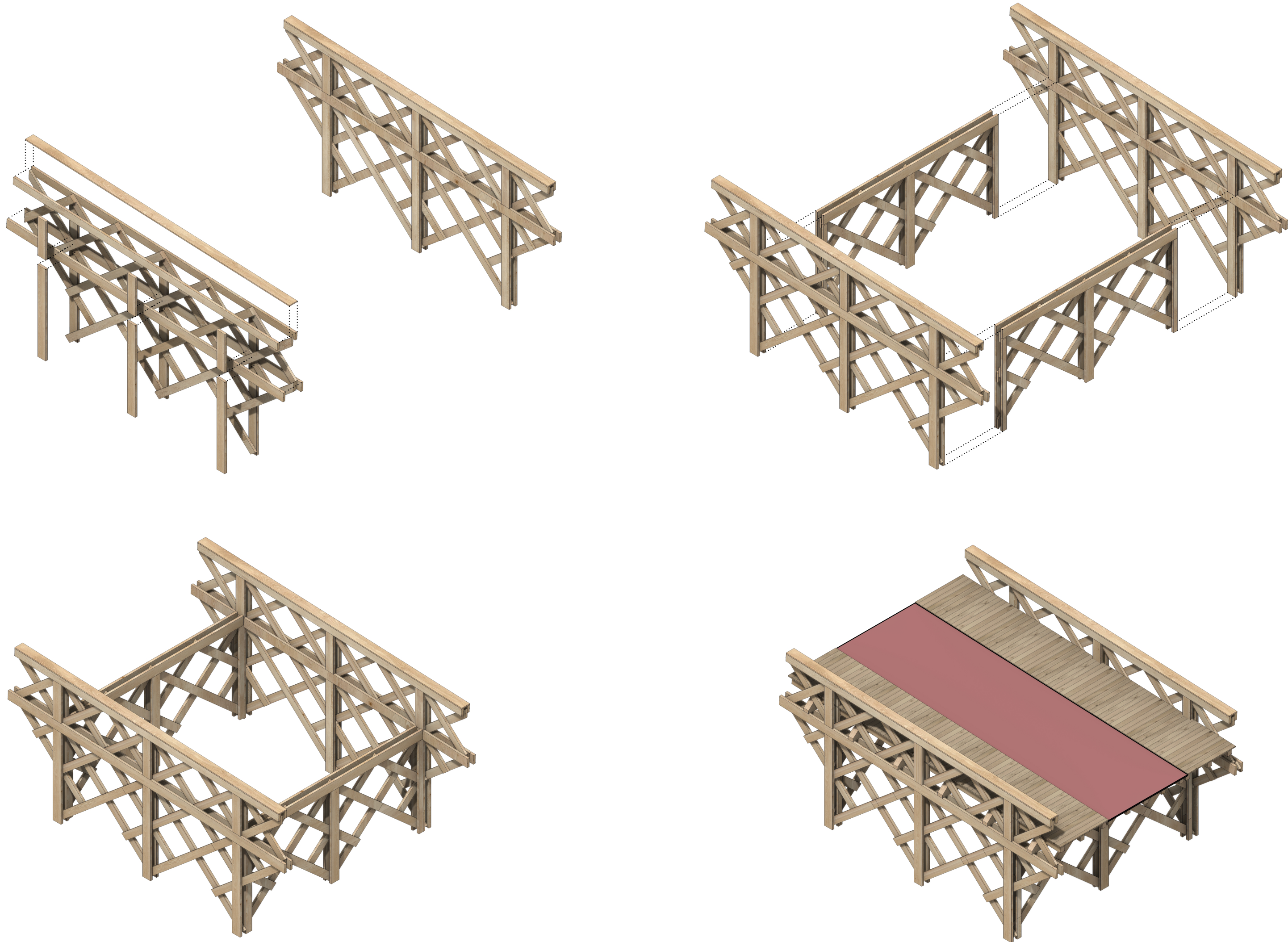
BRIDGE MAIN WALKWAY CONSTRUCTION



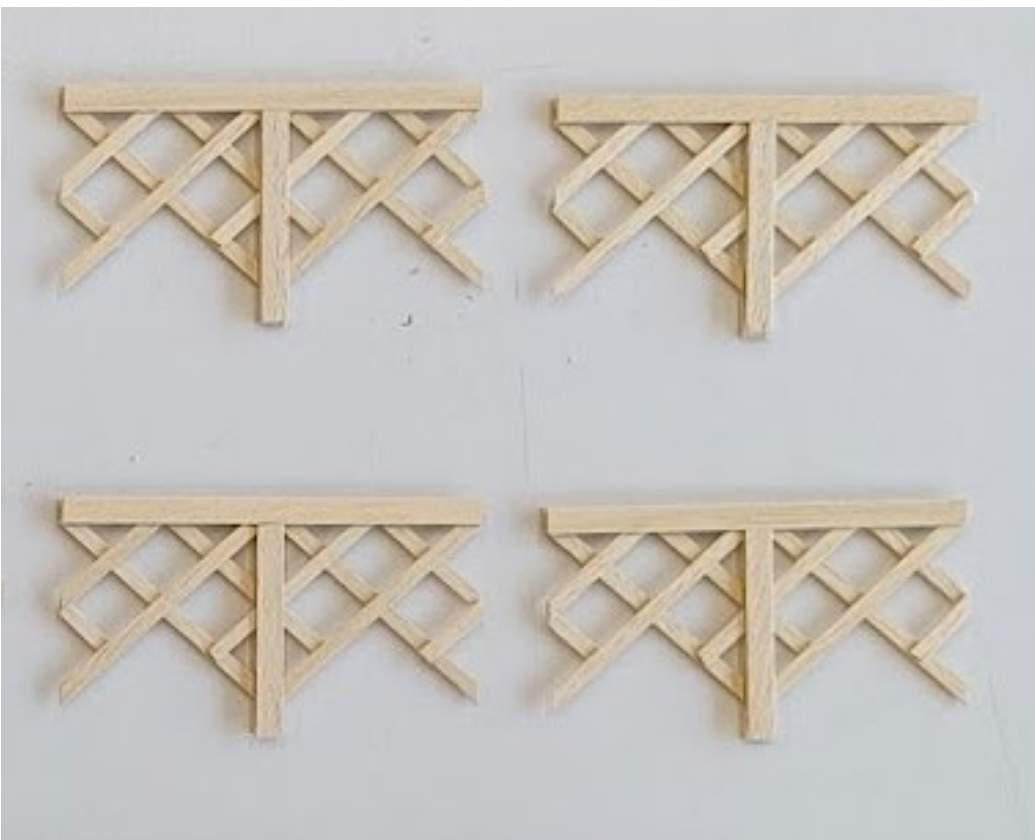
BRIDGE SUSPENDED CONSTRUCTION

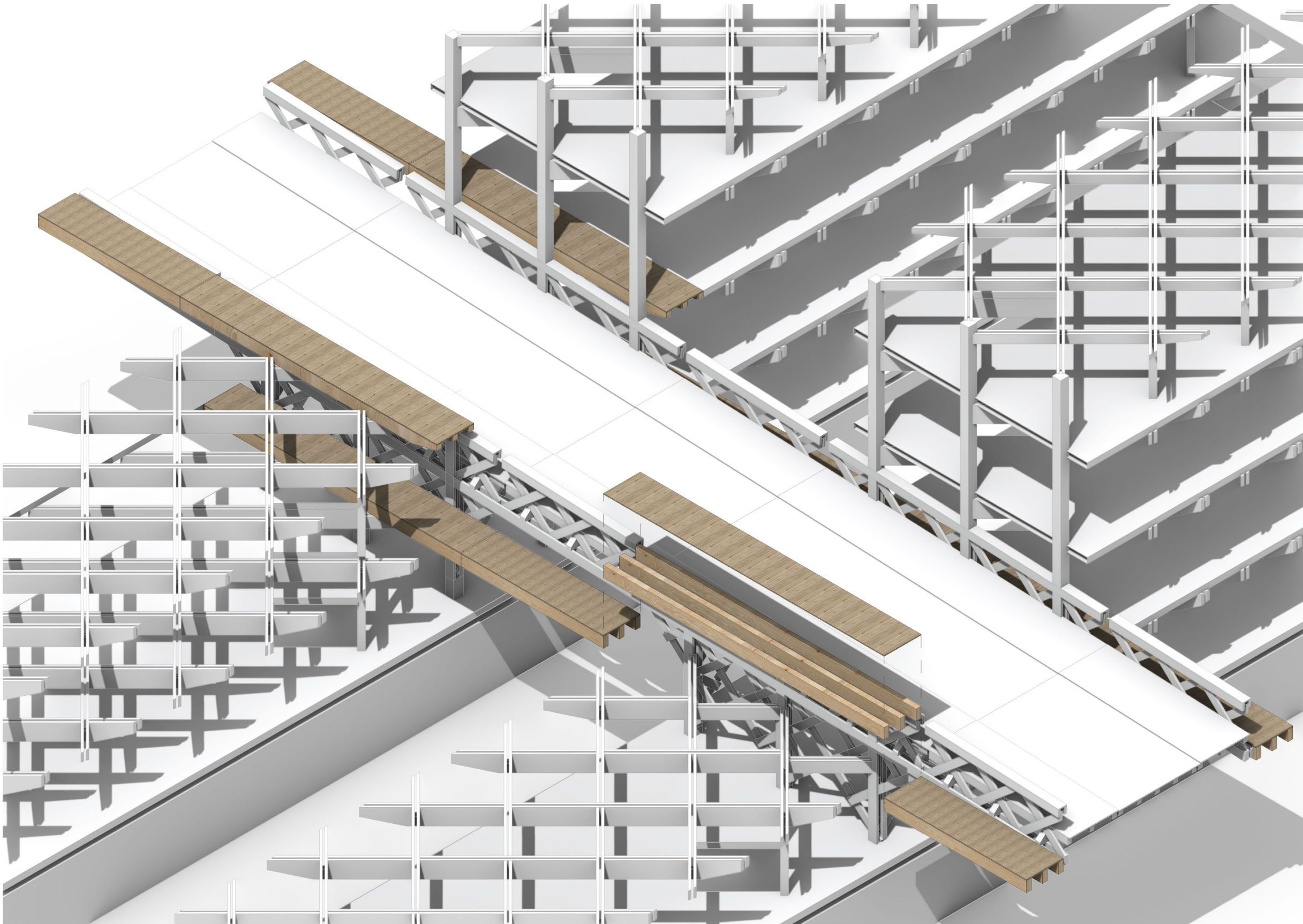


JUMP
OVER ONTO
THEIR

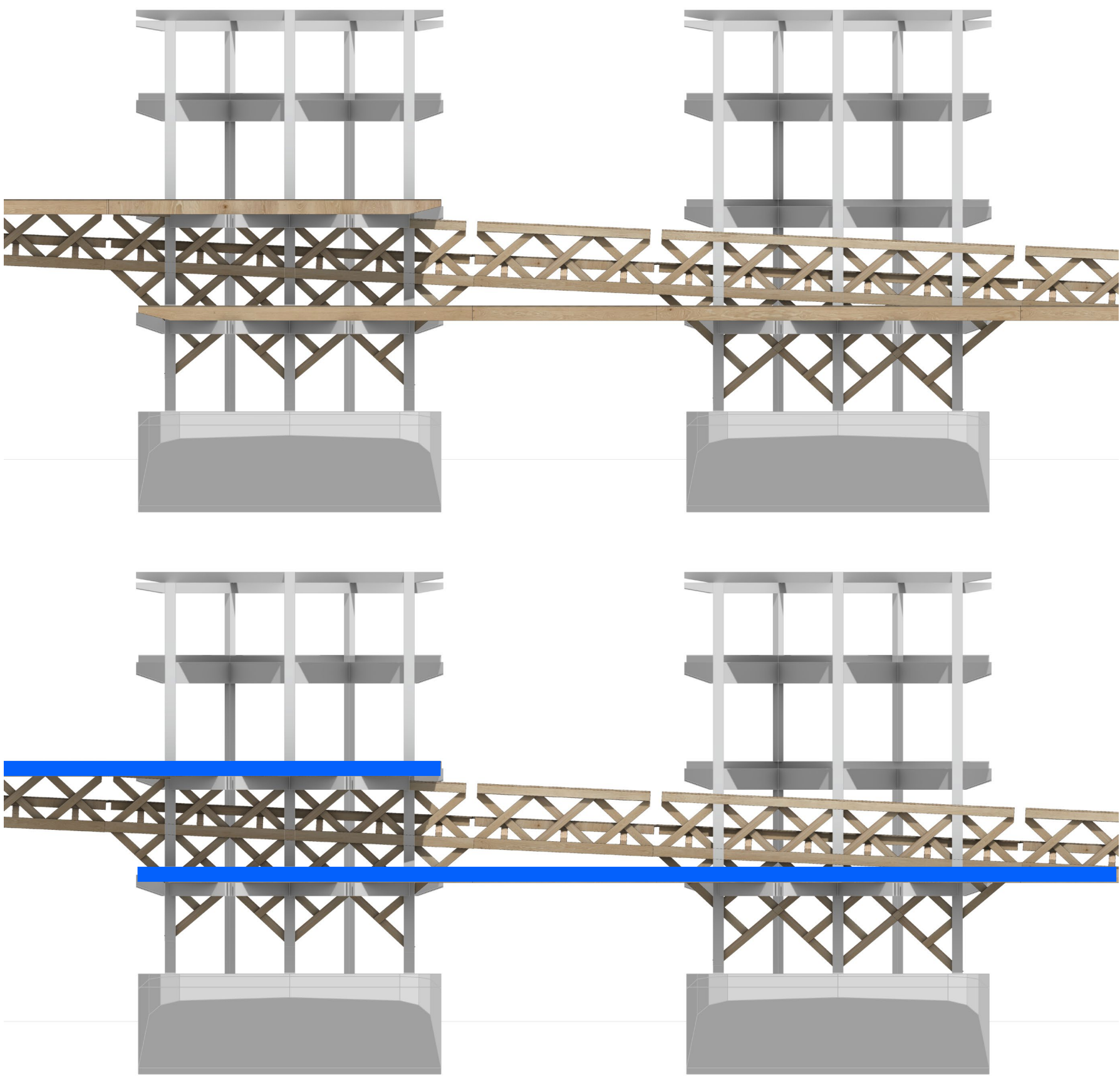


BRIDGE CONSTRUCTION ON THE BARGE

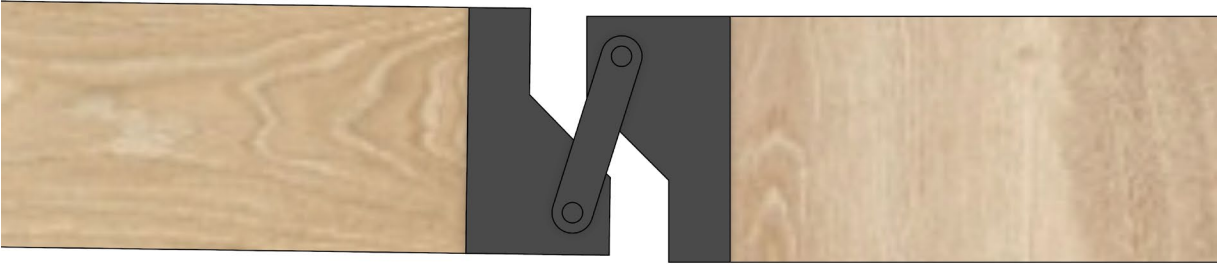
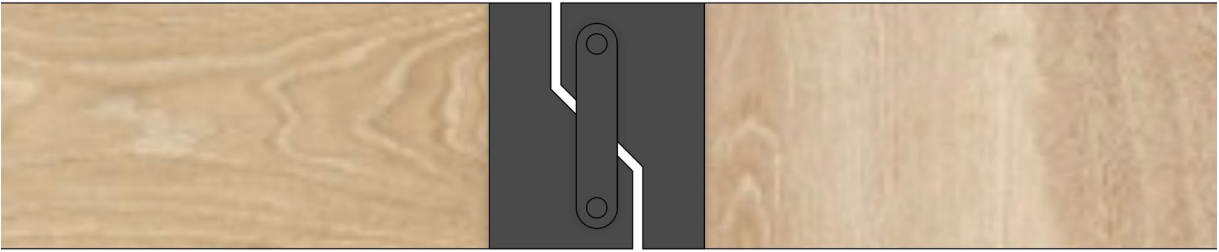
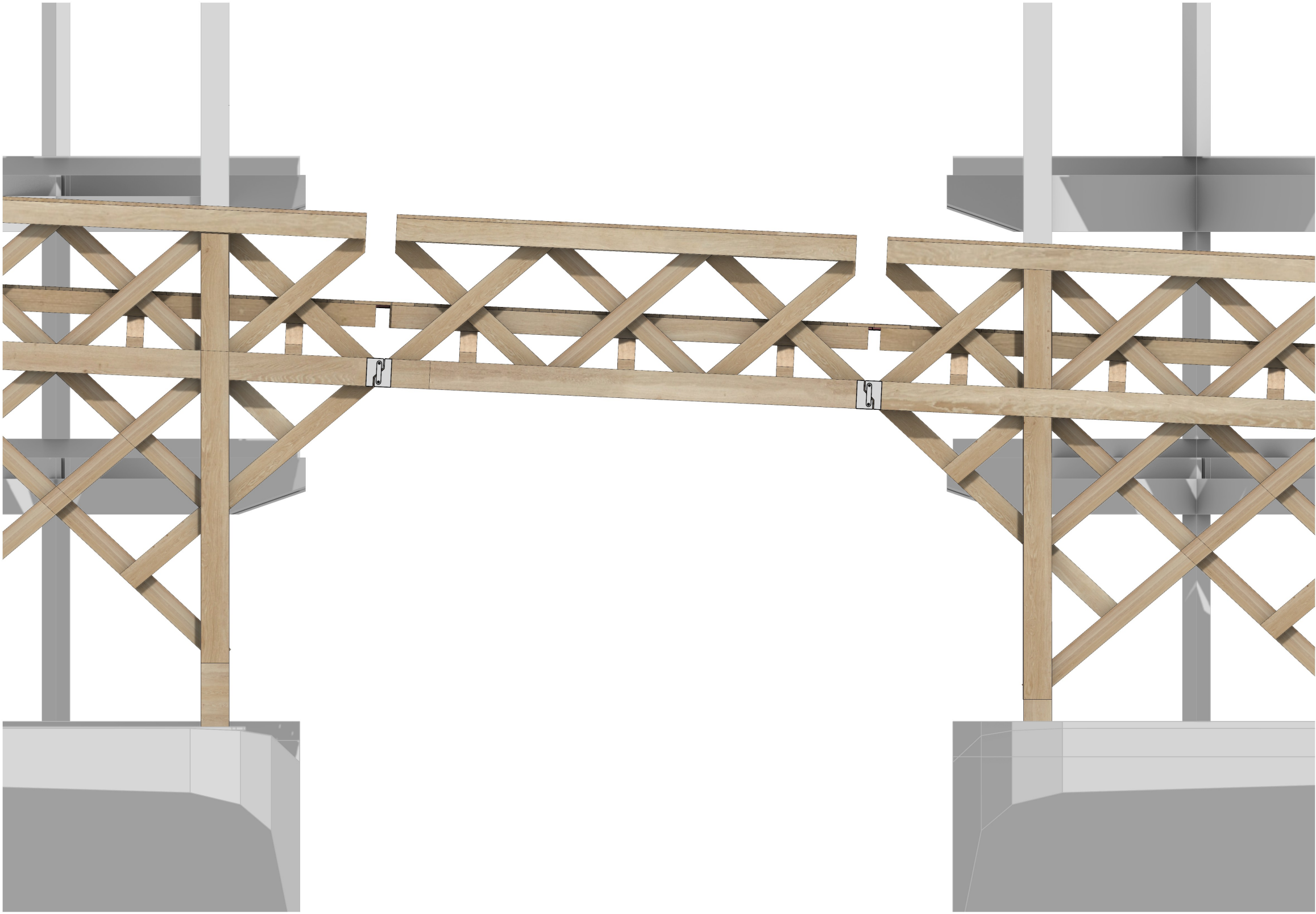




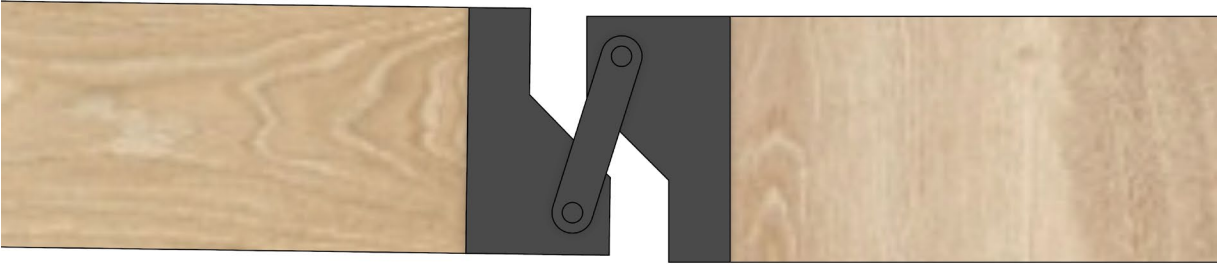
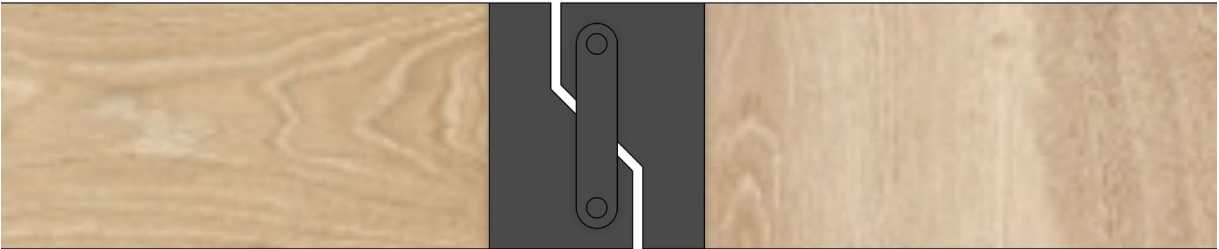
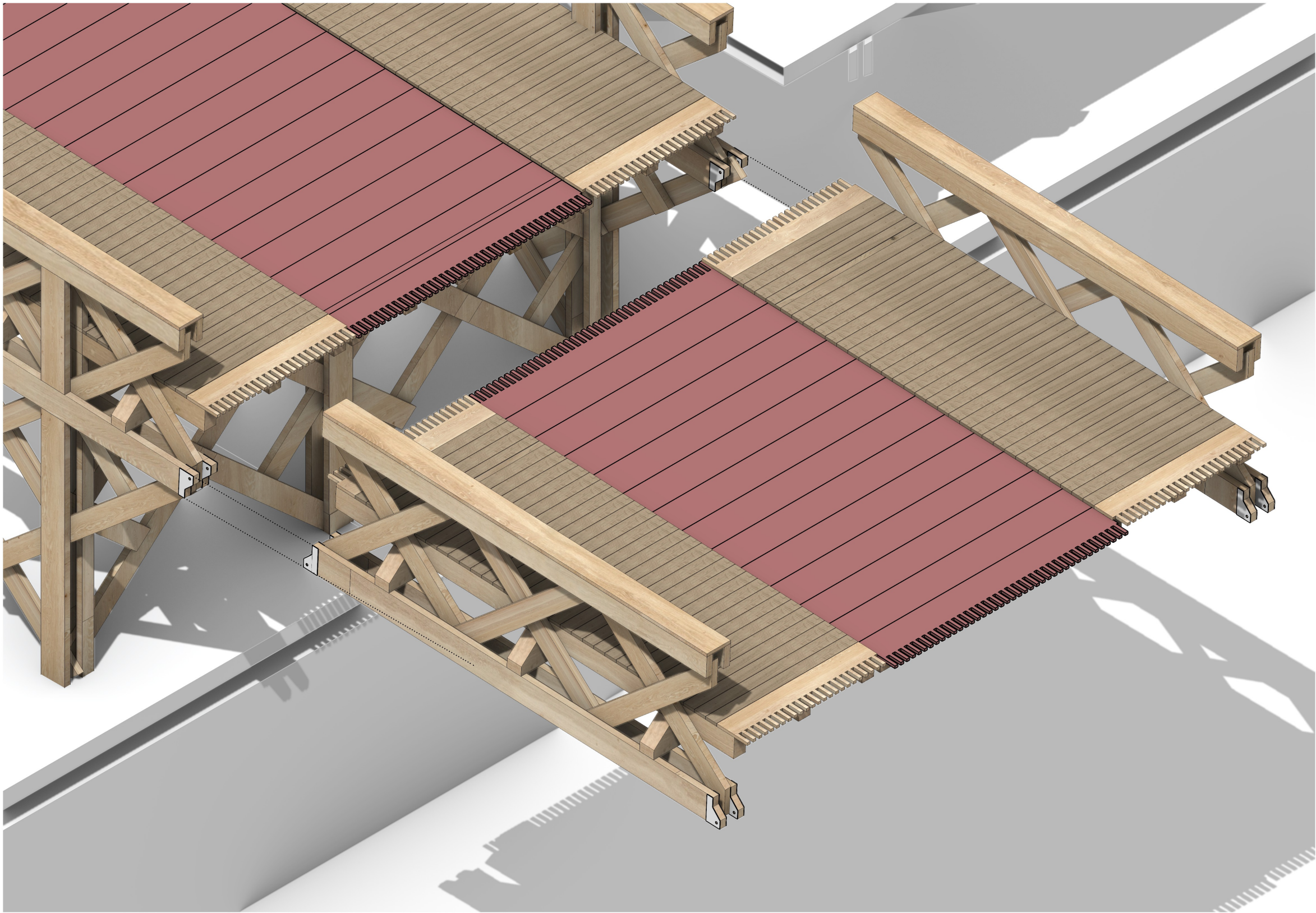
BRIDGE **SECONDARY WALKWAY CONSTRUCTION**



JUMP
OVER ONTO
THE IJ

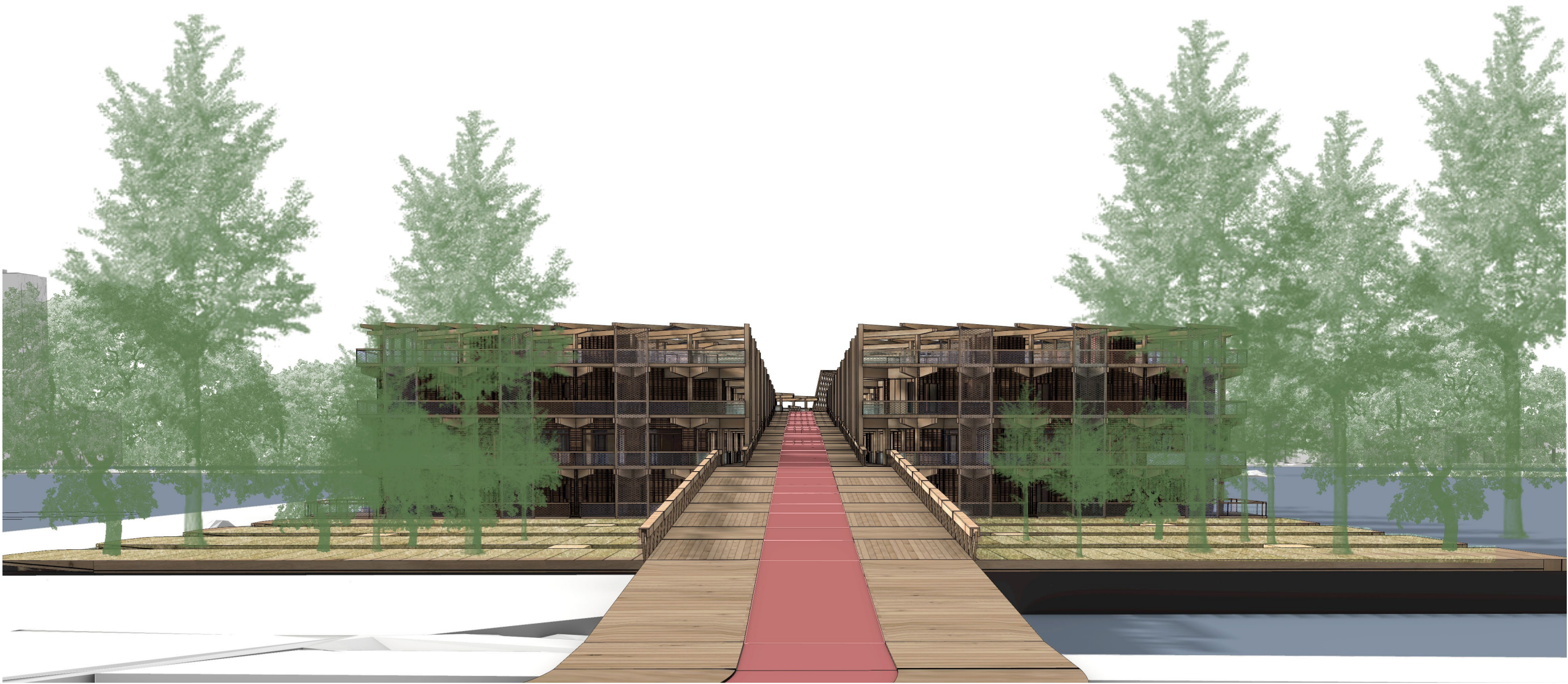


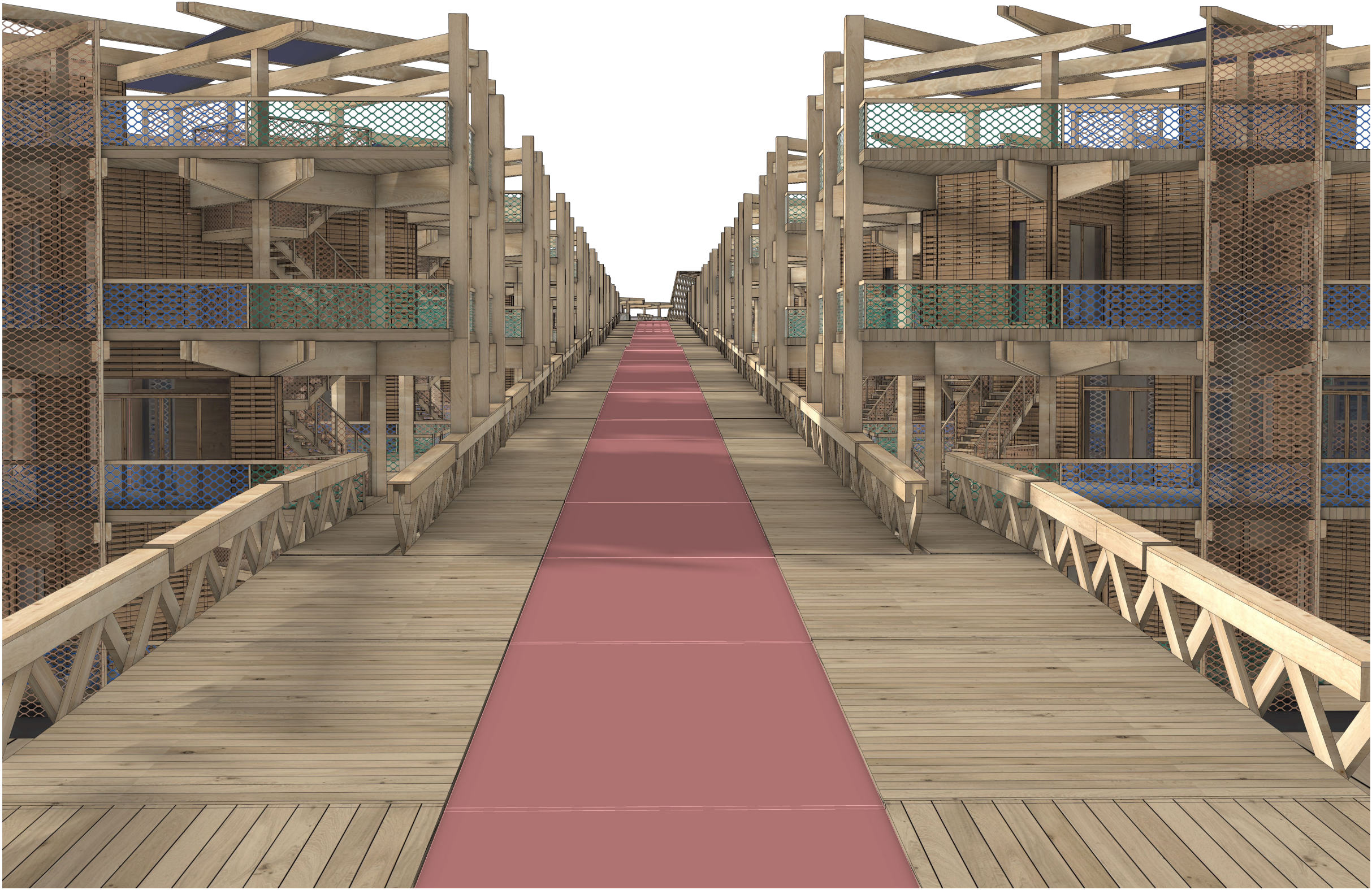
BRIDGE HINGE

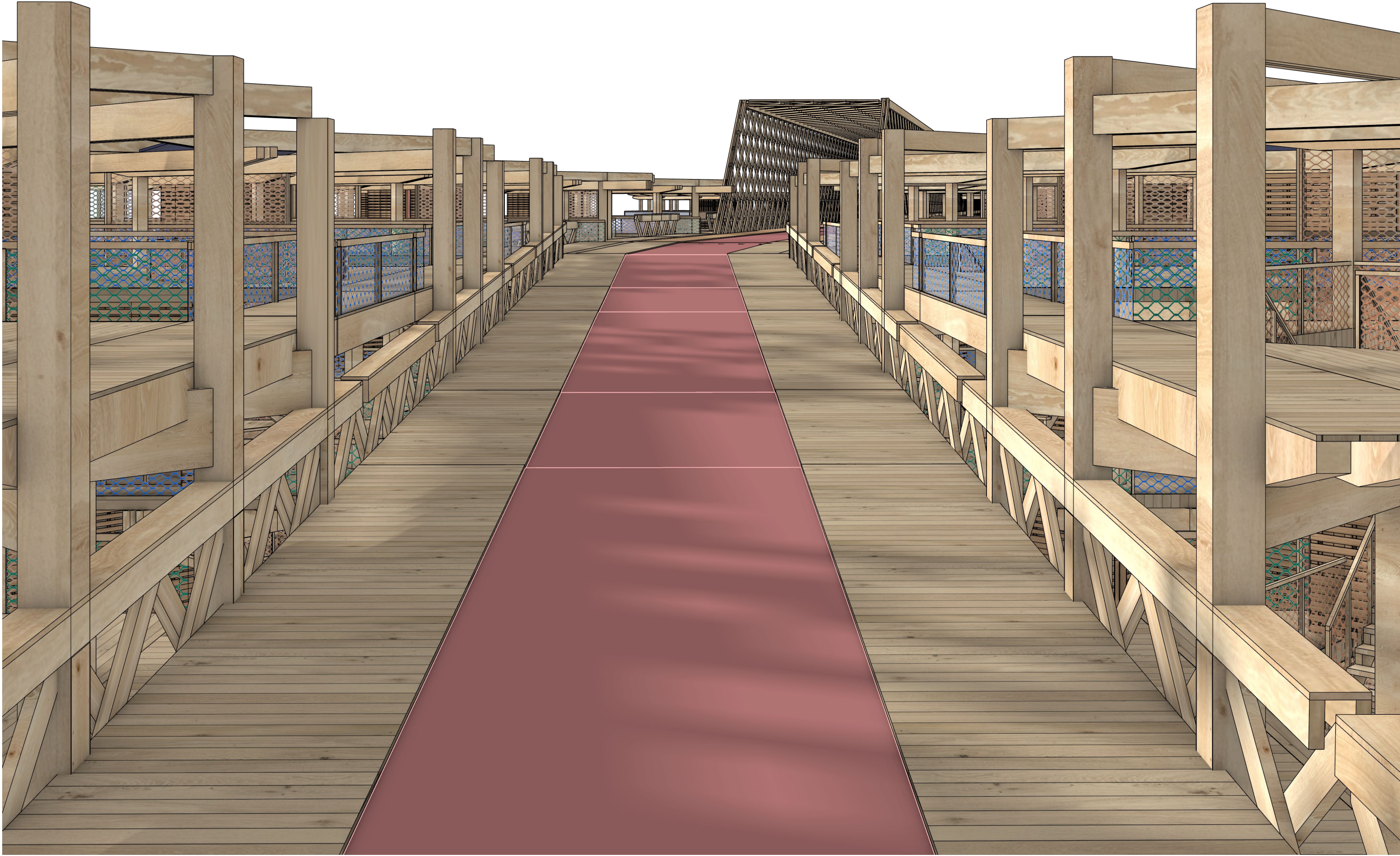


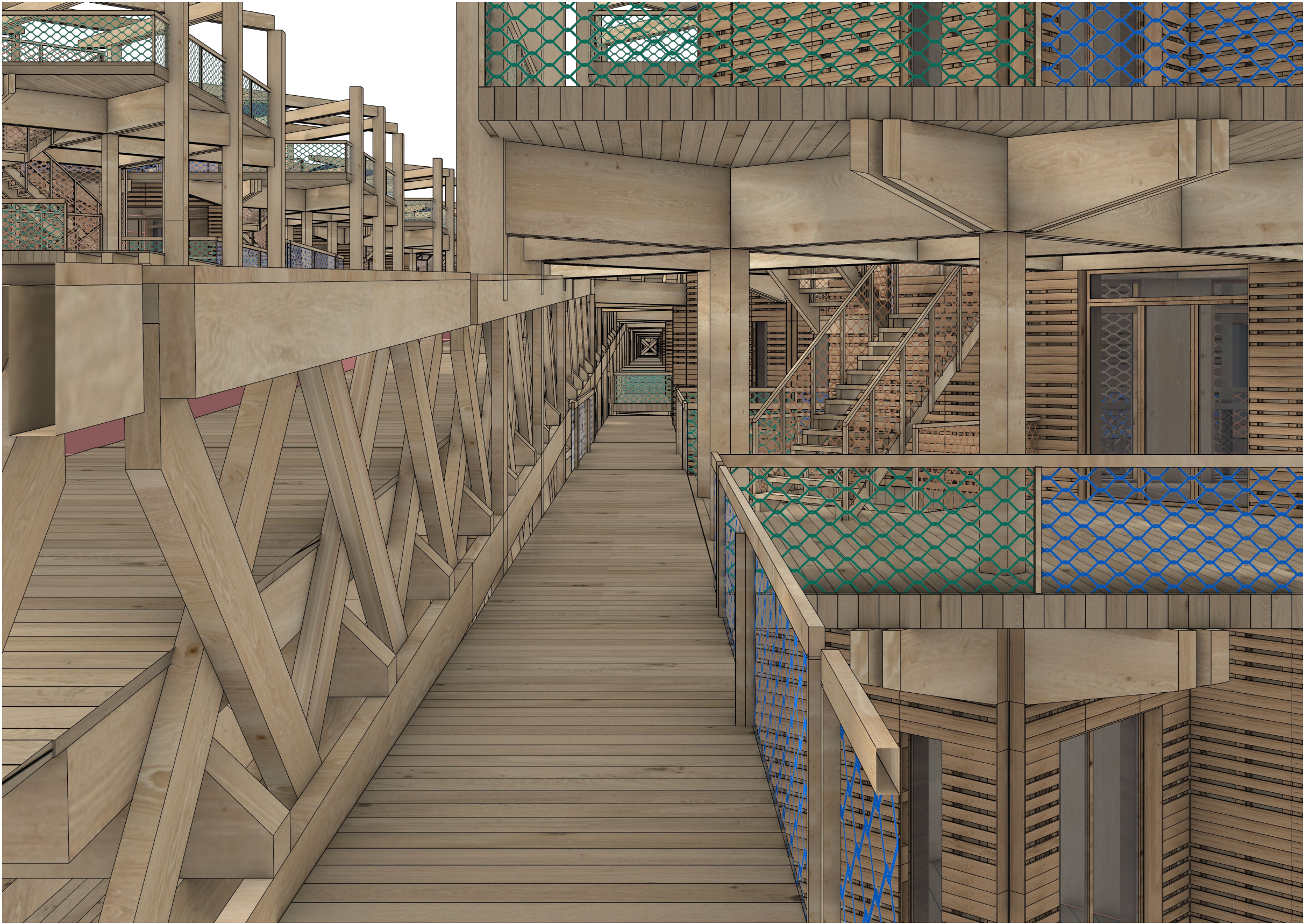
BRIDGE HINGE

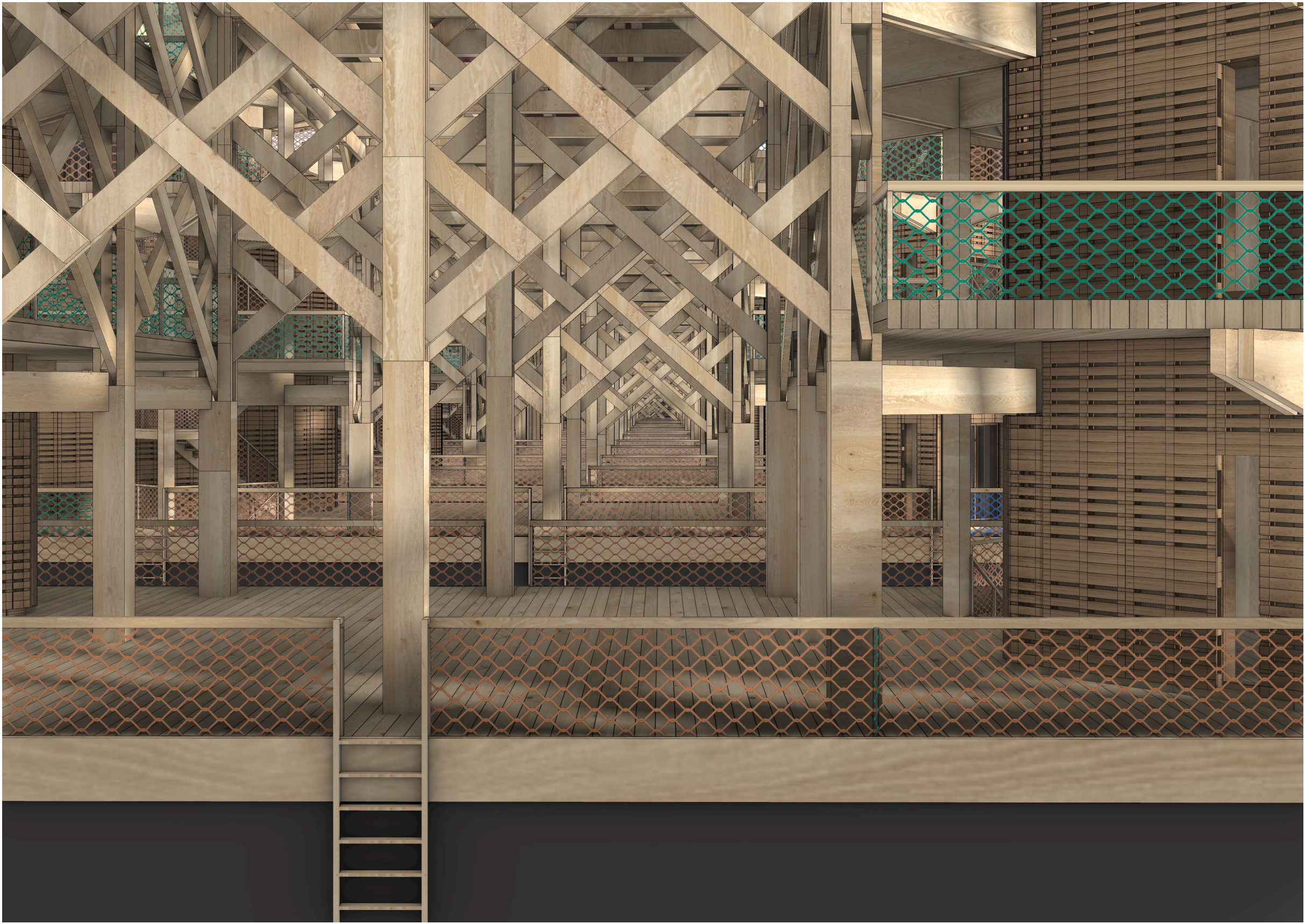
VIEW

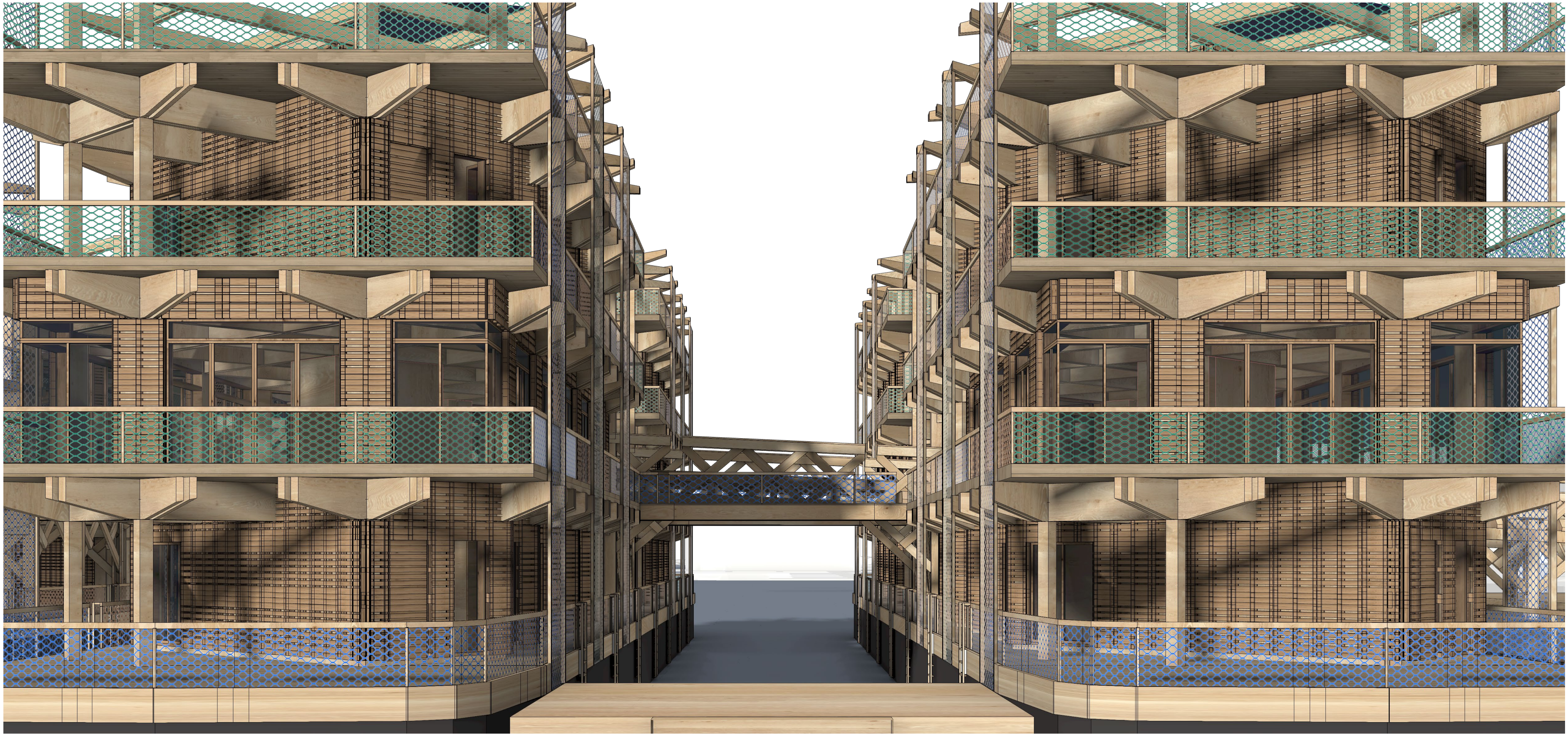












ADDED VALUE



JUMP ~~OVER~~ ONTO THE IJ

A MULTI-FUNCTIONAL BRIDGE AS AN ACTIVE CONNECTION
BETWEEN THE NORTH AND SOUTH OF AMSTERDAM

Timber for Urban Density
Marloes van Zee
4840836