



Border vs Barrier

The Chamizal Stadium as an enclave

Piet de Reuver

P5 presentation

April 18th 2017

Room T

1. Introduction

2. Research & analysis

3. Concepts, strategy and design

4. Conclusions

INTRODUCTION

“I would build a great wall, and nobody builds walls better than me, believe me, and I’ll build them very inexpensively, I will build a great, great wall on our southern border. And I will have Mexico pay for that wall.”

President-elect Donald Trump in his announcement speech on June 16, 2015.



As Donald Trump Calls for Wall on Mexican Border, Smugglers Dig Tunnels

By RON NIXON SEPT. 1, 2016



Donald Trump: Mexico will pay for wall, '100%'

1 September 2016 | US Election 2016



PowerPost

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Trump adviser accidentally reveals border wall, immigrant-tracking ideas

By David Weigel November 21

Donald Trump: 'Trust Me, We're Going to Build a Wall'

Dec 1, 2016 4:10 PM EST

President-Elect Donald Trump visited the Carrier plant in Indianapolis on Thursday. In his first major address since winning the 2016 election, he discussed regulations and trade with Mexico. As he did on the campaign trail, Trump called NAFTA "a total and complete disaster." (Source: Bloomberg)



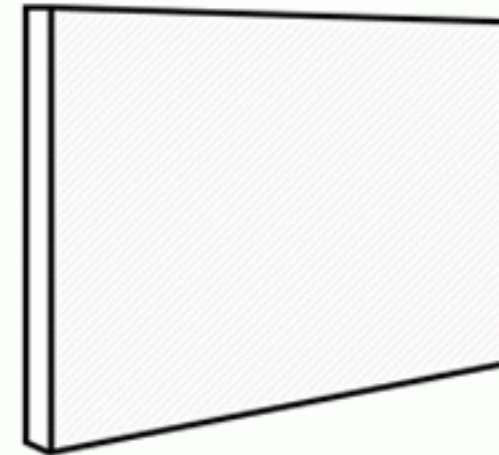
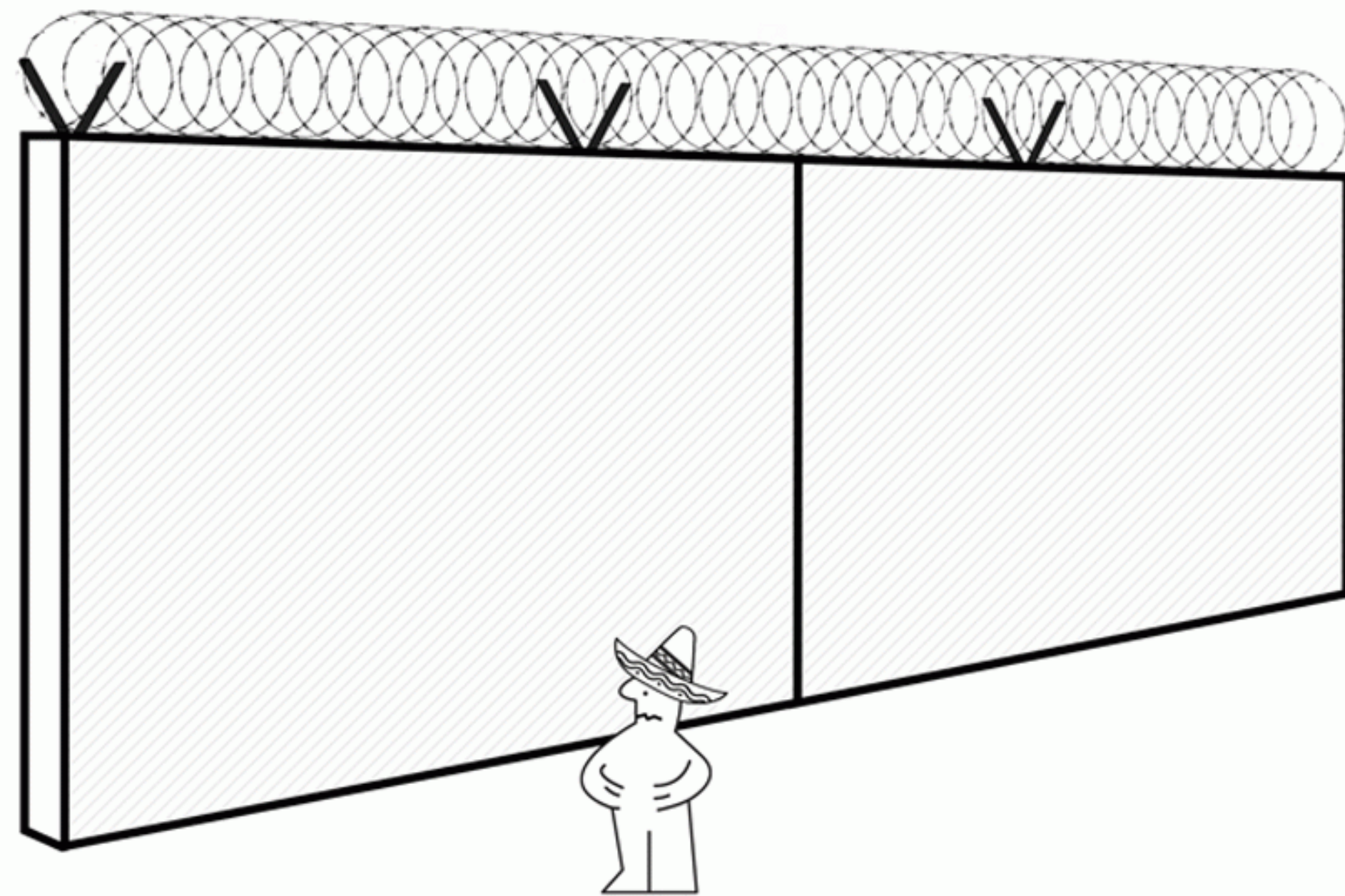
Monkey Cage

Yes, Trump will build his border wall. Most of it is already built.

By Peter Andreas November 21



BÖRDER WÅLL



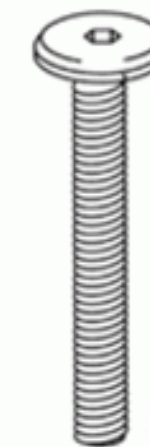
471,612 x



754,579 x



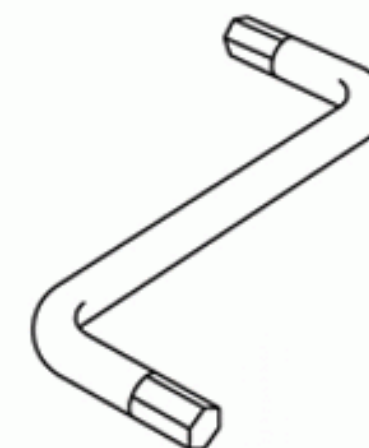
313,329 x



1,886,448 x



3,772,896 x



1 x



Introduction



Introduction

Brexit threat to business growth along Northern Ireland border

By David Young

PUBLISHED
01/12/2016

COMMENTS

SHARE

Syria crisis + Add to myFT

Tensions between Russia and Turkey reach new peak

Two countries step up action in support of opposing sides in the conflict

Hungary to build a second 'massive' wall to keep out migrants heading from Turkey

- Fence is to defend against a possible migrant surge, PM Viktor Orban said
- Hungary built fences with razor wire on its borders with Serbia and Croatia
- It is also beefing up its police force with 3,000 new 'border hunters'

By ASSOCIATED PRESS and TED THORNHILL FOR MAILONLINE

PUBLISHED: 10:04 GMT, 26 August 2016 | UPDATED: 18:35 GMT, 26 August 2016

RED DRAGON RISING Chinese jets spark tension with Japan and Taiwan by flying through sensitive disputed zone

Tokyo and Beijing are at loggerheads over the region - which they both claim

BY SAM WEBB | 27th November 2016, 7:53 pm

News

Britain to send hundreds more troops to Russia border as Cold War tension escalates across Europe

share



Kerry assails Israel over West Bank, warns of heading toward 'a place of danger'

Blasts Israel, says it cannot have separate peace with Arabs and the Palestinians

protectionism

protectionism

nationalism

protectionism

nationalism

militarization of borders



Berlin wall, 1989



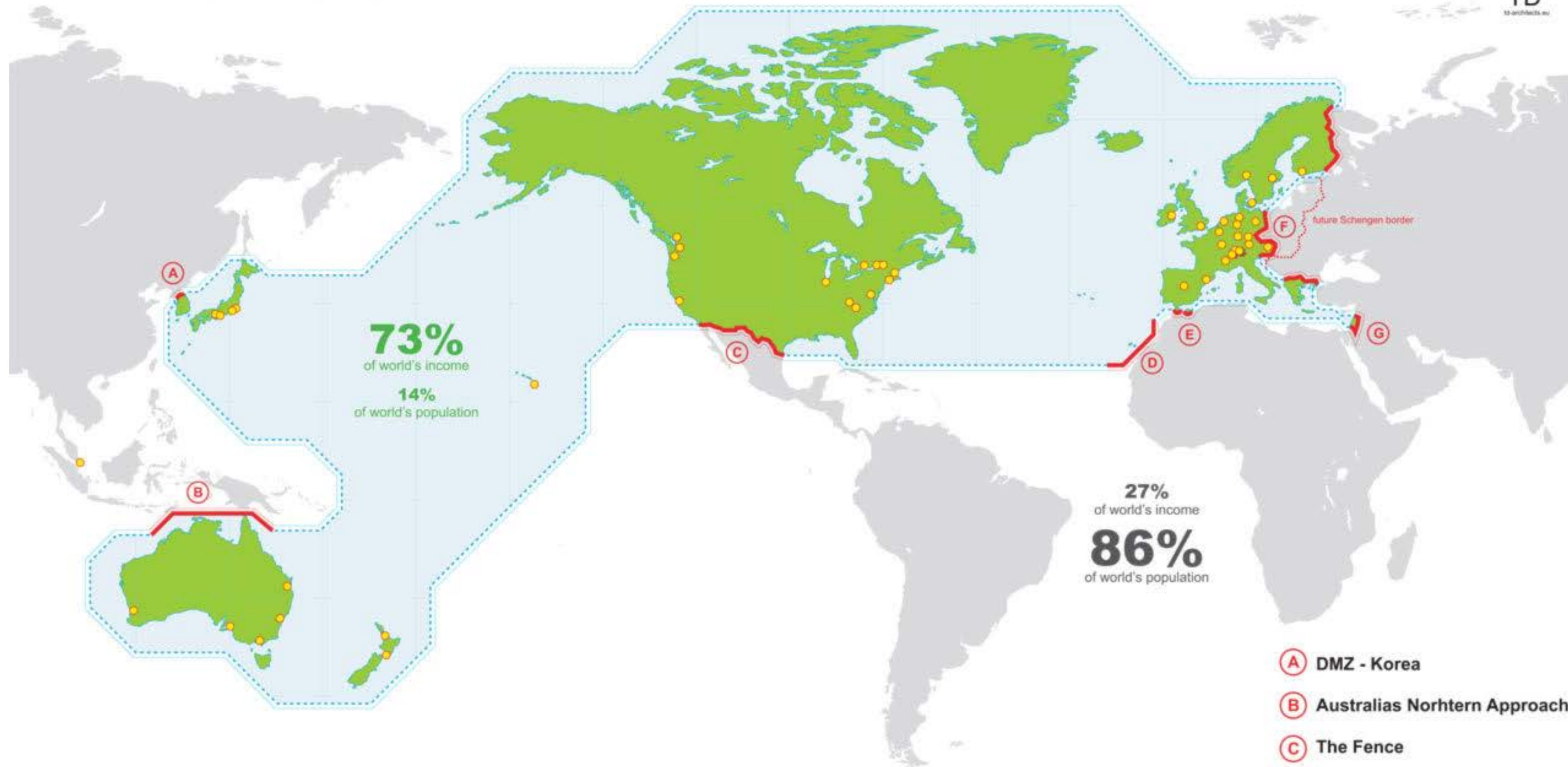
Hungary





Walled World

TD[®]
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- World's top 50 Quality of Life cities
- heavily guarded border zone
- Switzerland voted in 2005 for the membership to the Schengen community and will become "Schengen-country" soon

- (A)** DMZ - Korea
- (B)** Australias Norhtern Approach
- (C)** The Fence
- (D)** EU Maritime Borders
- (E)** Melilla & Ceuta fences
- (F)** Schengen Borders
- (G)** The Palestinian Wall

TU DELFT
FALL 2015 SYLLABUS
MSc3 - Graduation Studio
AR3CP010
Borders - The Architecture of Violence

CP

Studio Leader: Hrvoje Smidihen
Studio Coordinator: Mitesh Dixit
Course Language: English
Contact Hours per Week: 4
Required for: Msc4 AR4CP010
Requires completed courses: Msc1 & Msc 2
Period of Education: Semester



Rio Grande between El Paso and Ciudad Juárez

“...In order to understand the rationale behind the fortification of the border and the physical form it has taken in recent years, it is necessary to go back a little first. The US-Mexican border, like most borders, was established by violence – and its architecture is the architecture of violence.”

N. Chomsky

STUDIO BRIEF – THE ARCHITECTURE OF VIOLENCE

Mexico is changing in ways that will profoundly affect its big northern neighbour, and unless America rethinks its outdated picture of life across the border, both countries risk forgoing the benefits promised by Mexico's rise.

The White House does not spend much time looking south. During six hours of televised campaign debates in the 2012 Presidential election, neither Mr. Obama nor his vice-president mentioned Mexico directly. That is extraordinary. One in ten Mexican citizens lives in the United States. Include their American-born descendants and you have about 33m people (or around a tenth of America's population). And Mexico itself is more than the appendix of American imaginations. In terms of GDP it ranks just ahead of South Korea. In 2011 the Mexican economy grew faster than Brazil's—and again in 2012.

Yet Americans are gloomy about Mexico, and so is their government: five years ago Pentagon analysts warned that Mexico risked becoming a “failed state”. However, a report by The Economist Magazine in 2012 clearly detailed that is wildly wrong. In fact, Mexico's economy and society are doing pretty well. Even the violence, concentrated in a few areas, has started to abate.

STUDIO OBJECTIVE

Dealing with the complex conditions of the U.S. -
Mexico border region, specifically in the Chamizal zone
as project site.

Border

Sofie Arvidsson

Joe Bailey

Egle Briliauskaite

Sandra Bugaite

Maicol Cardelli

Federico Gobatto

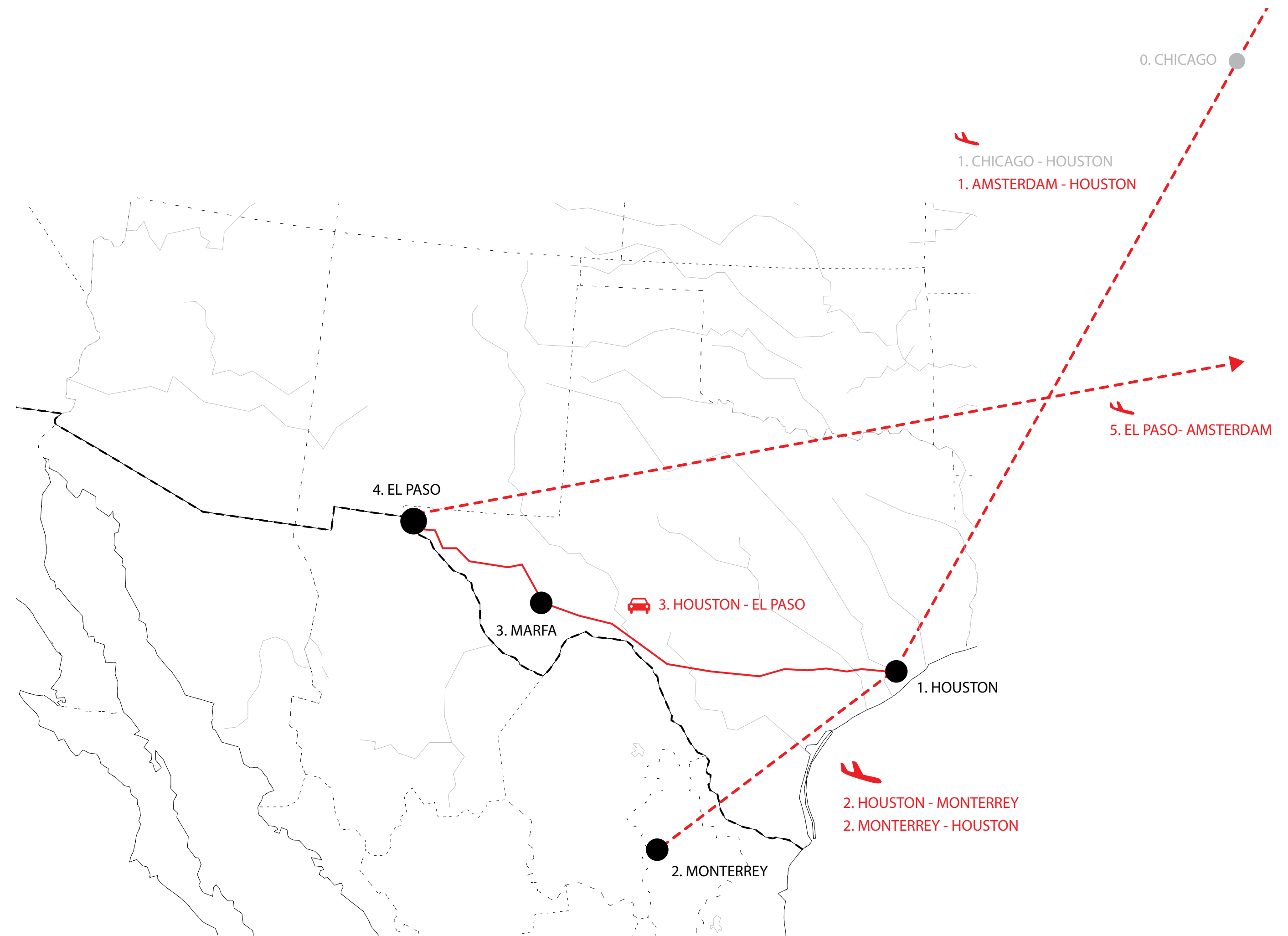
Niek van Laere

Piet de Reuver

Dominik Saitl

Olga Skrbenska

Marte de Wild





Introduction



Introduction



Introduction



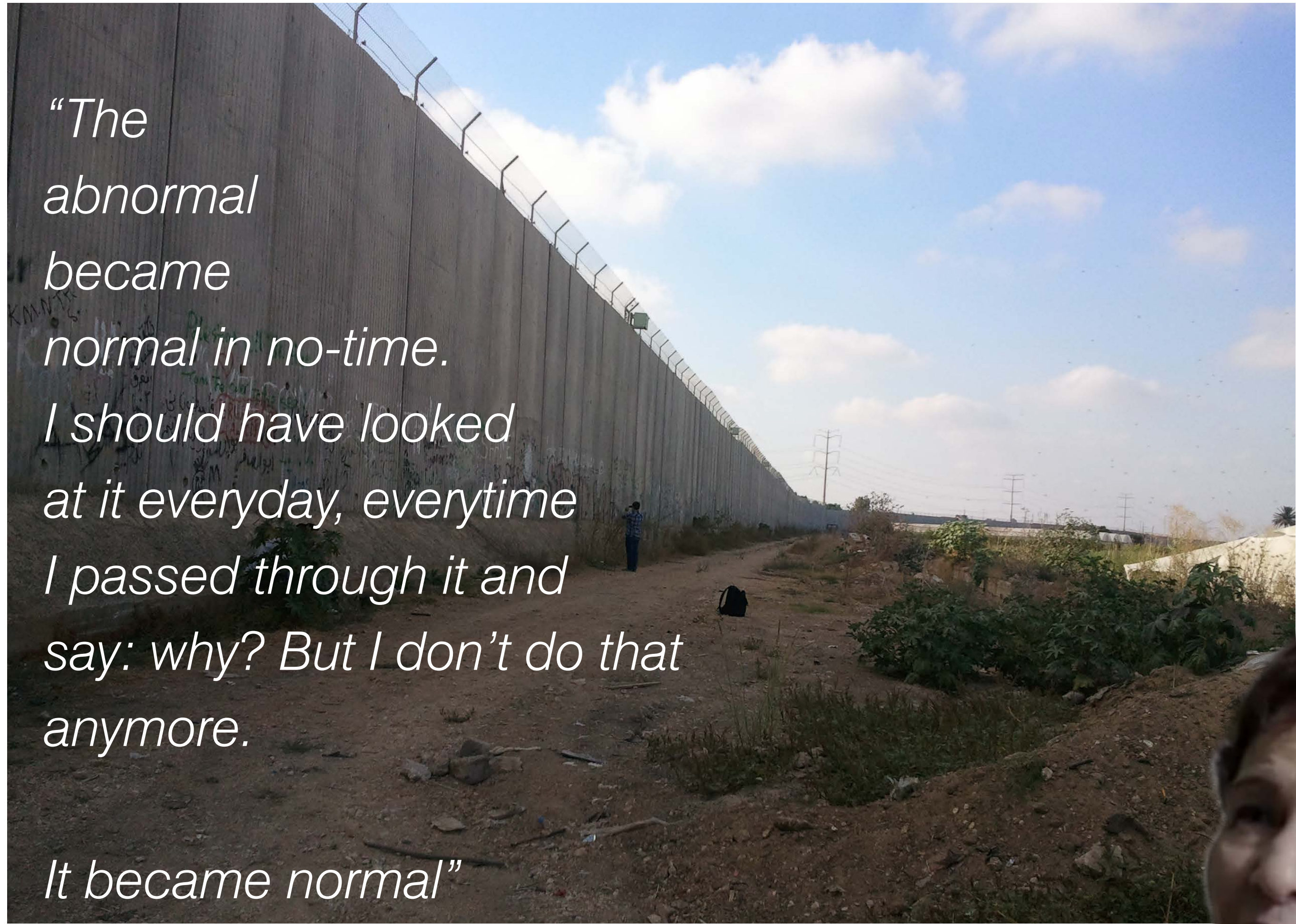
Introduction



Introduction



Introduction



Miri Shapiro on the wall between Alfei Menashe and Qalqilya, Israel





Introduction





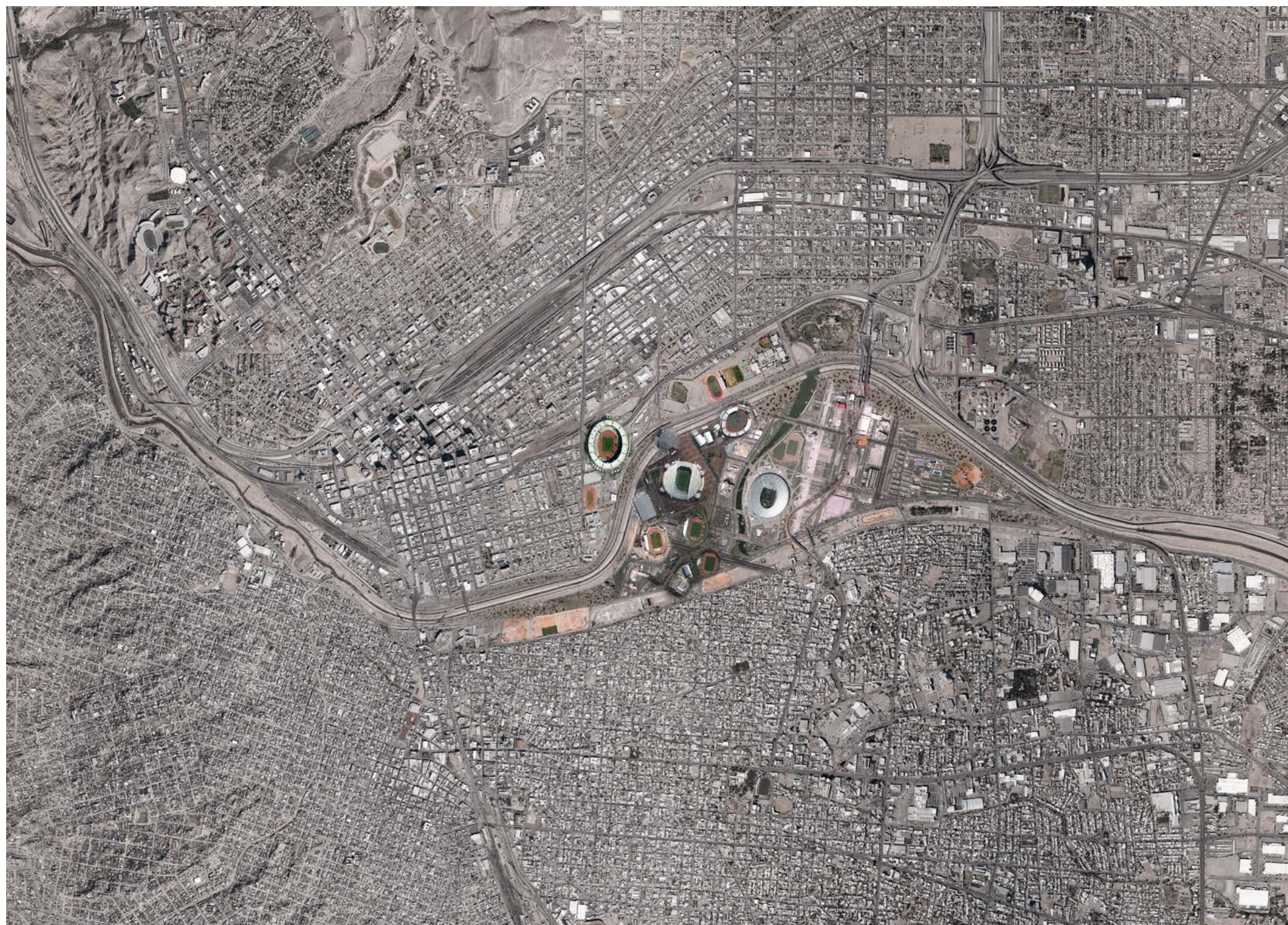
PROBLEM STATEMENT

The border between El Paso and Ciudad Juárez functions as a **BARRIER** and obstructs **EXCHANGE**.



AMBITION / RESEARCH QUESTION

How can the border between El Paso and Ciudad Juárez be transformed from **BARRIER** into **THRESHOLD** and **ACCELERATOR OF EXCHANGE**, with use of a building intervention?

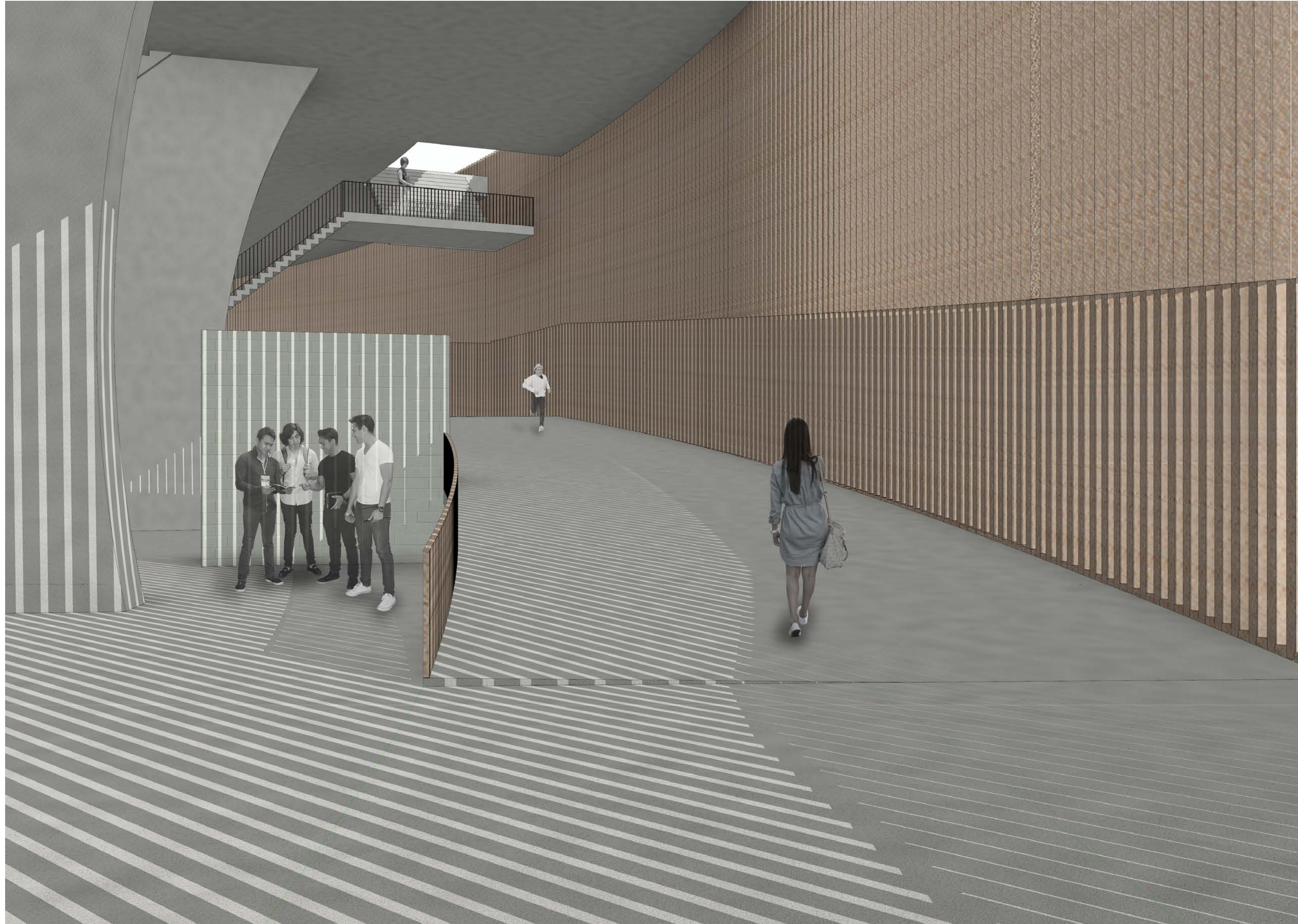


INTERVENTION

Building a binational stadium in the form of a 'THIRD NATION/ENCLAVE' to point out the absurdity of the border situation, anticipating it will affect the barrier and alter the spatial implications of the El Paso-Juarez border.









RESEARCH and ANALYSIS



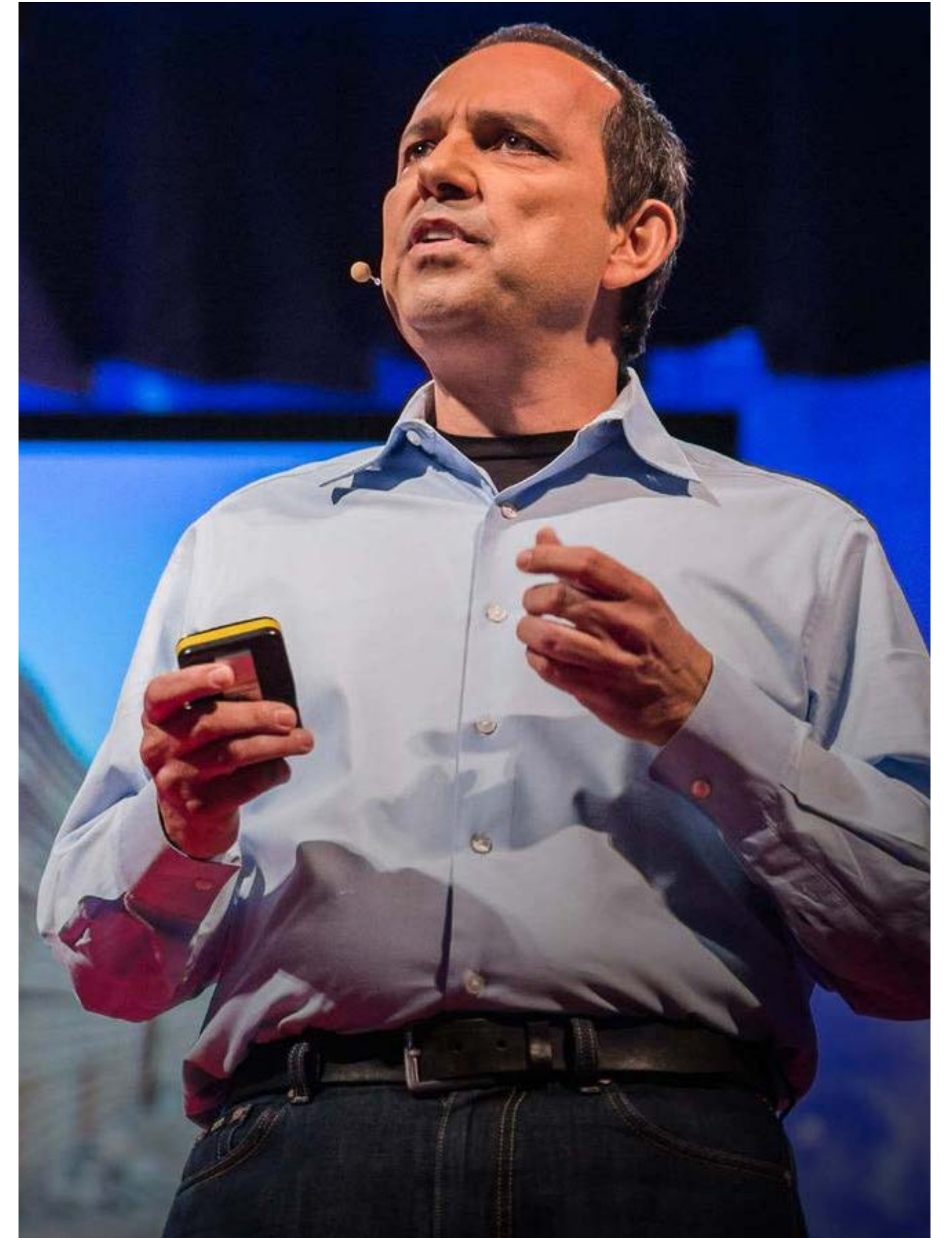
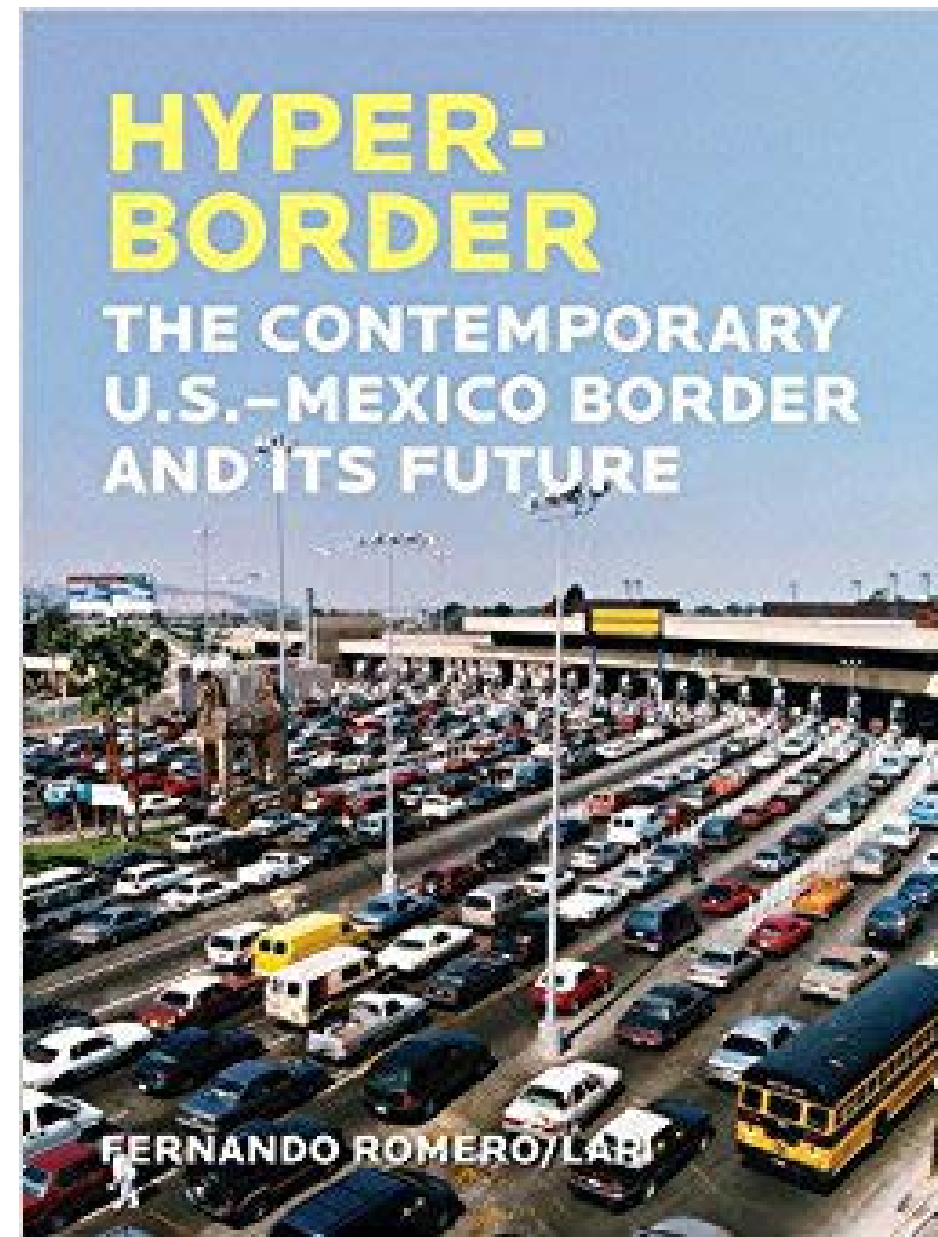
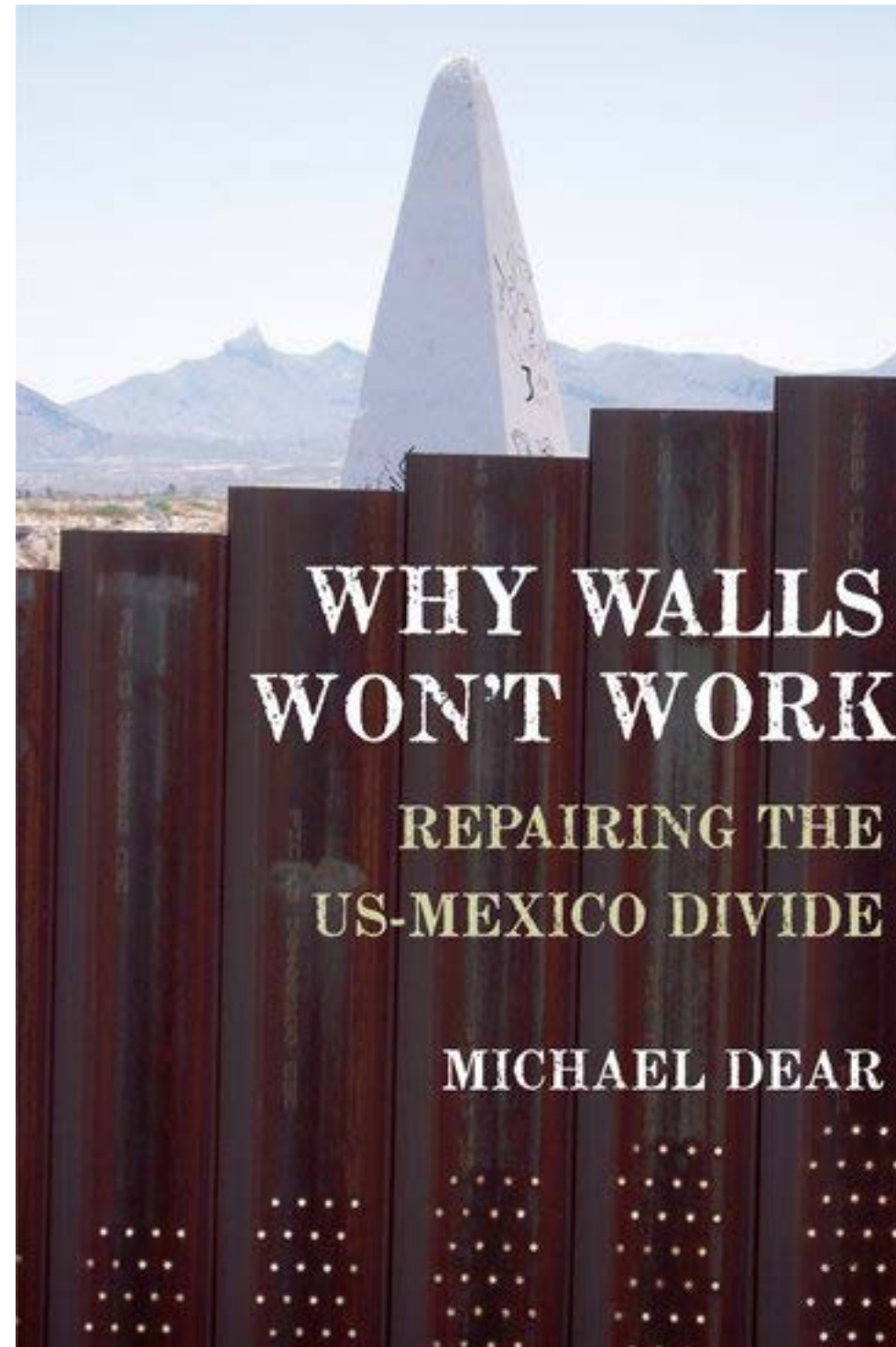
Research



3,201 km

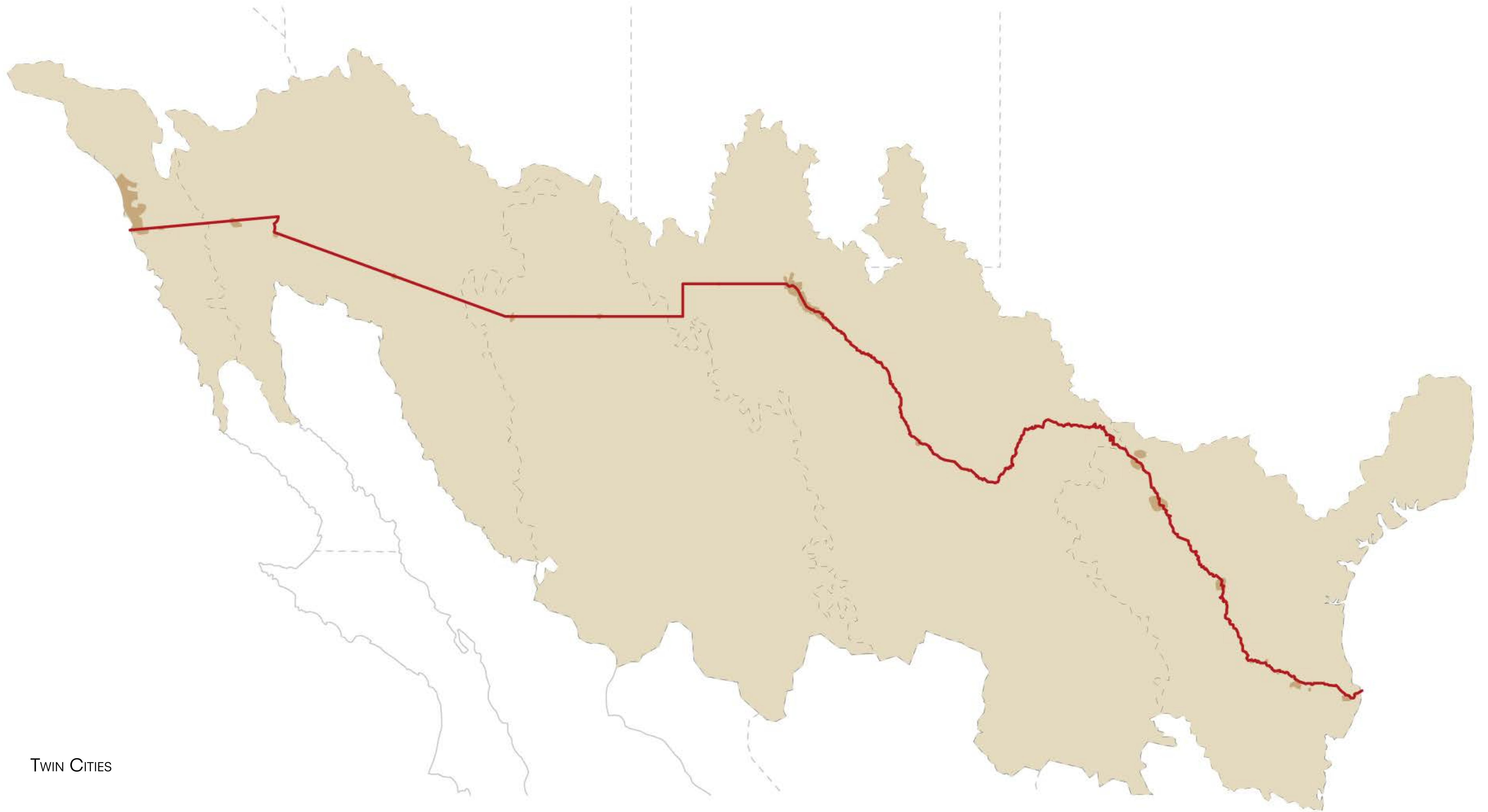


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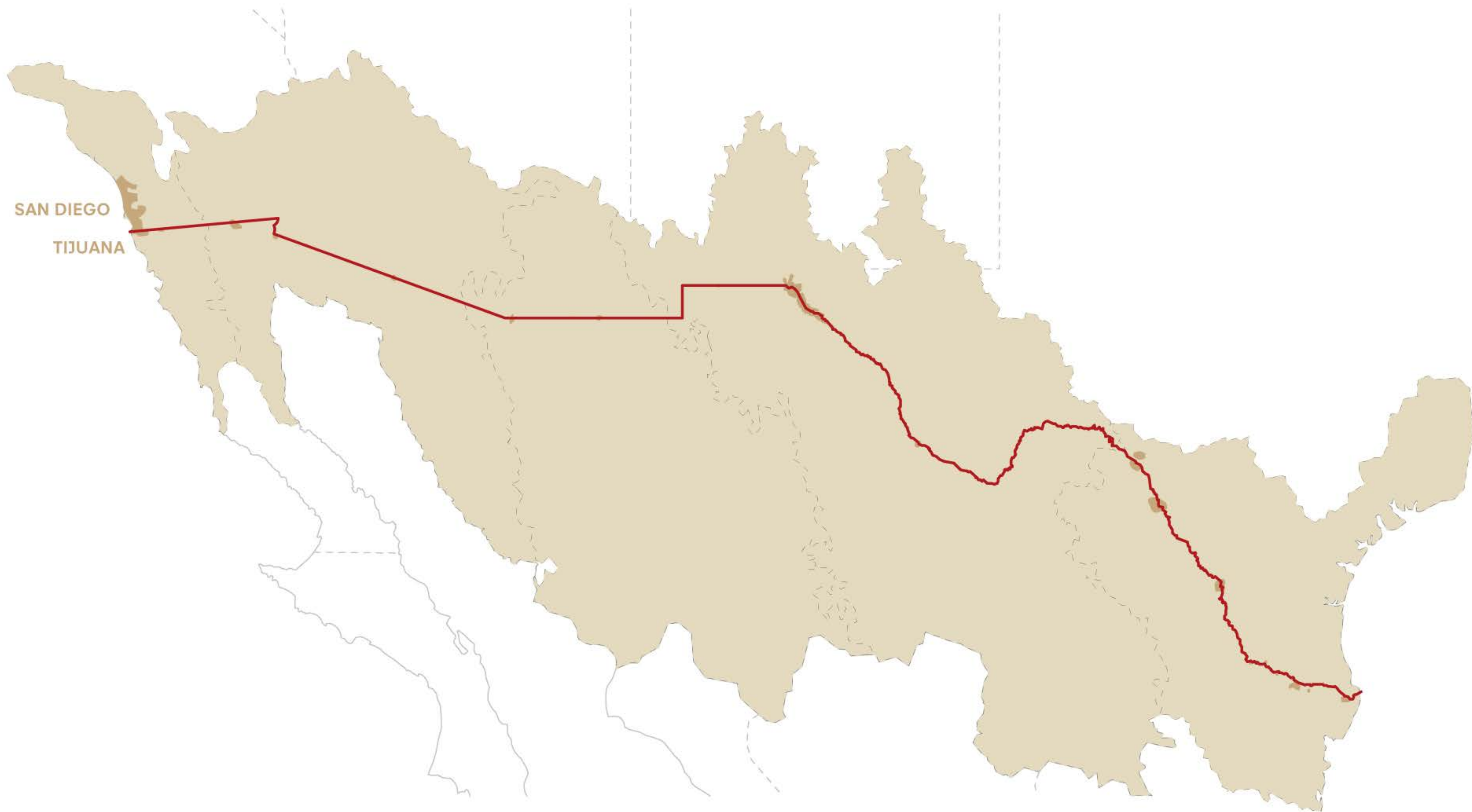


Research



TWIN CITIES

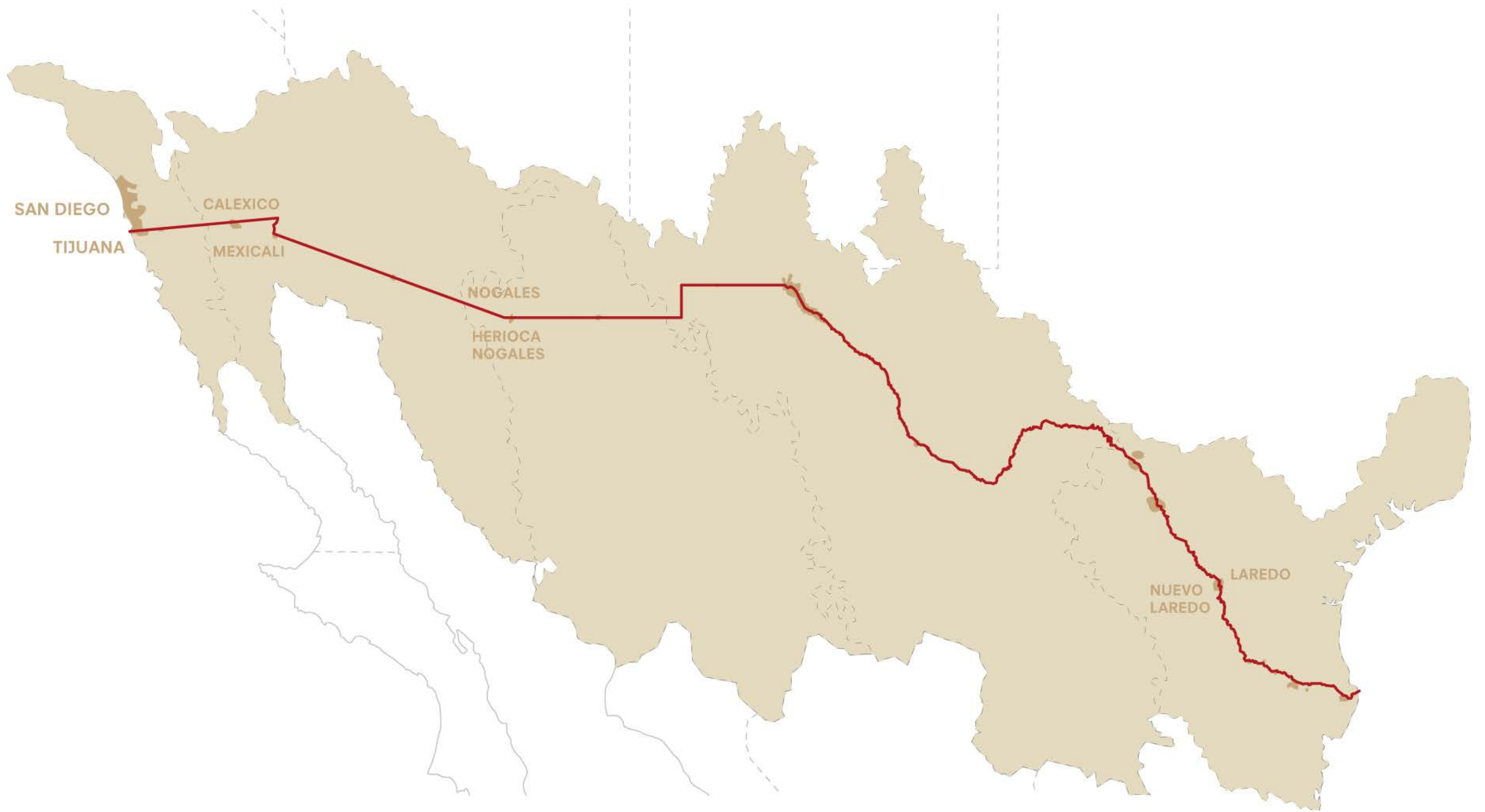
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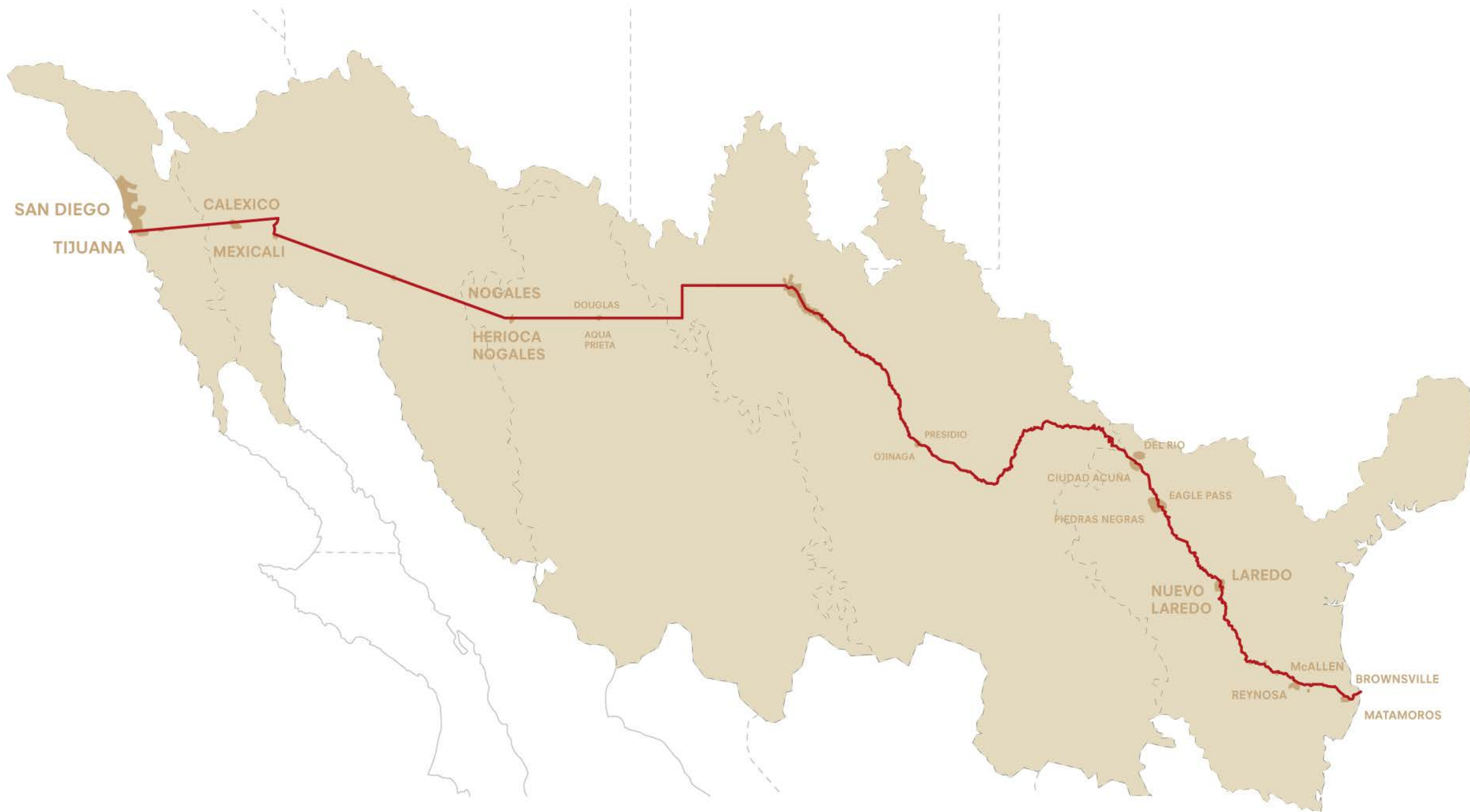


SAN DIEGO

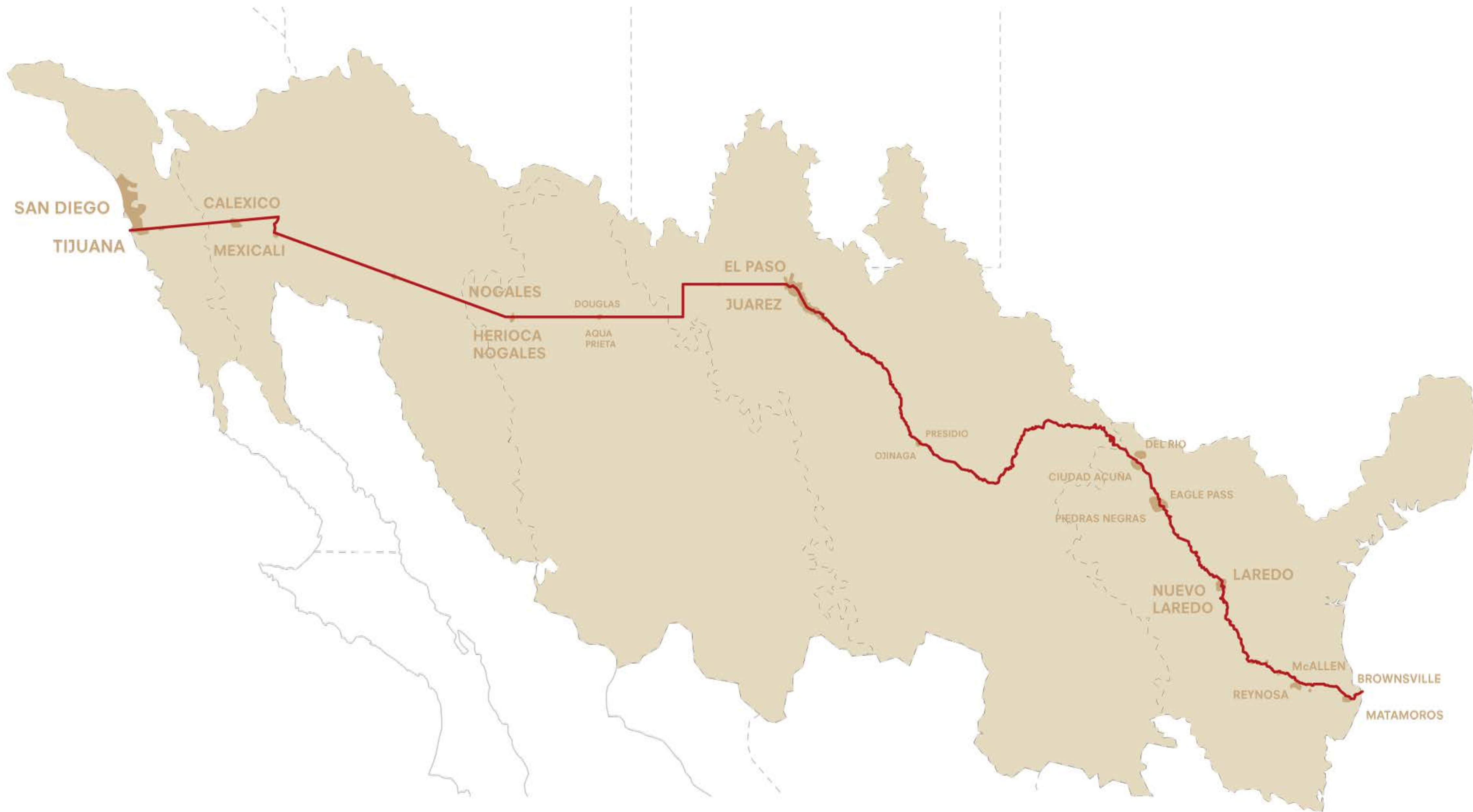
TIJUANA

Research





Research



SAN DIEGO

TIJUANA

CALEXICO

MEXICALI

NOGALES

HERIOKA
NOGALES

DOUGLAS

AQUA
PRIETA

EL PASO

JUAREZ

PRESIDIO

OJINAGA

CIUDAD ACUÑA

PIEDRAS NEGRAS

DEL RIO

EAGLE PASS

NUEVO
LAREDO

LAREDO

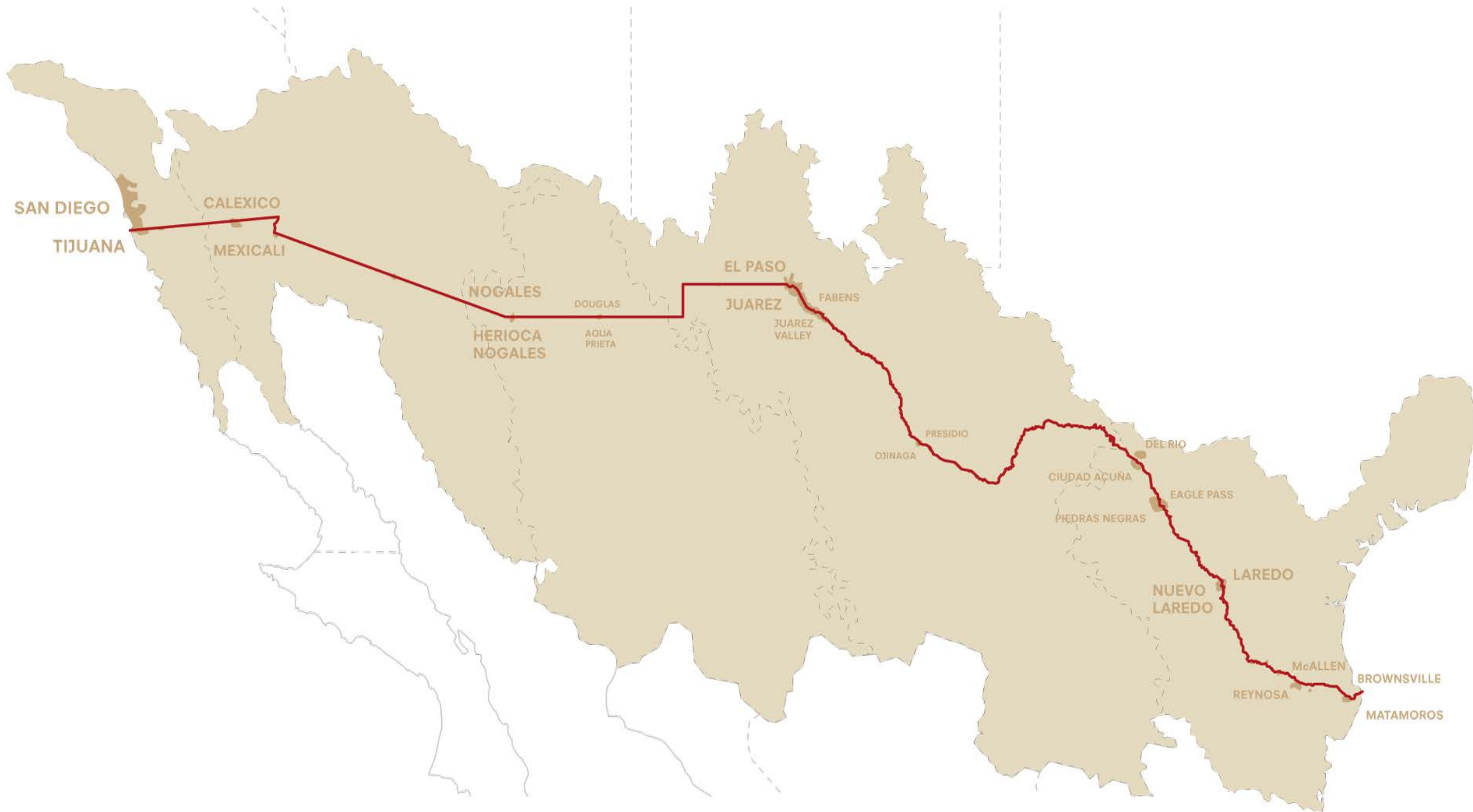
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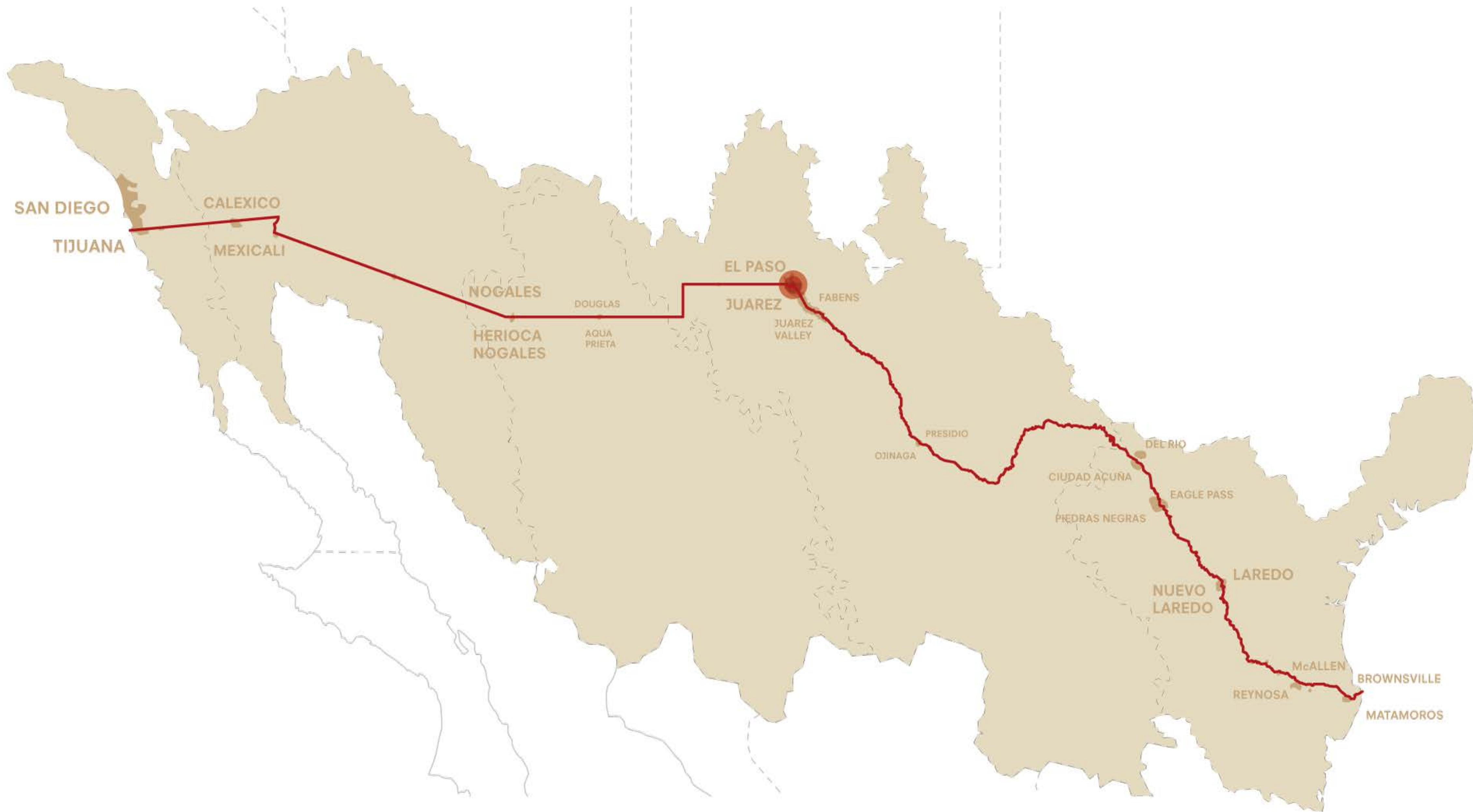
BROWNSVILLE

MATAMOROS

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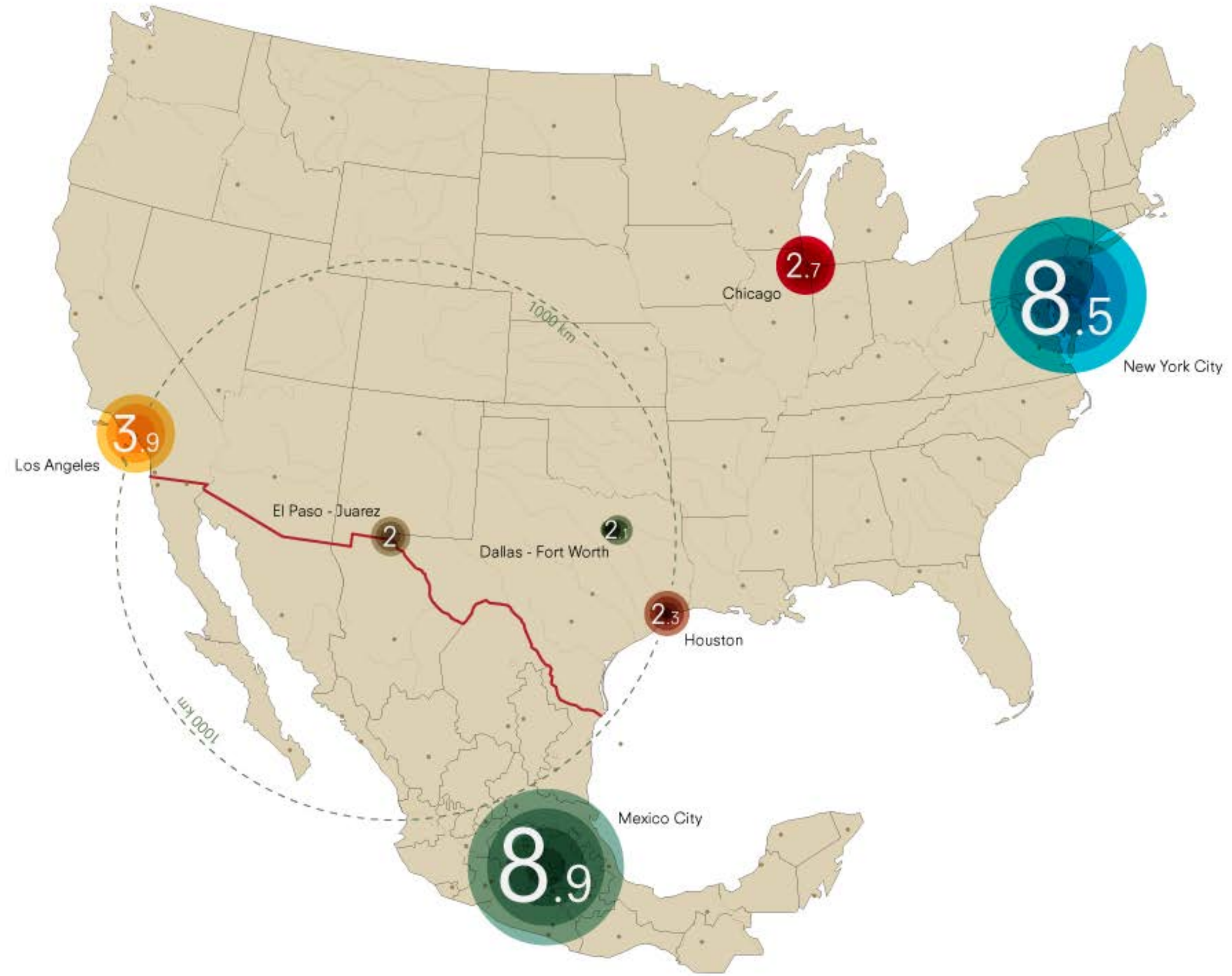
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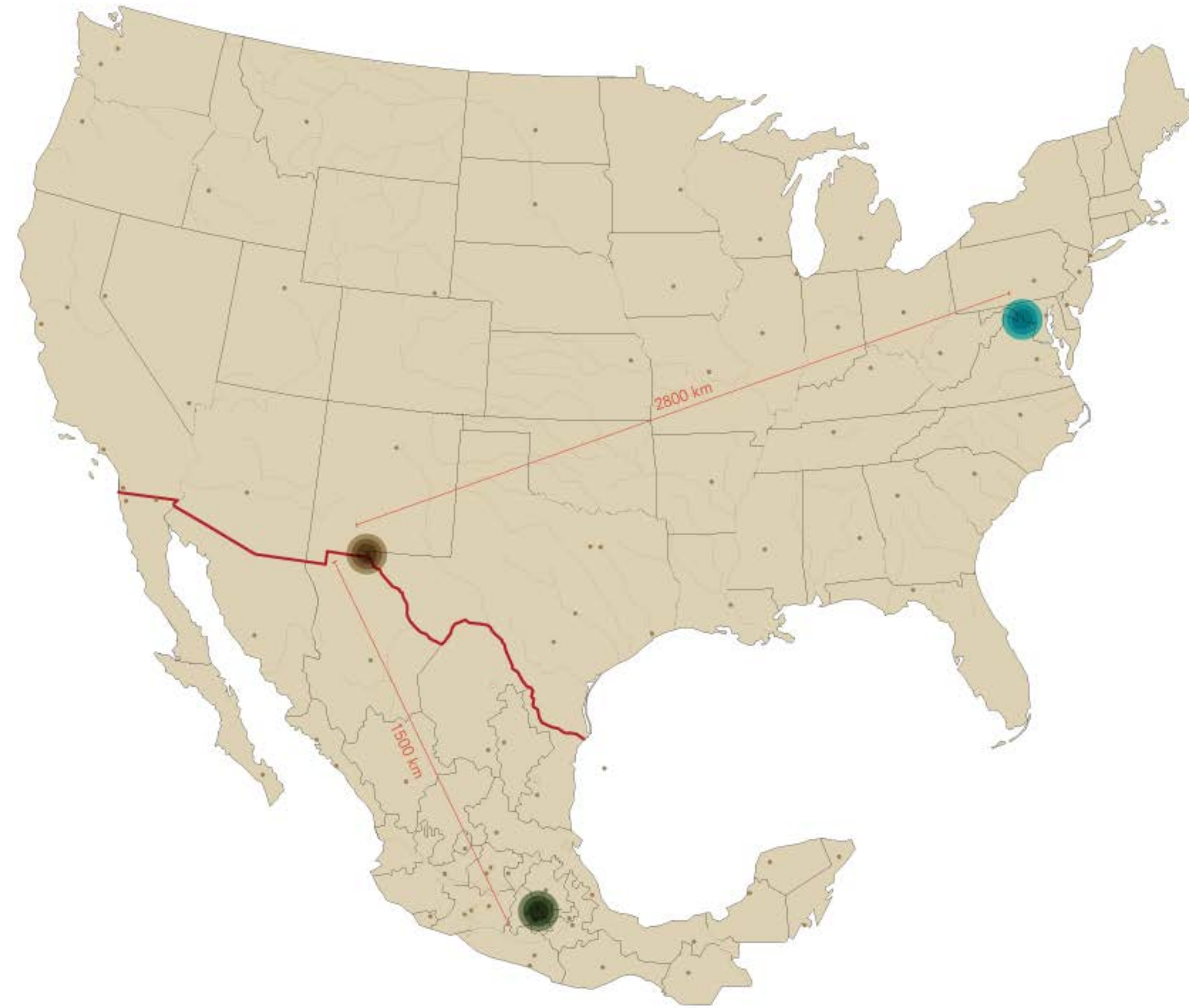


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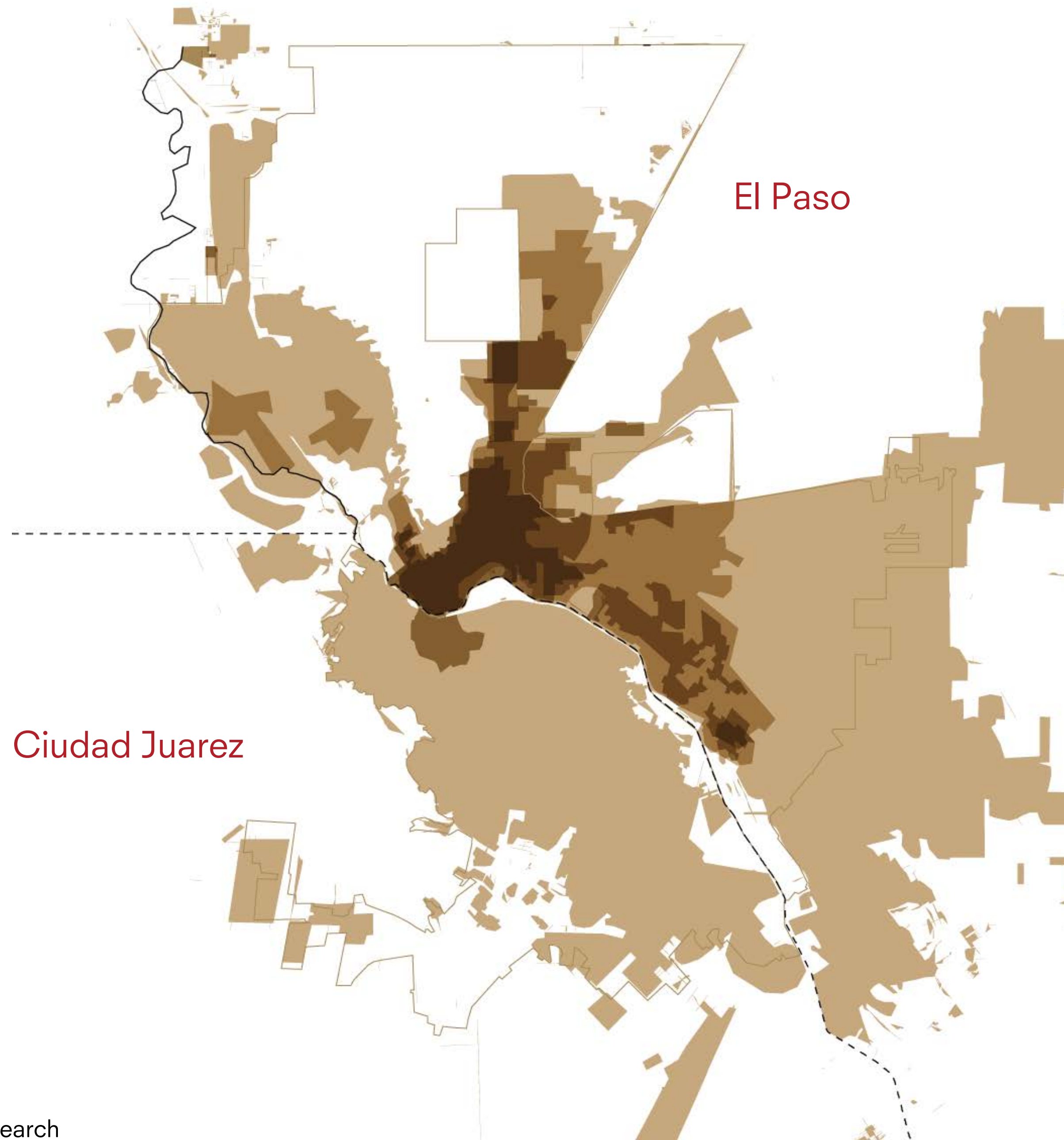


Research





Research



Research

El Paso named safest US city

by Daniel Borunda \ El Paso Times

POSTED: 11/22/2010 12:00:00 AM MST

Despite being located across the border from one of the deadliest cities in the world, El Paso is the safest large city in the United States, according to rankings released Sunday.

Though the city has been ranked in the top three each year since 1997, this is the first time El Paso has taken the top spot for having the lowest crime rate among cities of more than 500,000 population in the annual rankings by CQ Press, a publishing firm based in Washington, D.C.



Juárez can be seen over the El Paso skyline. El Paso has been ranked the safest large city in the U.S. by CQ Press. (Times file photo)

Government leaders, law enforcement officials and residents were thrilled with the new ranking.

"This isn't something that mystically or magically appeared," Police Department spokesman Darrel Petry said.

"This is something we have been striving for for the past 13 years.

We truly attribute it to our relationship to the community - the trust."

The ranking was compiled with data from 2000 in the crime categories of murder, rape, robbery.

EL PASO TIMES. NOVEMBER 10,
2010

Research

By **BARRY PETERSEN** / CBS / August 12, 2010, 6:30 PM

Juarez, Mexico - Murder Capital of the World

Comment / Shares / Tweets / Stumble / Email More +

Drug violence is out of control in Mexico. Thursday, President Felipe Calderon suggested prosecutors and judges aren't doing enough to bring criminals to justice. Calderon himself has come under criticism. Since he declared war on the cartels in 2006, 28,000 people have died. This year alone, more than 7,000 have died. The violence has taken a new turn.

CBS News correspondent Barry Petersen reports journalists are the new targets in Mexico's drug war.

A cameraman in Juarez barely escaped a grenade attack. Back in his newsroom, Juarez news director Edgar Roman has a new job description. He wants to "preserve the lives of the people out there reporting, covering stories. We don't want to be heroes."

CBS. AUGUST 12, 2010



Research



Research



Research



Research



Research



Research

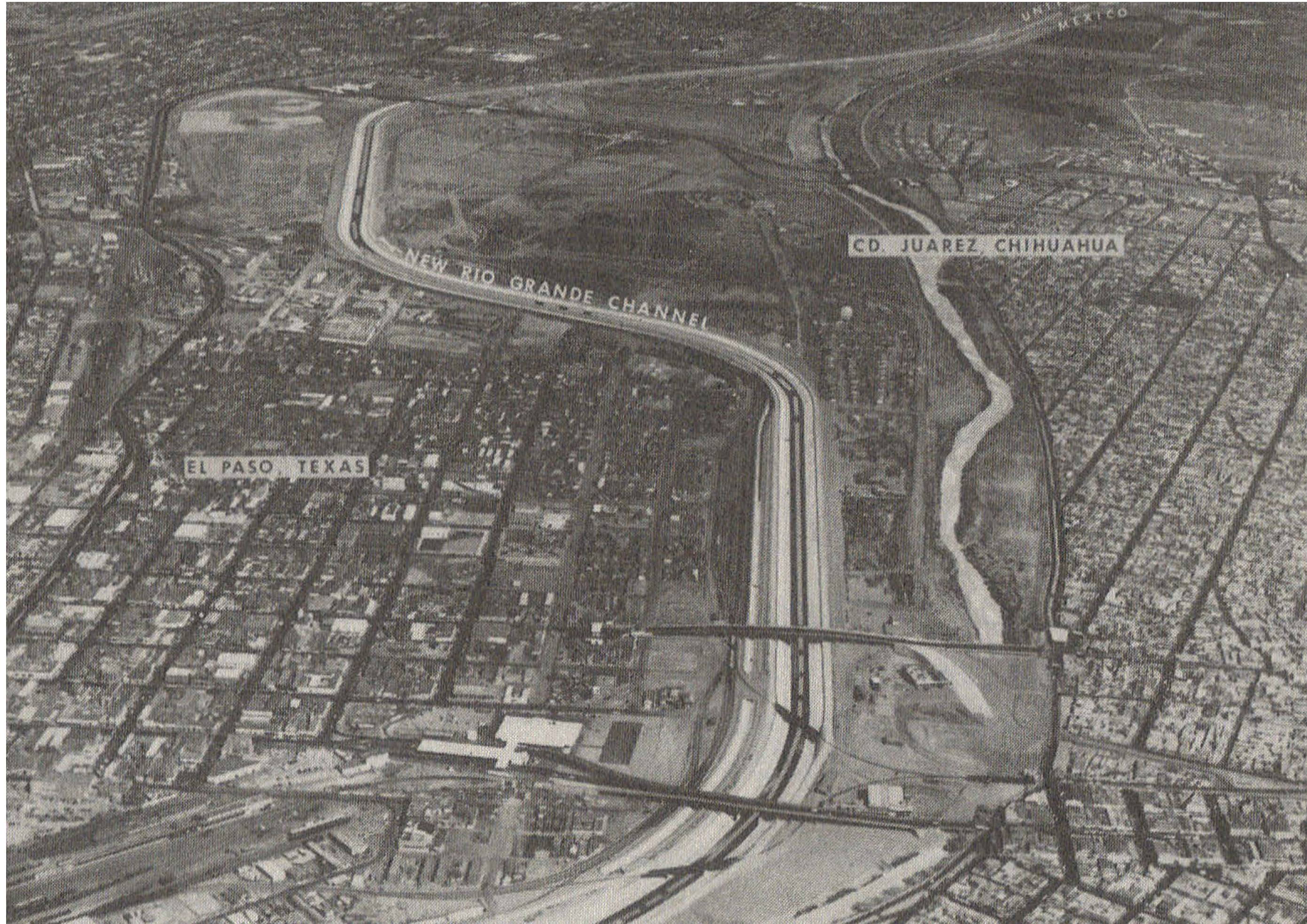
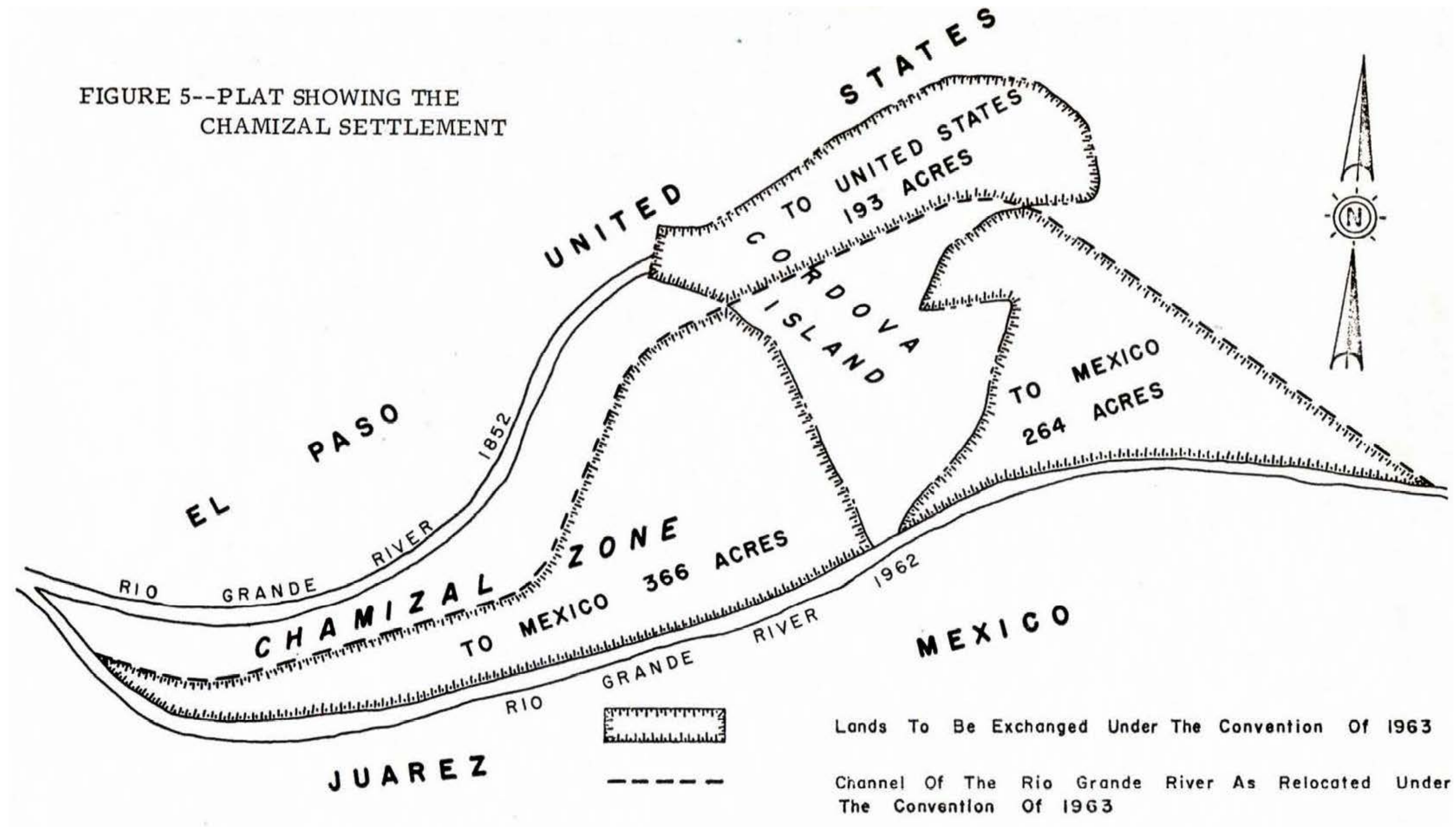


FIGURE 5--PLAT SHOWING THE
CHAMIZAL SETTLEMENT

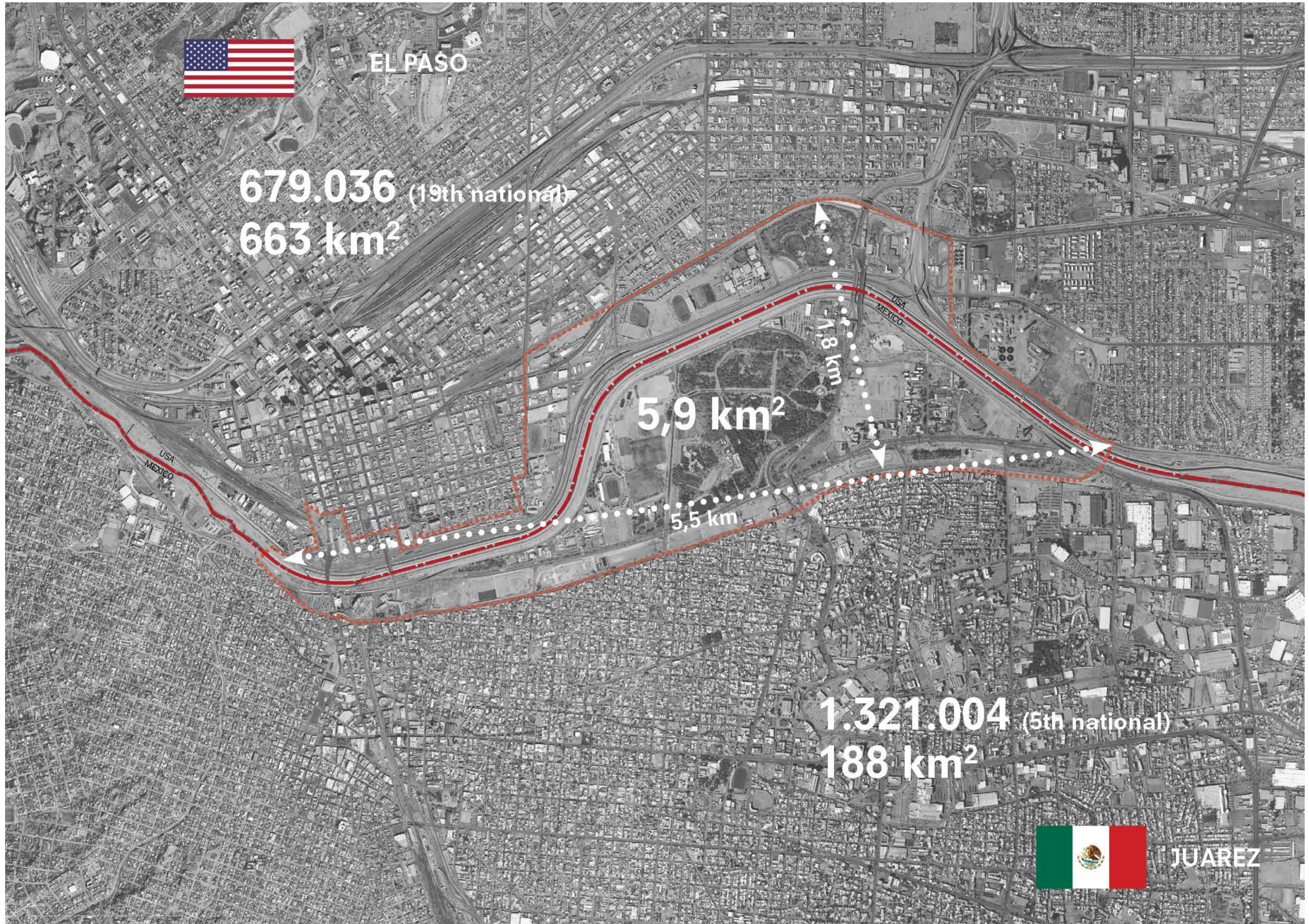




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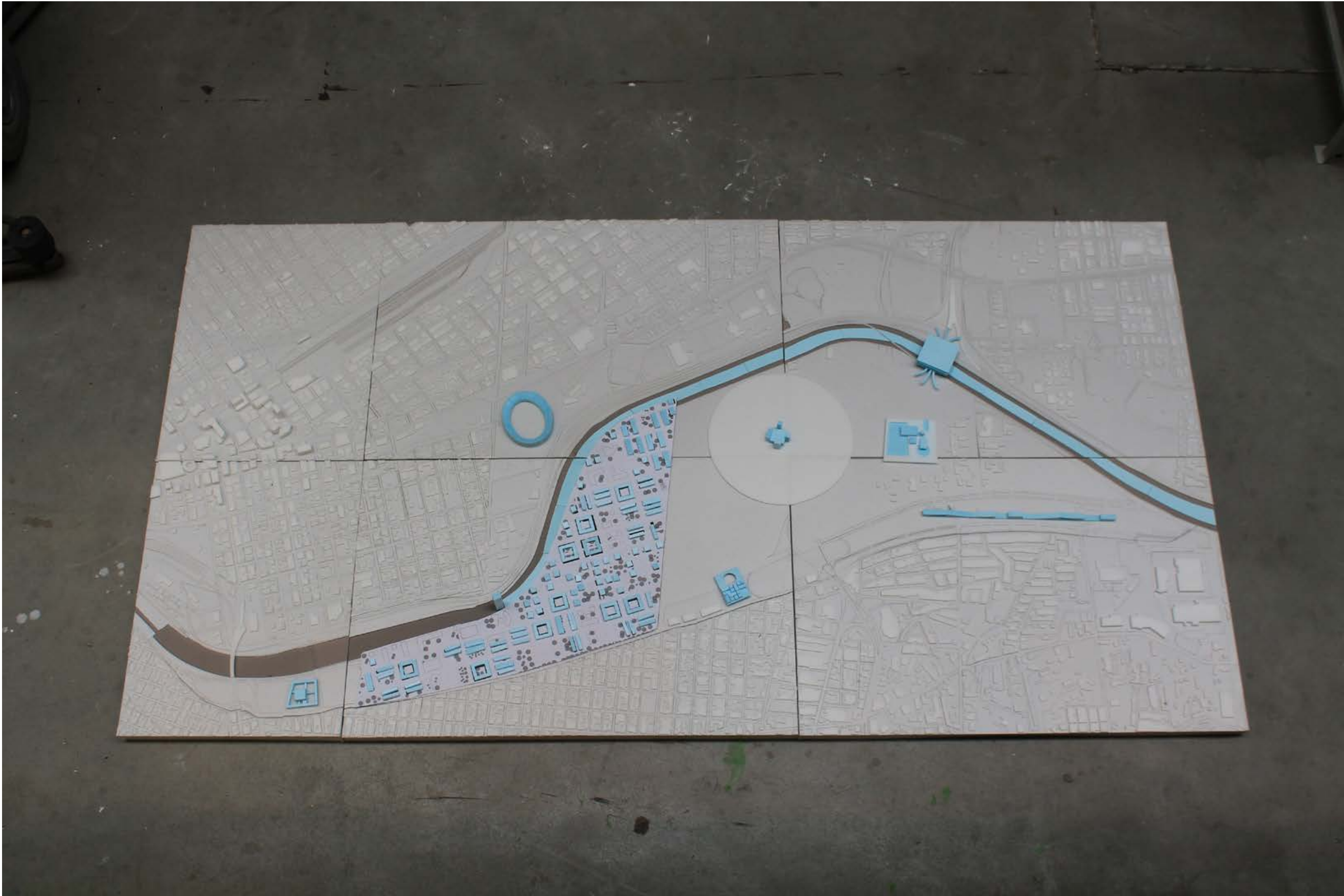
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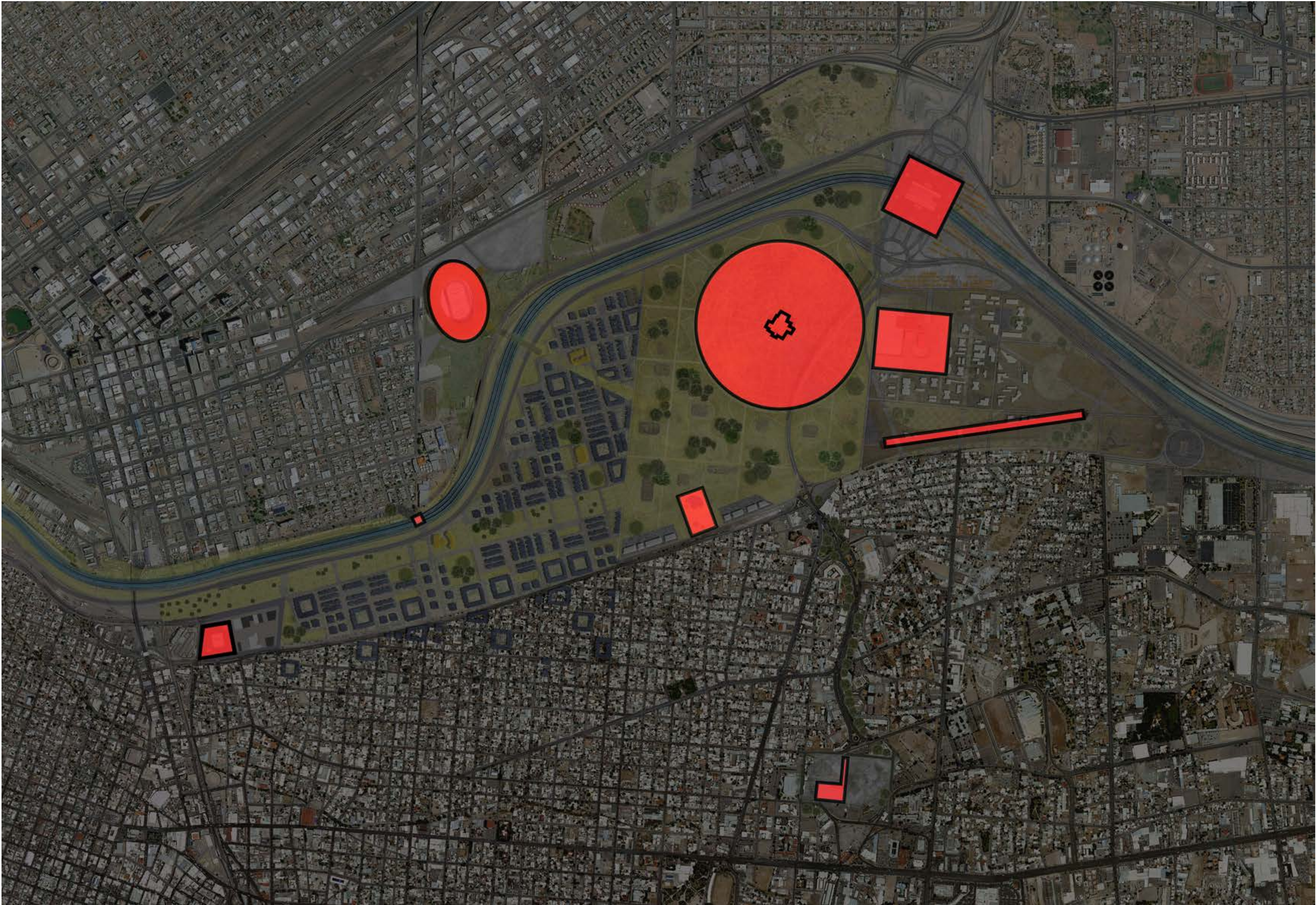
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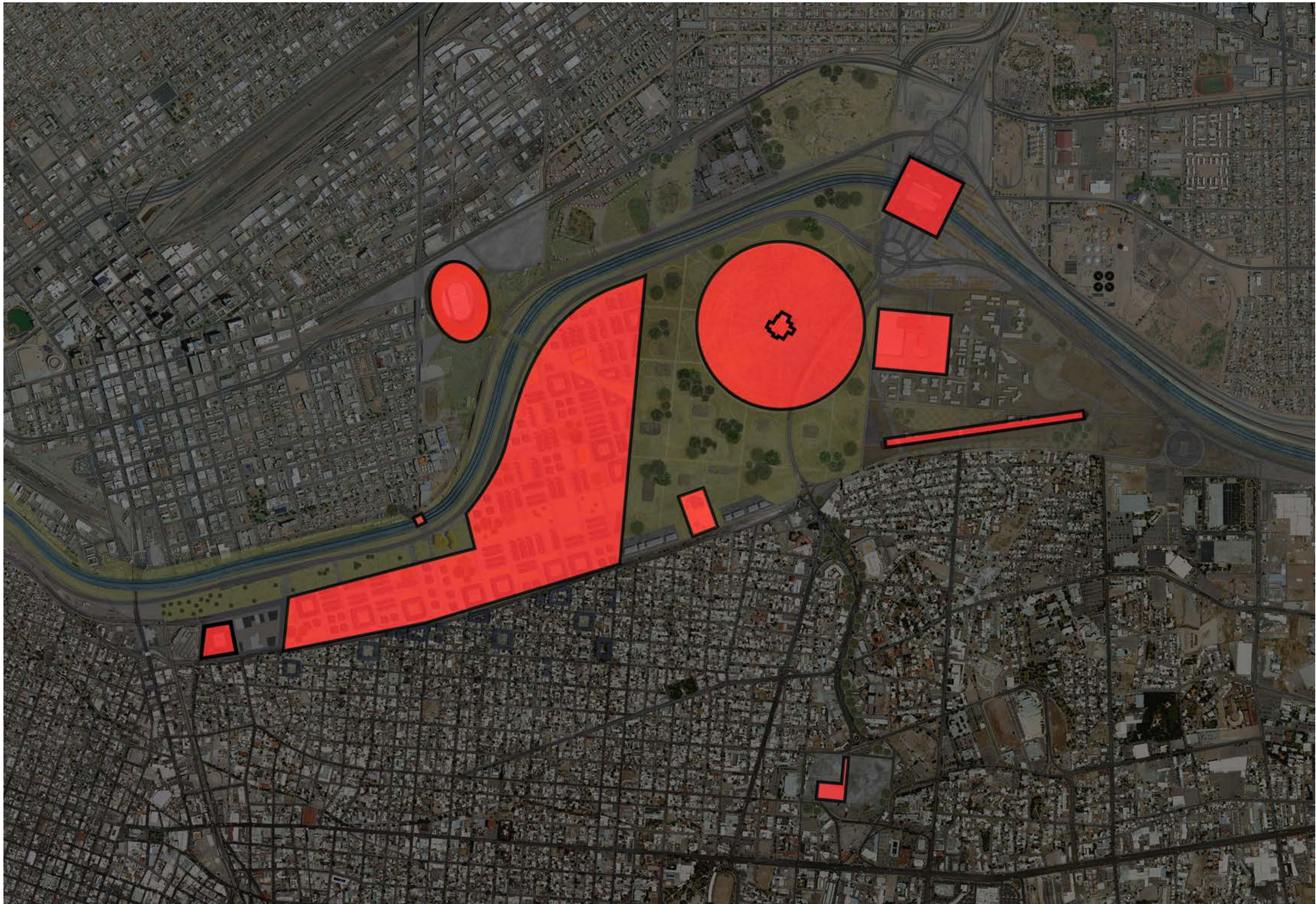
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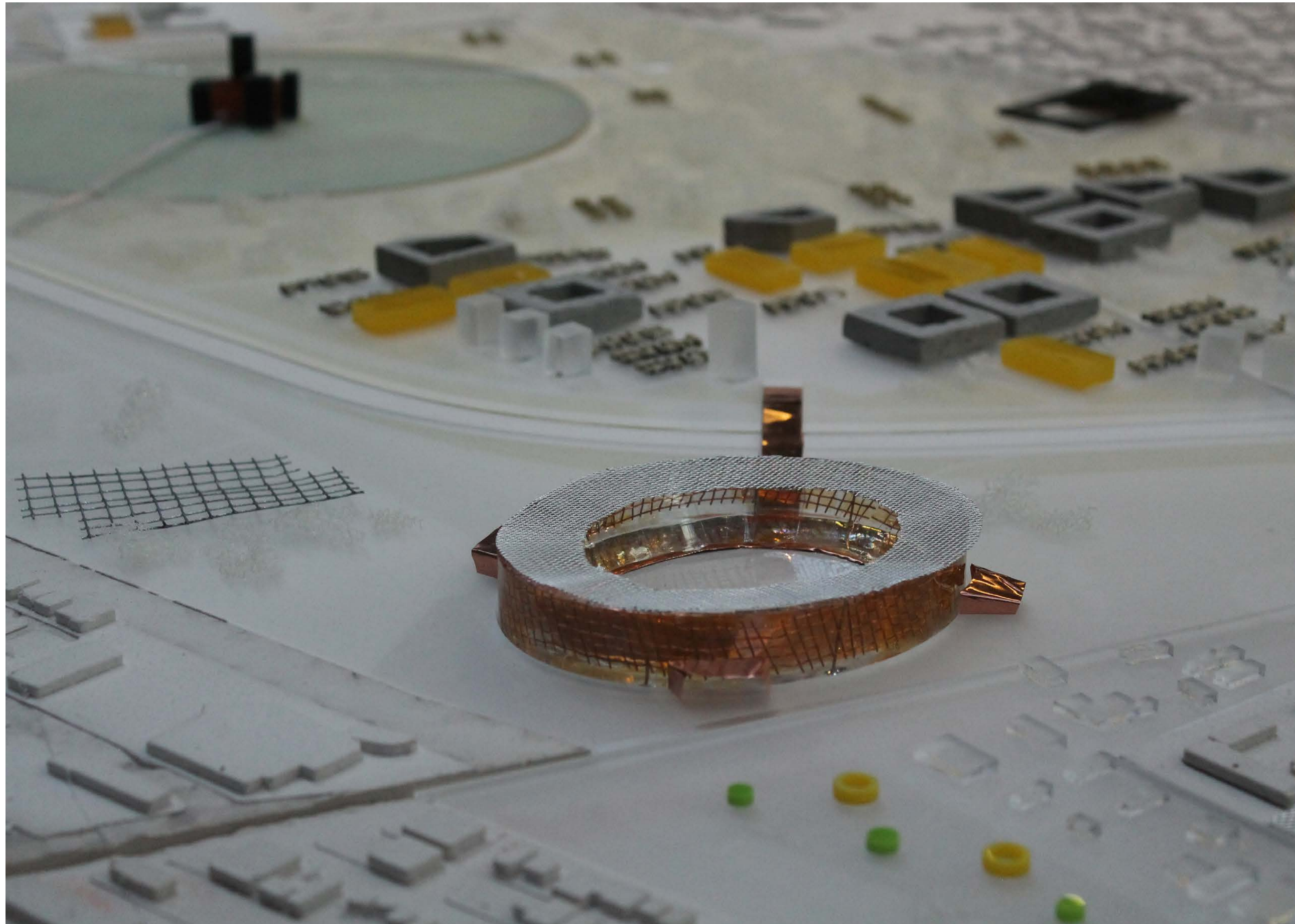
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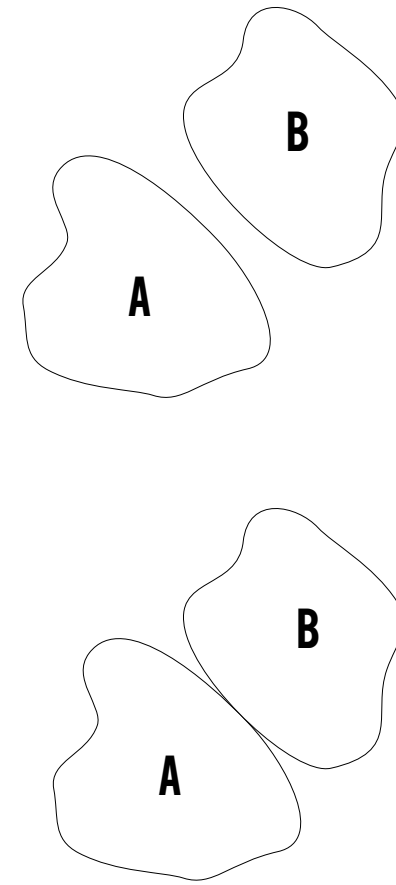
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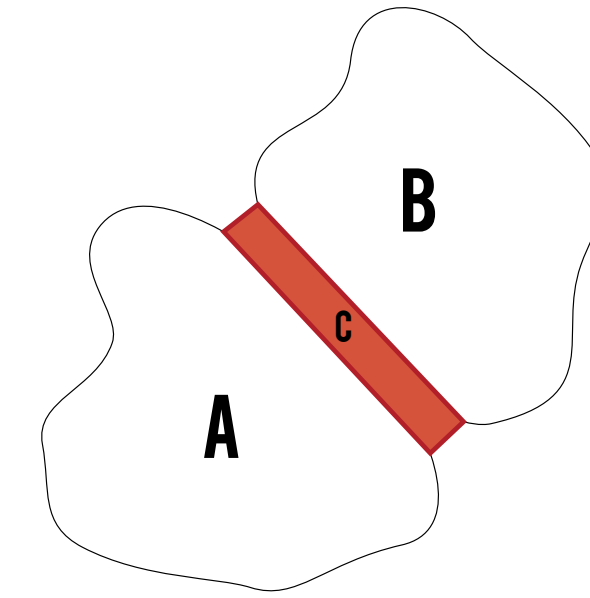
Research

What is a **border**?
my own definition:

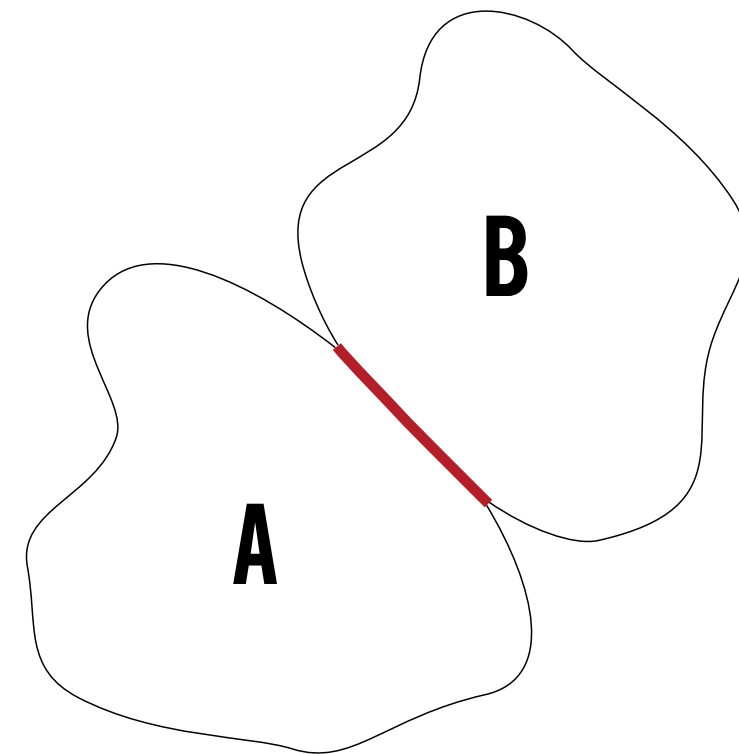
A border is where
two entities
come together



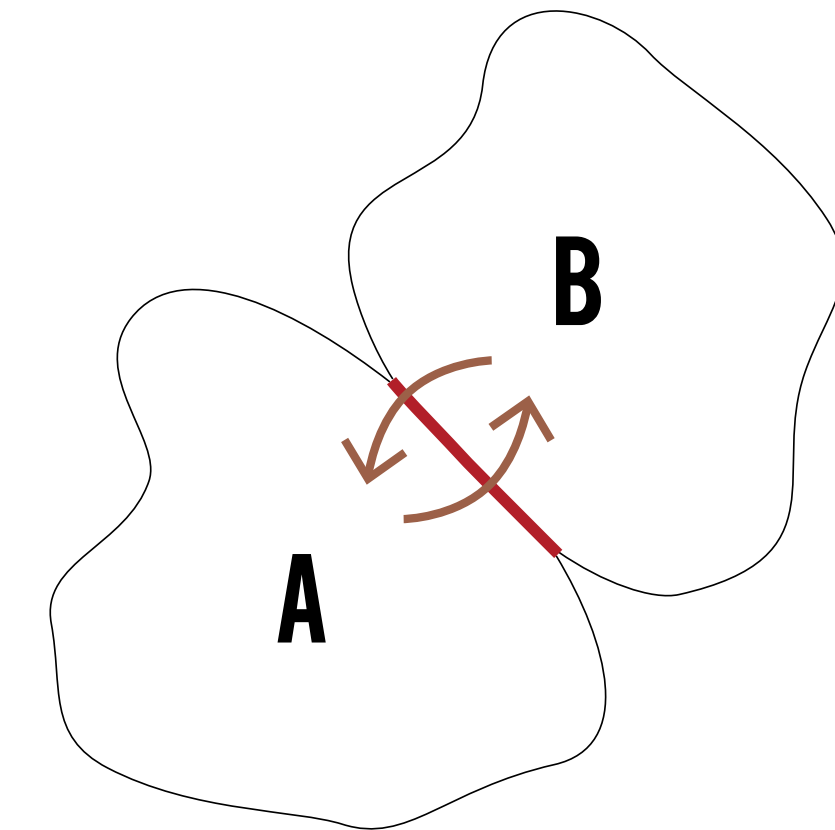
The border can reach a
point where it becomes
a **THIRD ENTITY**



It is where
the relation
between the two
is reflected

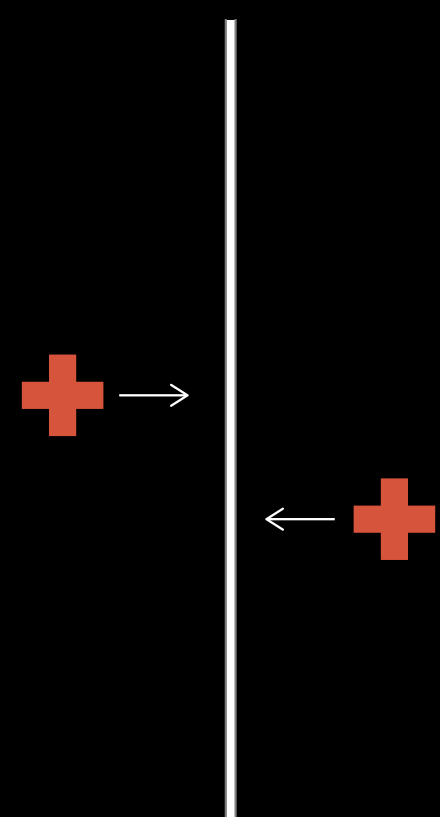


It is where **EXCHANGE**
between both entities
can and will take place

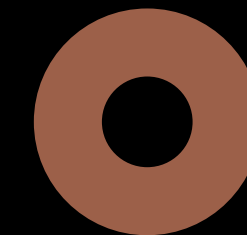
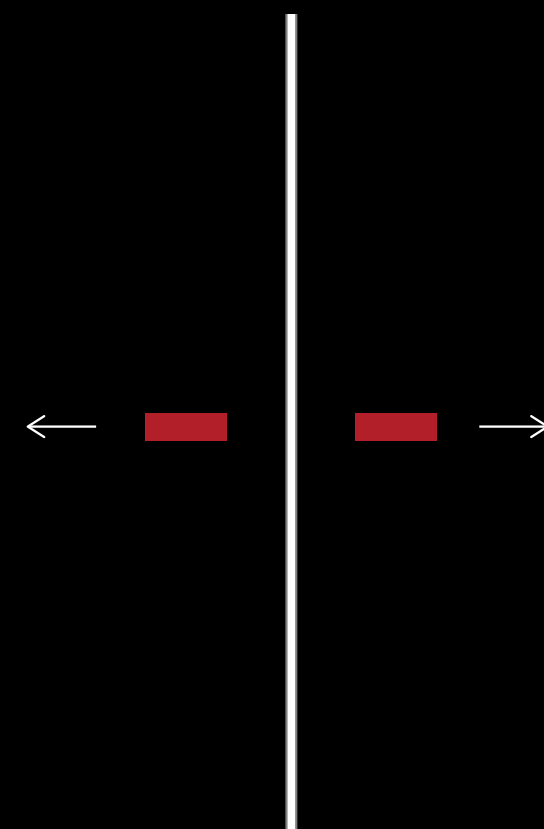




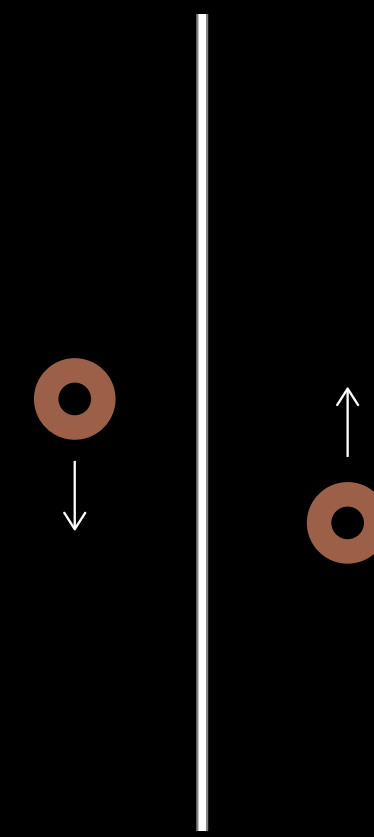
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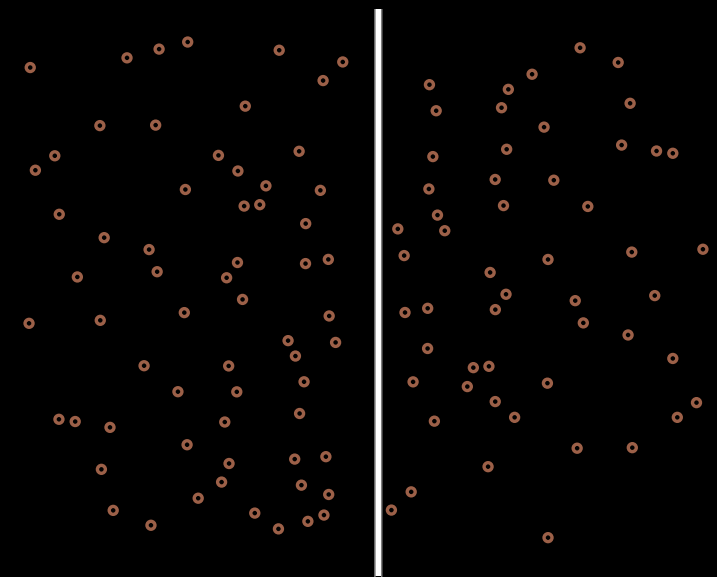
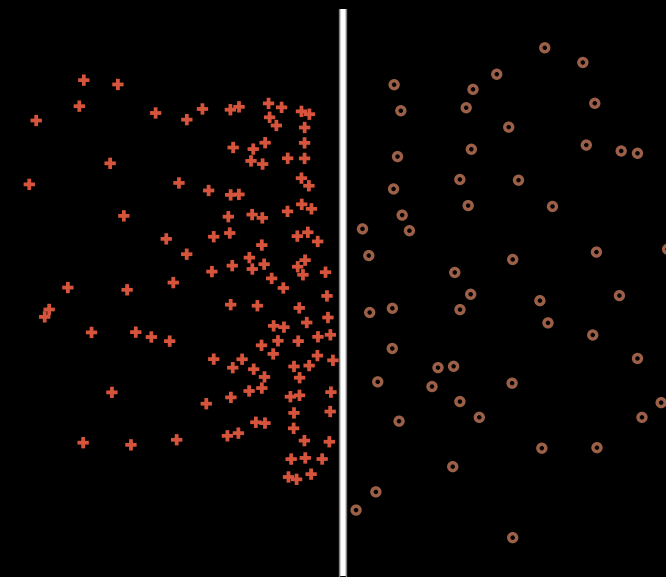
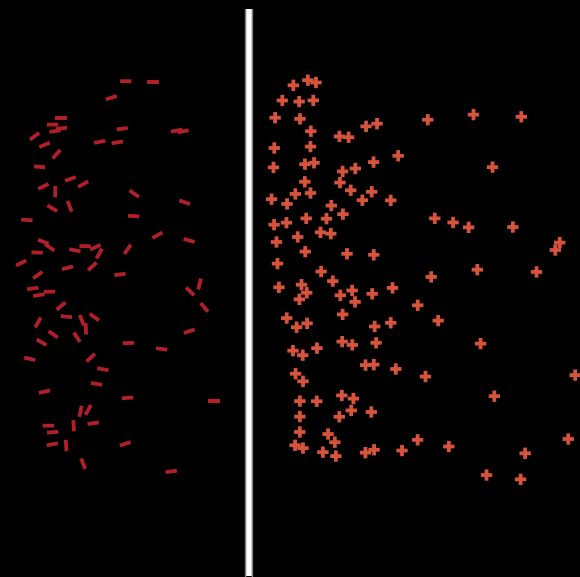
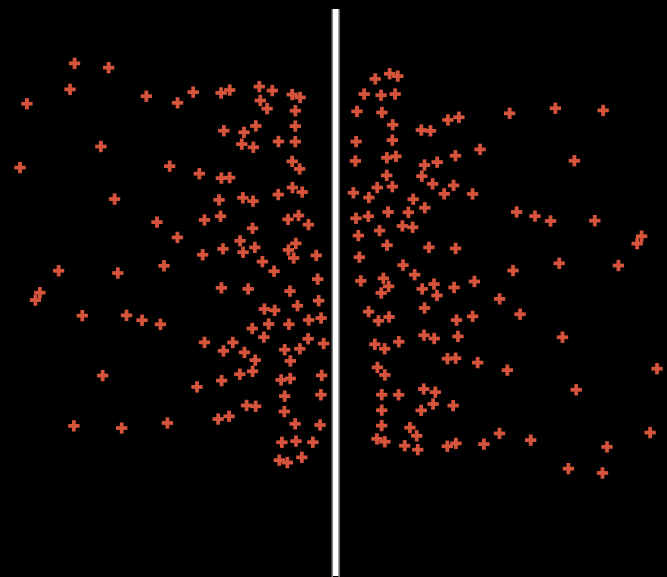
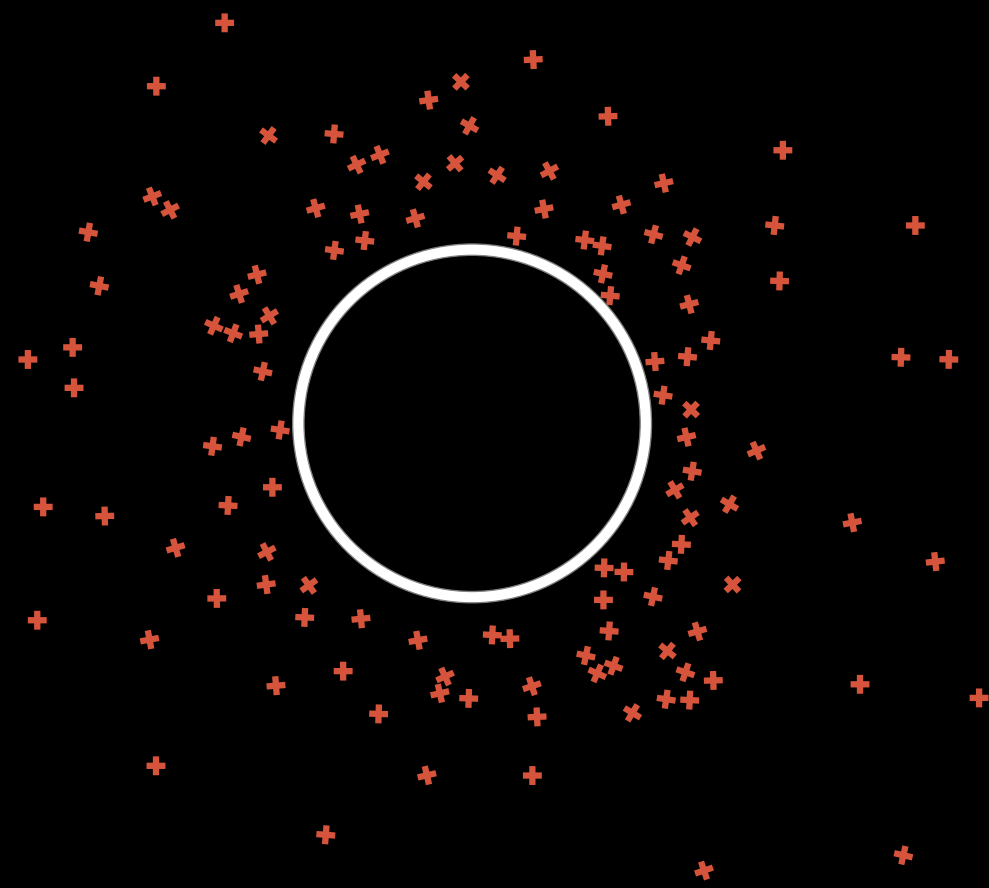
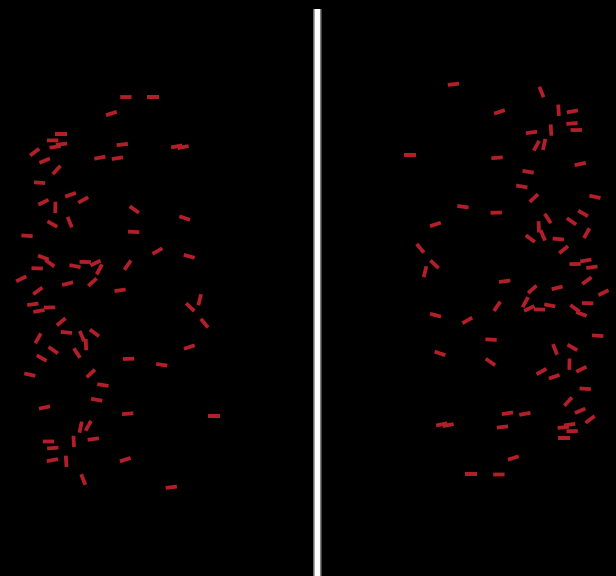
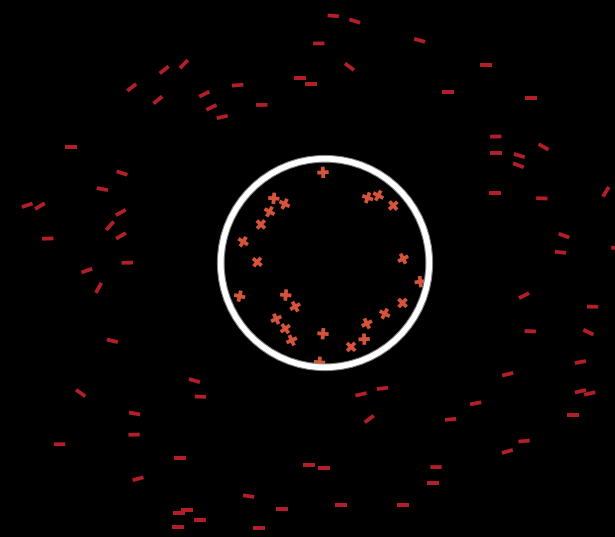
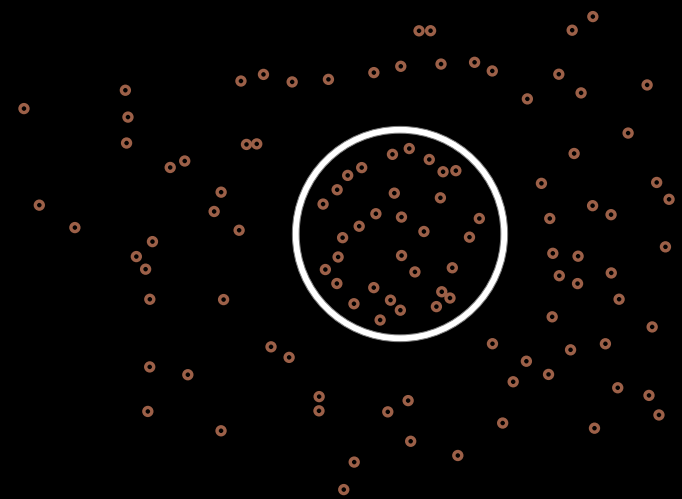
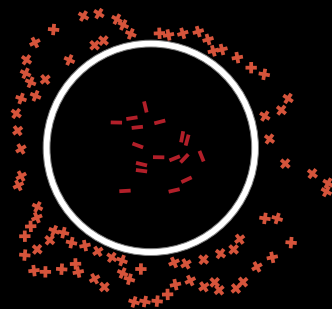


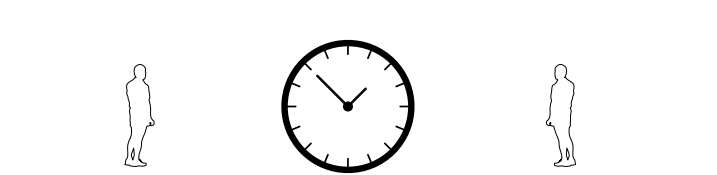
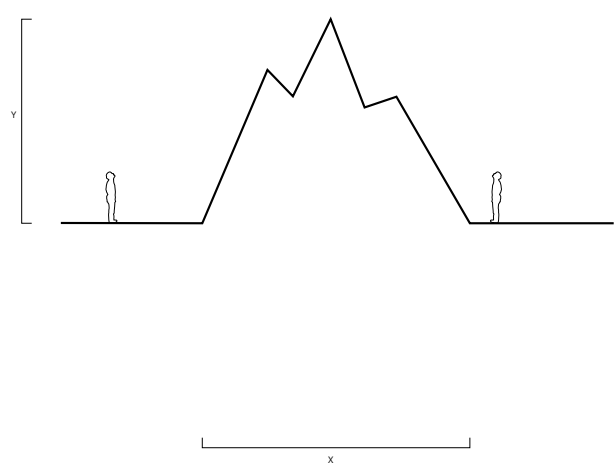
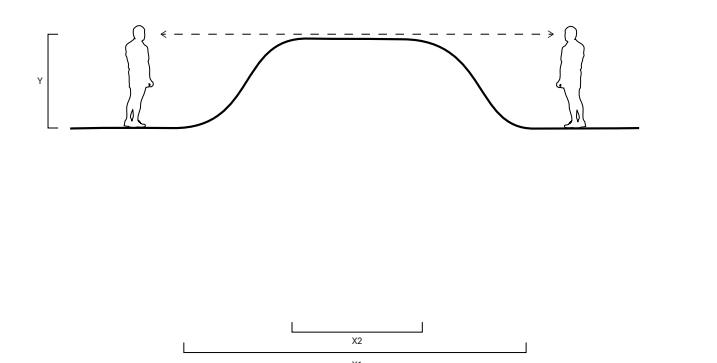
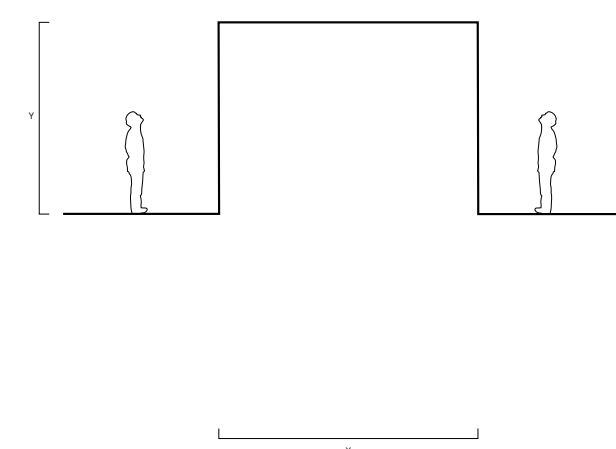
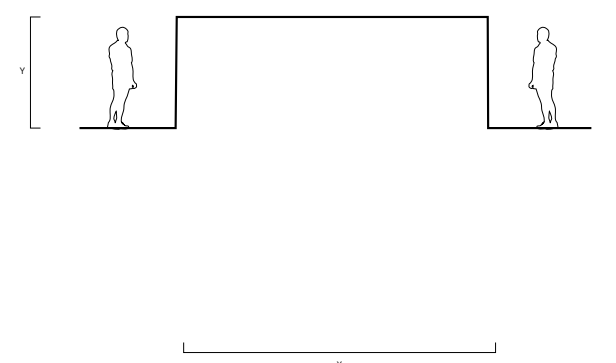
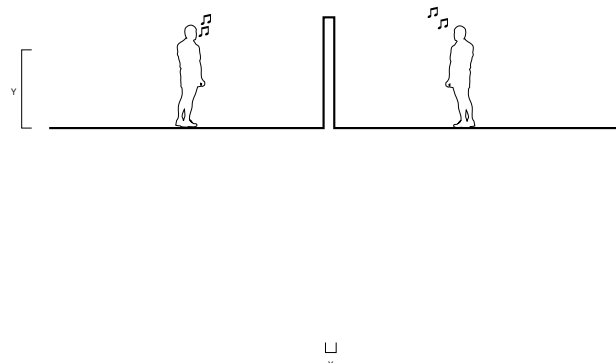
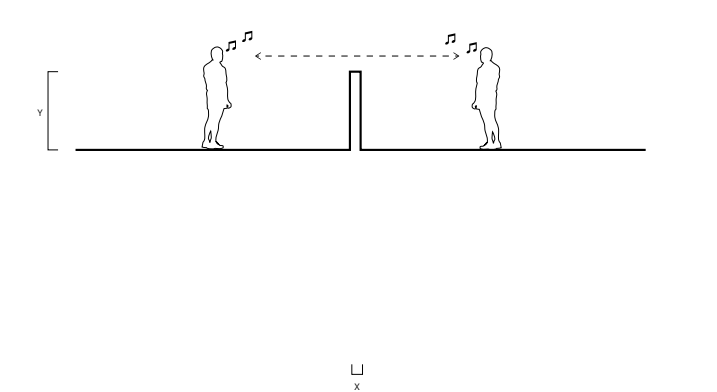
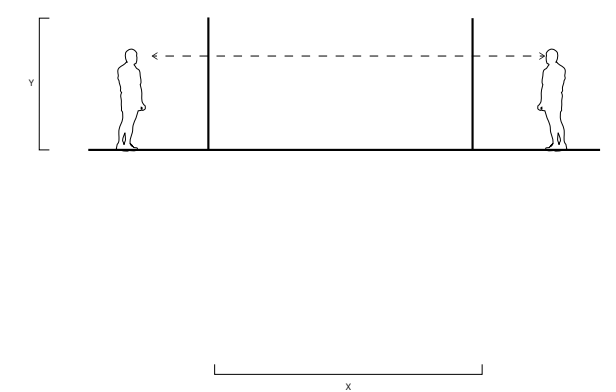
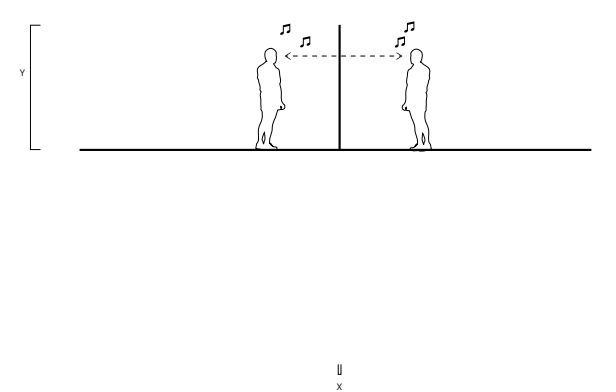
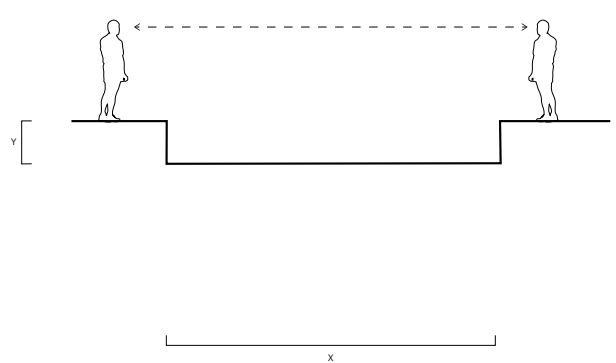
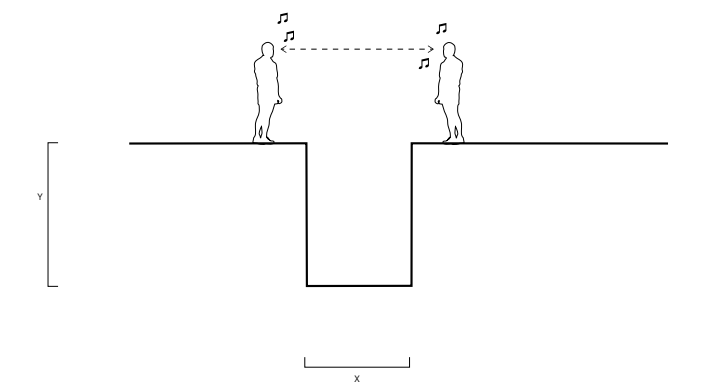
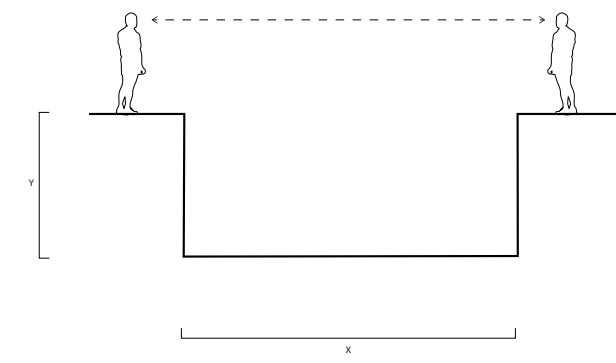
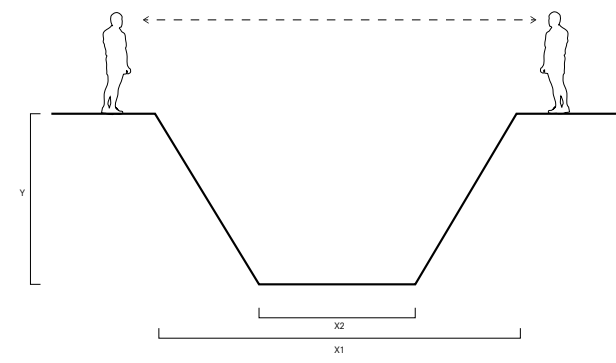
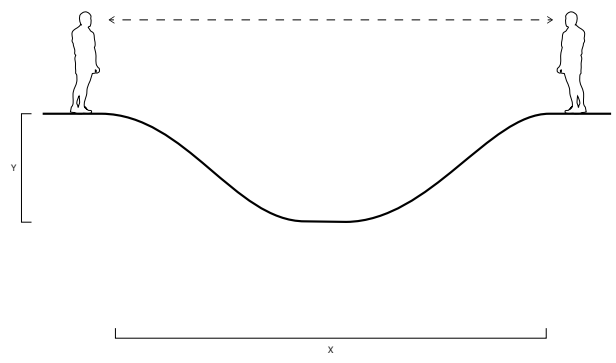
the repelled



the indifferent







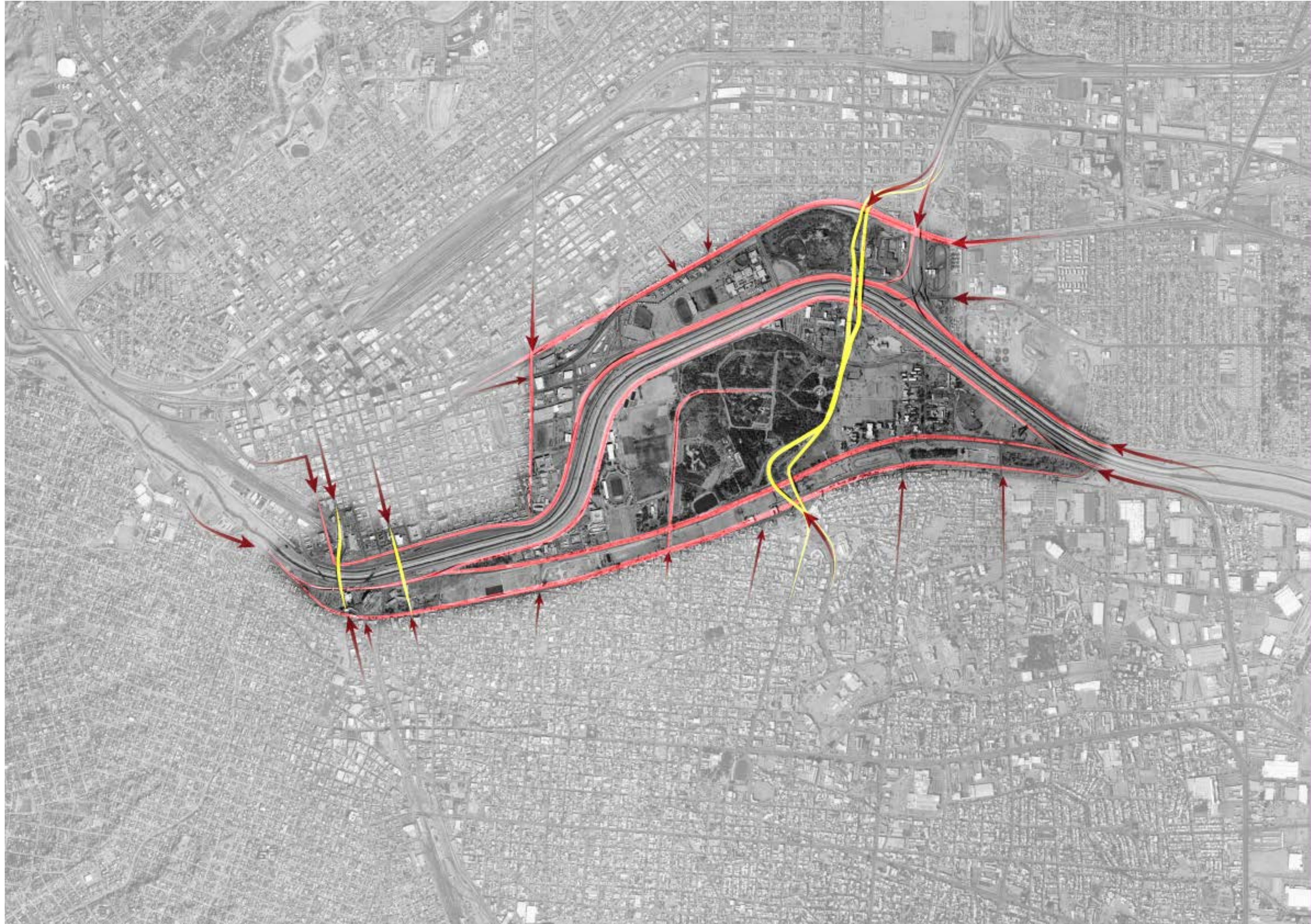
Research



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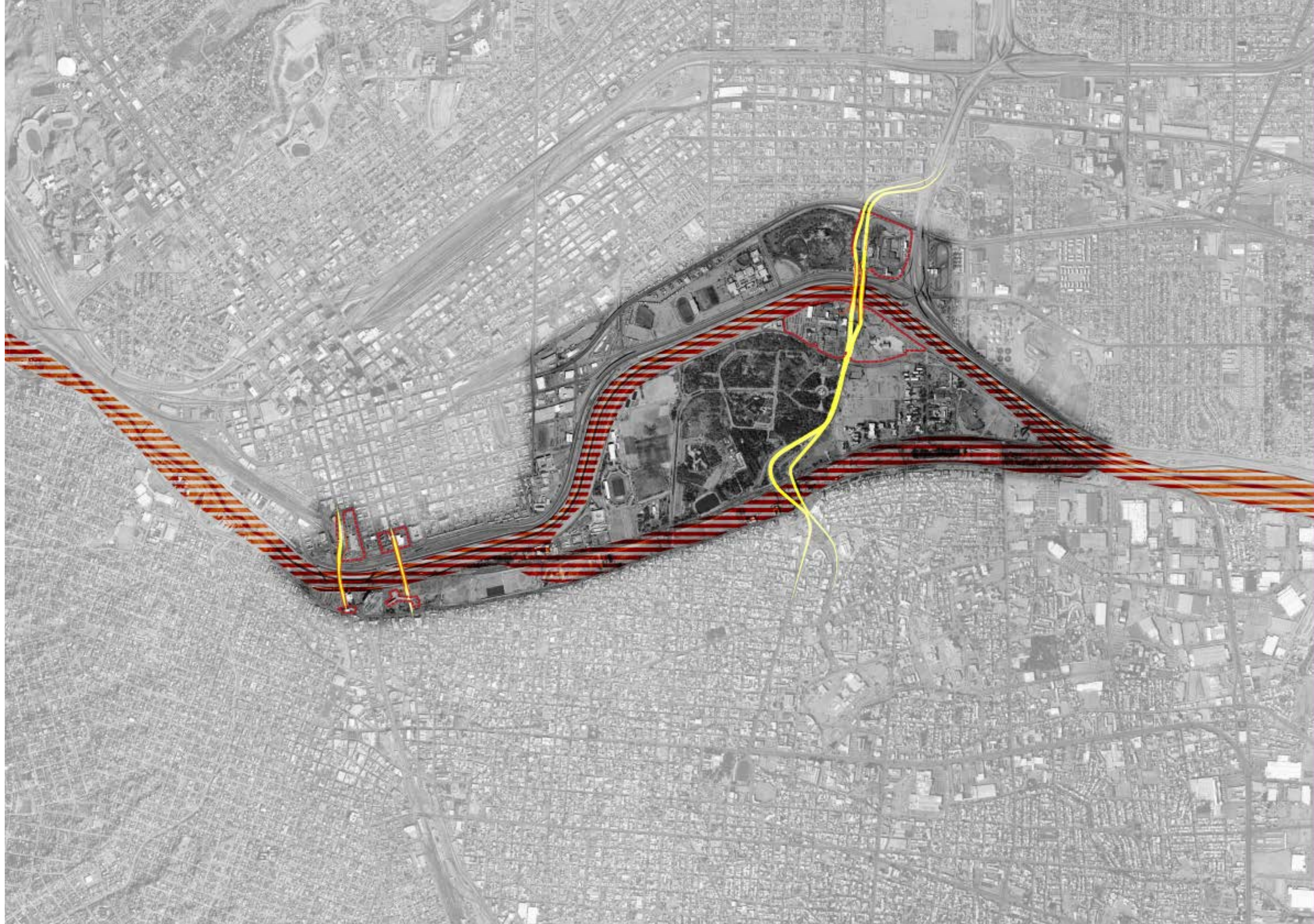
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Research



Research

What is an **enclave**?

: a distinct territorial, cultural, or social unit enclosed within or as if within foreign territory



Research



Research



Research

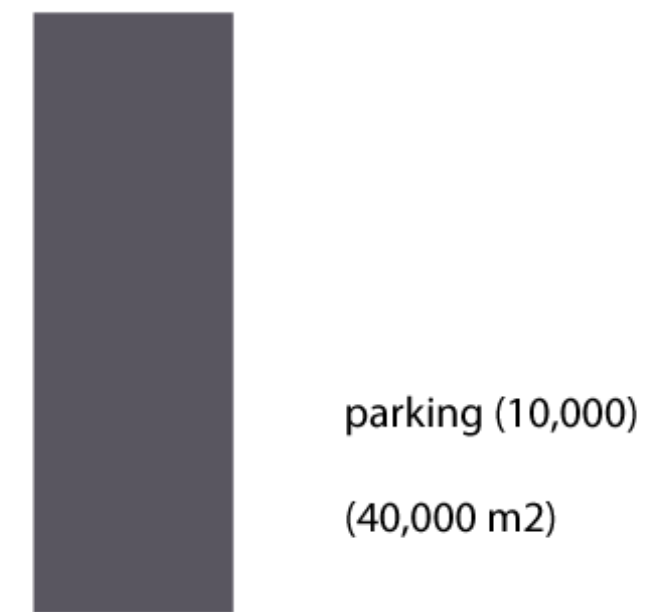
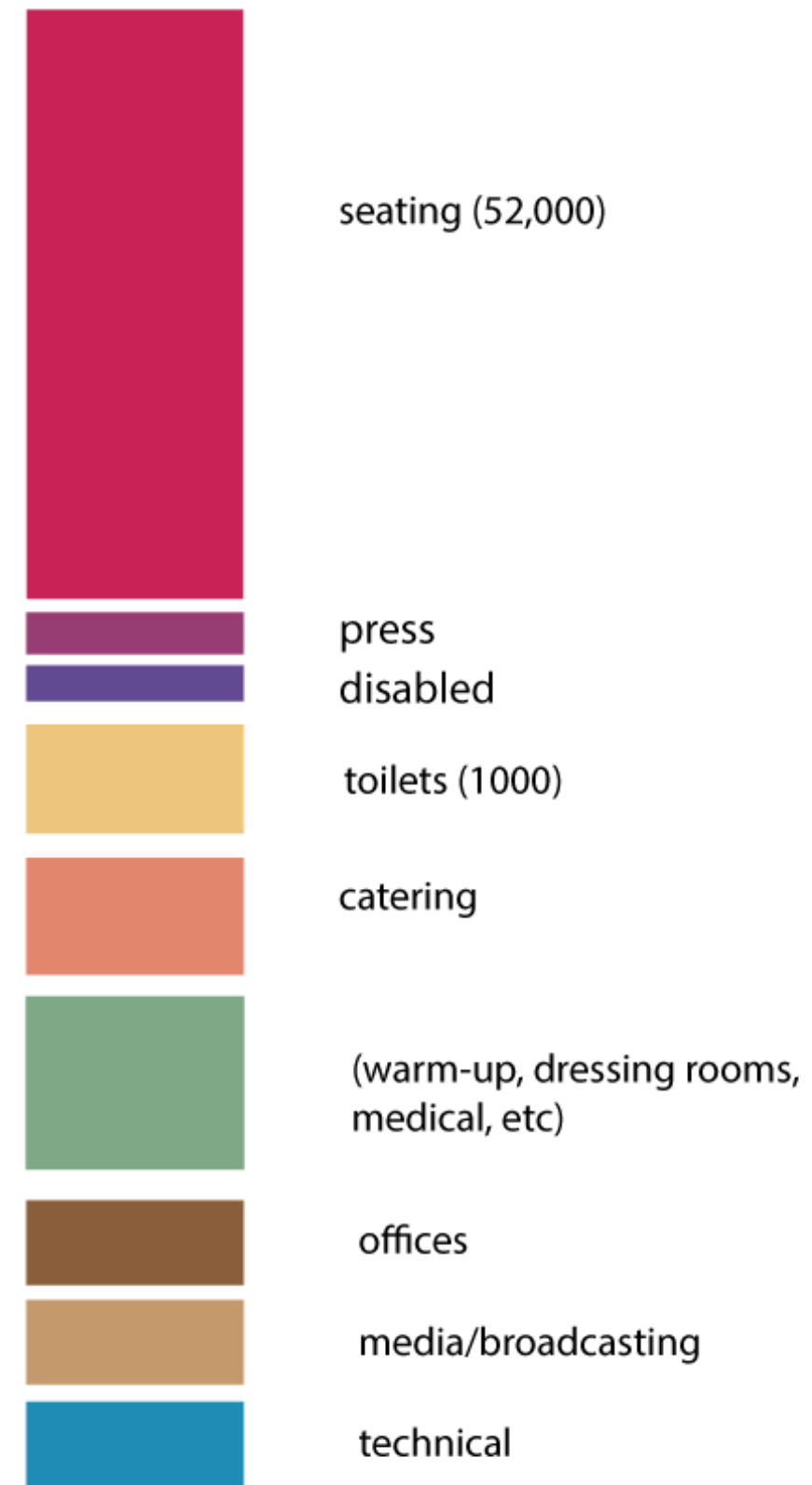


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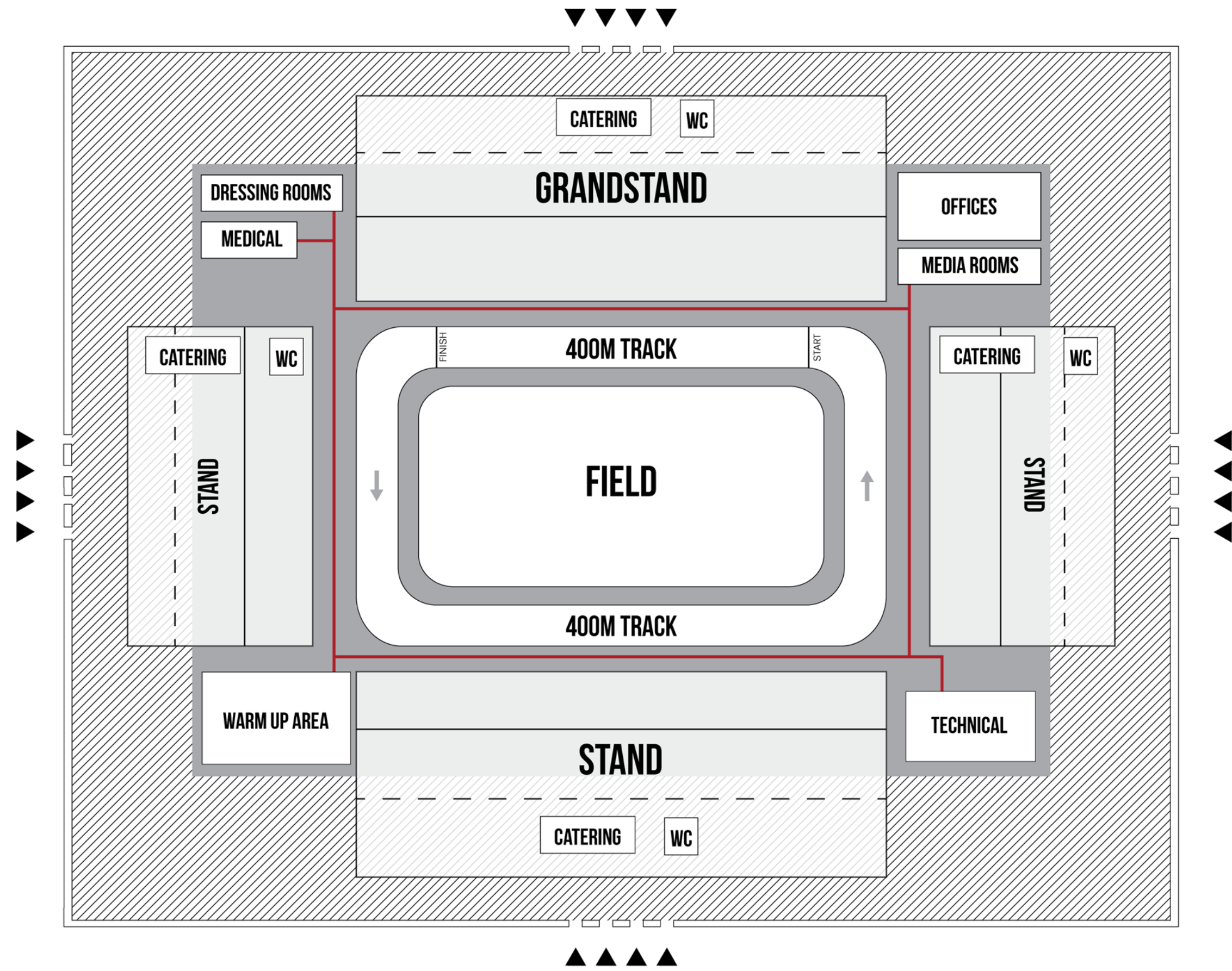
BUILDING

Program bar

Building Data
Gross Floor Area: 175,000 m²
Capacity: 52,000 seats



Design

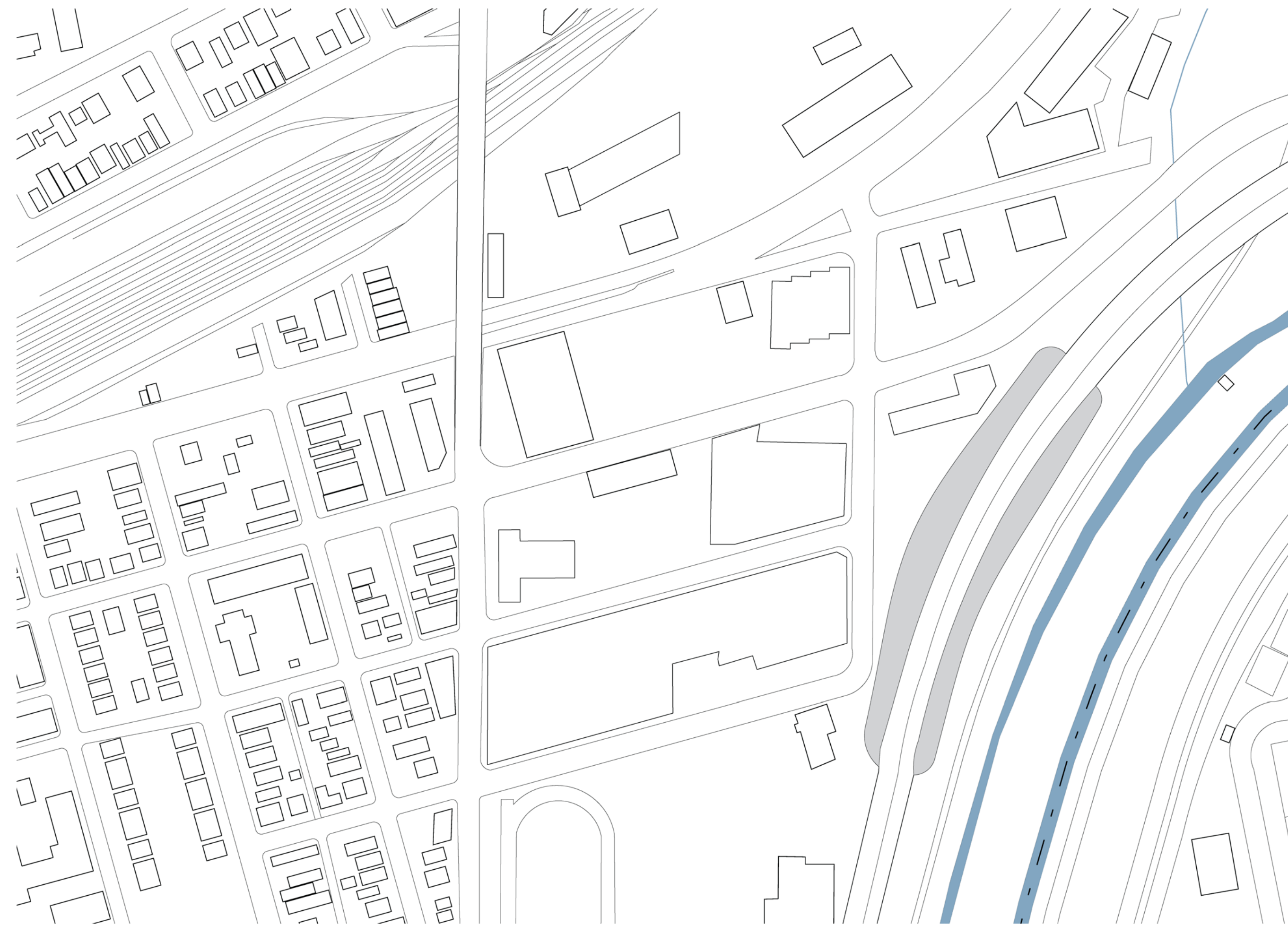


building site analysis

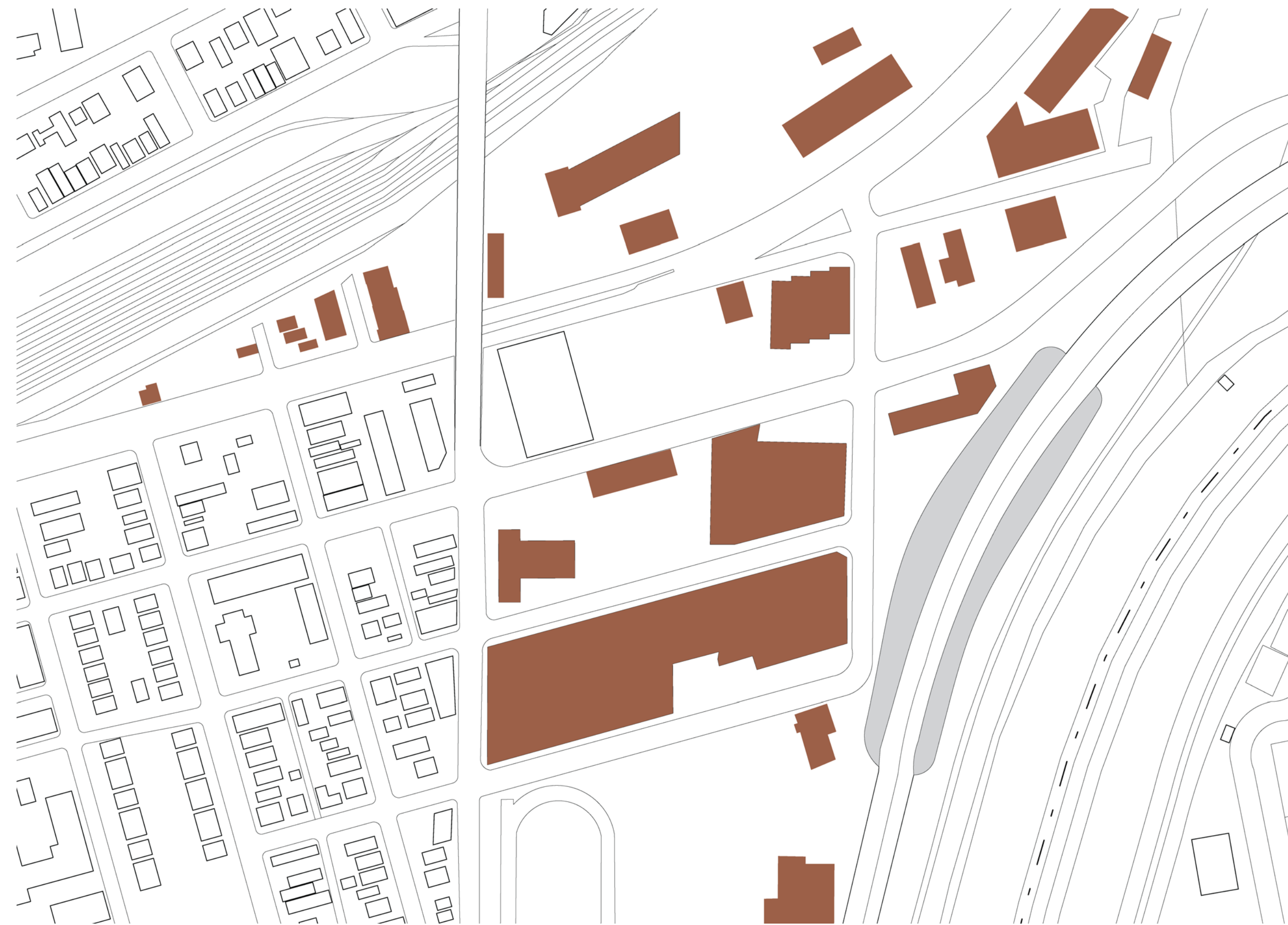
Design



Design



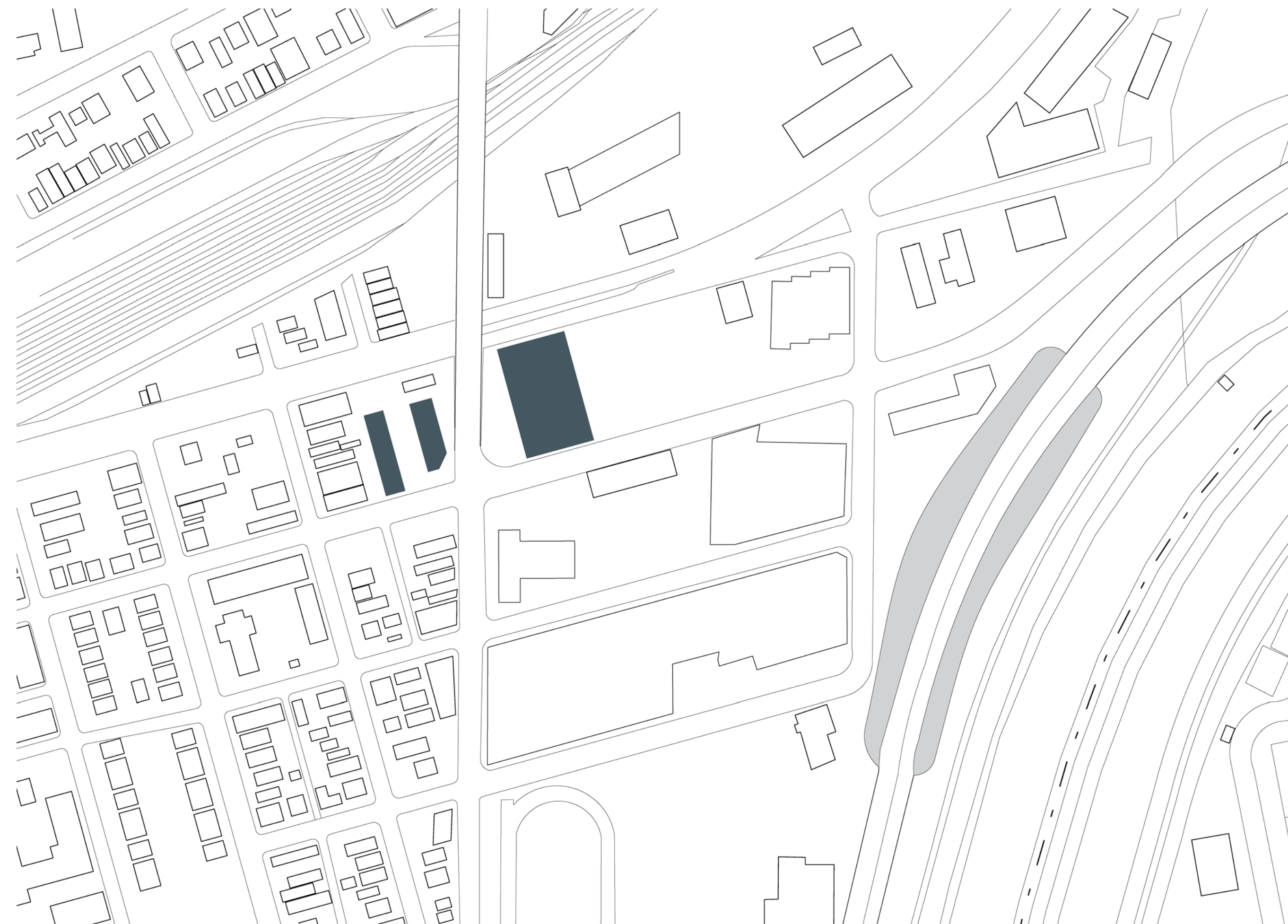
Design



Design



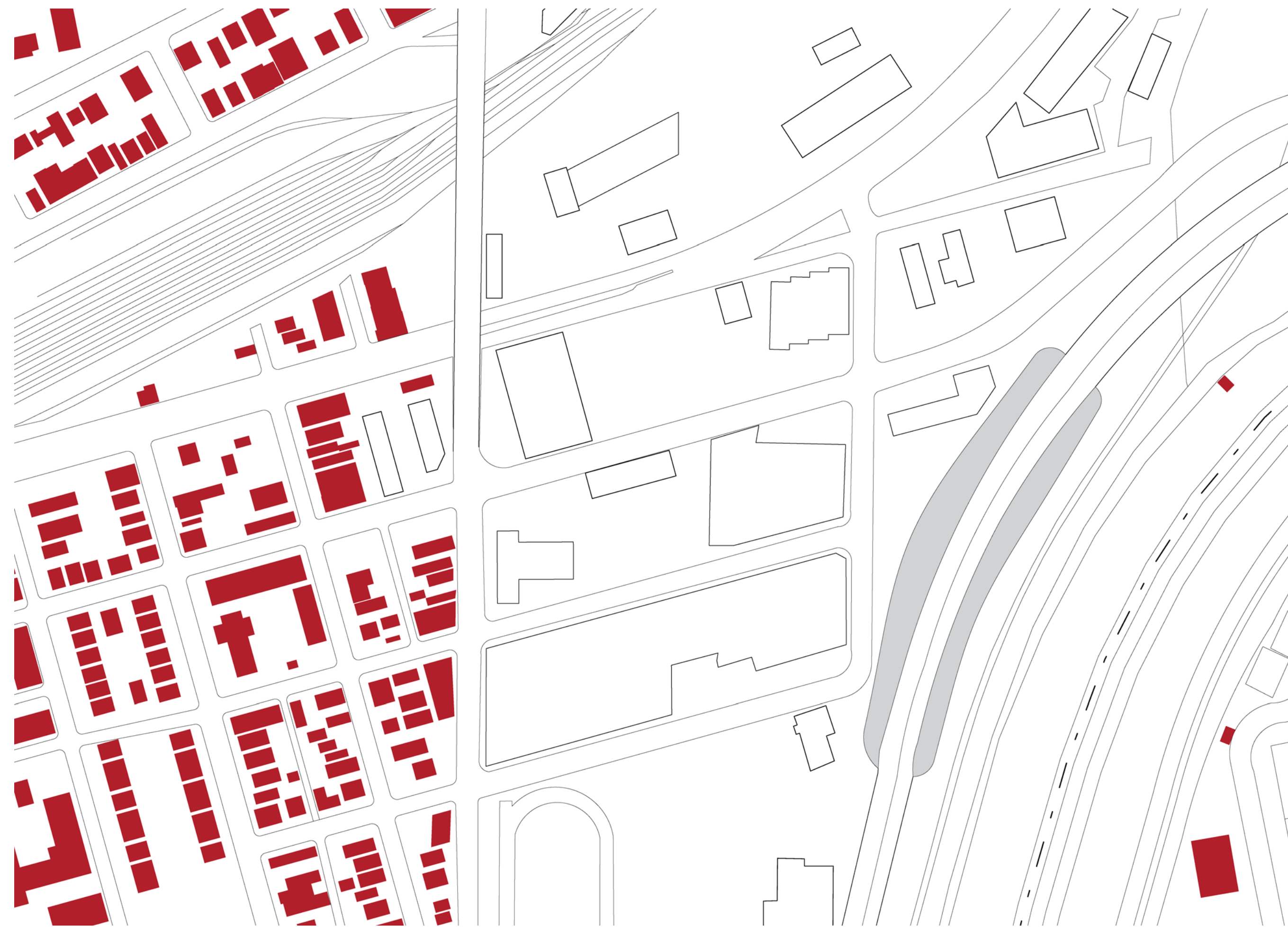
Design



Design



Design

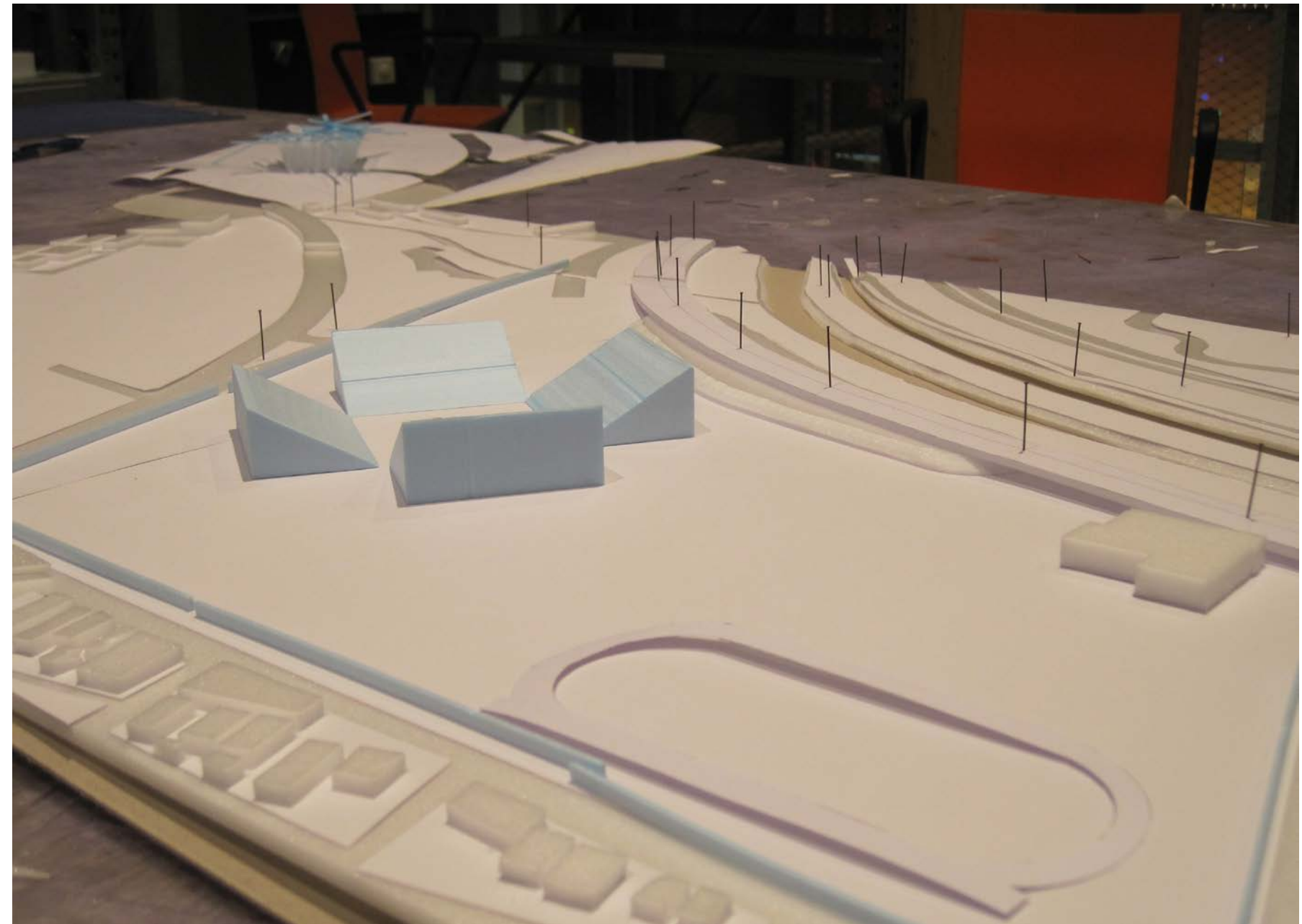
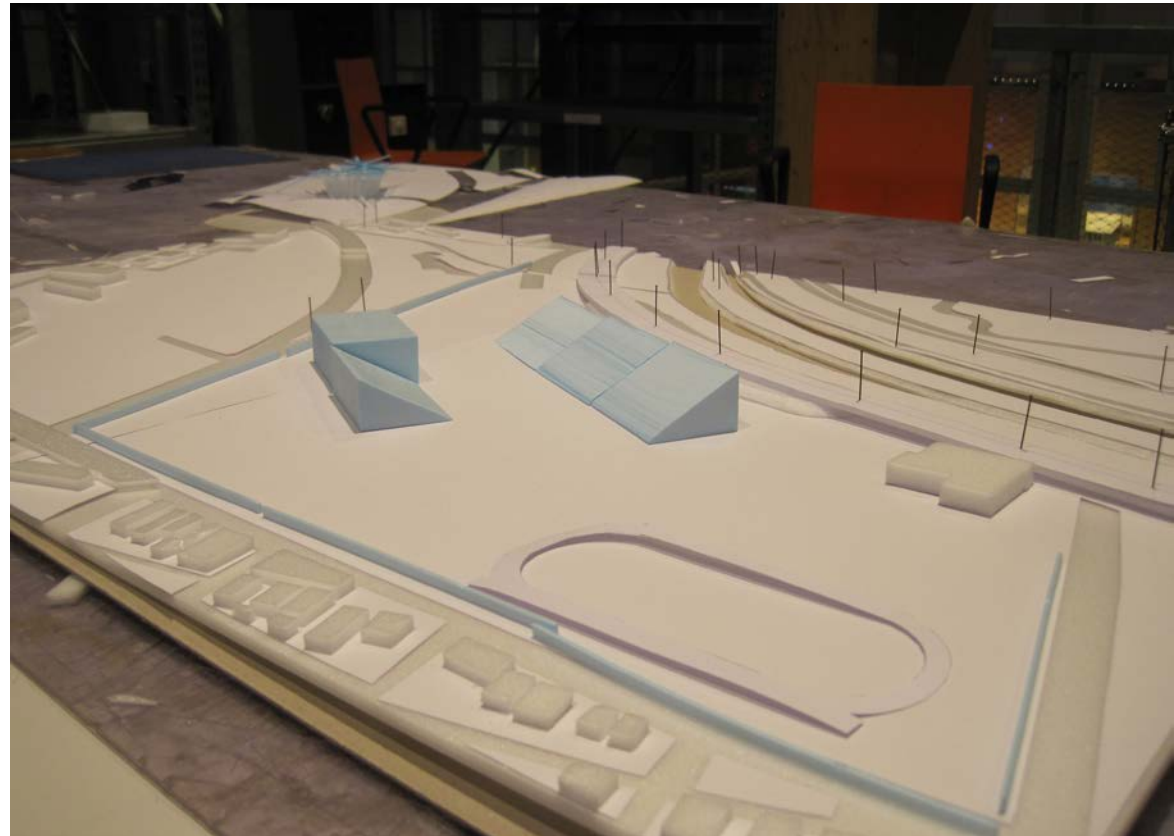


Design

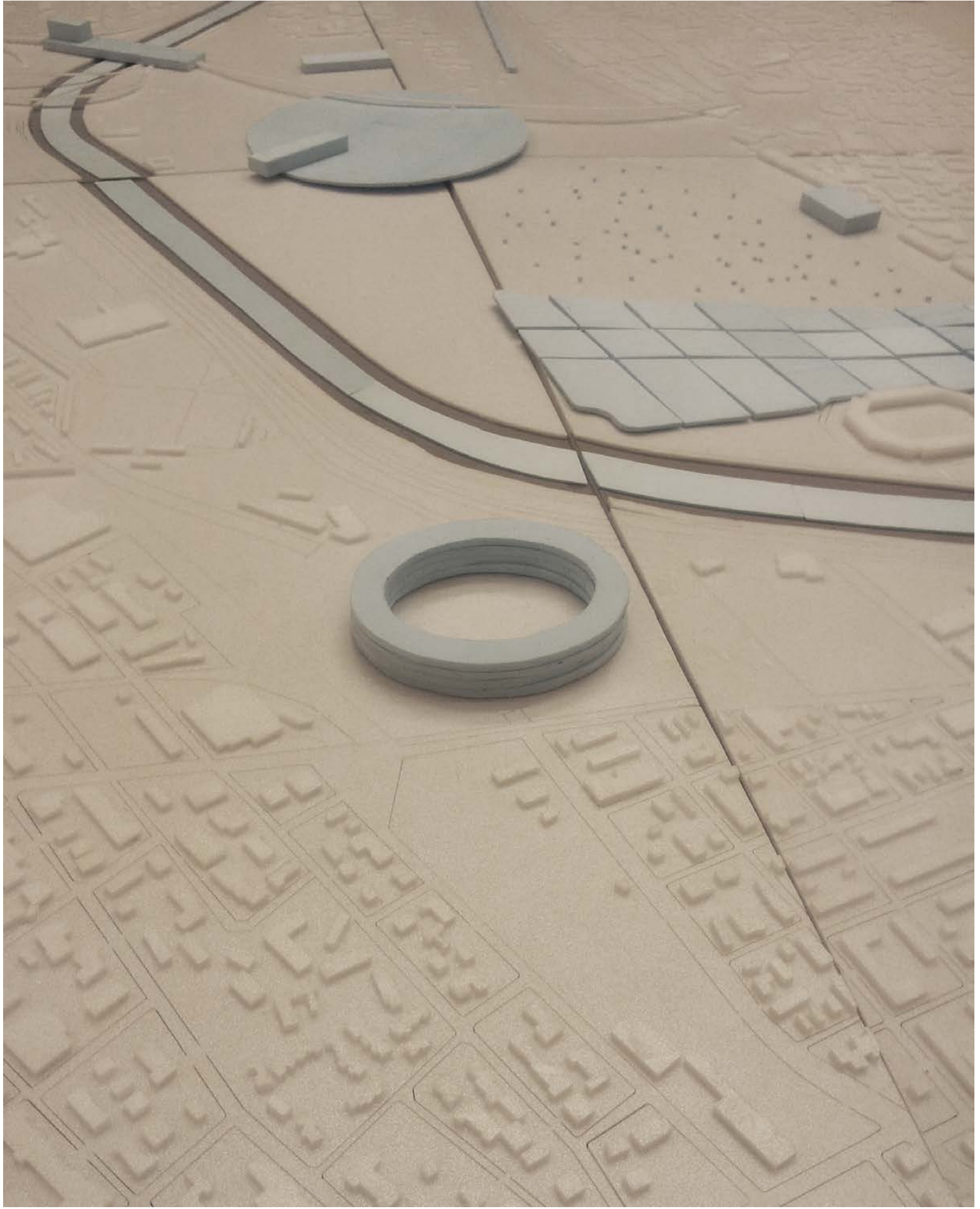
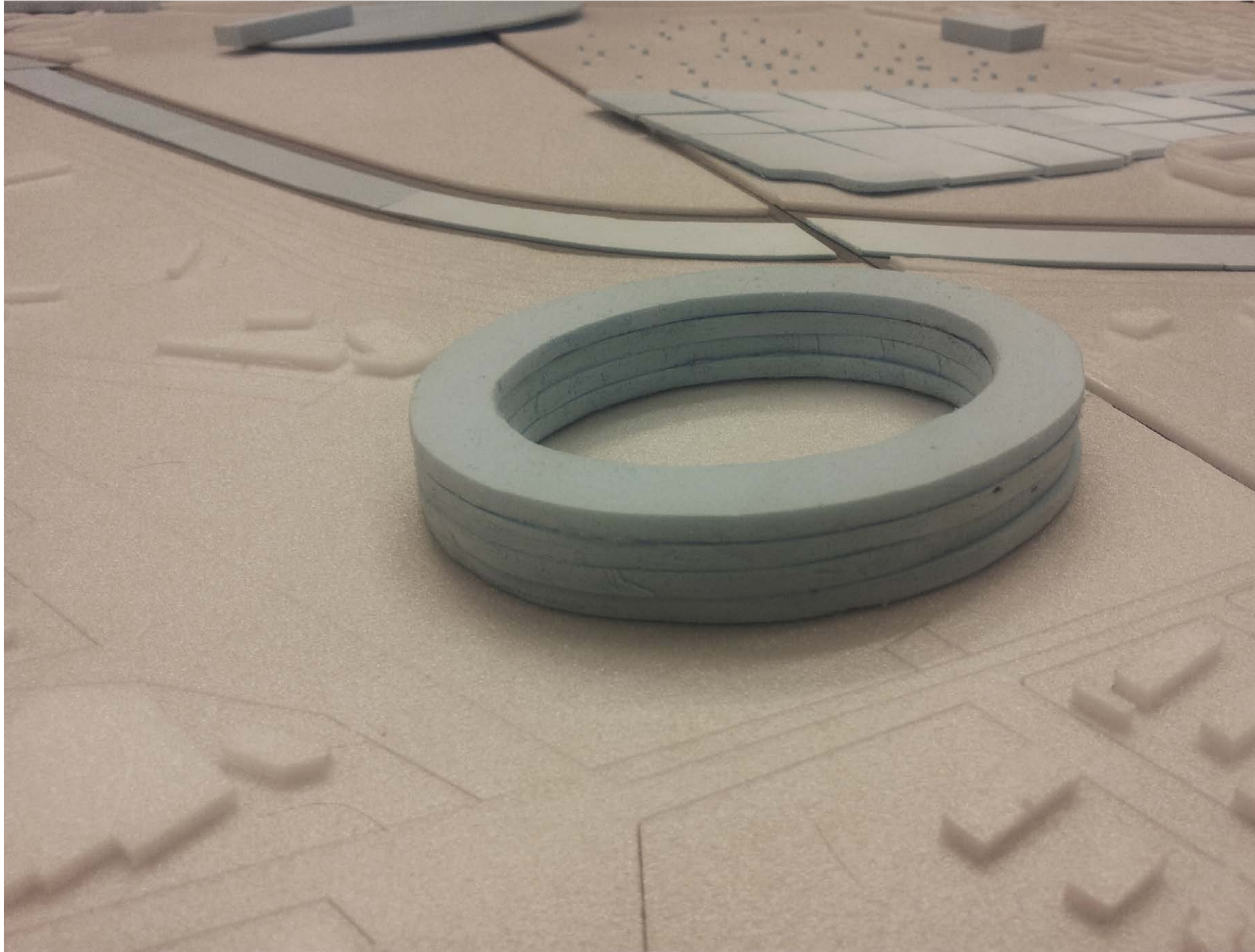


Design

basic form of the building



Design



Design



Design

airconditioned box

vs

sculptural structure



NRG STADIUM (2002)
HOUSTON, TEXAS
ARCHITECT: POPULOUS



UNIVERSITY OF PHOENIX STADIUM (2006)
HOUSTON, TEXAS
DESIGN: EISENMAN ARCHITECTS, POPULOUS



AT&T STADIUM (2009)
ARLINGTON, TEXAS
ARCHITECT: HKS



ESTÁDIO MUNICIPAL DE BRAGA (2003)
BRAGA, PORTUGAL
ARCHITECT: EDUARDO SOUTO DE MOURA



BULLRING BY THE SEA (1960)

TIJUANA, MEXICO

ARCHITECT: ACEVEDO

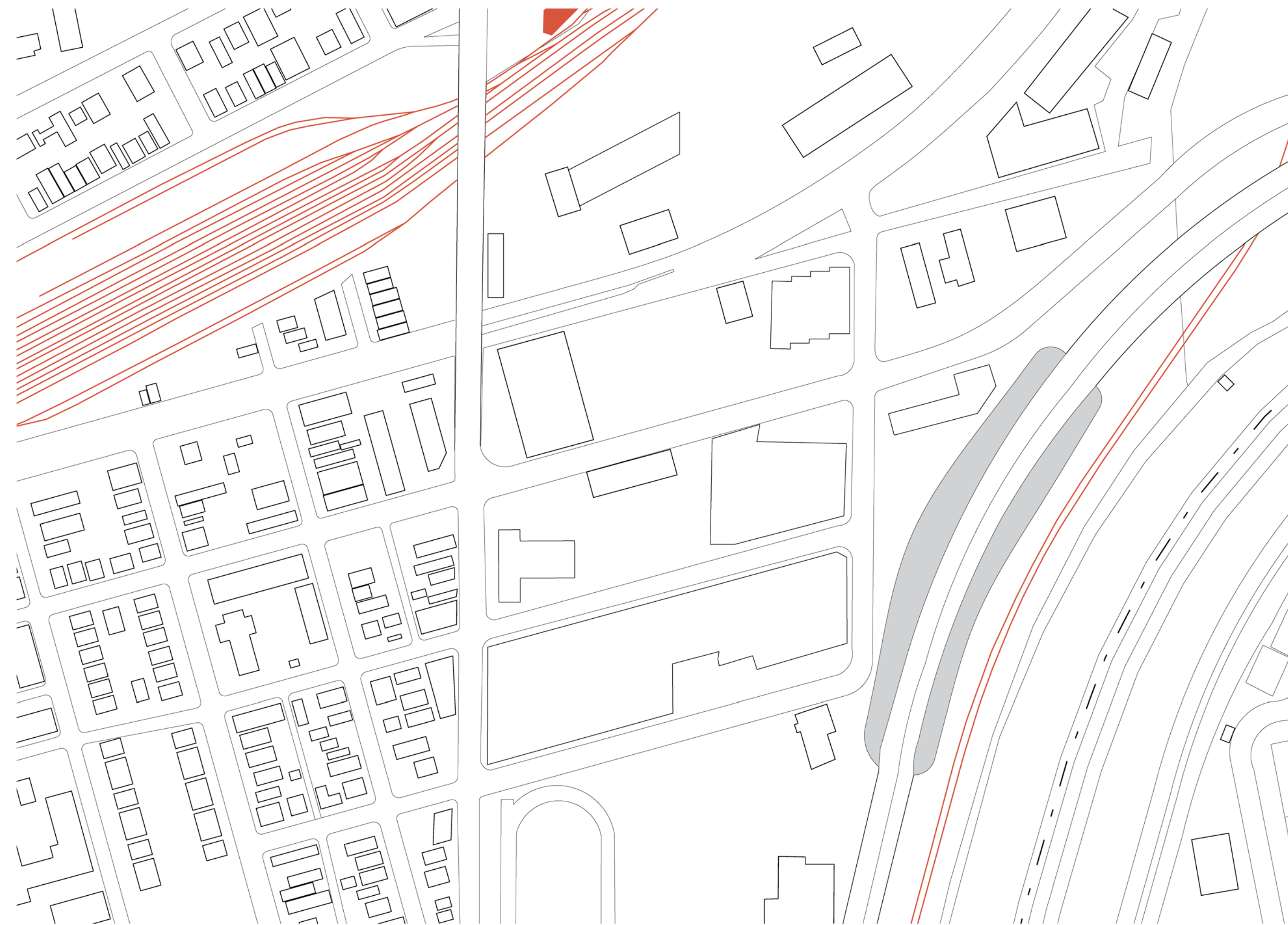


ESTÁDIO NACIONAL MANÉ GARRINCHA (1974 / 2013)
BRASILIA, BRAZIL
ARCHITECT: CASTRO MELLO ARQUITETOS, SCHLAICH BERGER-
MANN UND PARTNER, GMP ARCHITEKTEN

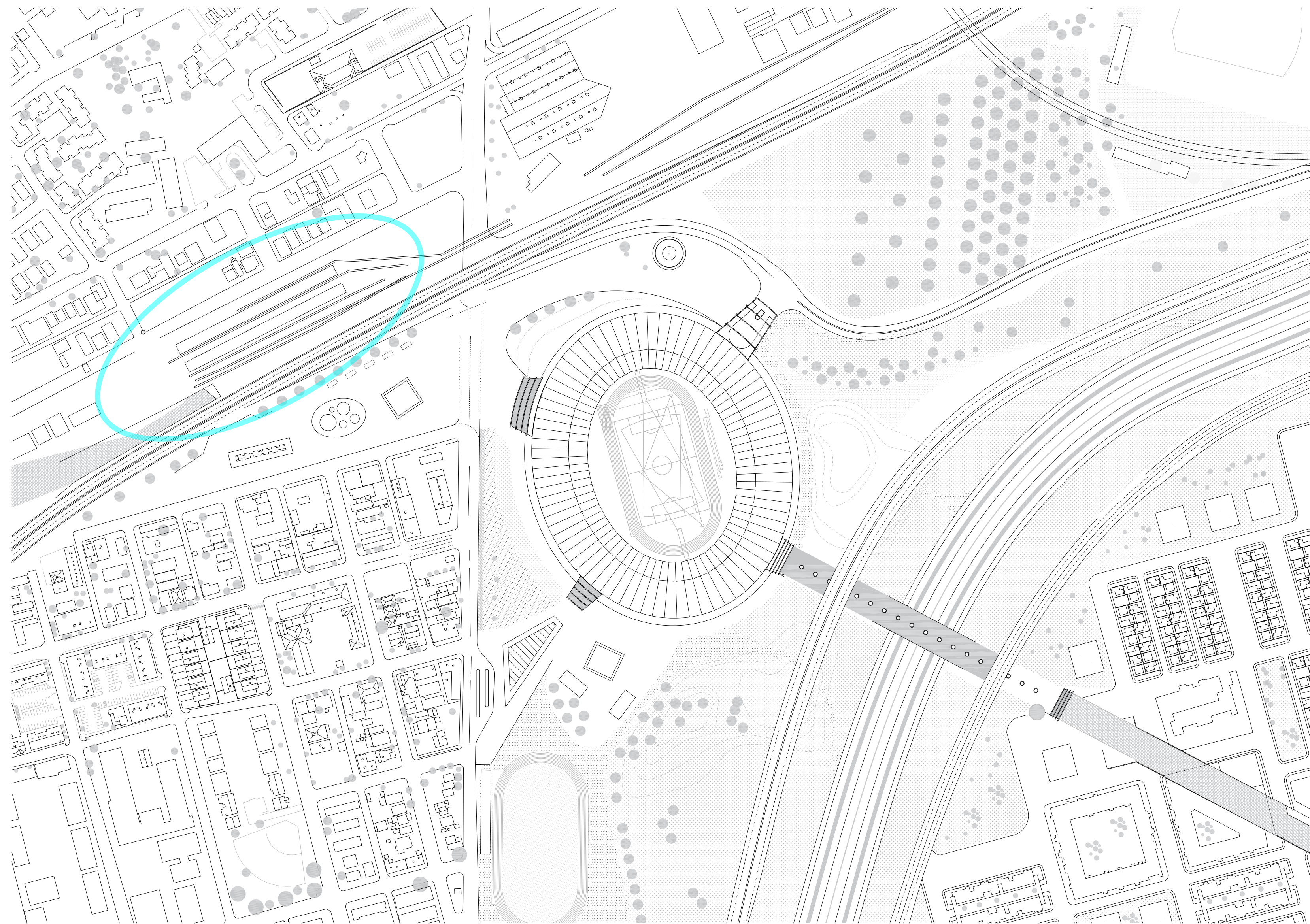
urban implementation of the building

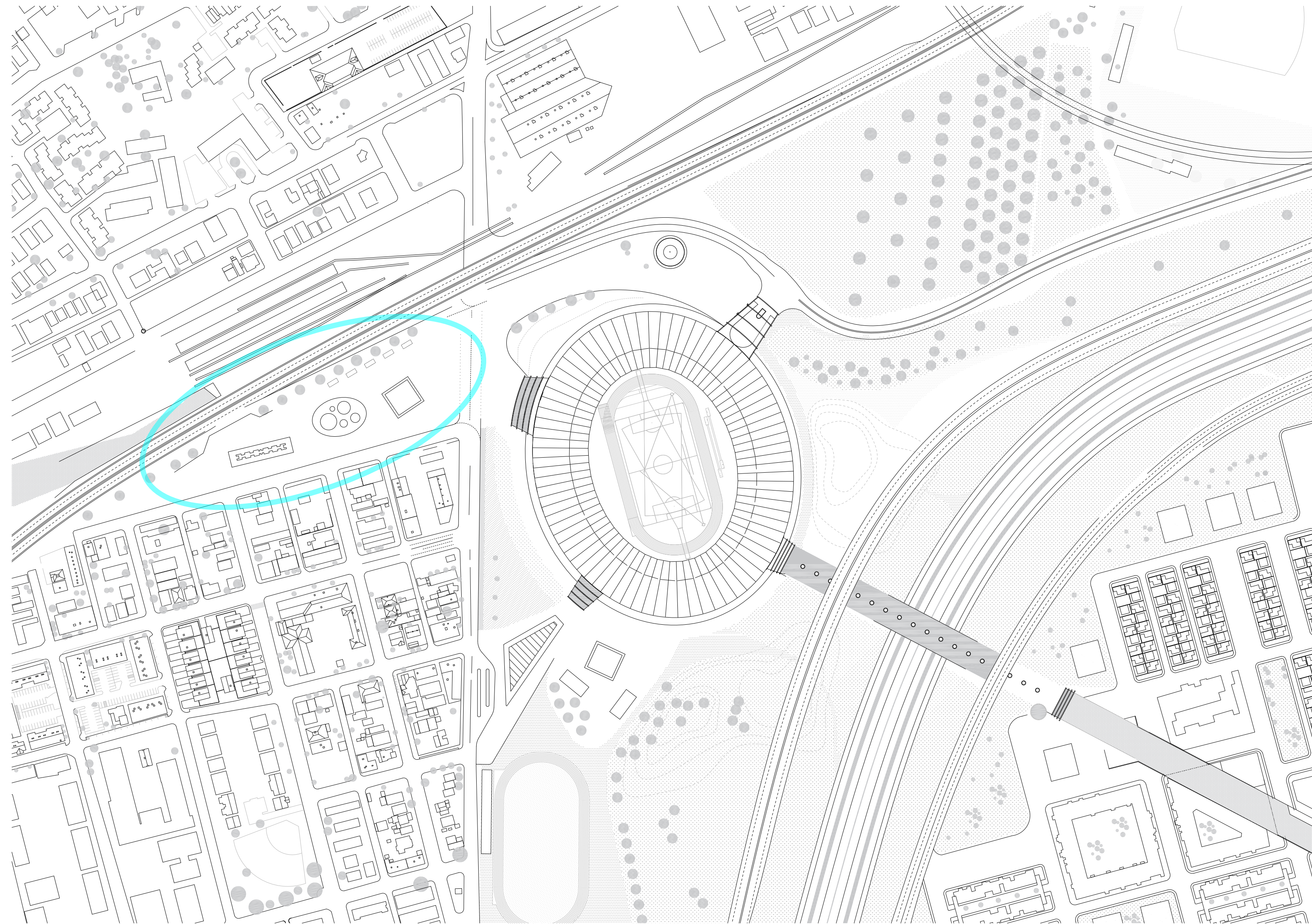


Design

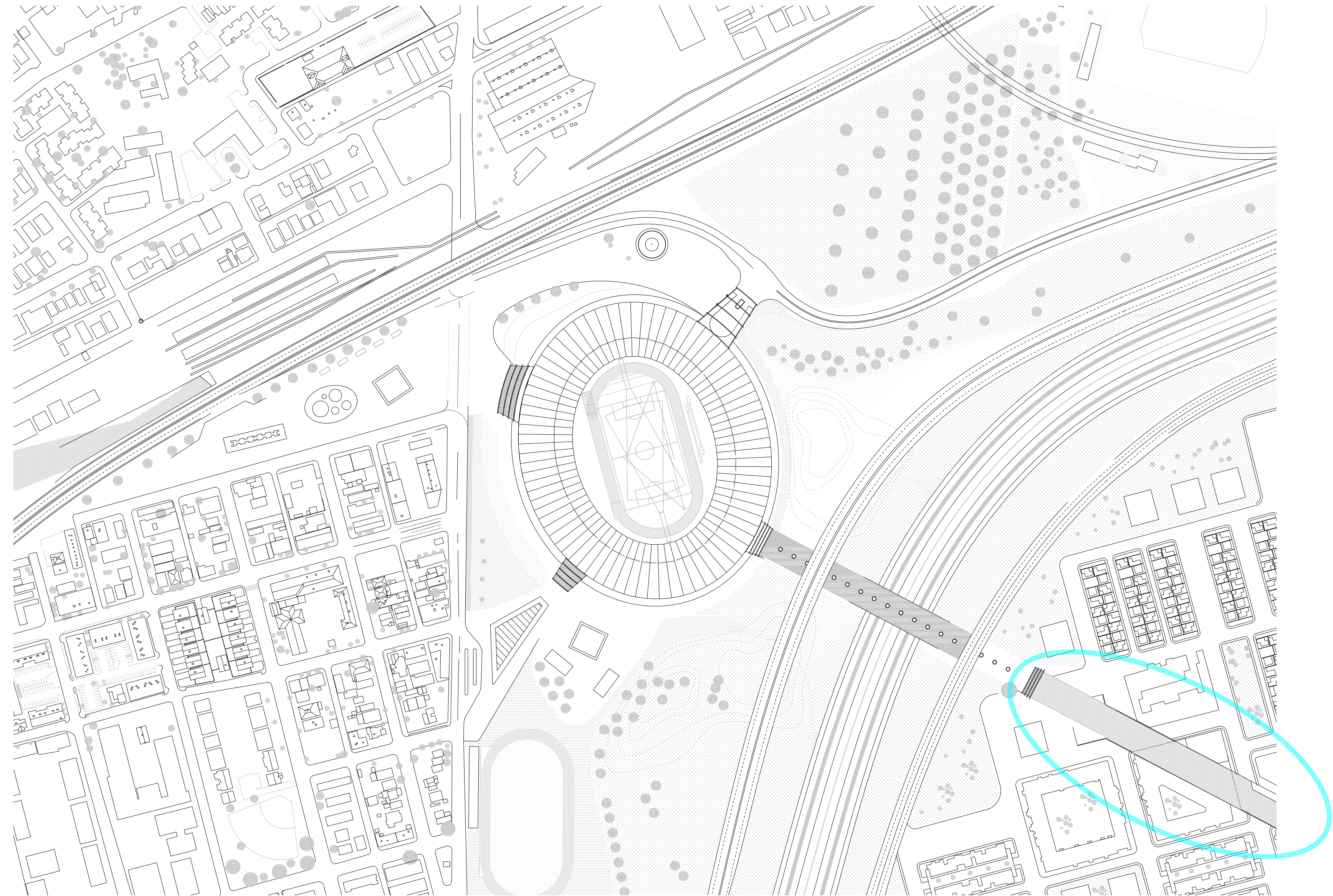


Design





Design



Design



When it comes to the art of tailgating, there is far more to your experience than traveling to see a game. In fact, 30% of tailgaters don't even attend the game. What they do instead is engage in a rich cultural history of food, fun, games, and sharing.





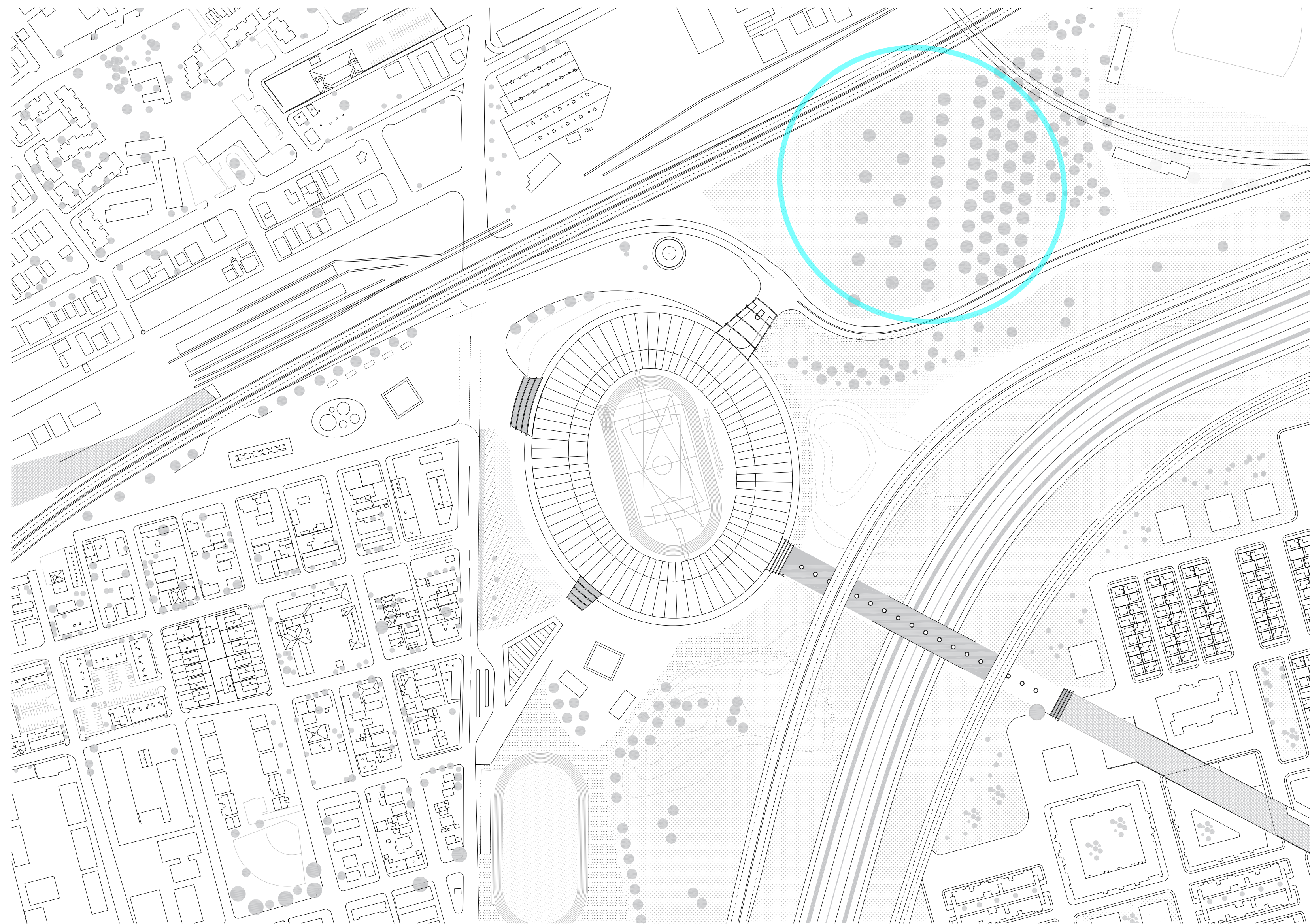
Design



Design



Design



Design

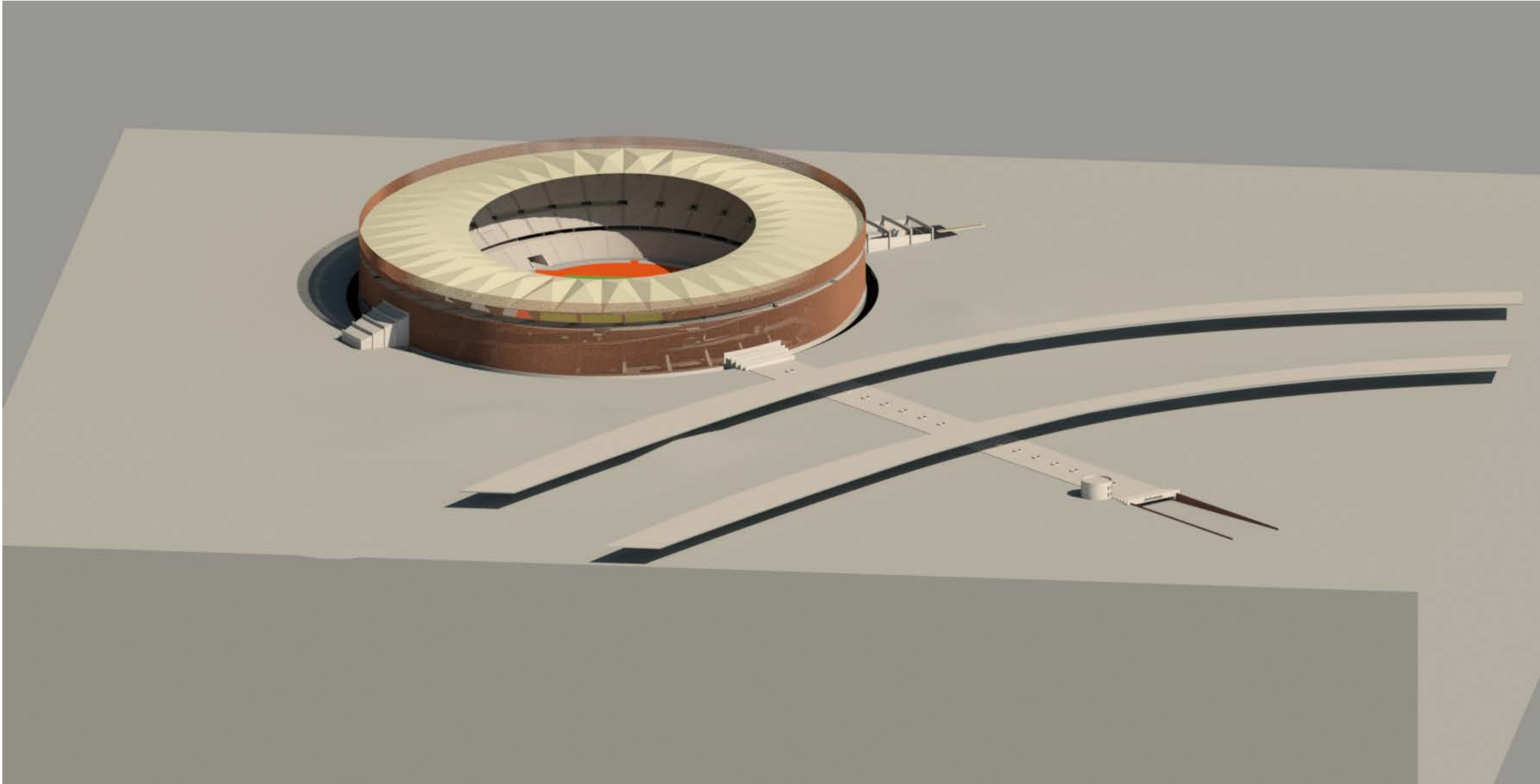


Design



Design

building design

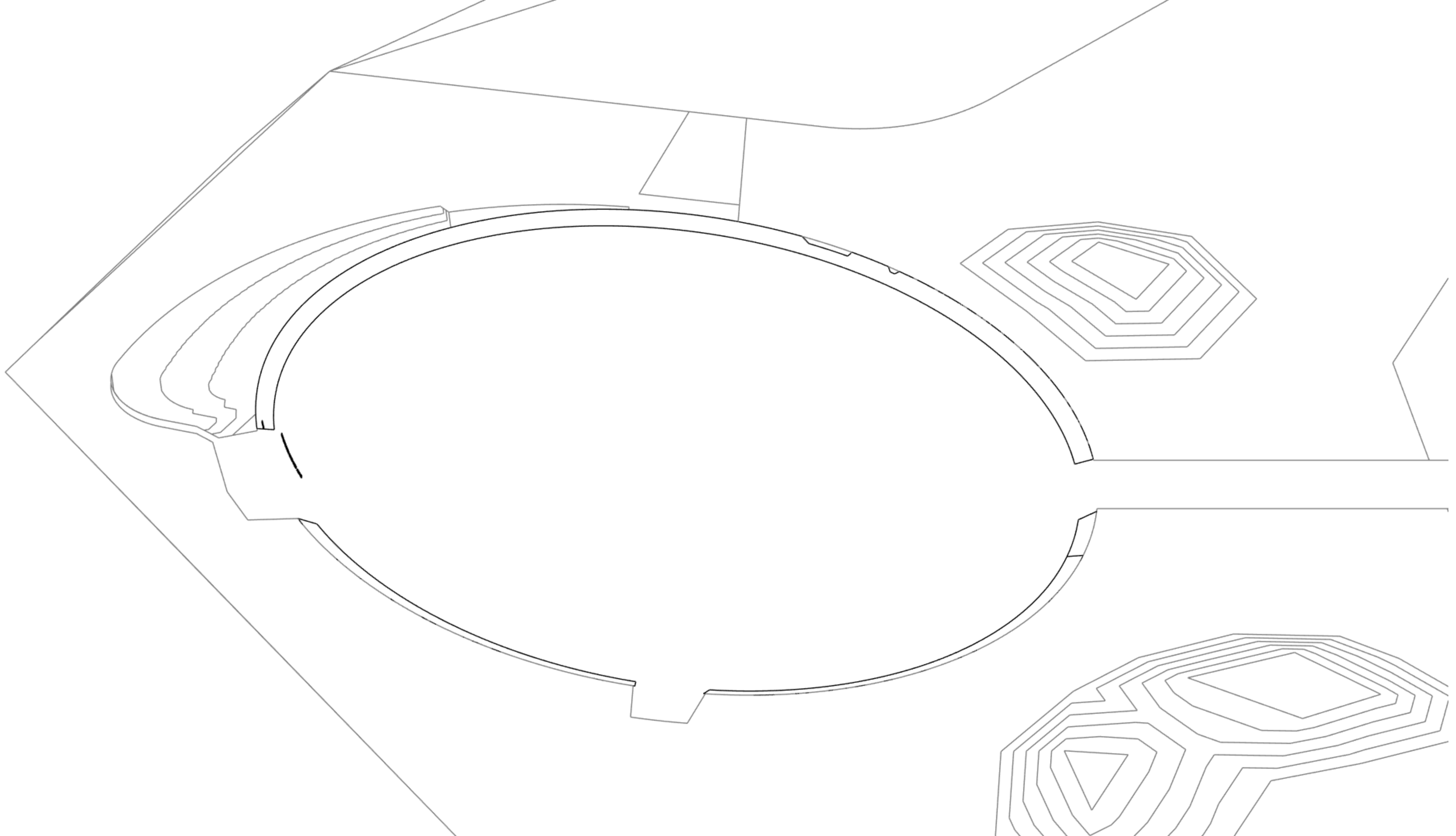


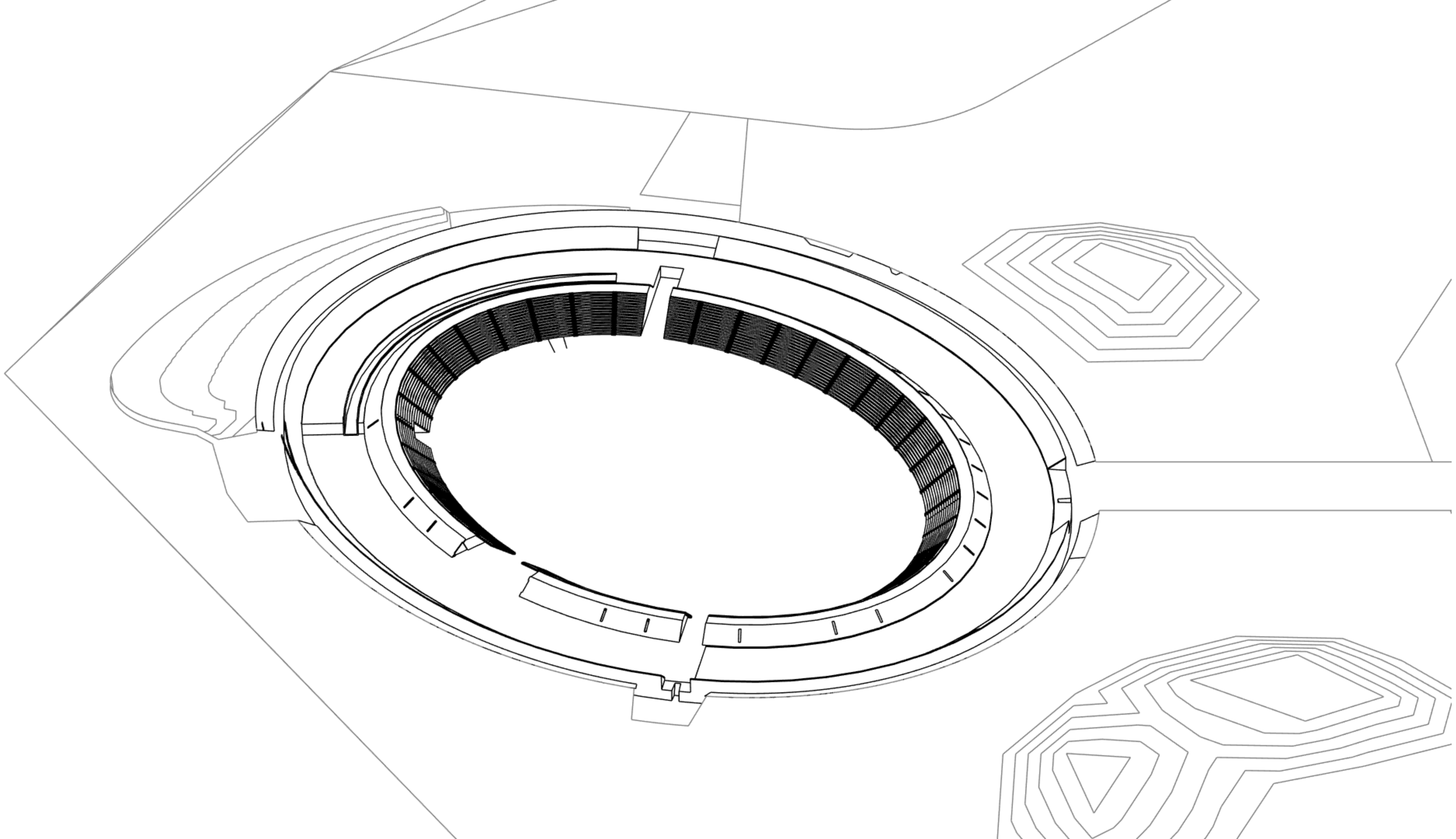
Design

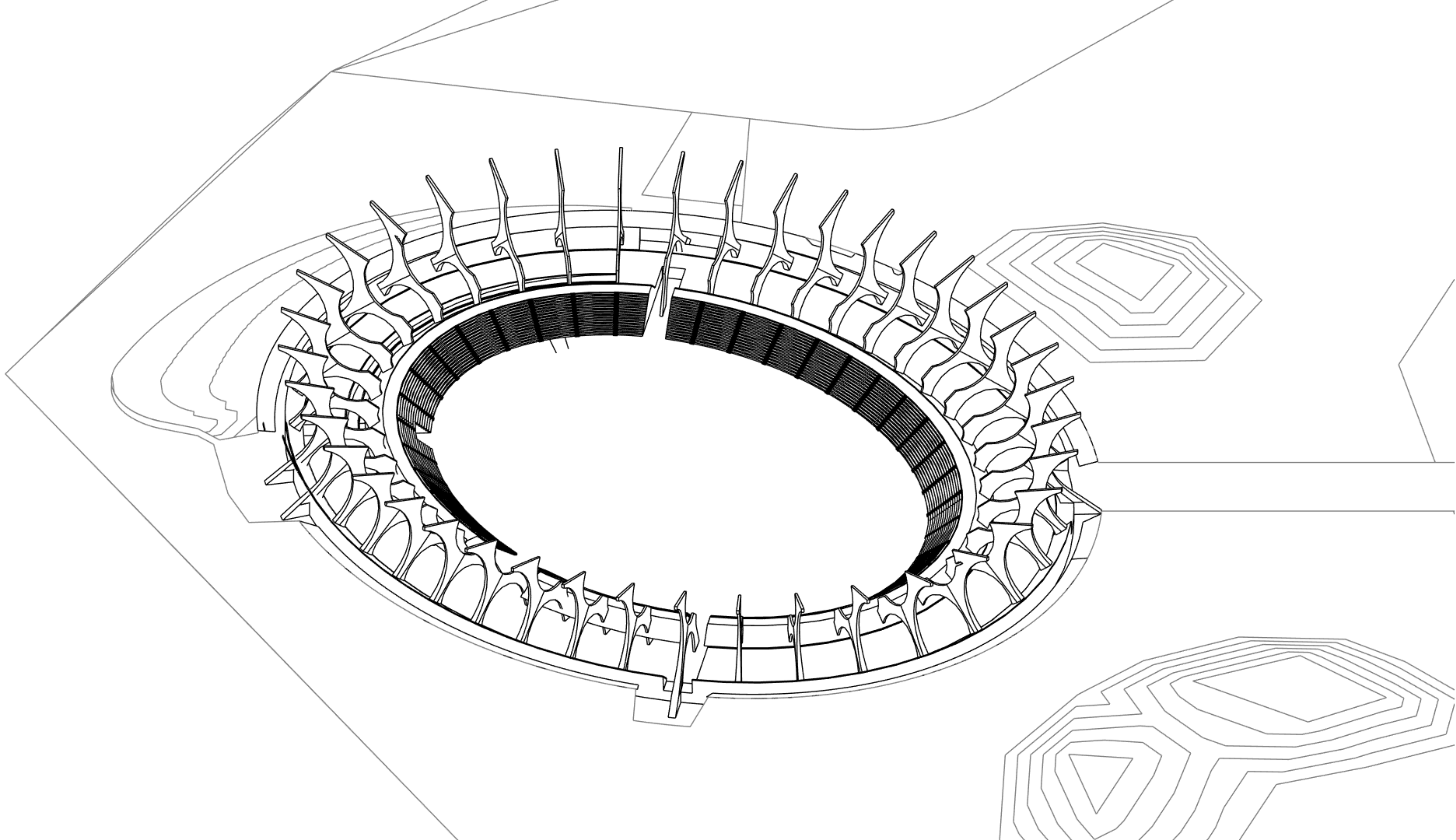


Design

build-up of the stadium





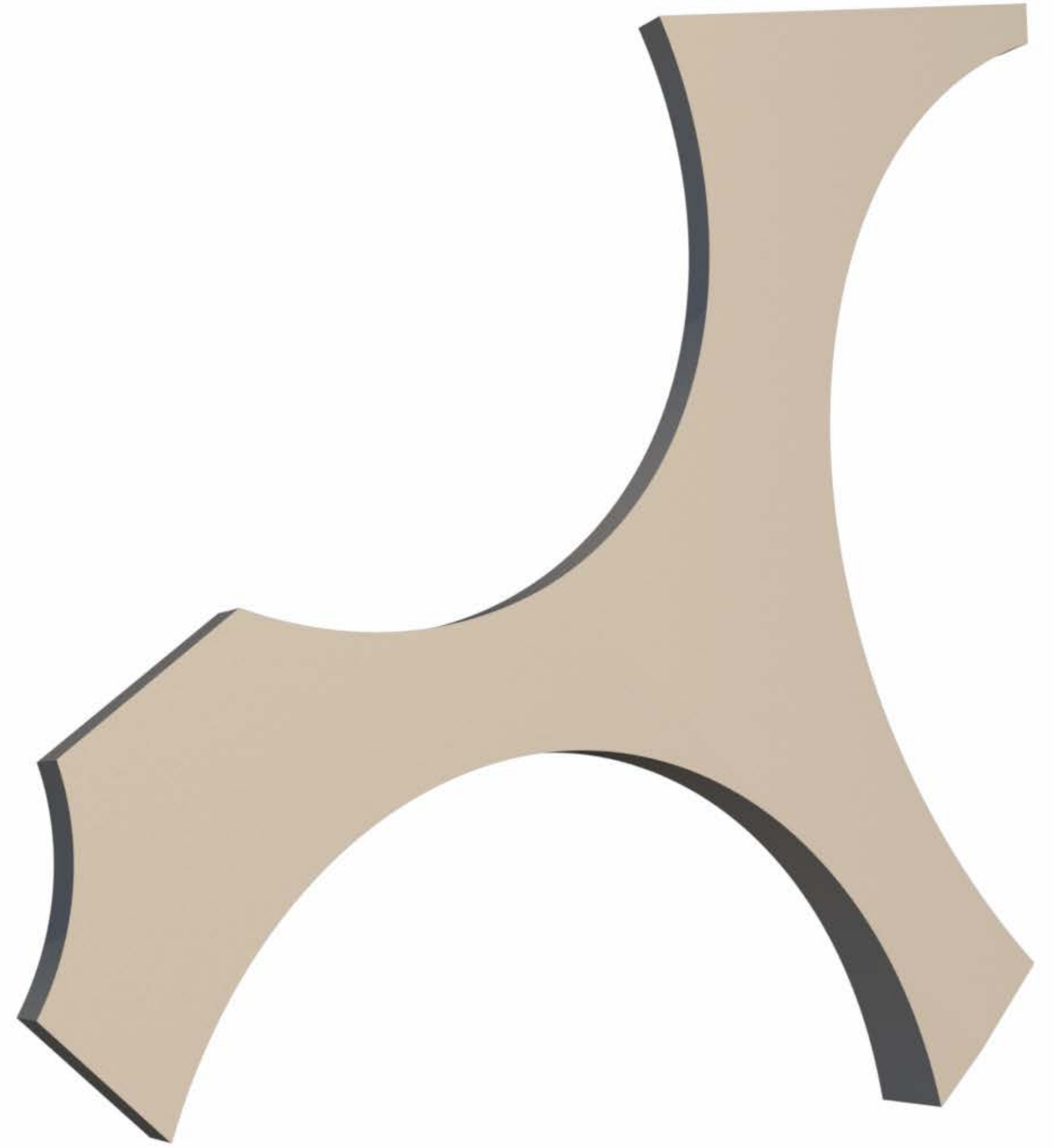
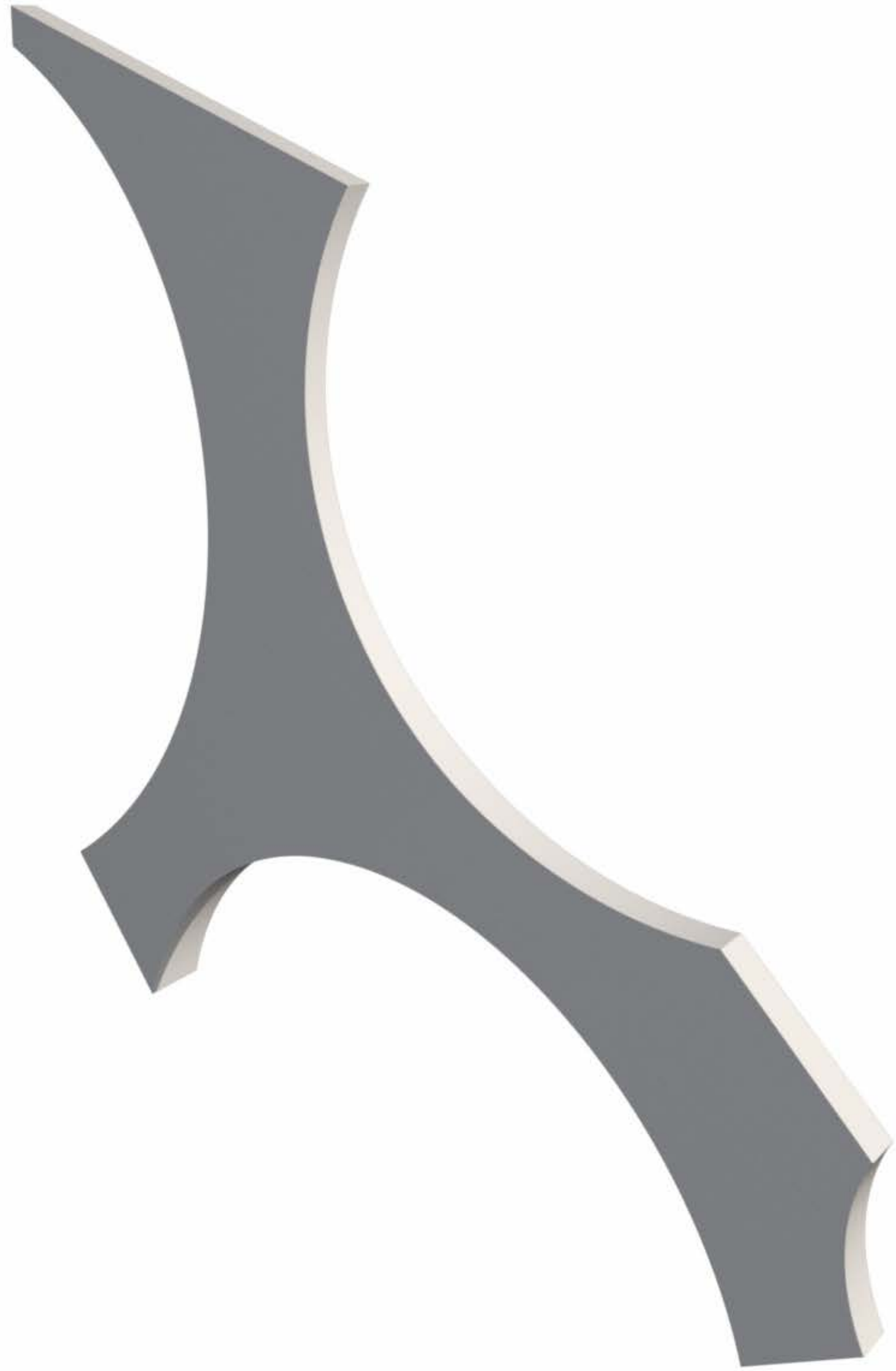




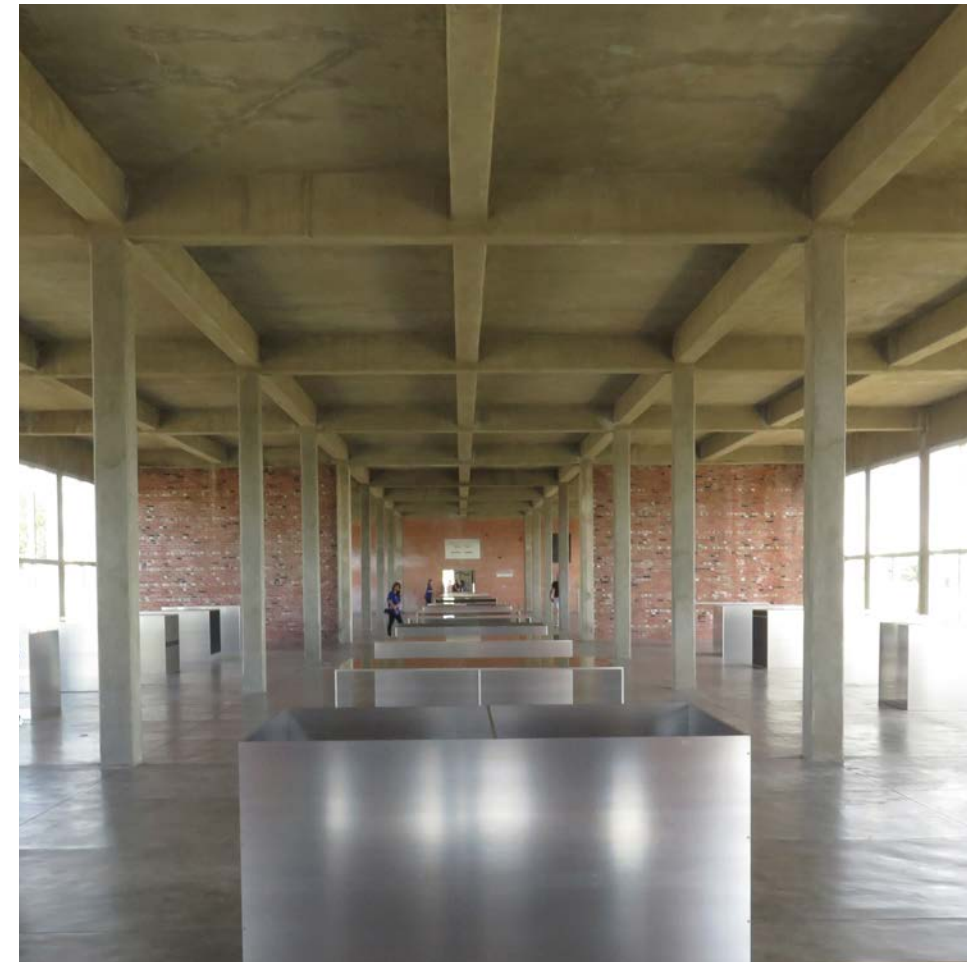
PIER LUIGI NERVI
ITALIAN STRUCTURAL ENGINEER AND ARCHITECT
1891 - 1979



Design



Design

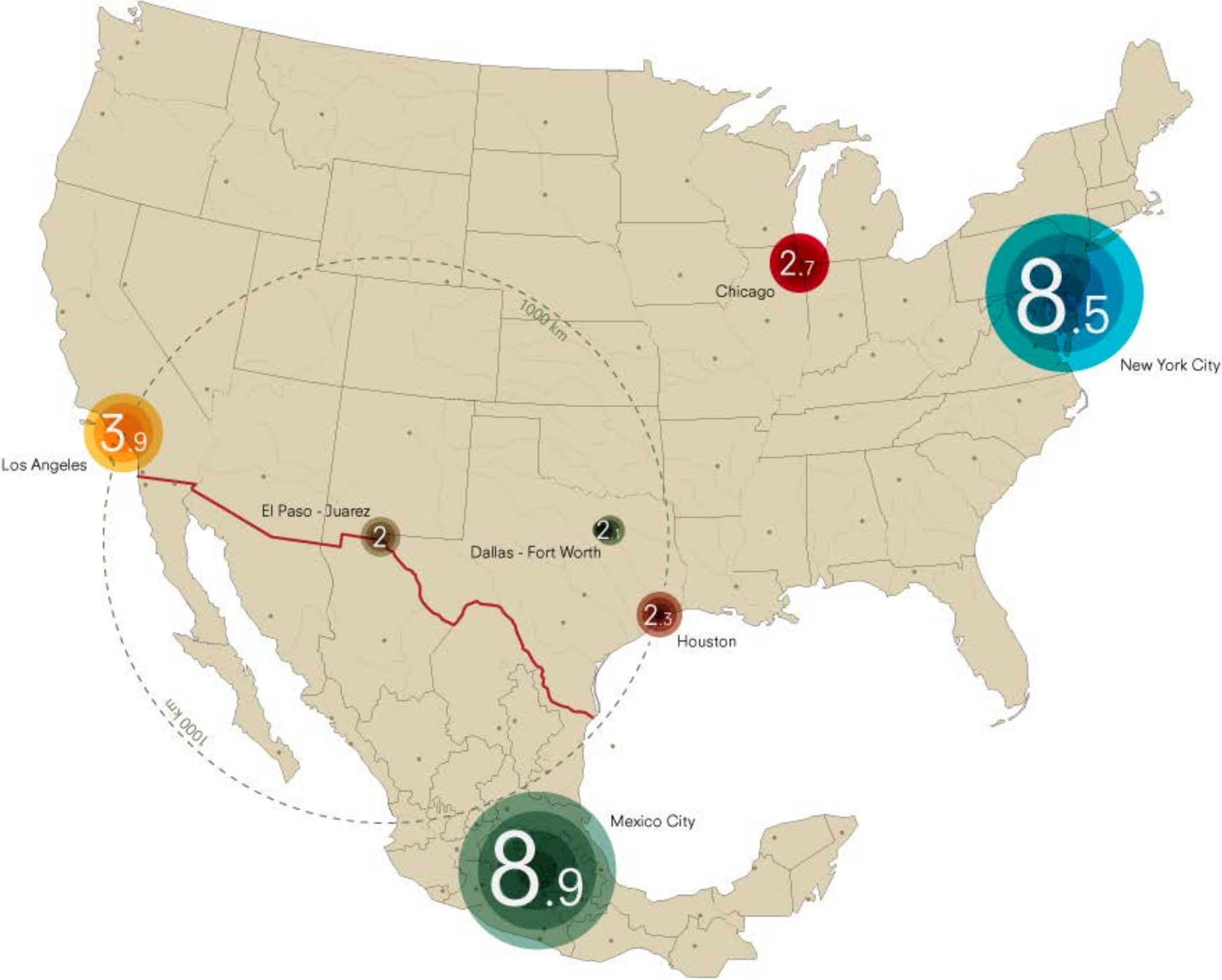


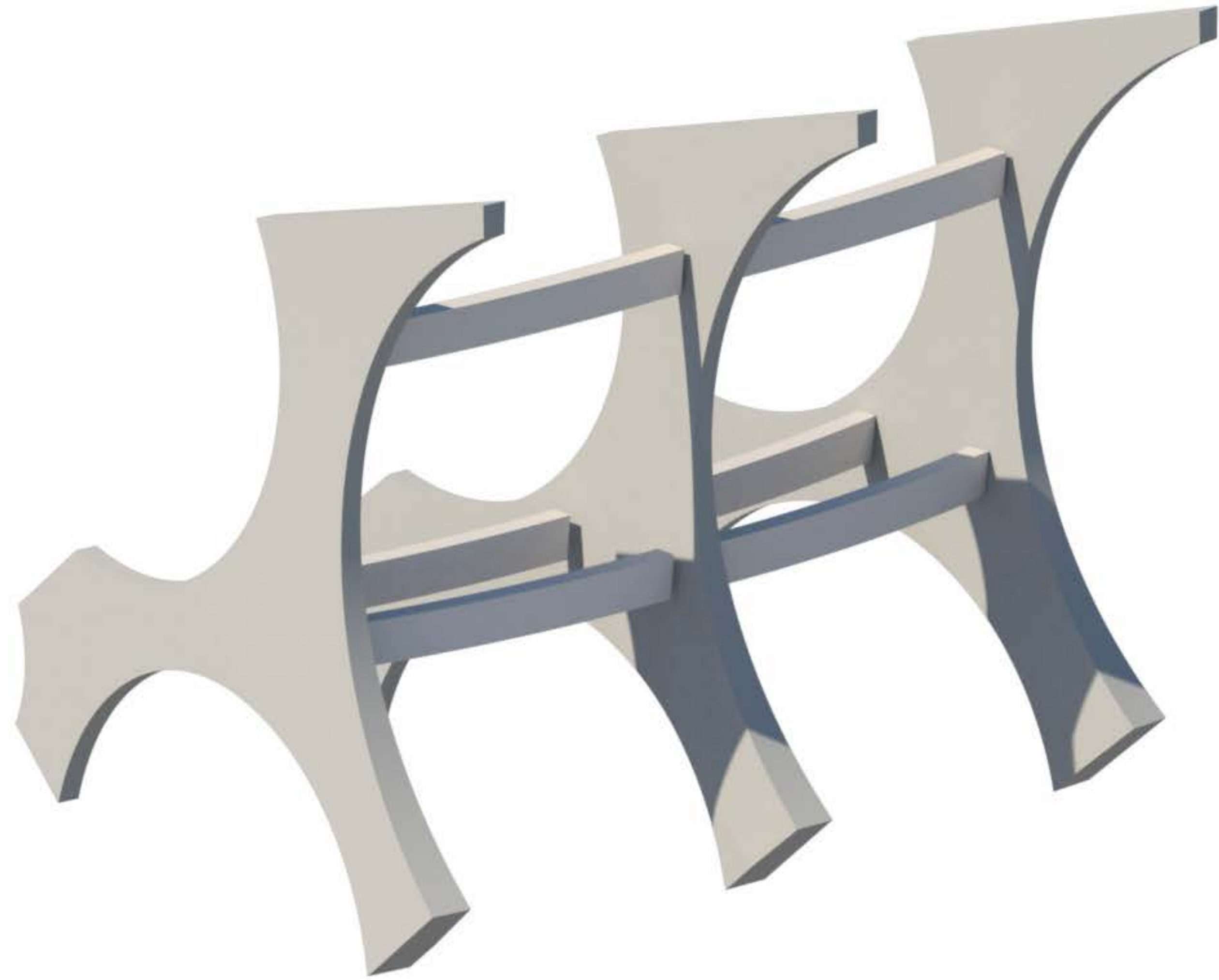
CAST IN SITU CONCRETE

Isolated location

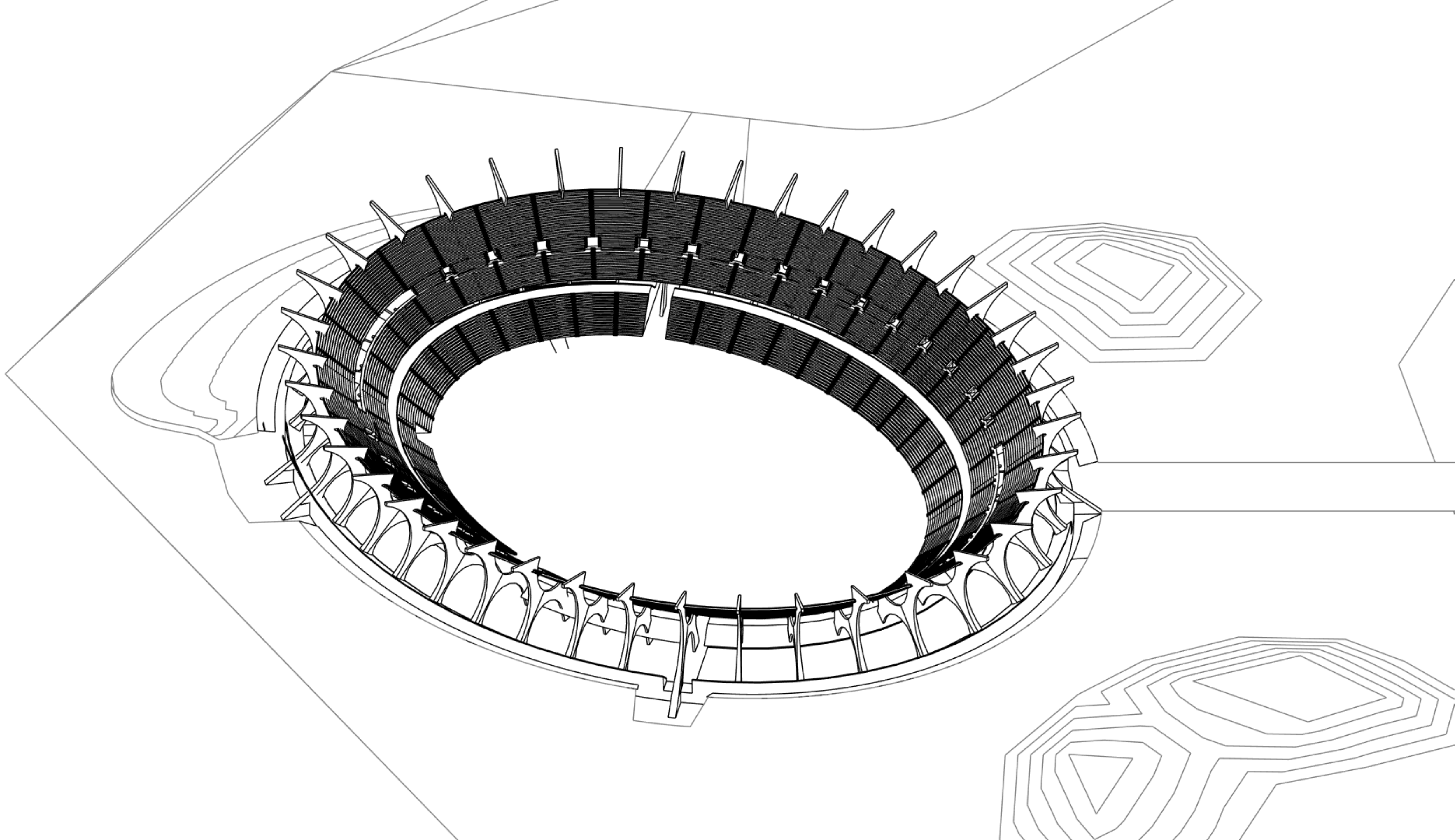


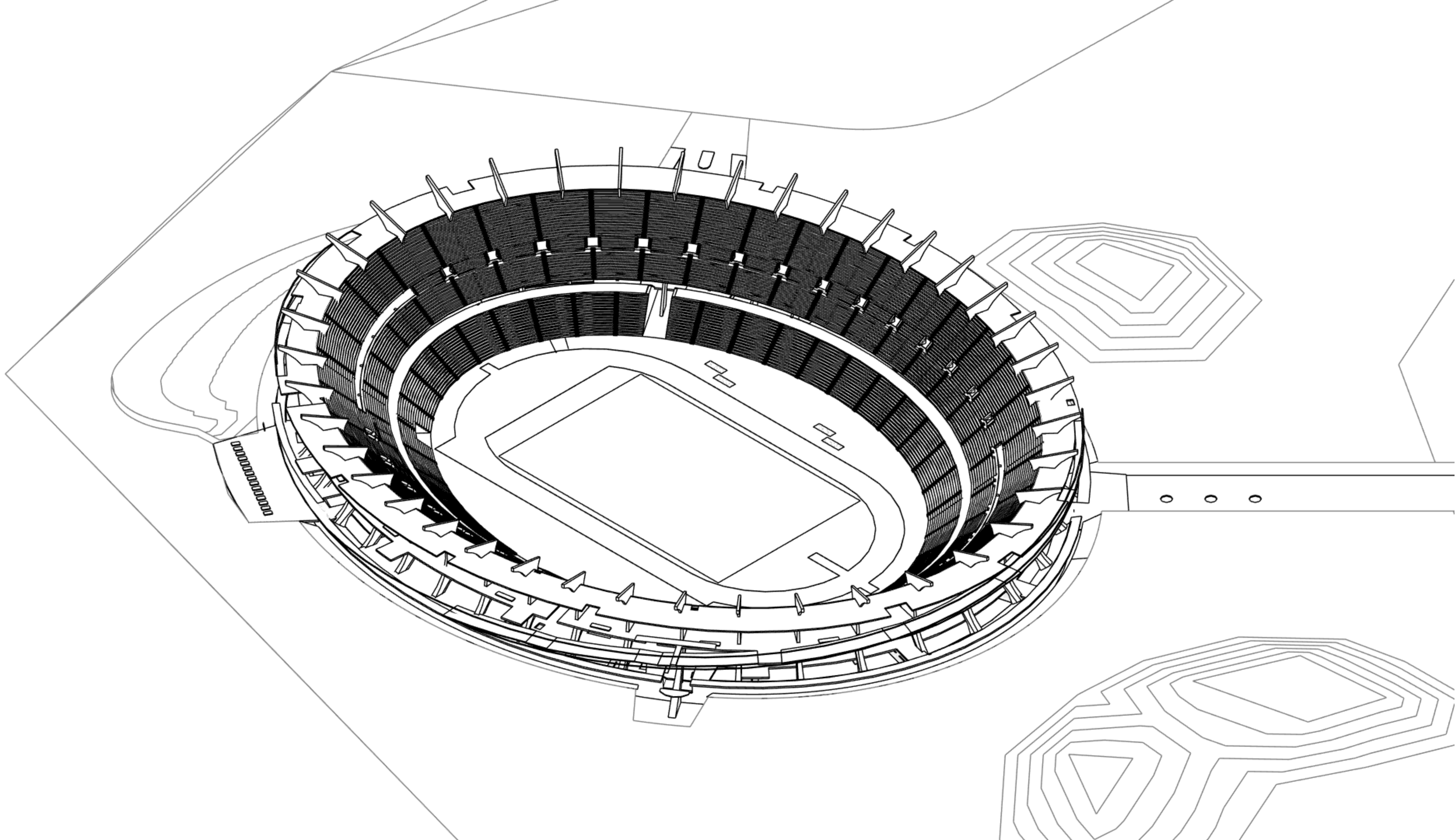
building materials and construction techniques that are common in the region

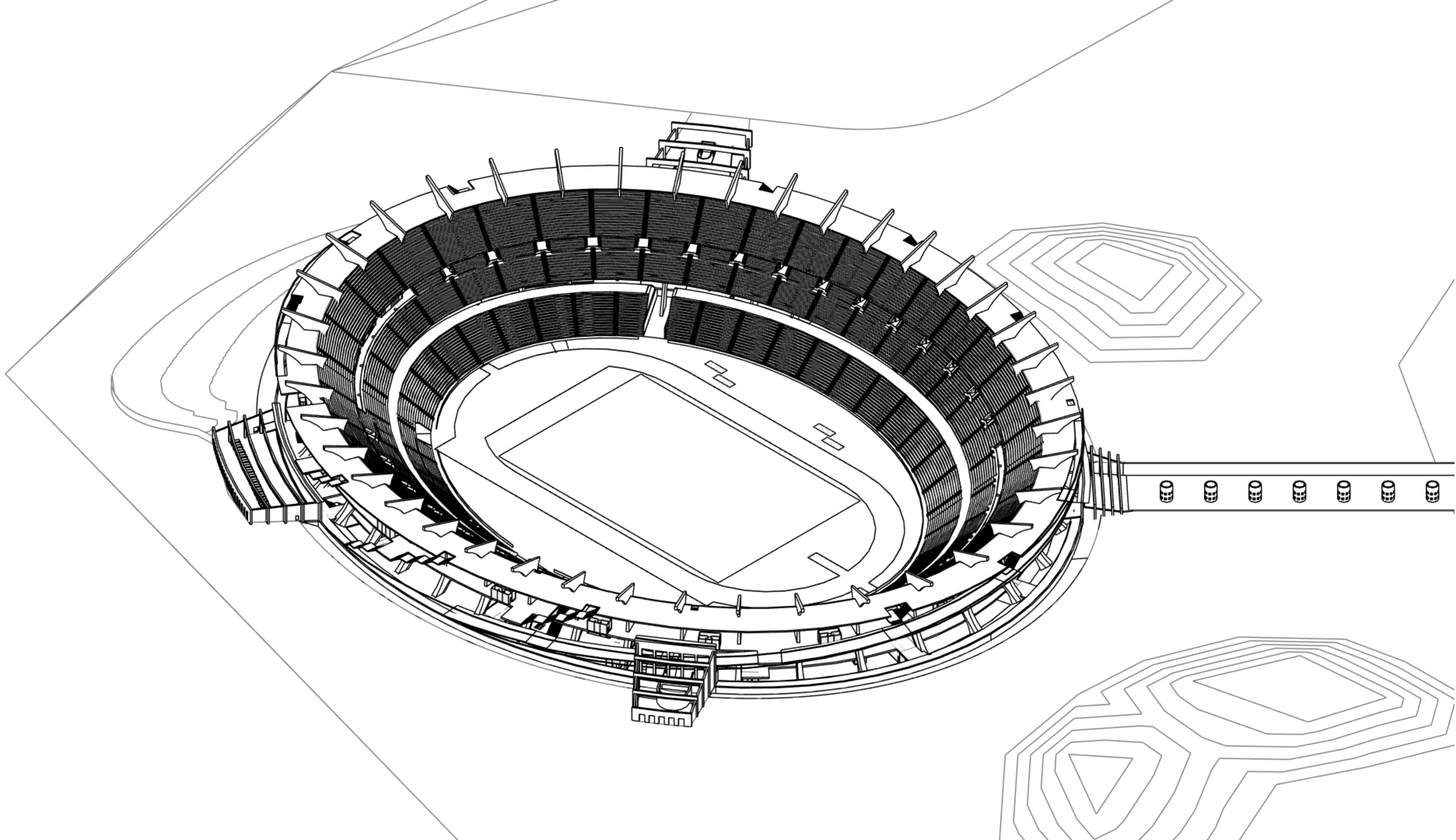


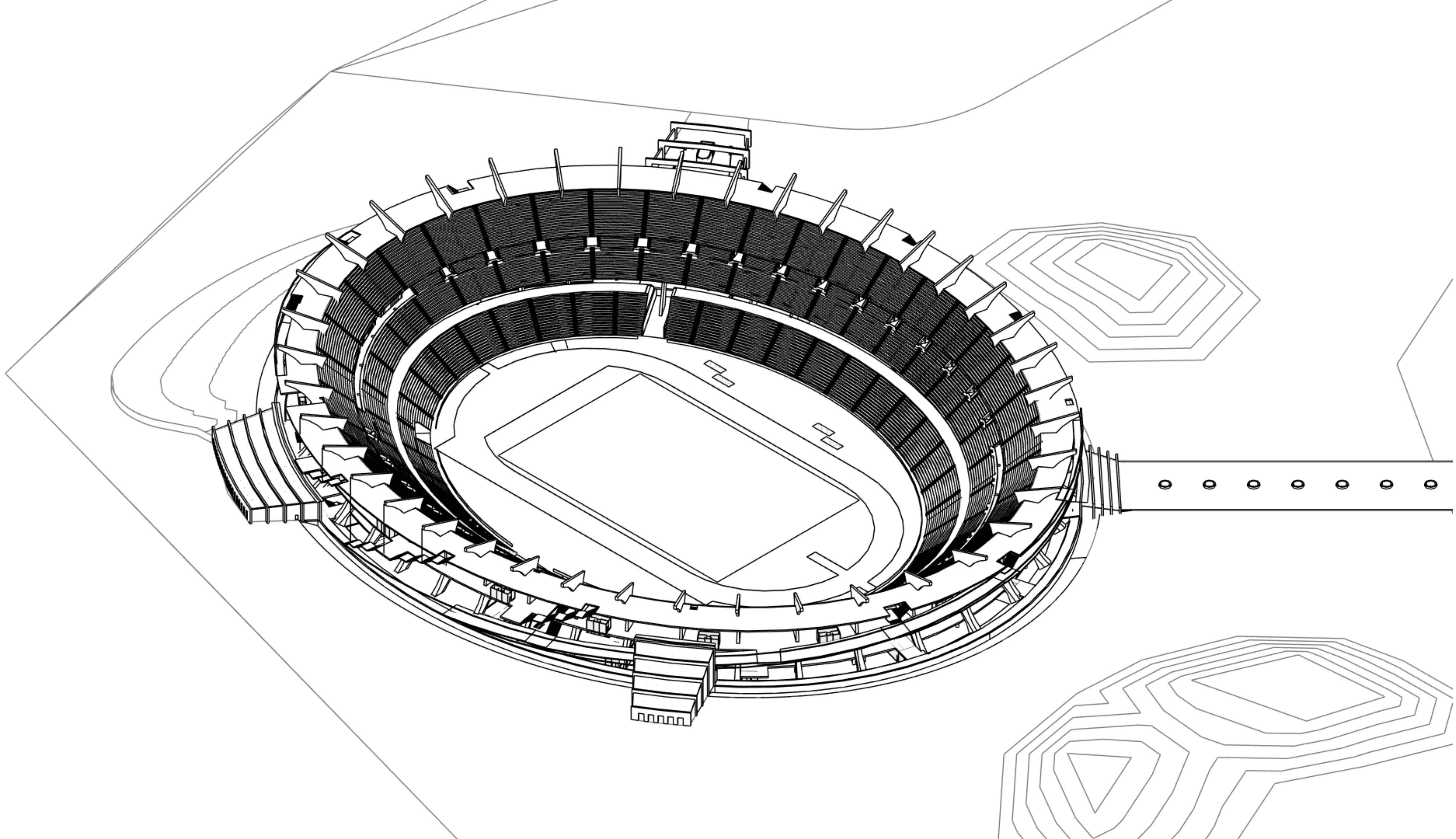


Design



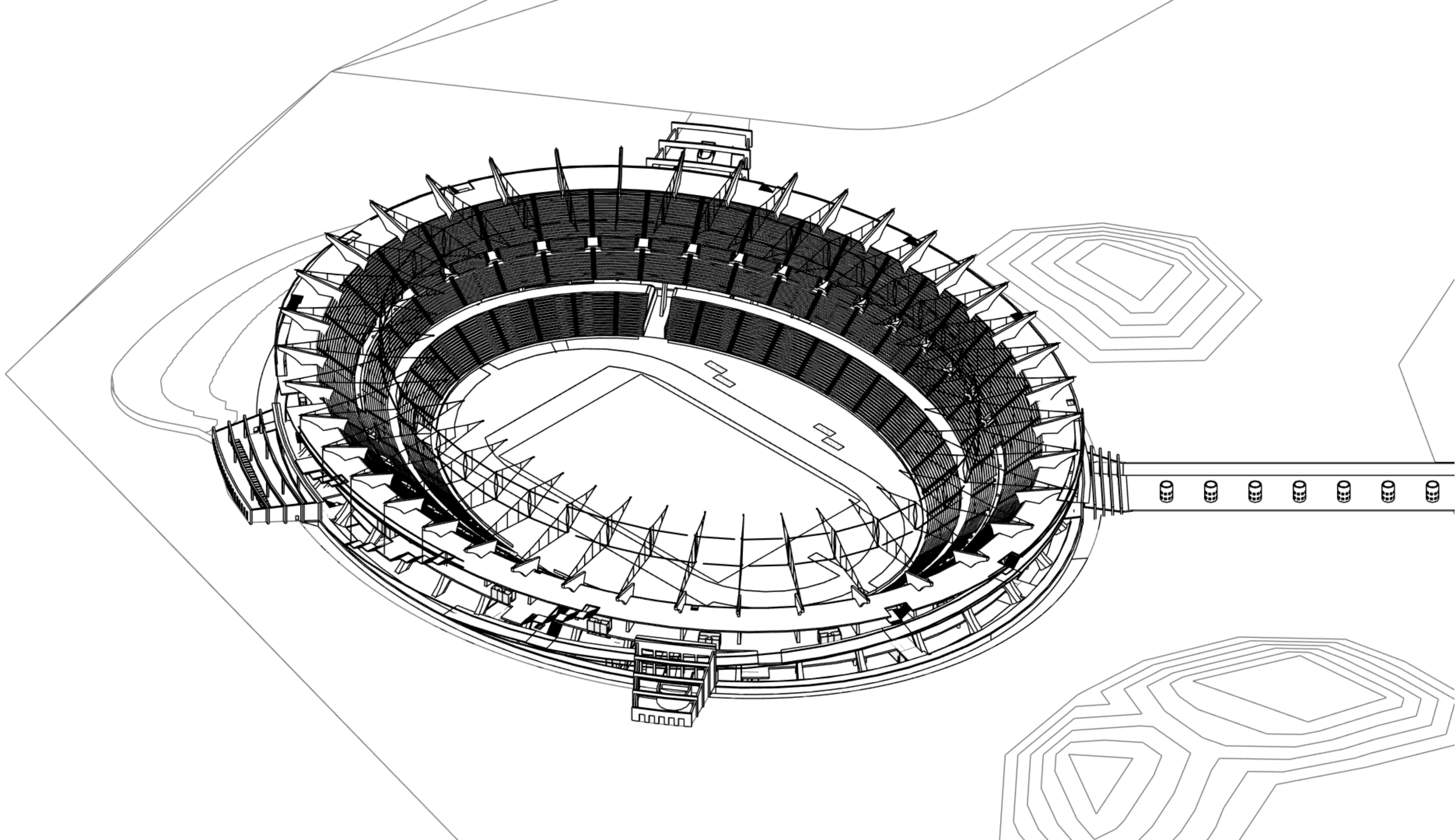






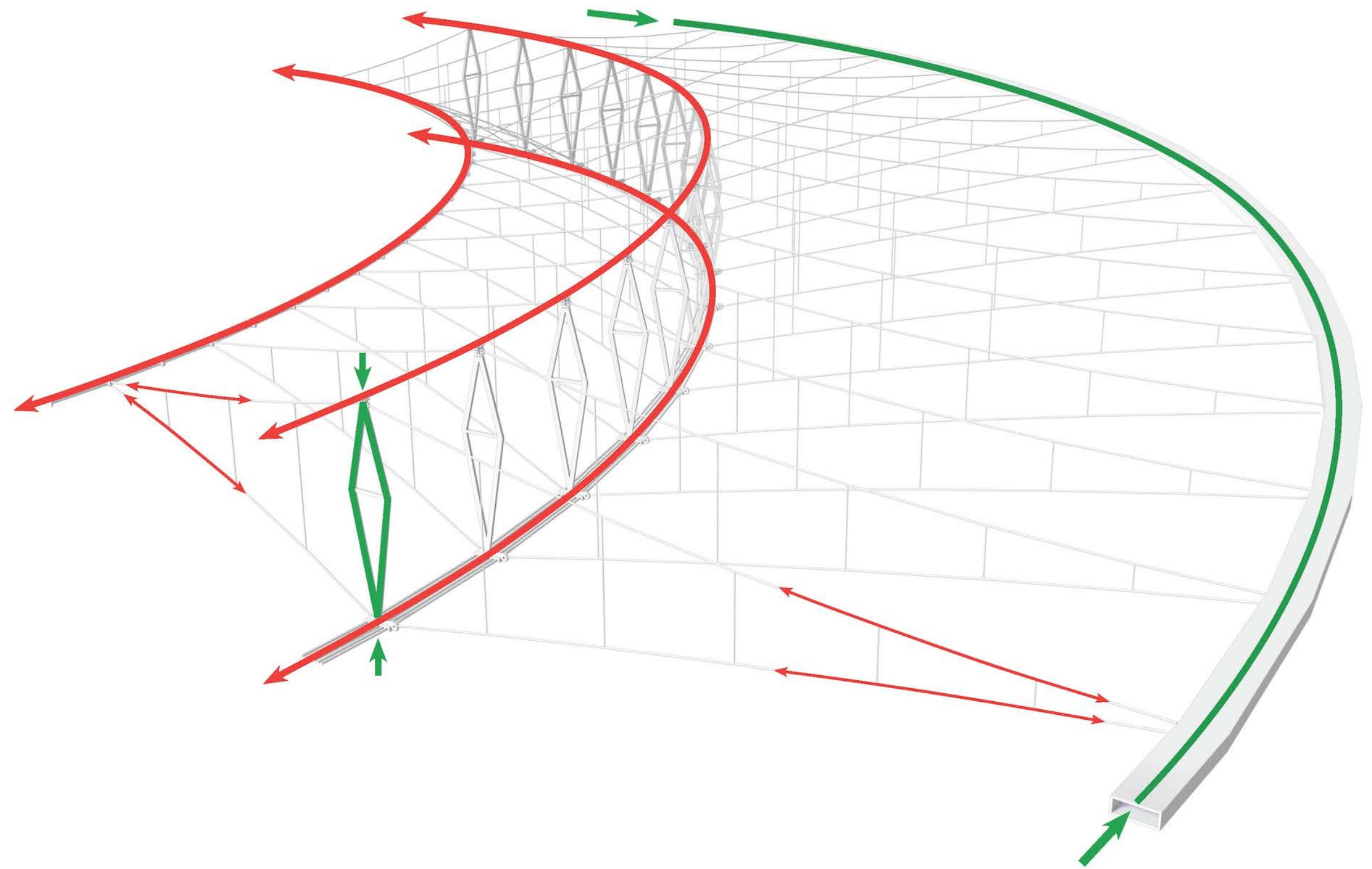


CMU: Concrete Masonry Unit

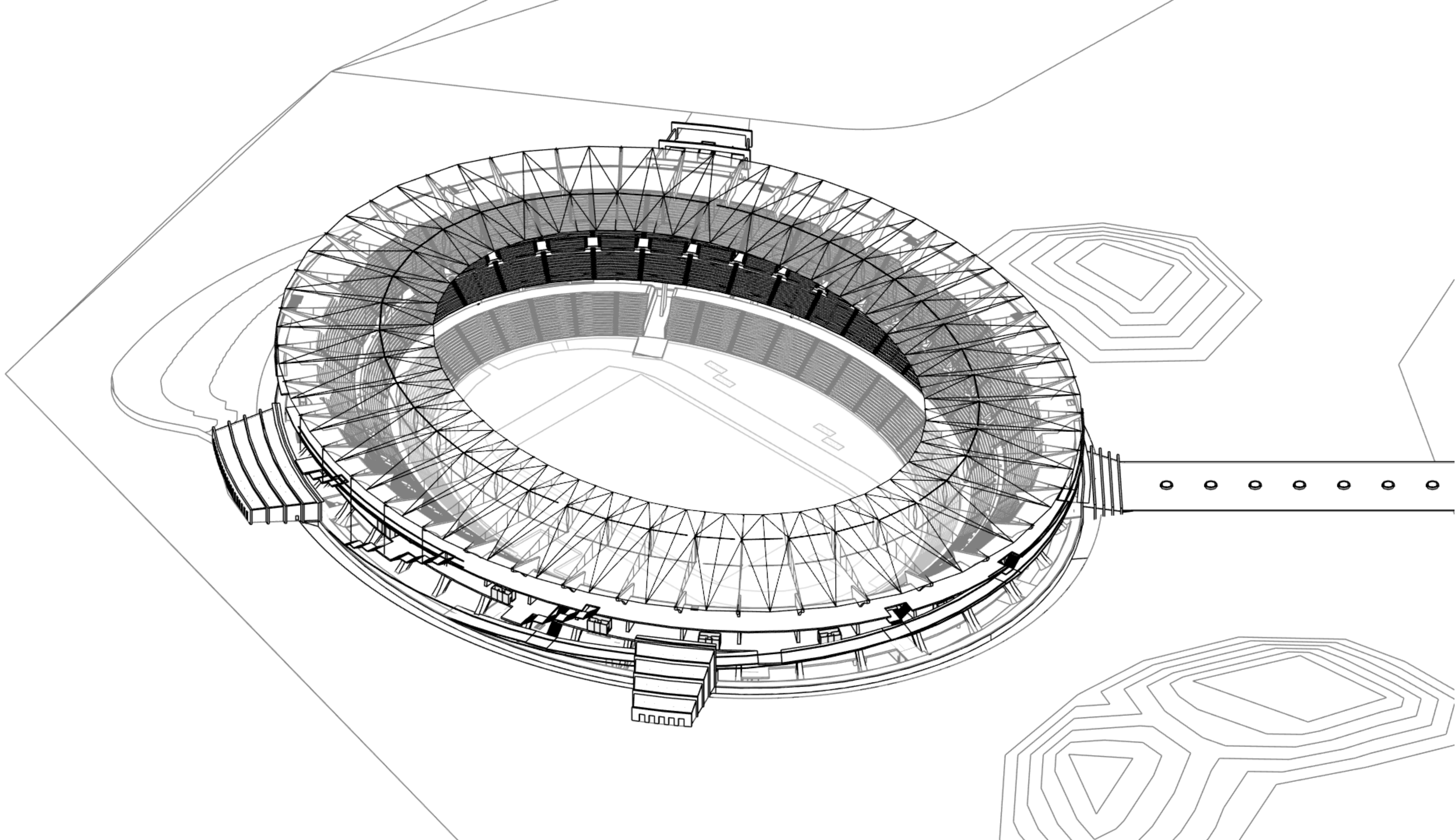




Design



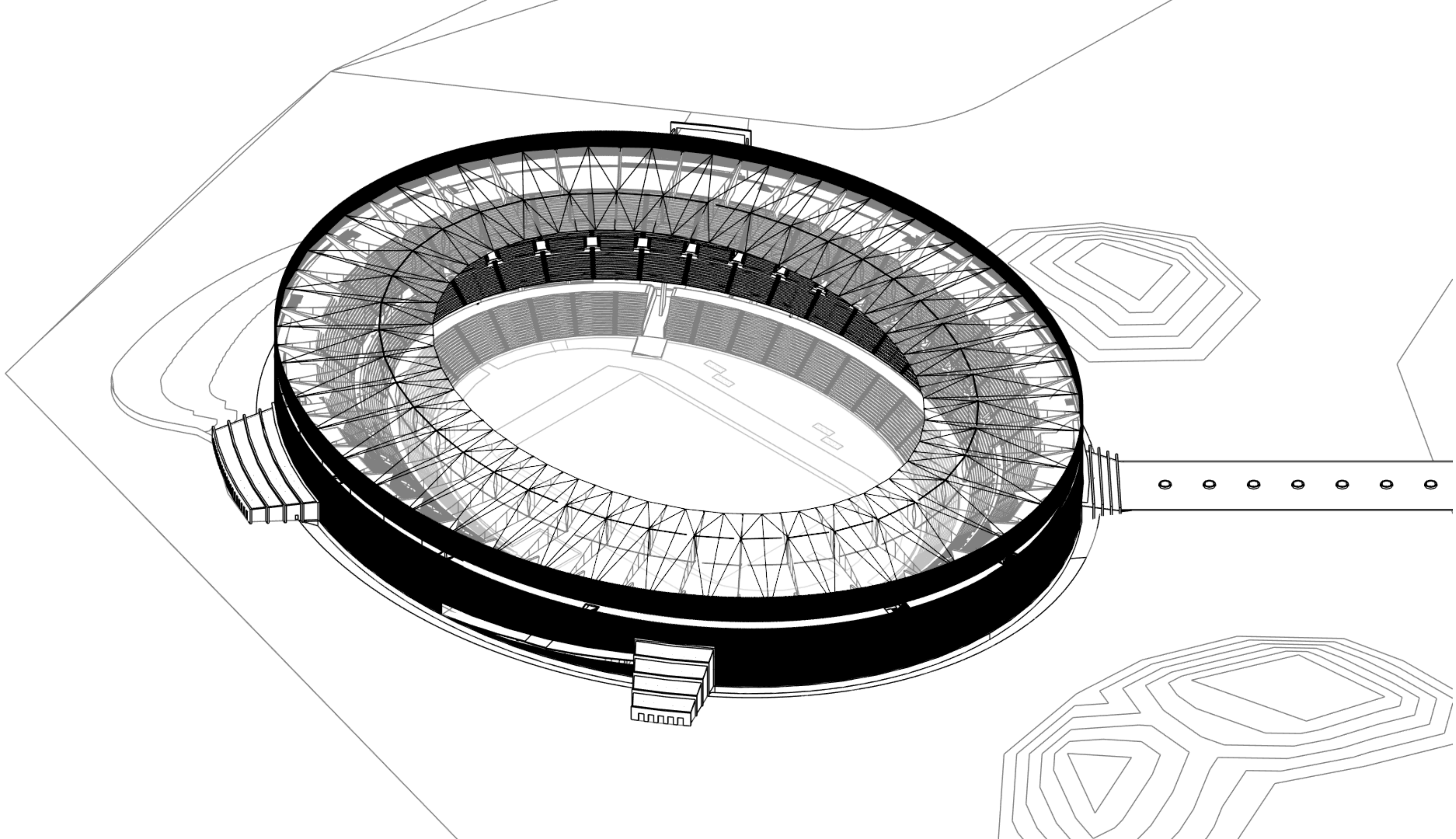
Design

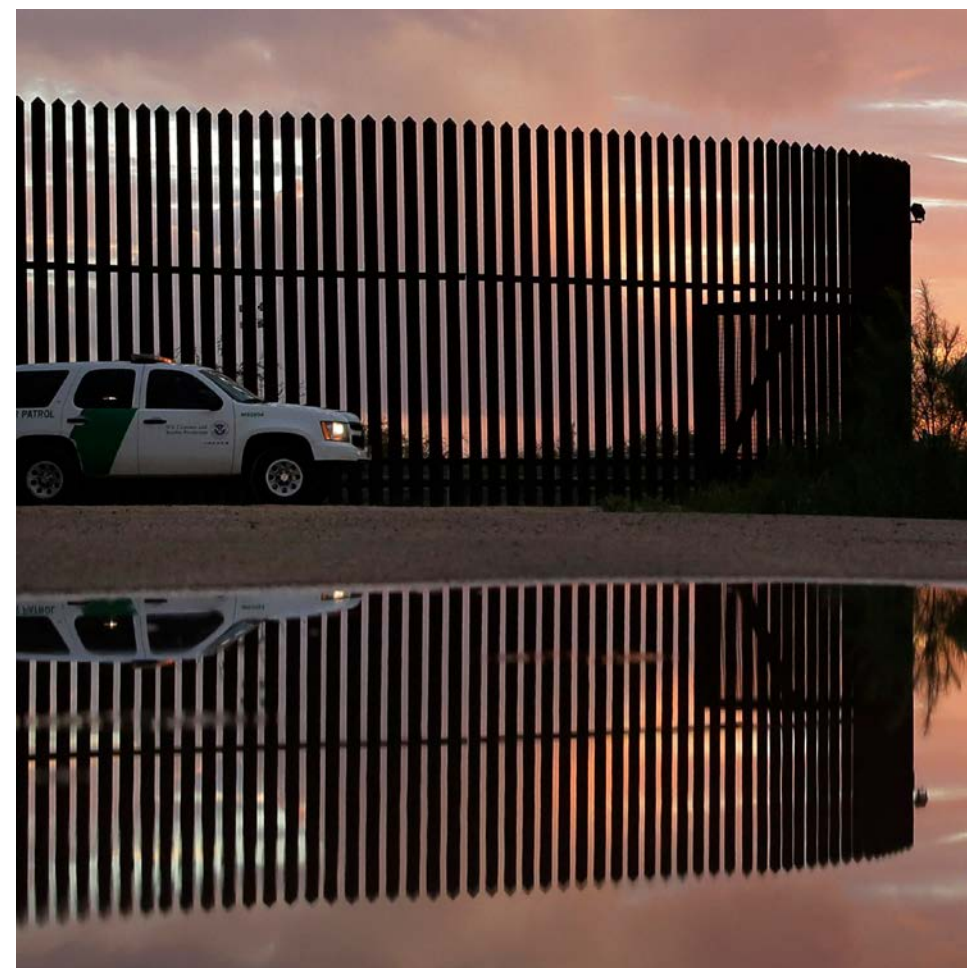




- PTFE: POLYTETRAFLUOROETHYLENE
- DURABLE
 - WEATHER RESISTANT
 - APPLICABLE IN ANY CLIMATE
 - PROJECT LIFE EXPECTANCY: >30 YEARS

Design

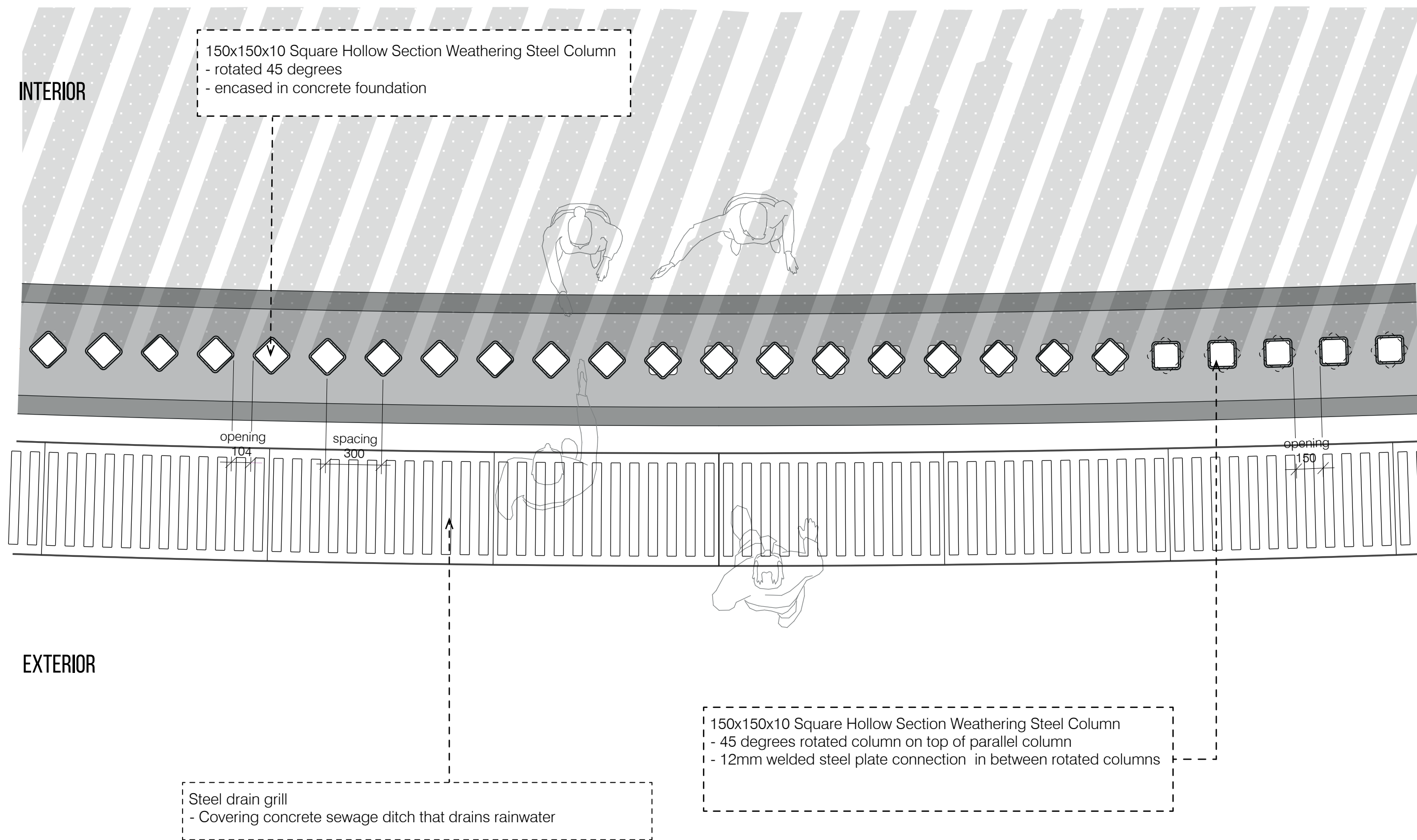


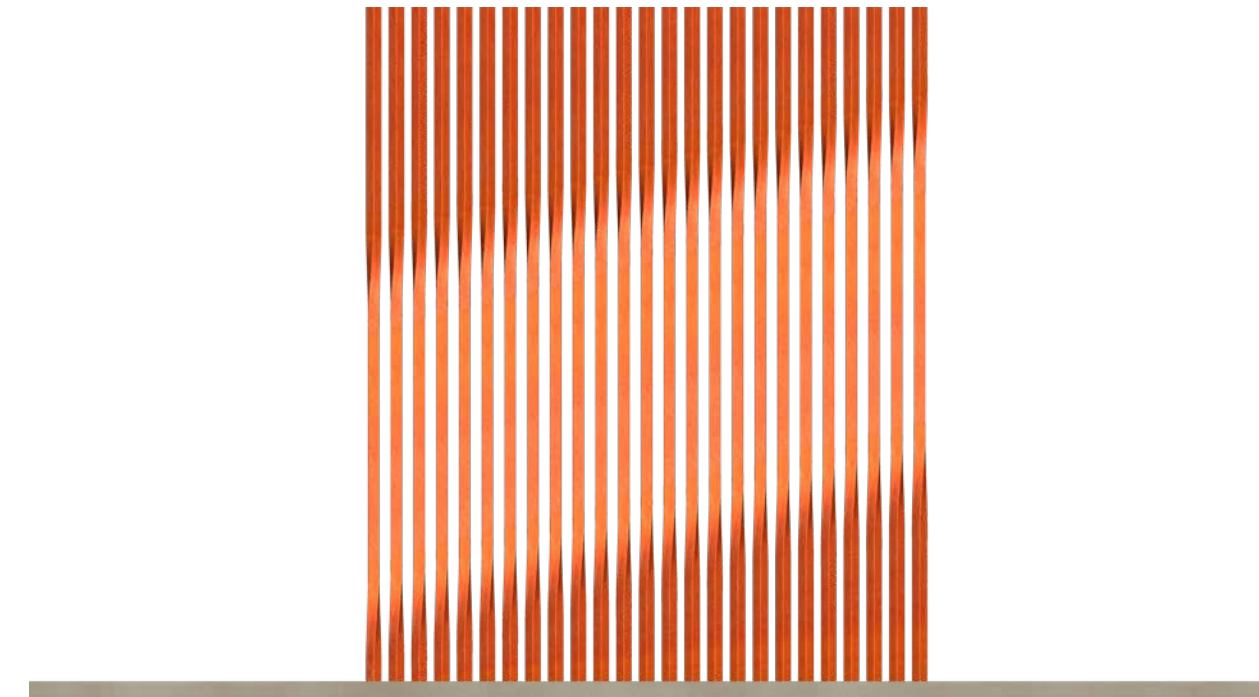
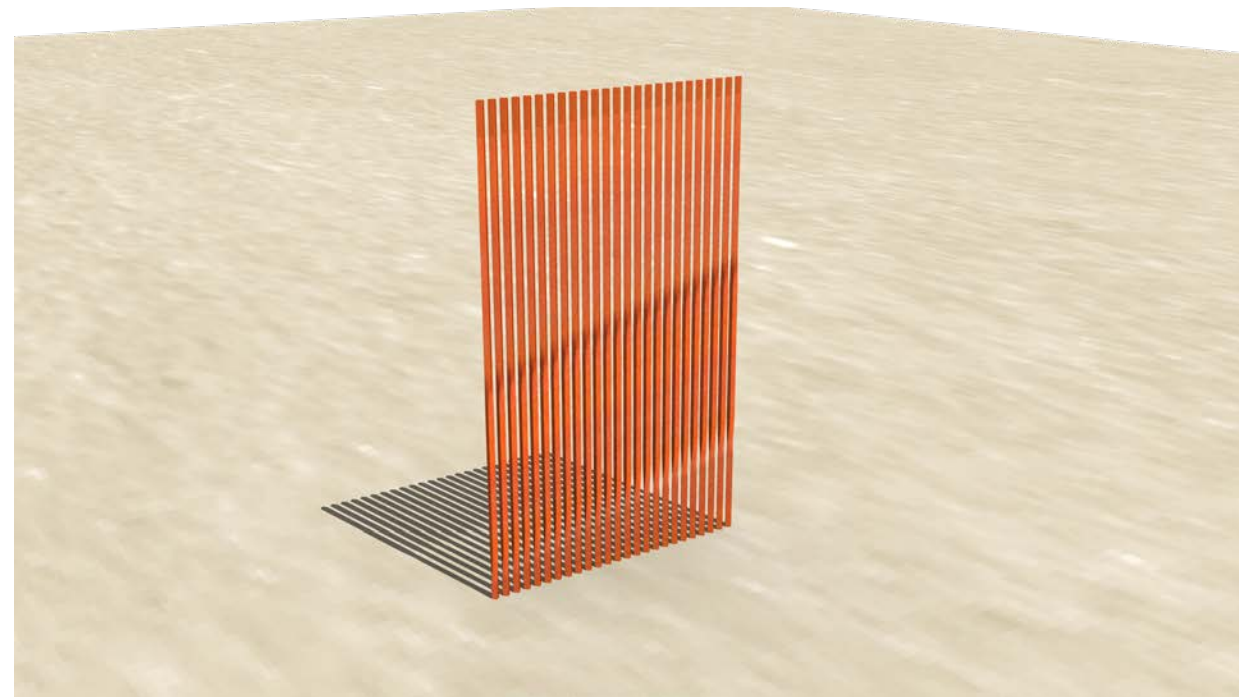
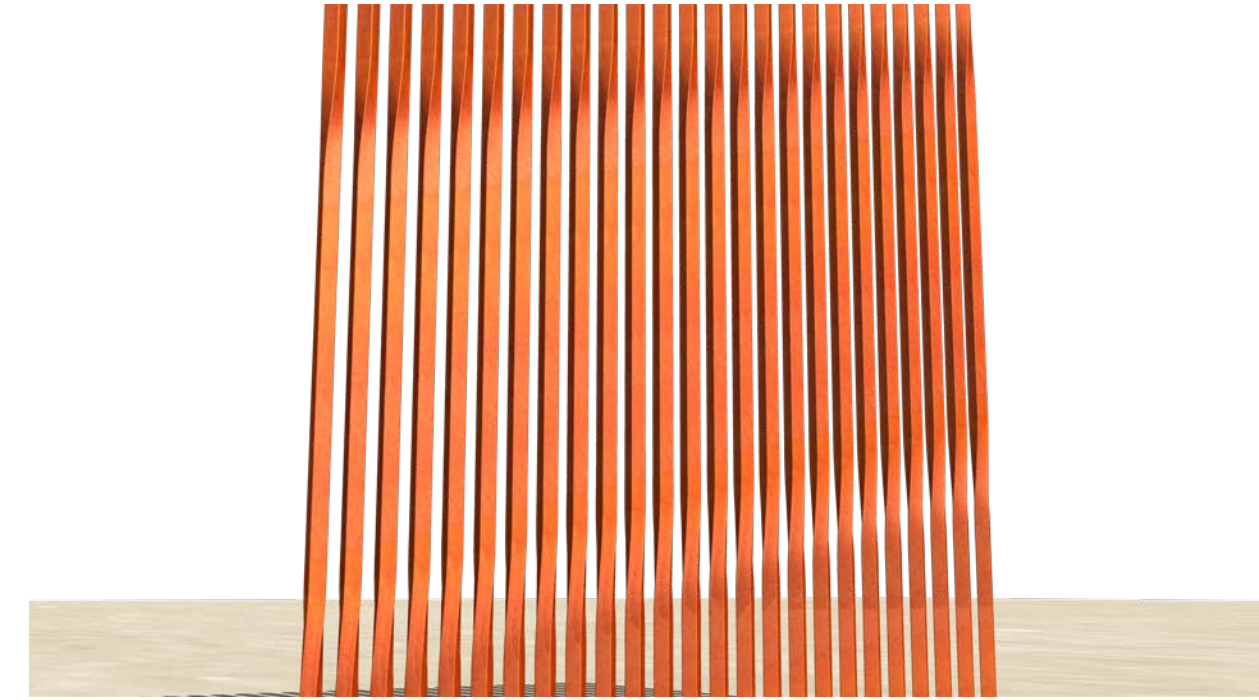
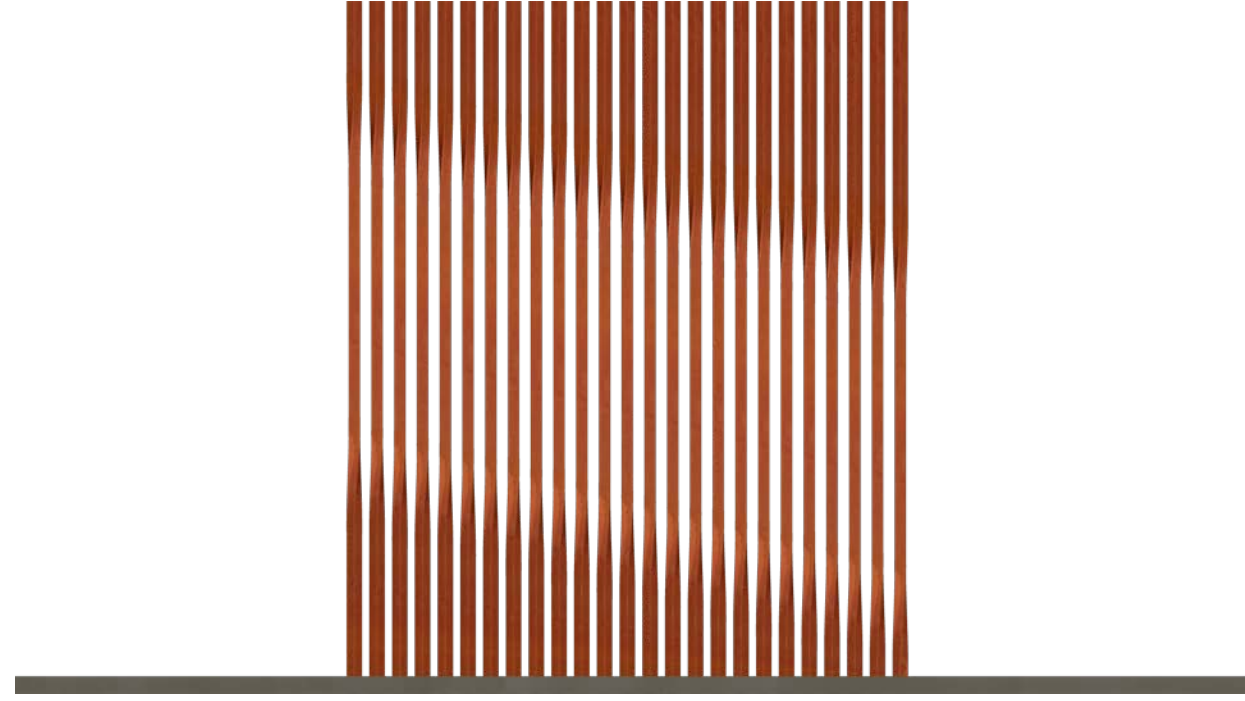


Design

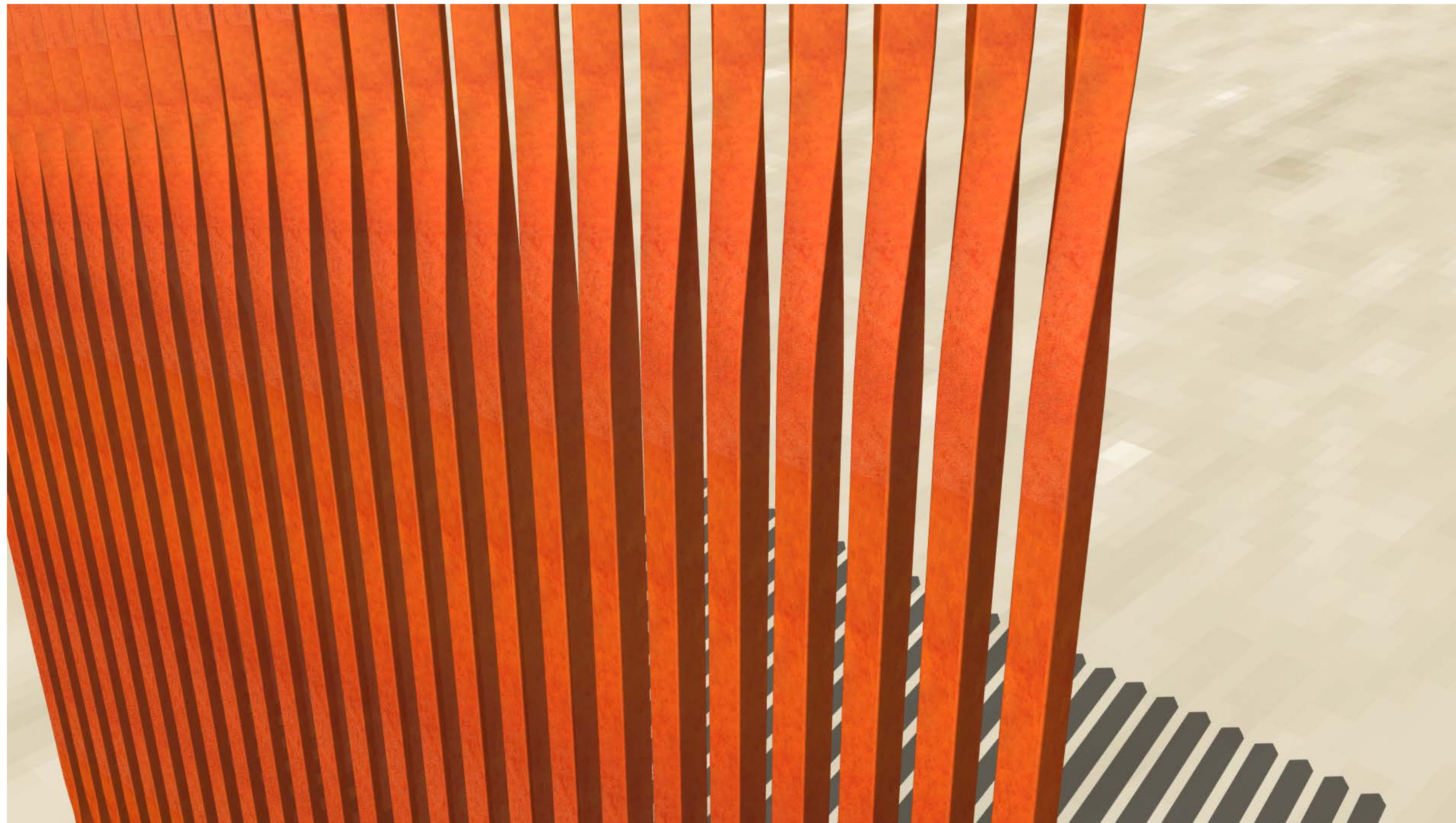


Design

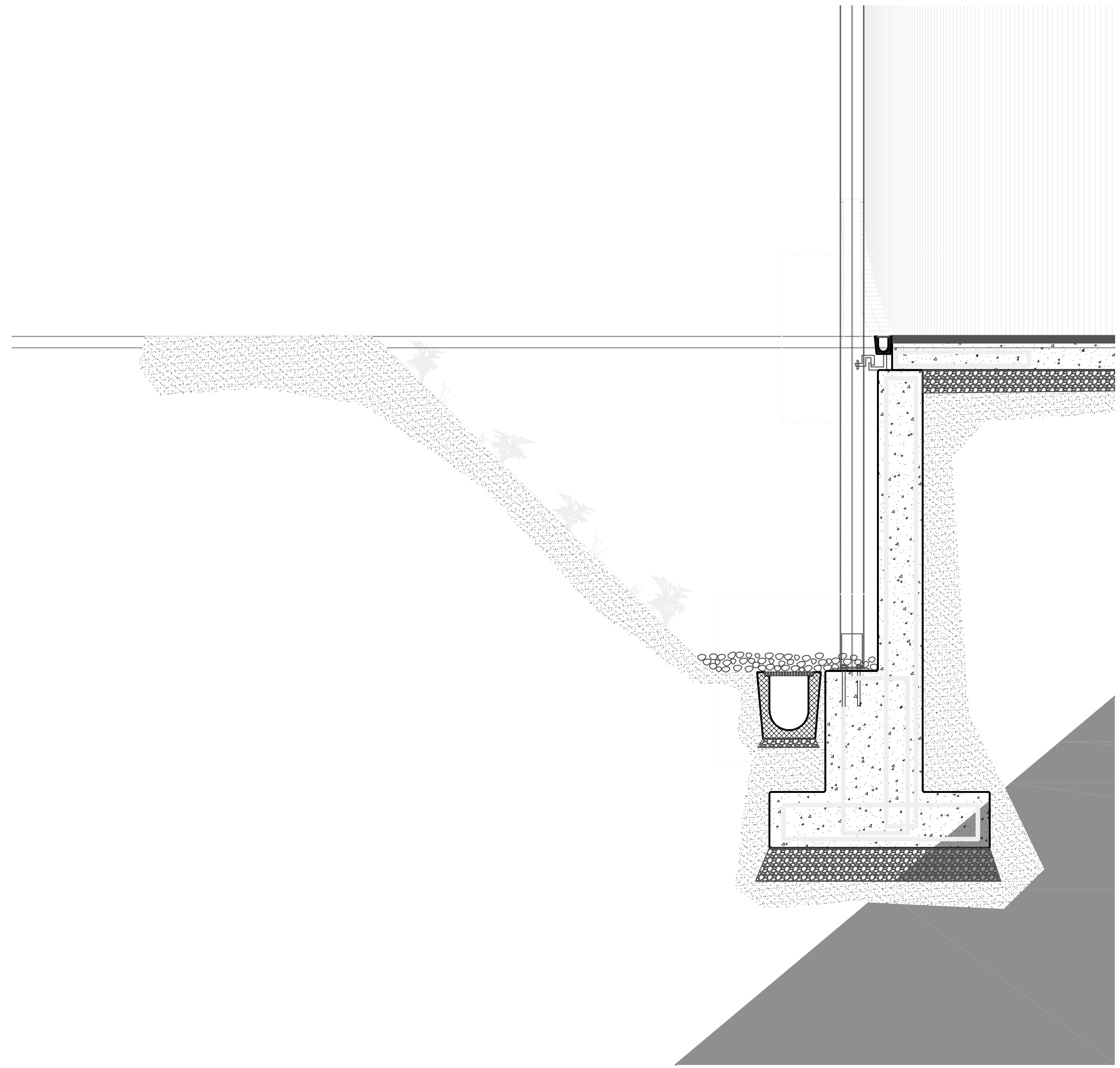
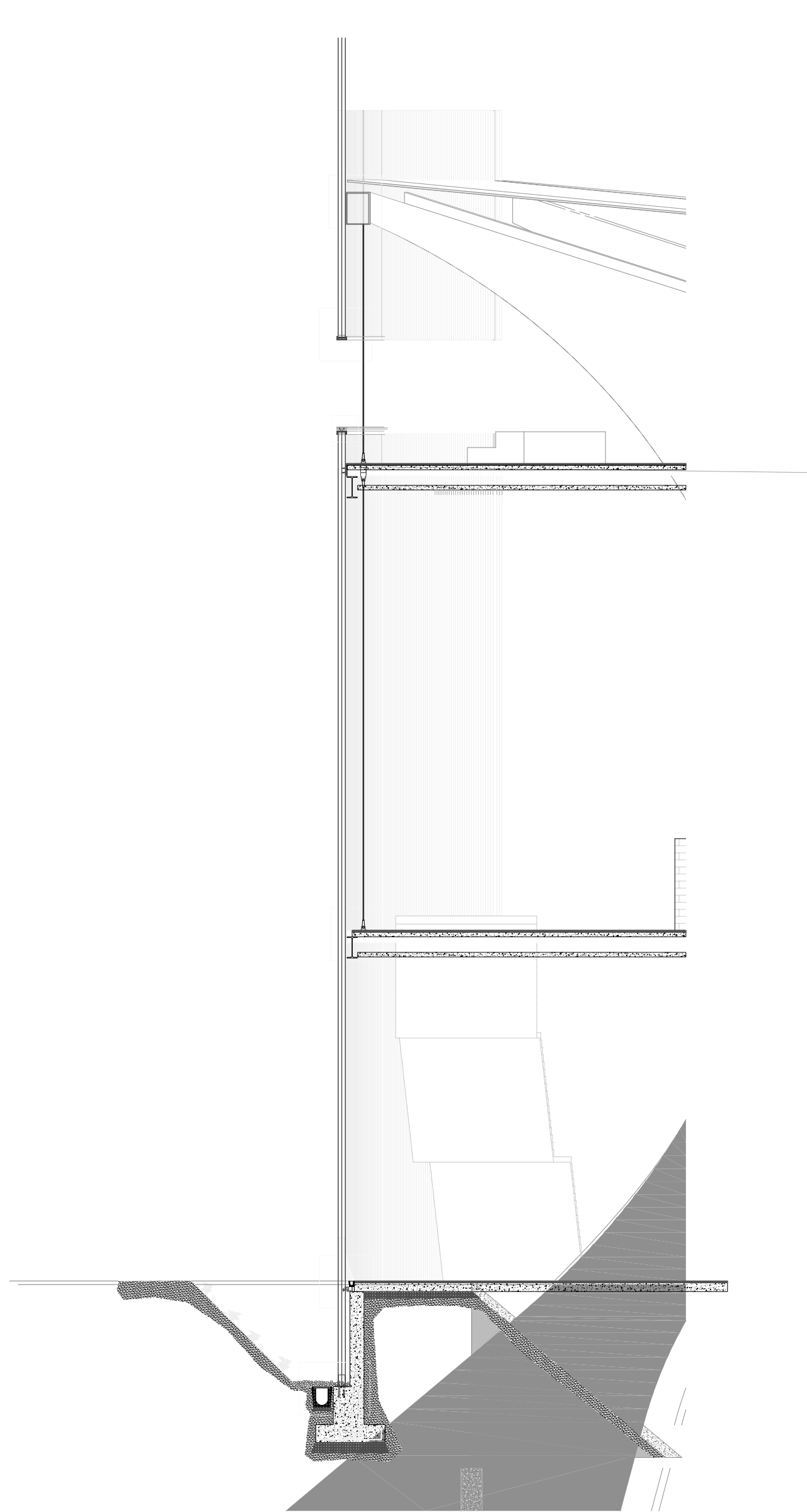




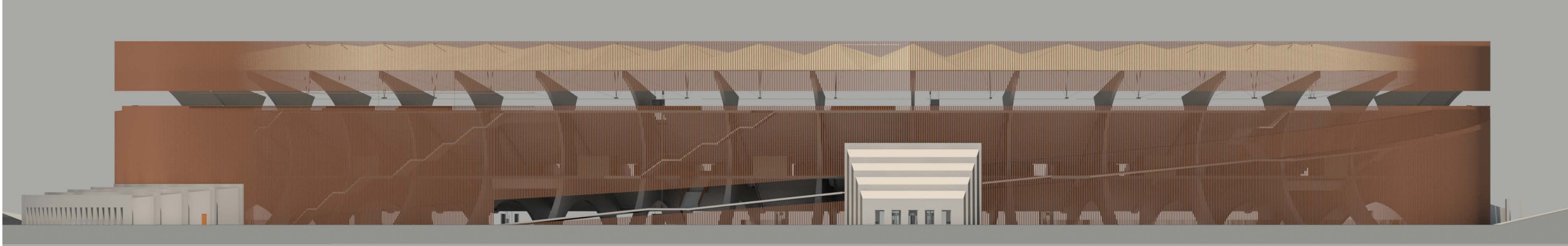
Design

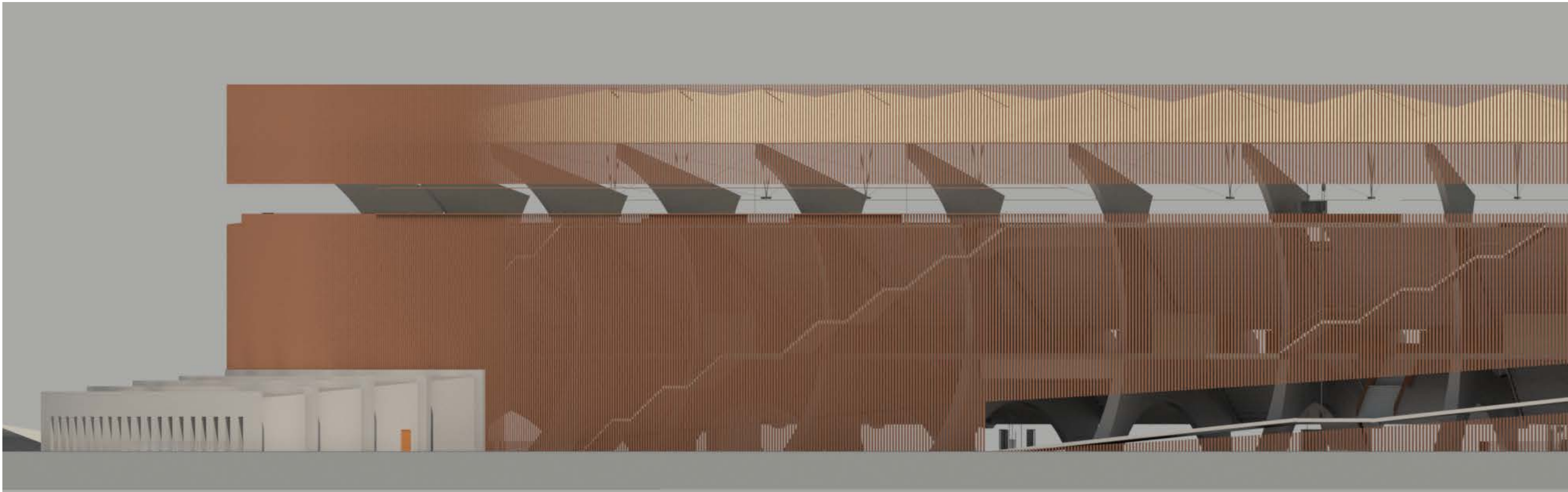


Design

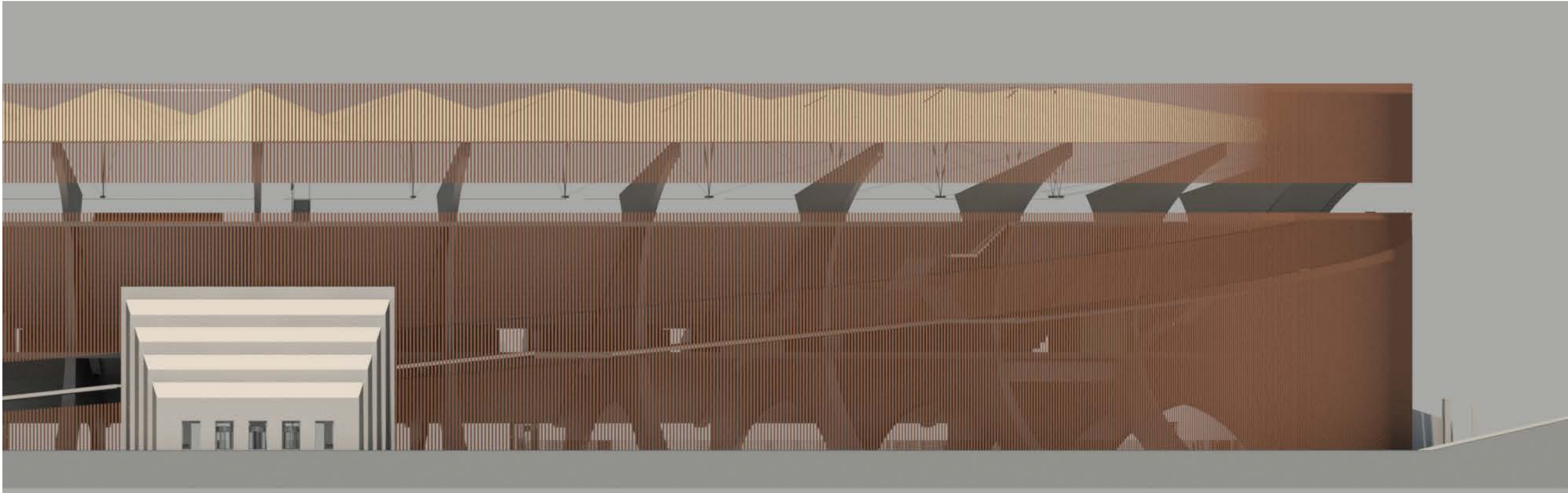


Design

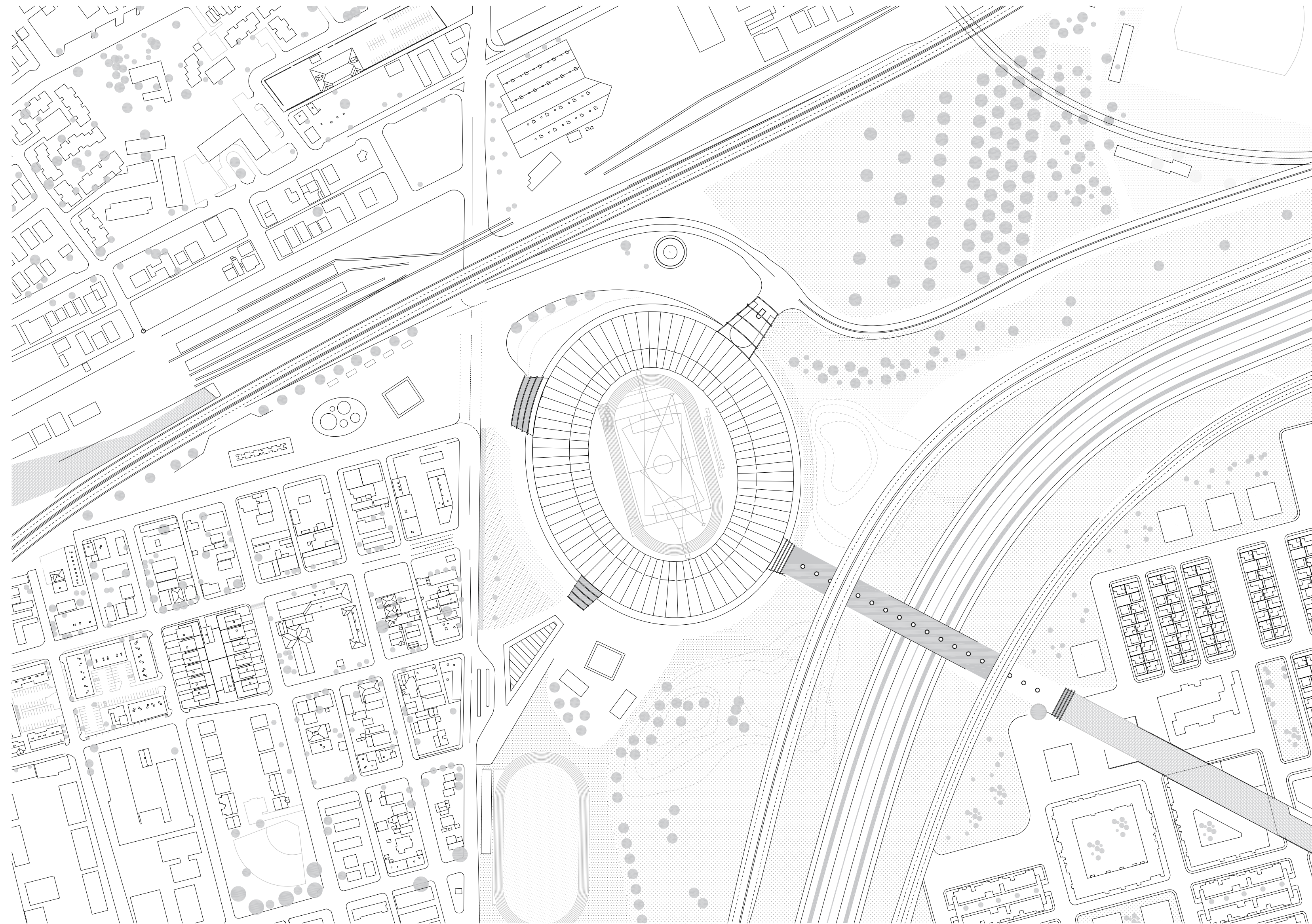




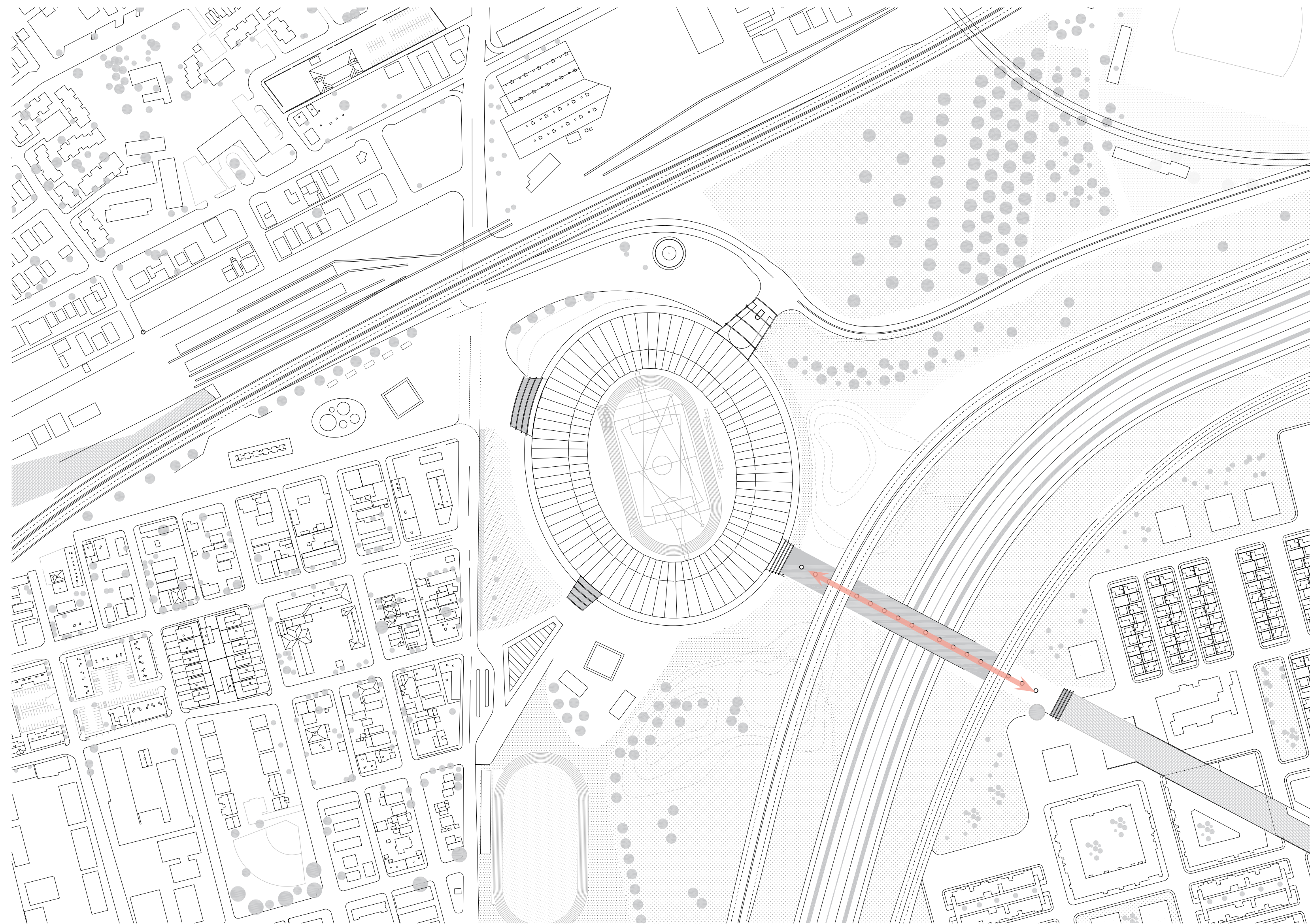
Design



Design



Design



Mexican
underground
entrance

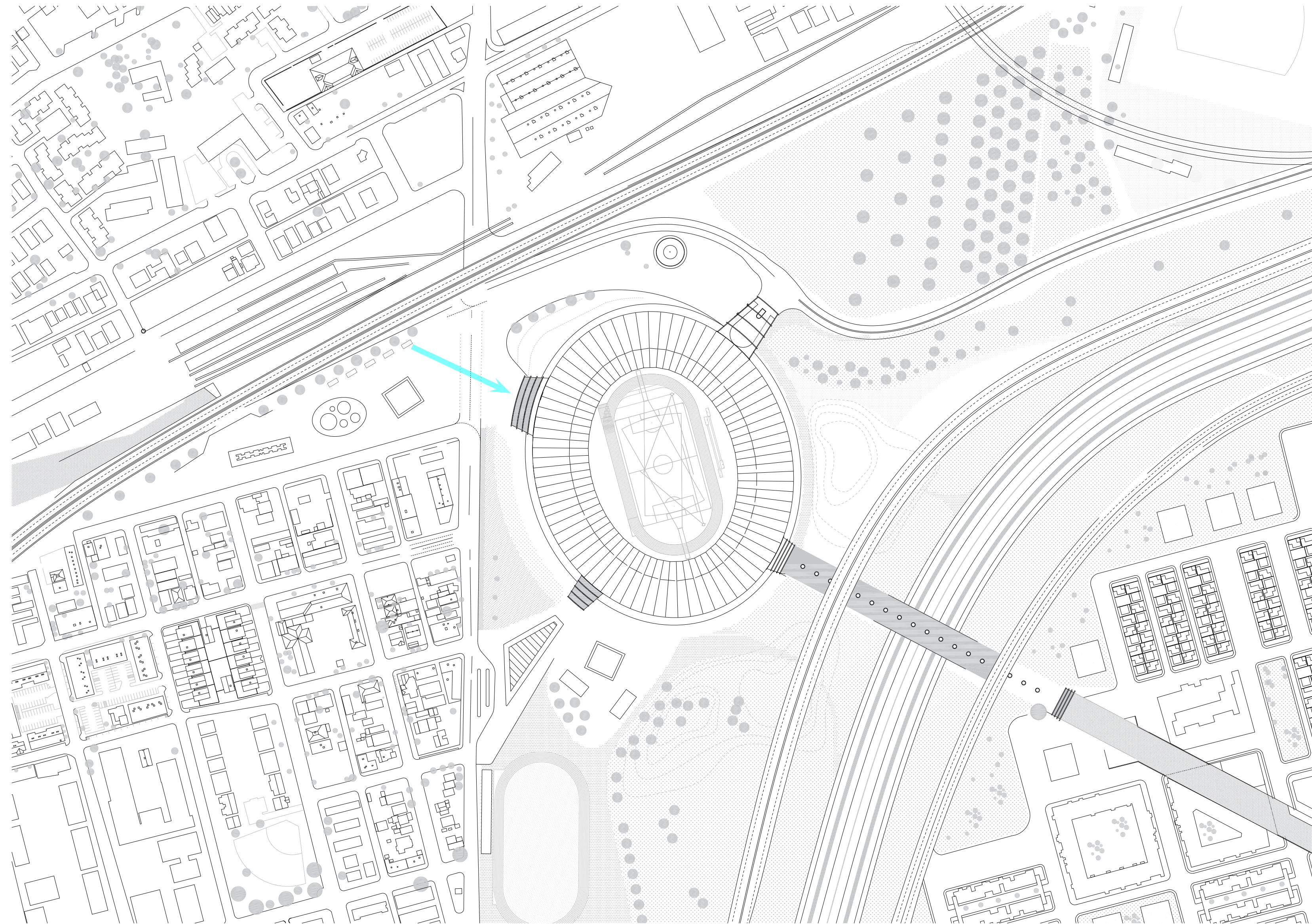


Design



Design

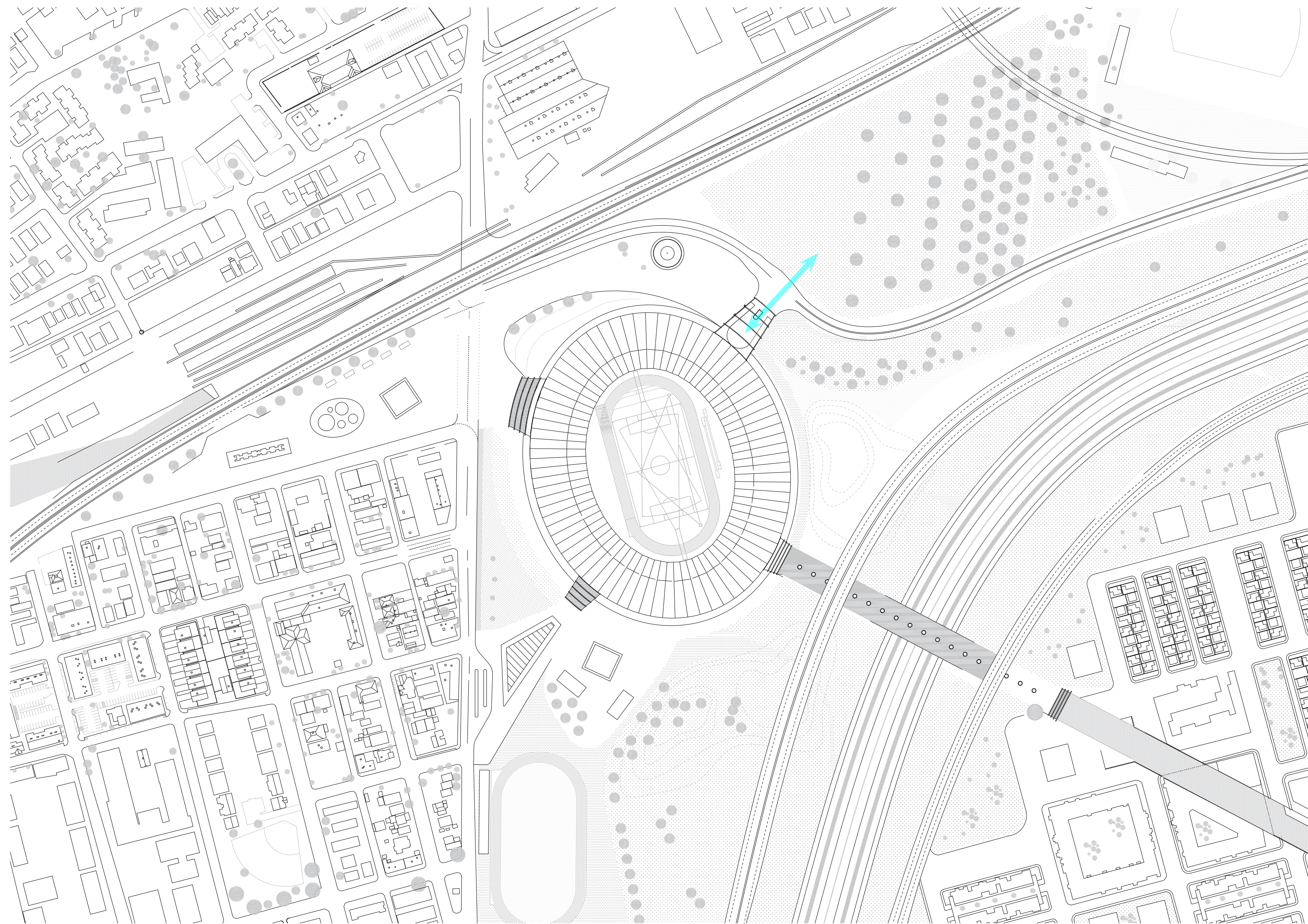
main american
entrance



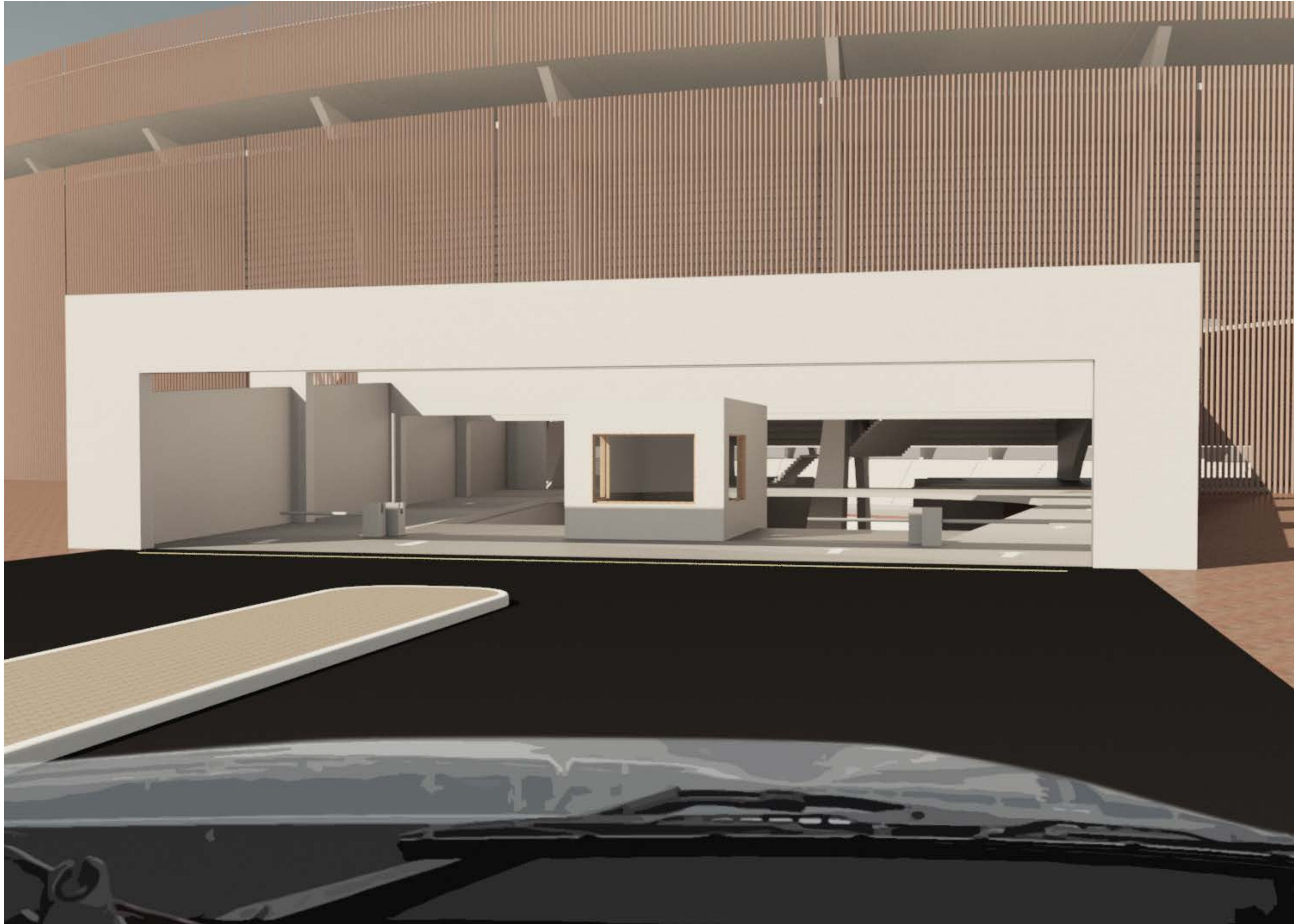
Design



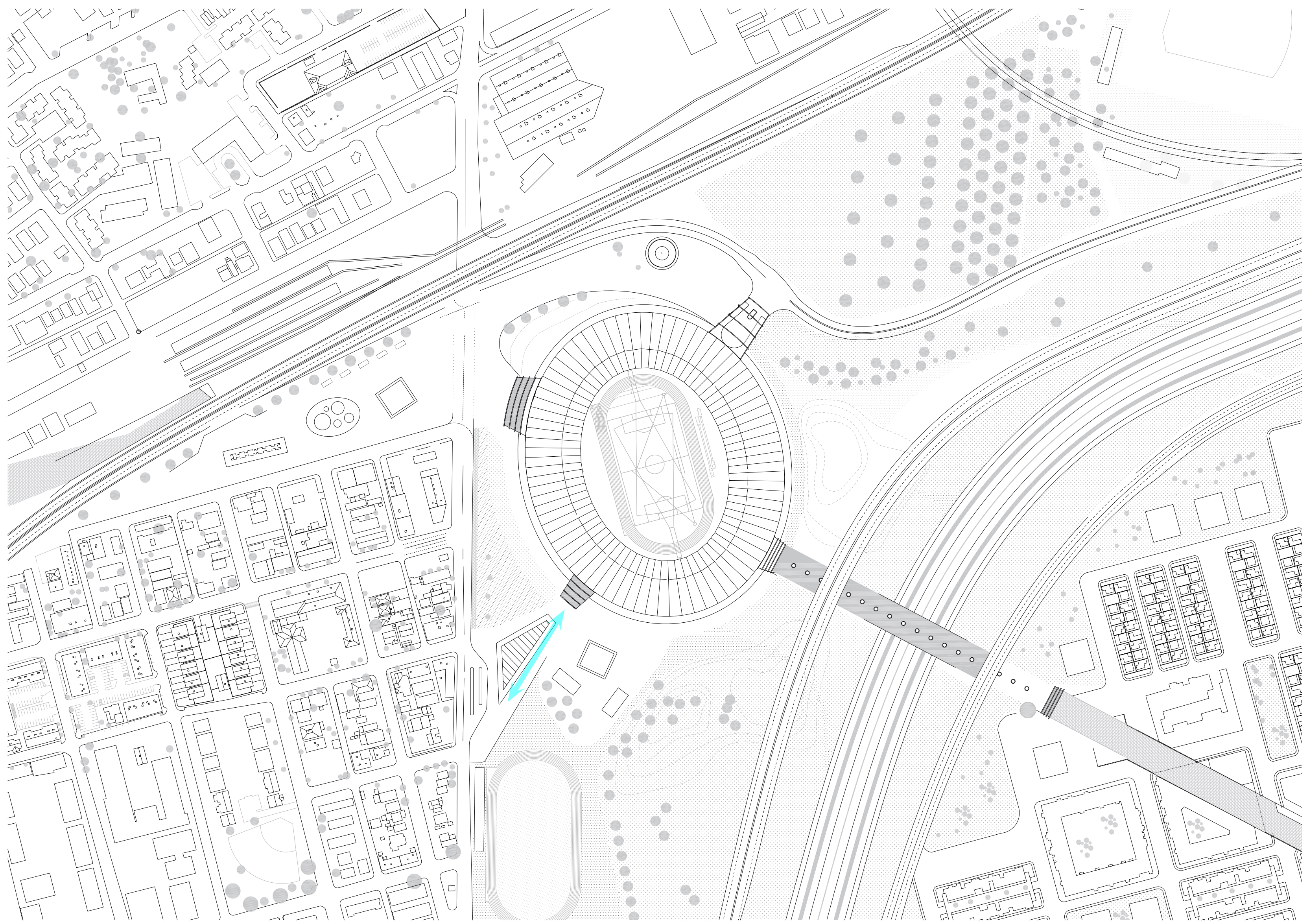
Design



Vehicle and
supplier
entrance



Design

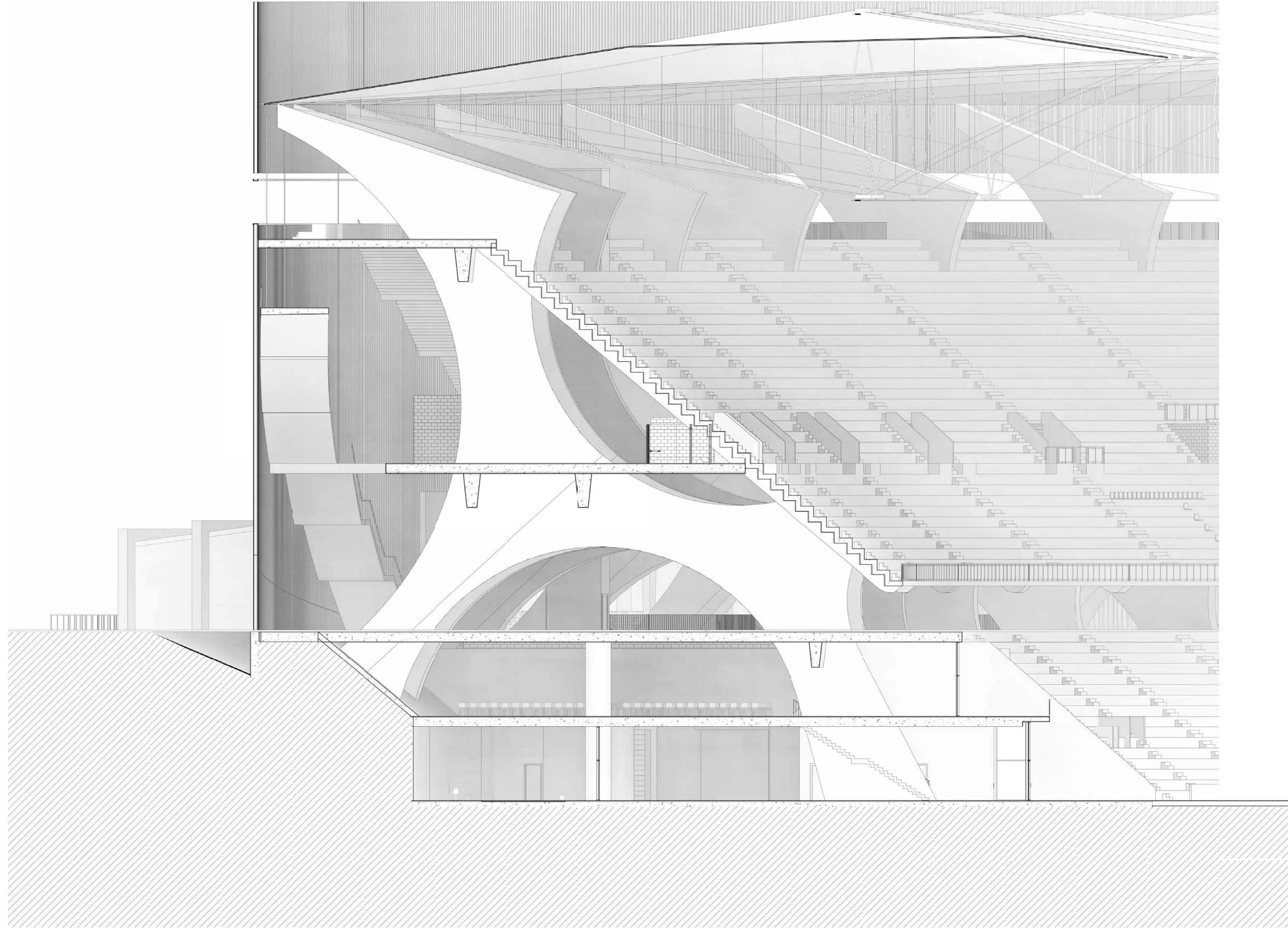


Staff and
athlete
entrance

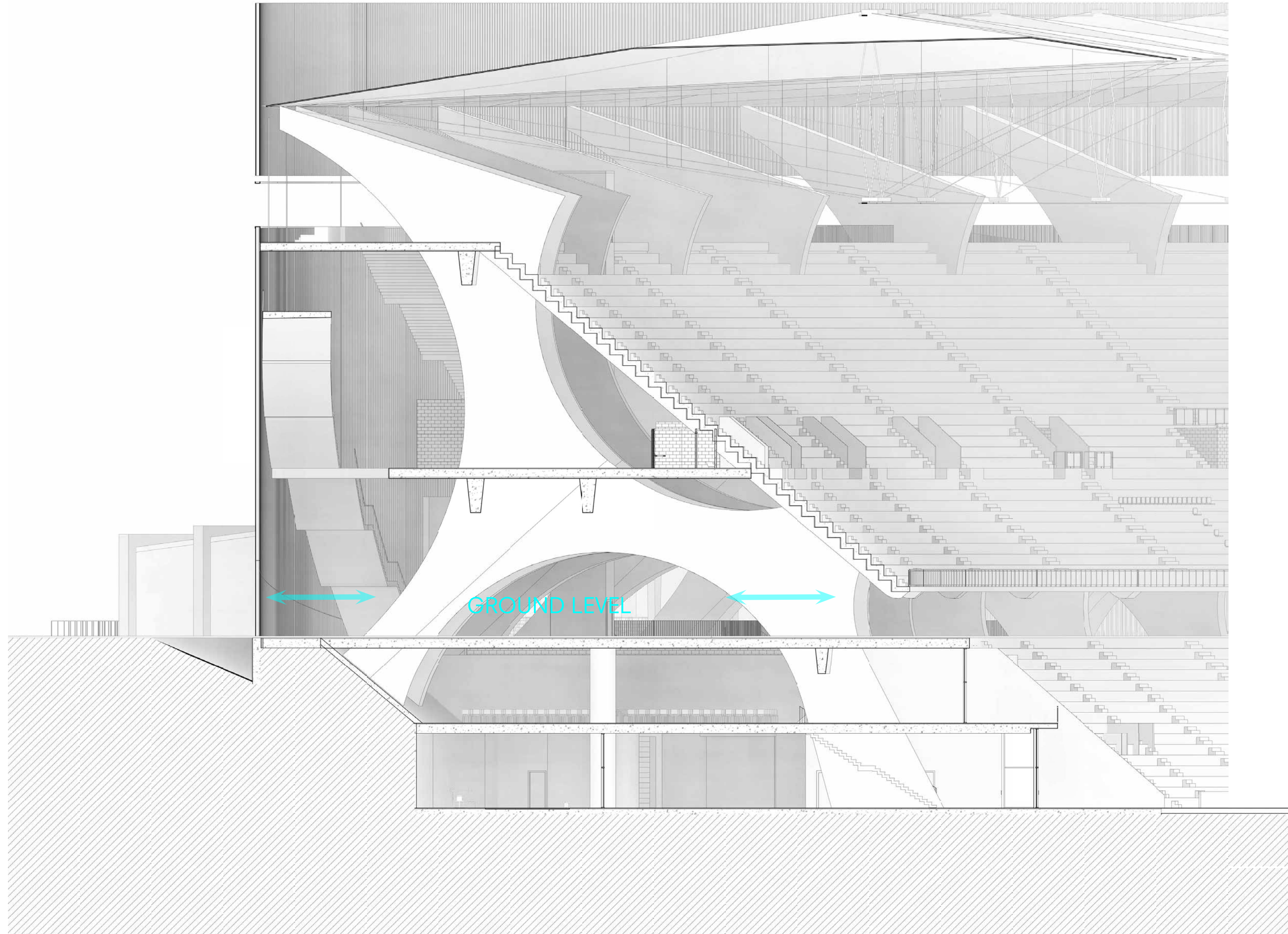
Design

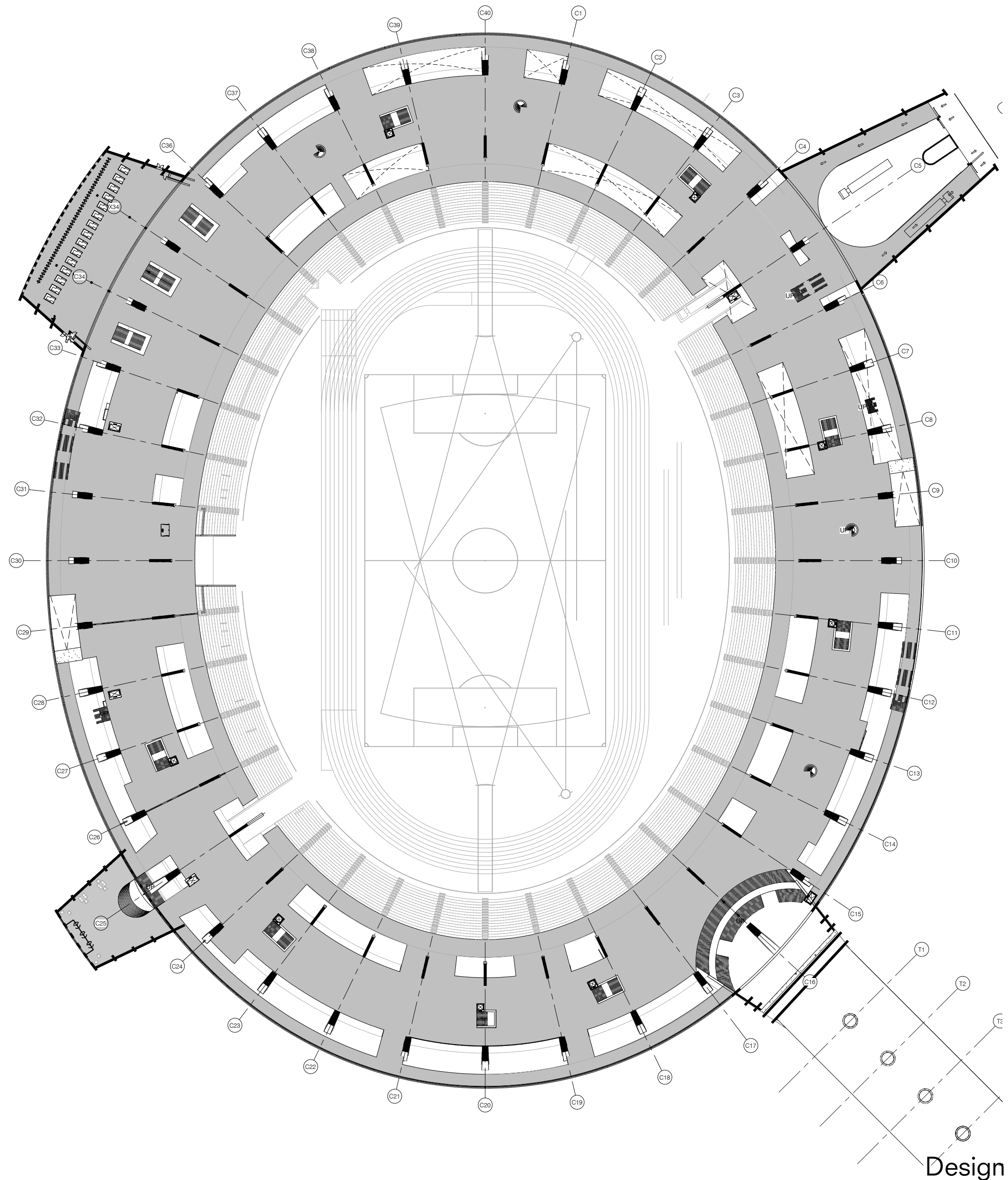


Design



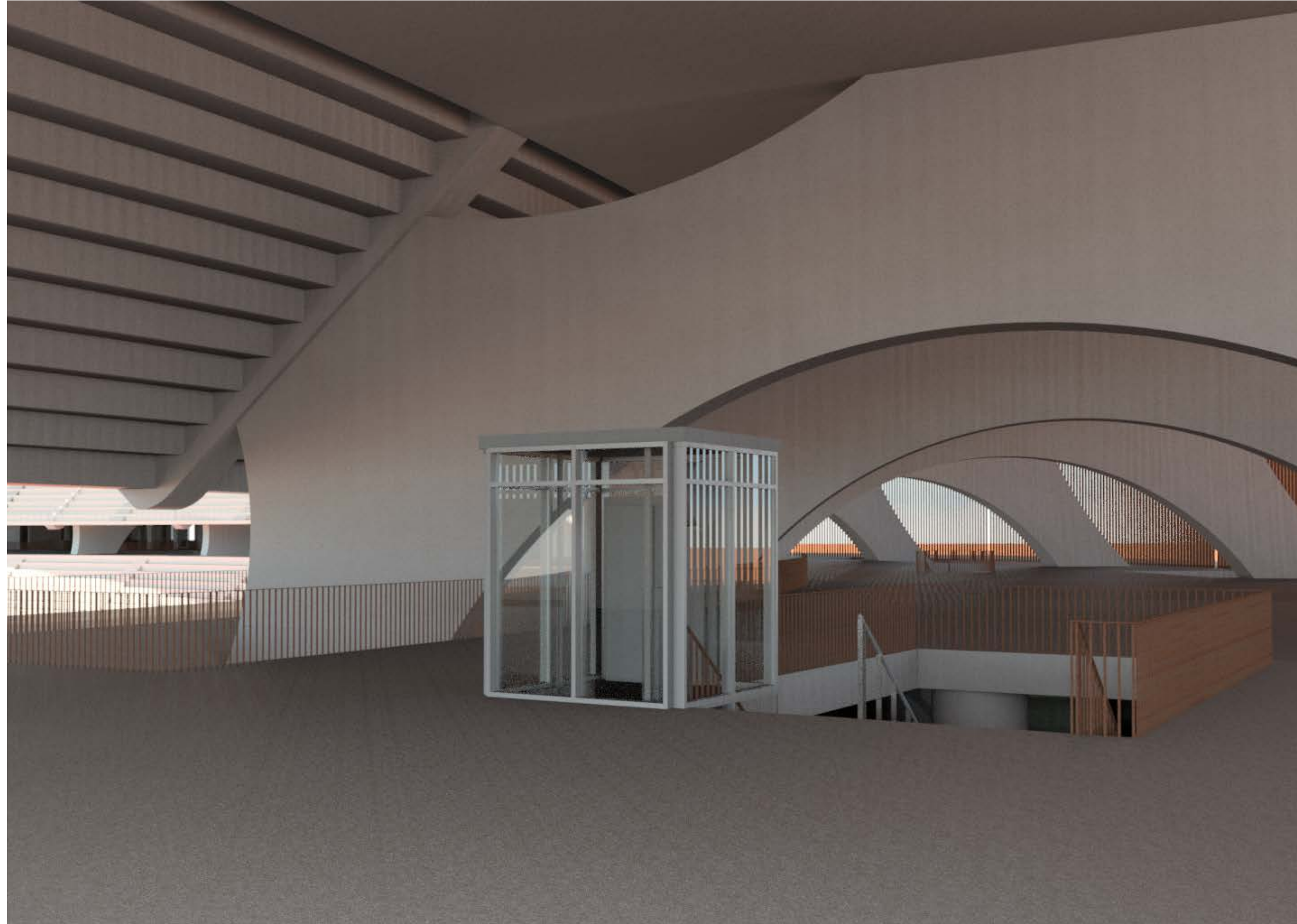
Design



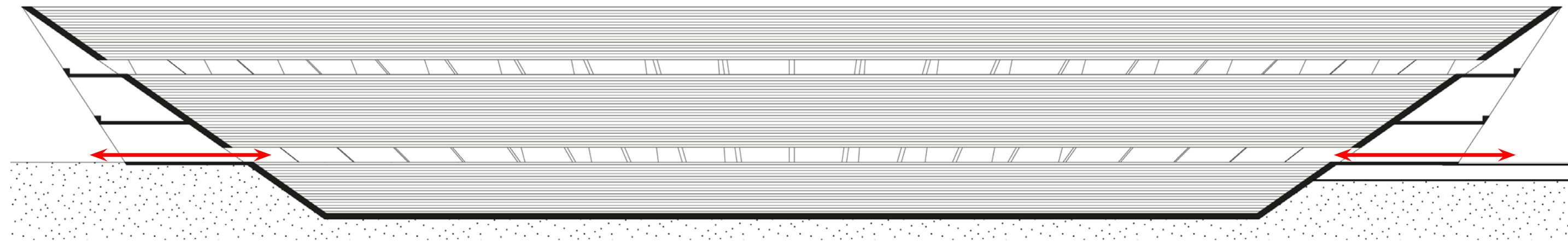
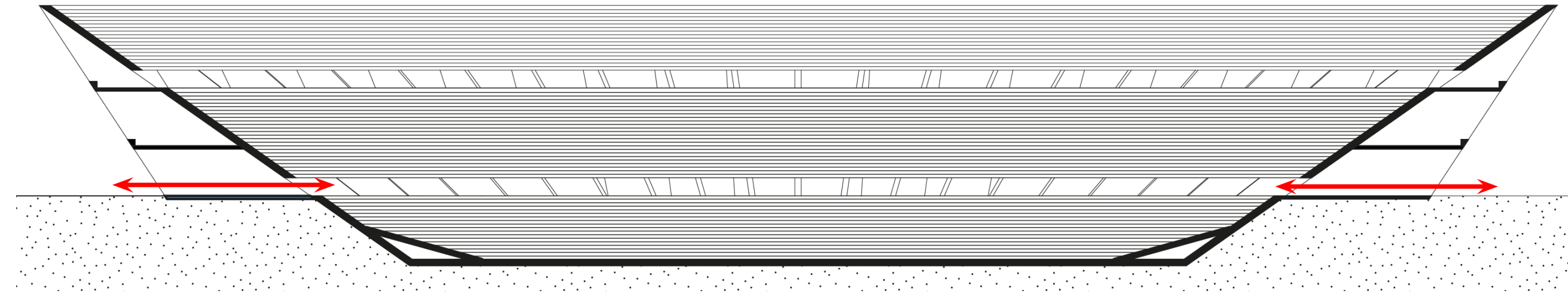


GROUND FLOOR PLAN

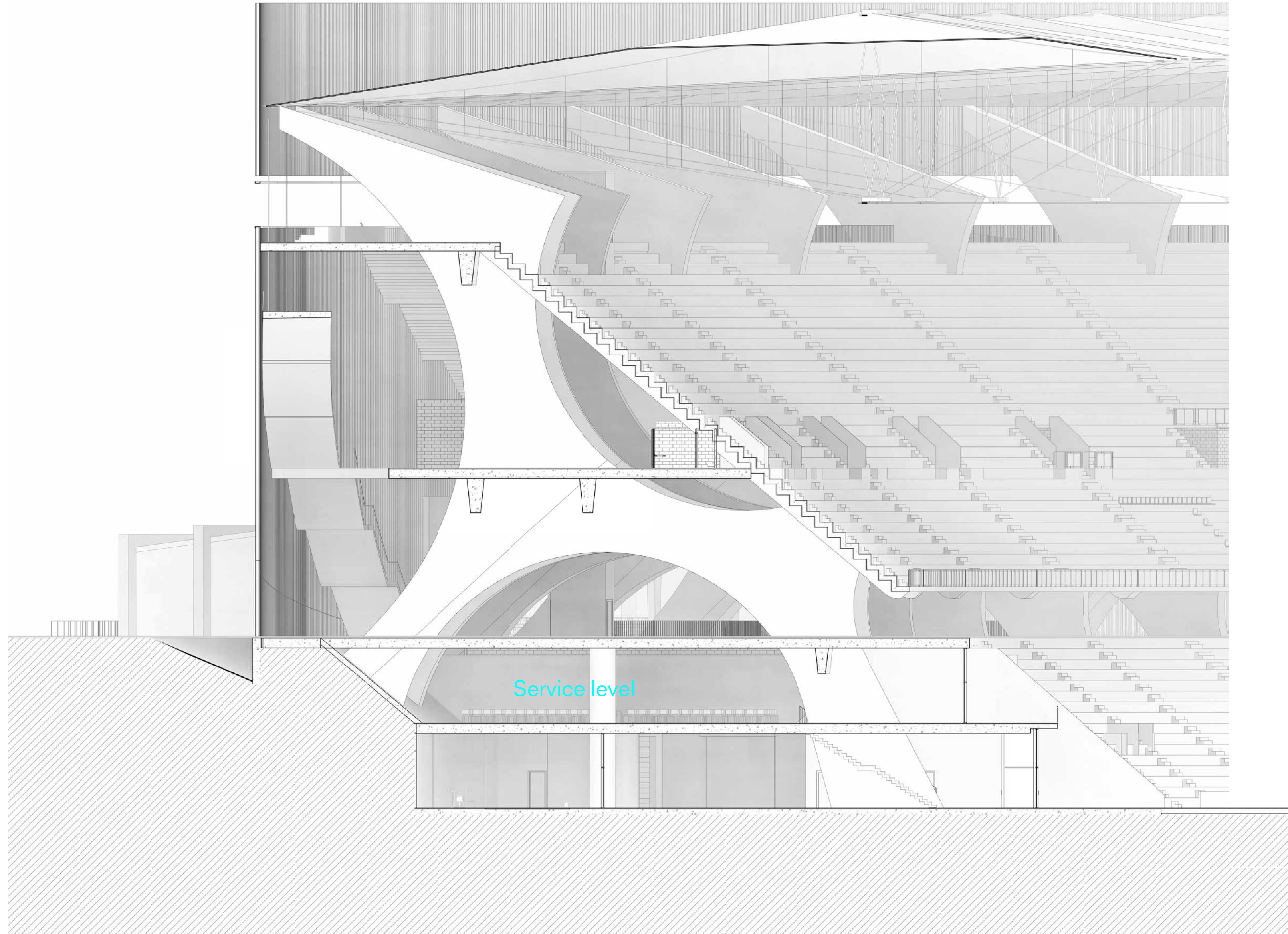
Design



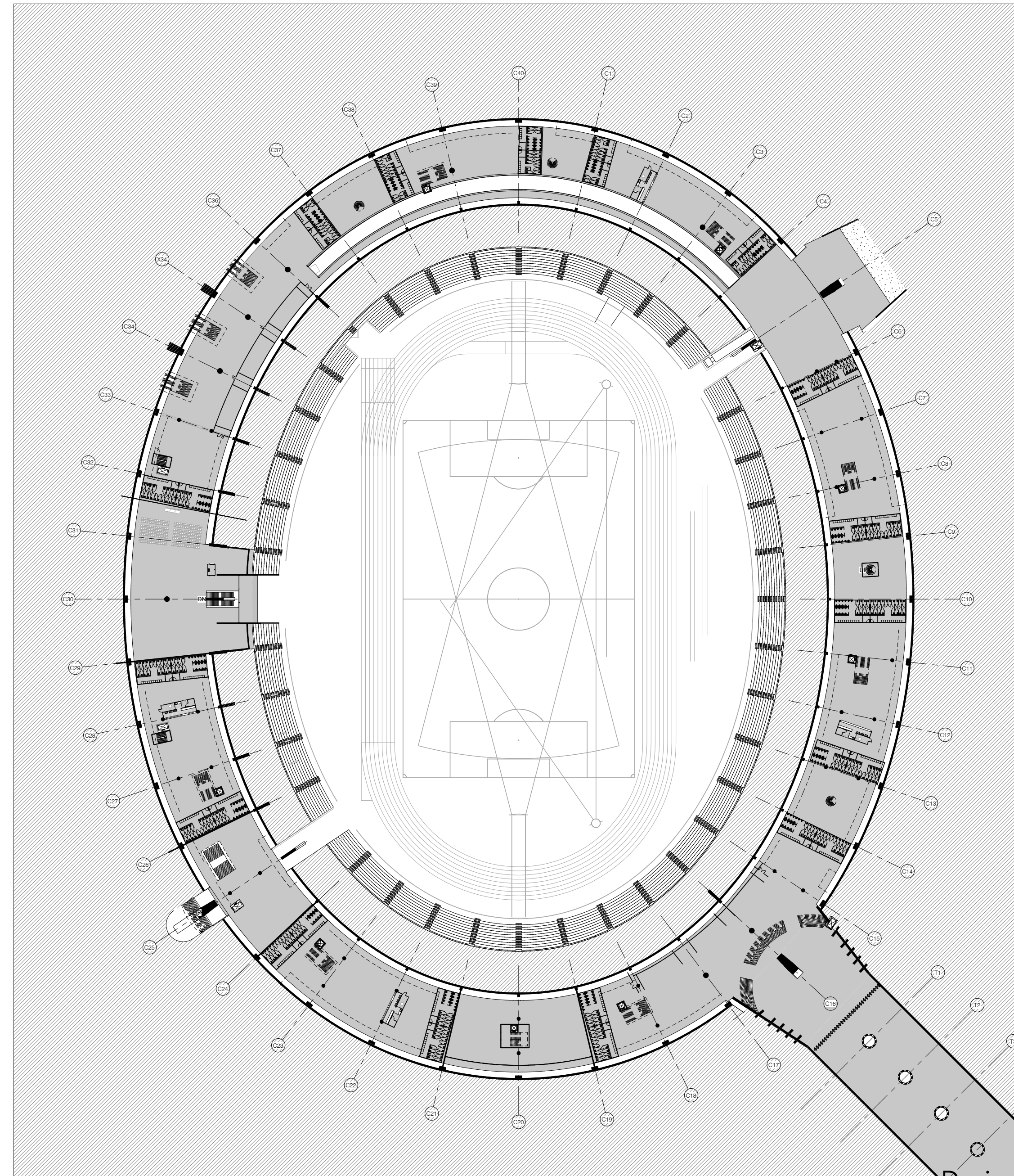
Design



Design

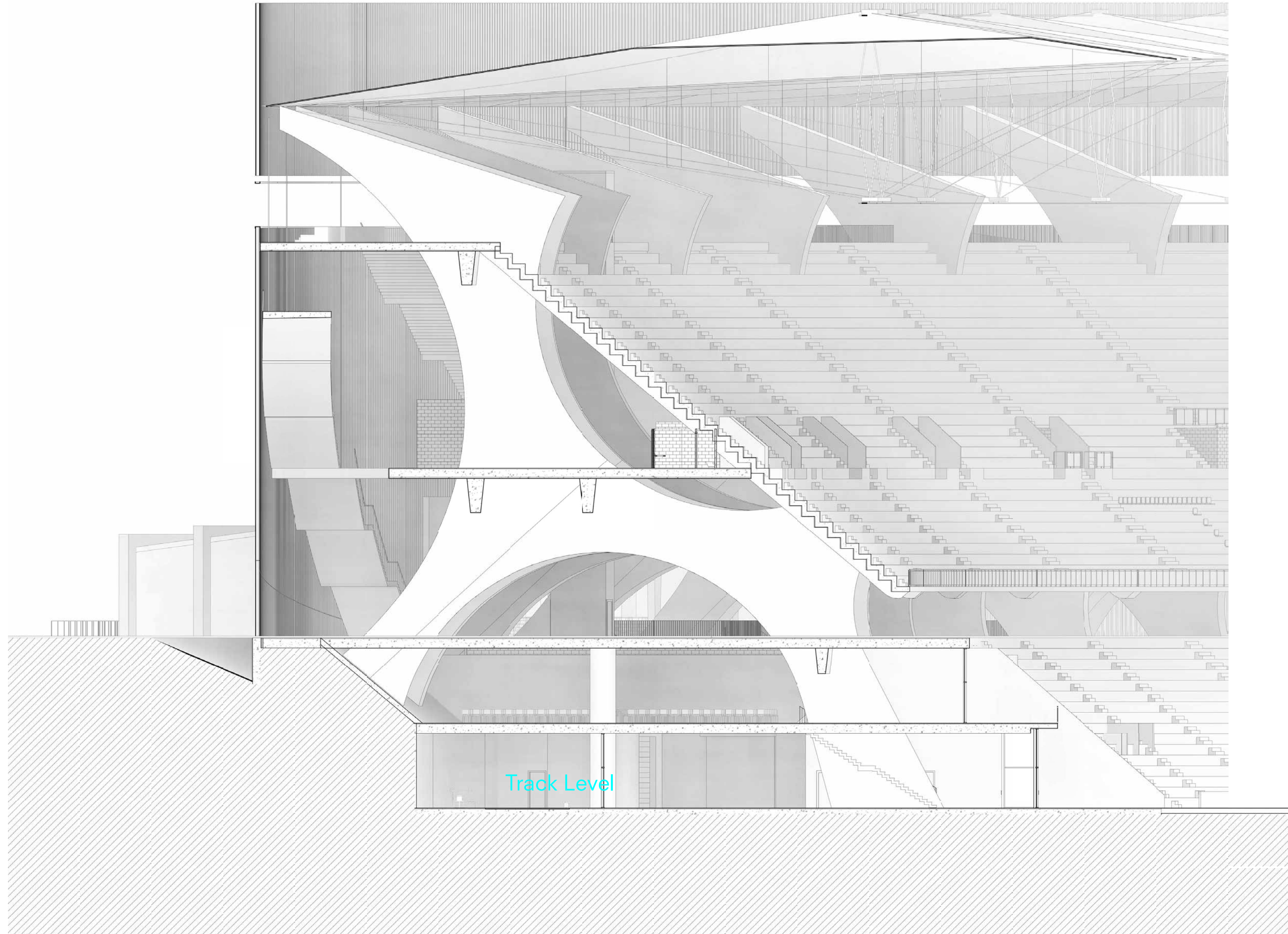


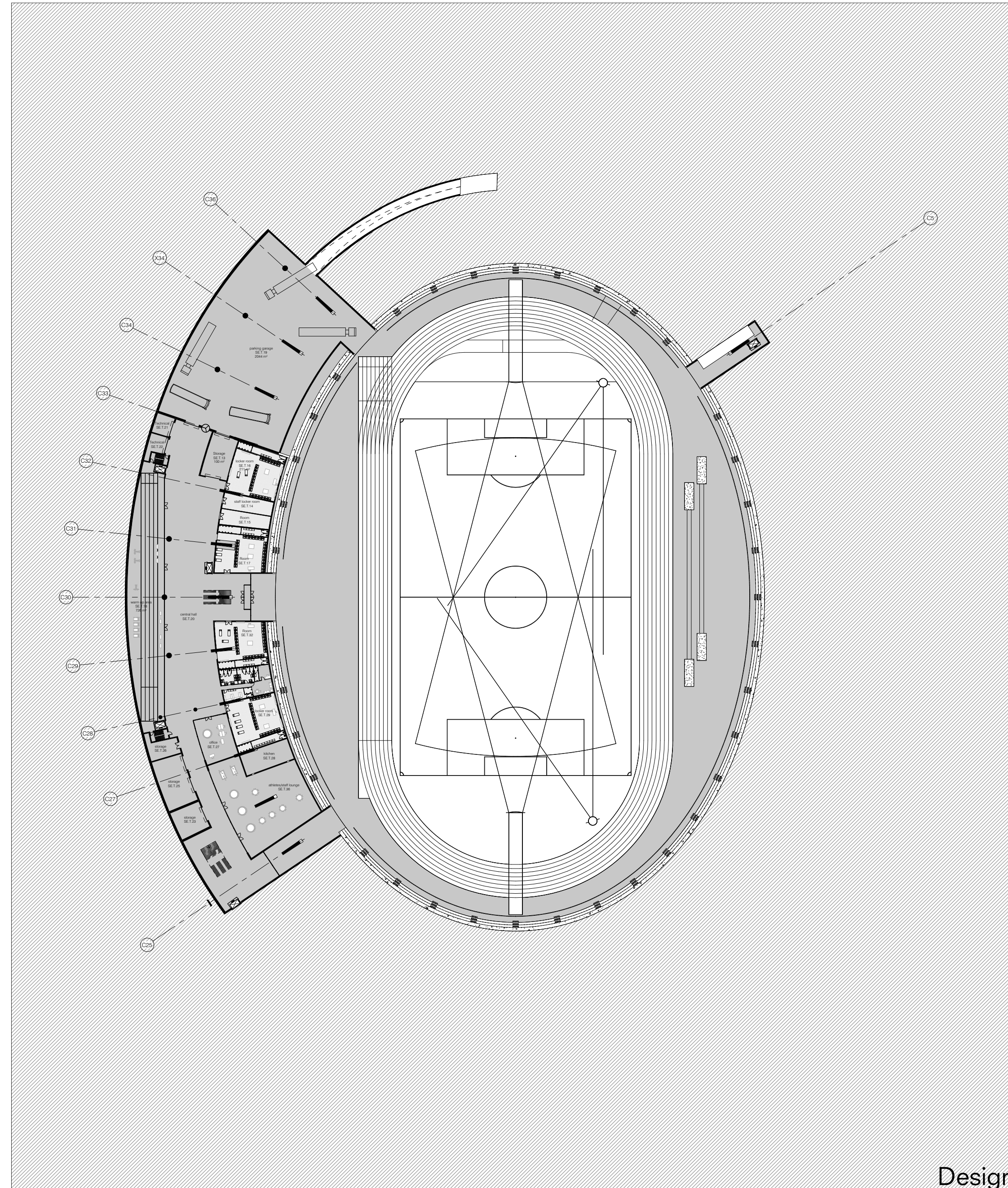
Service level



TUNNEL LEVEL PLAN

Design

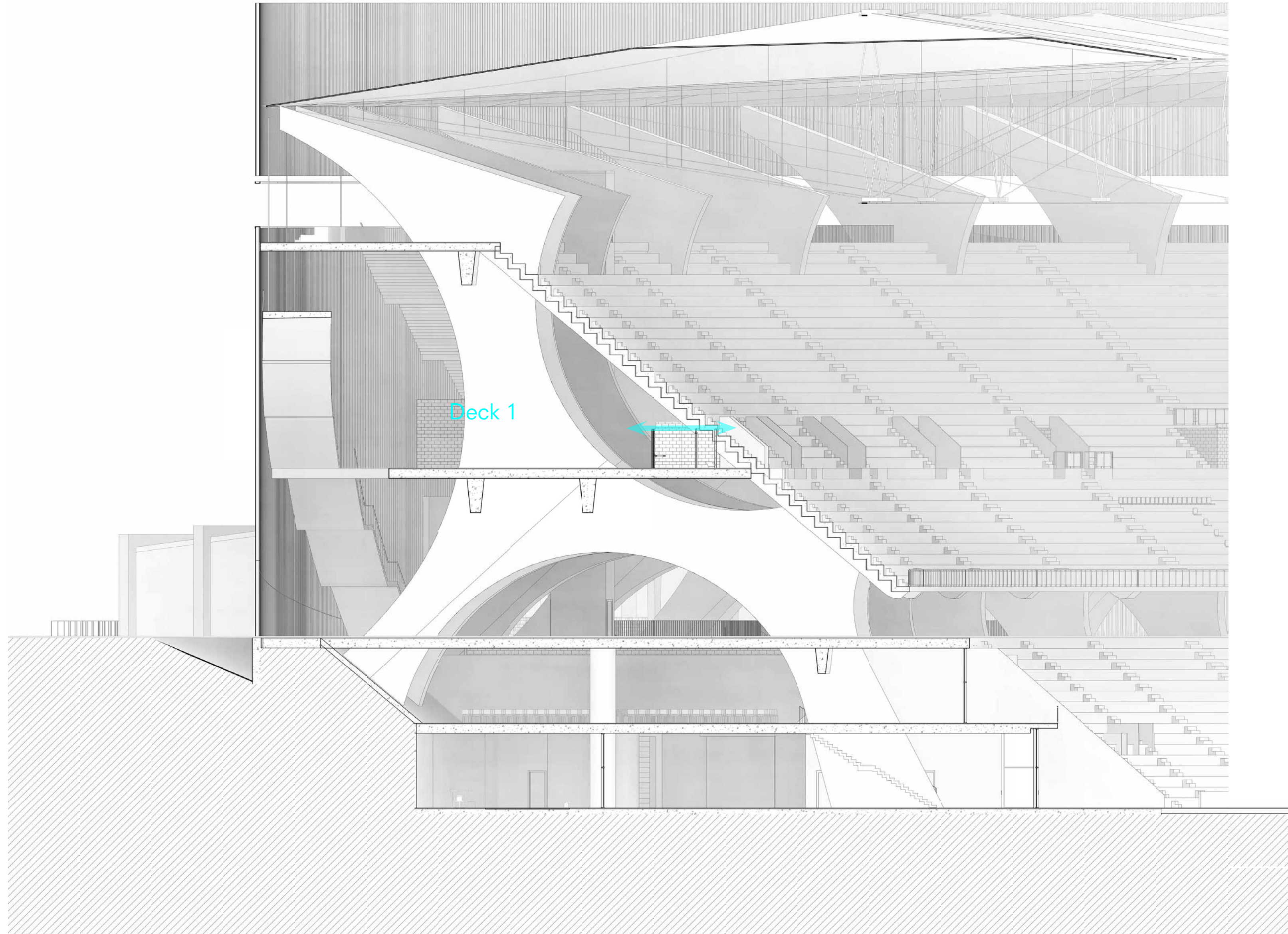


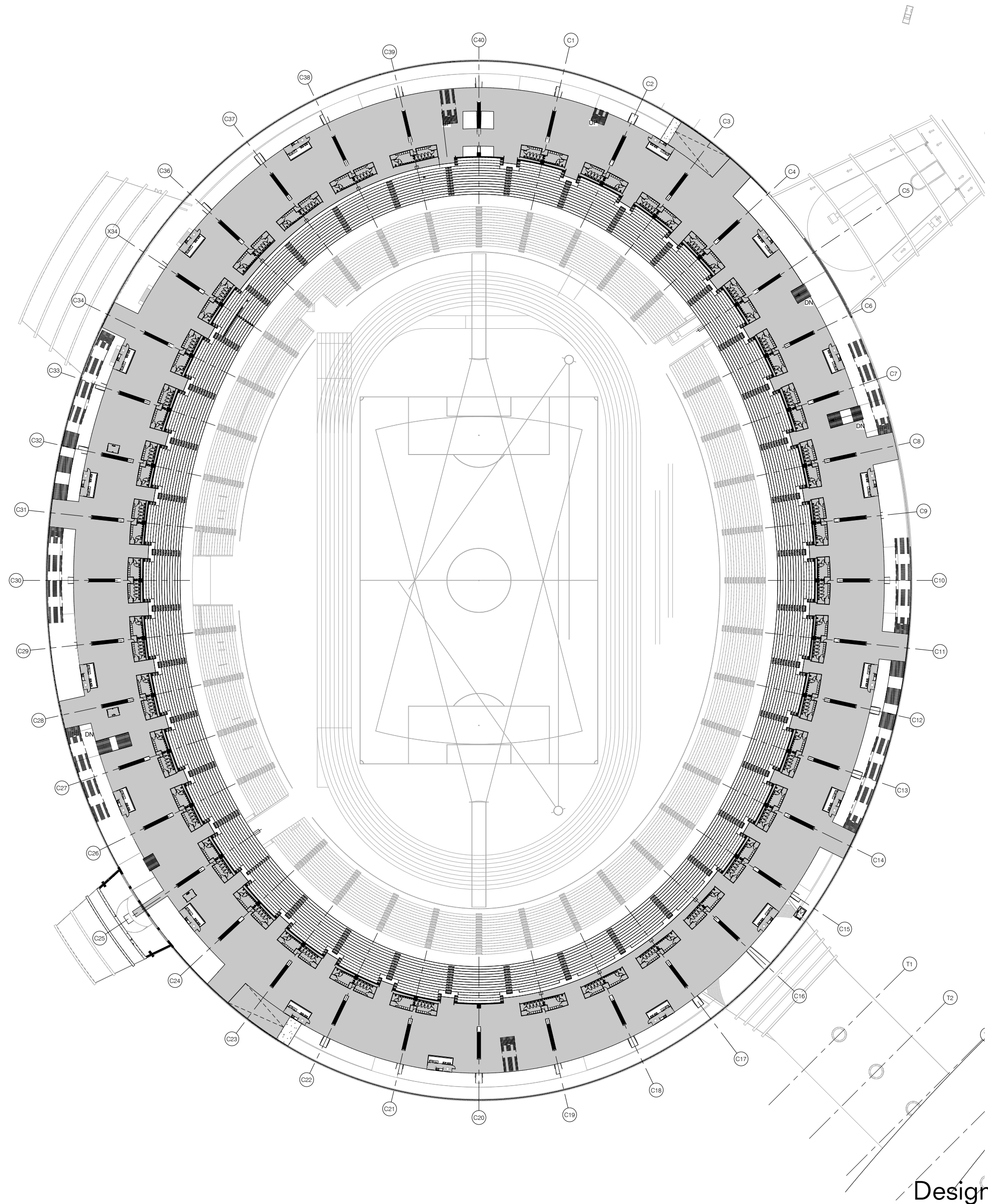


TRACK LEVEL PLAN



Design

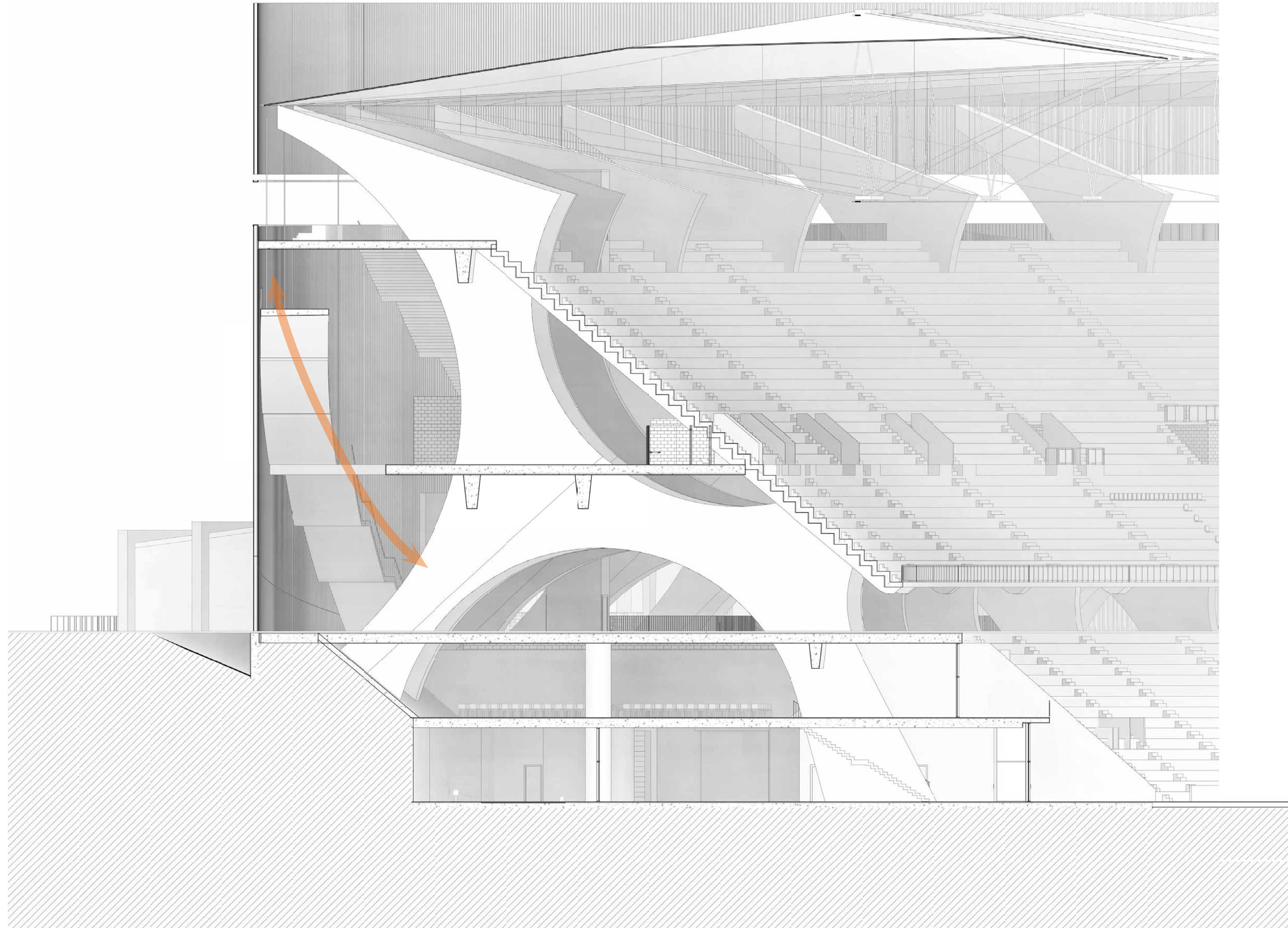




Design

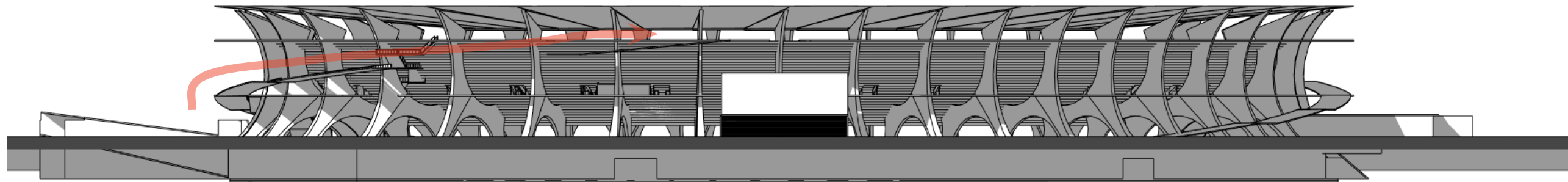
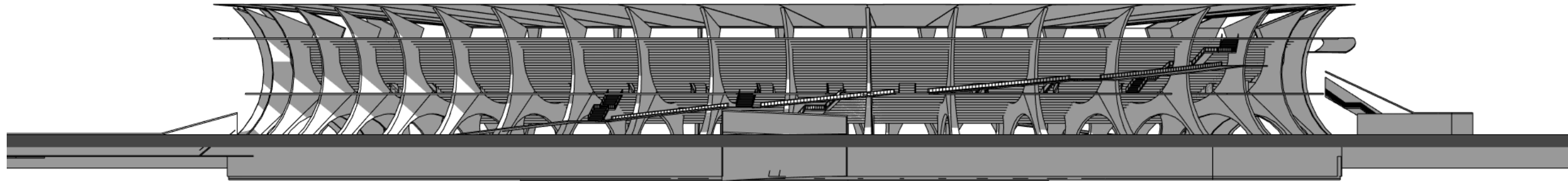


Design

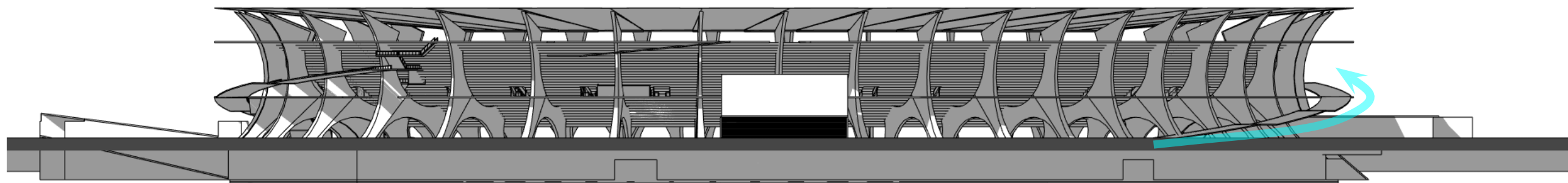
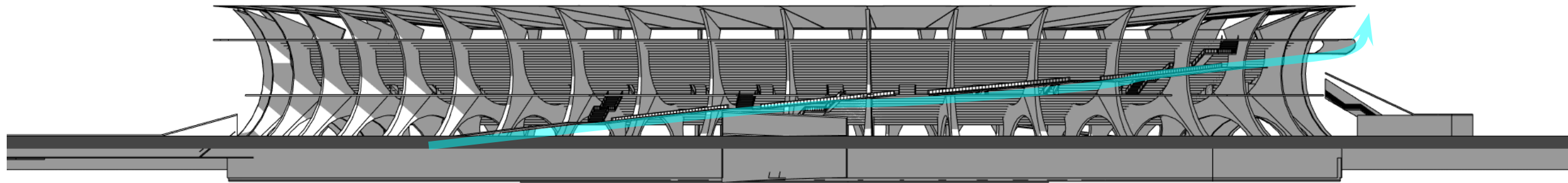


Vertical circulation

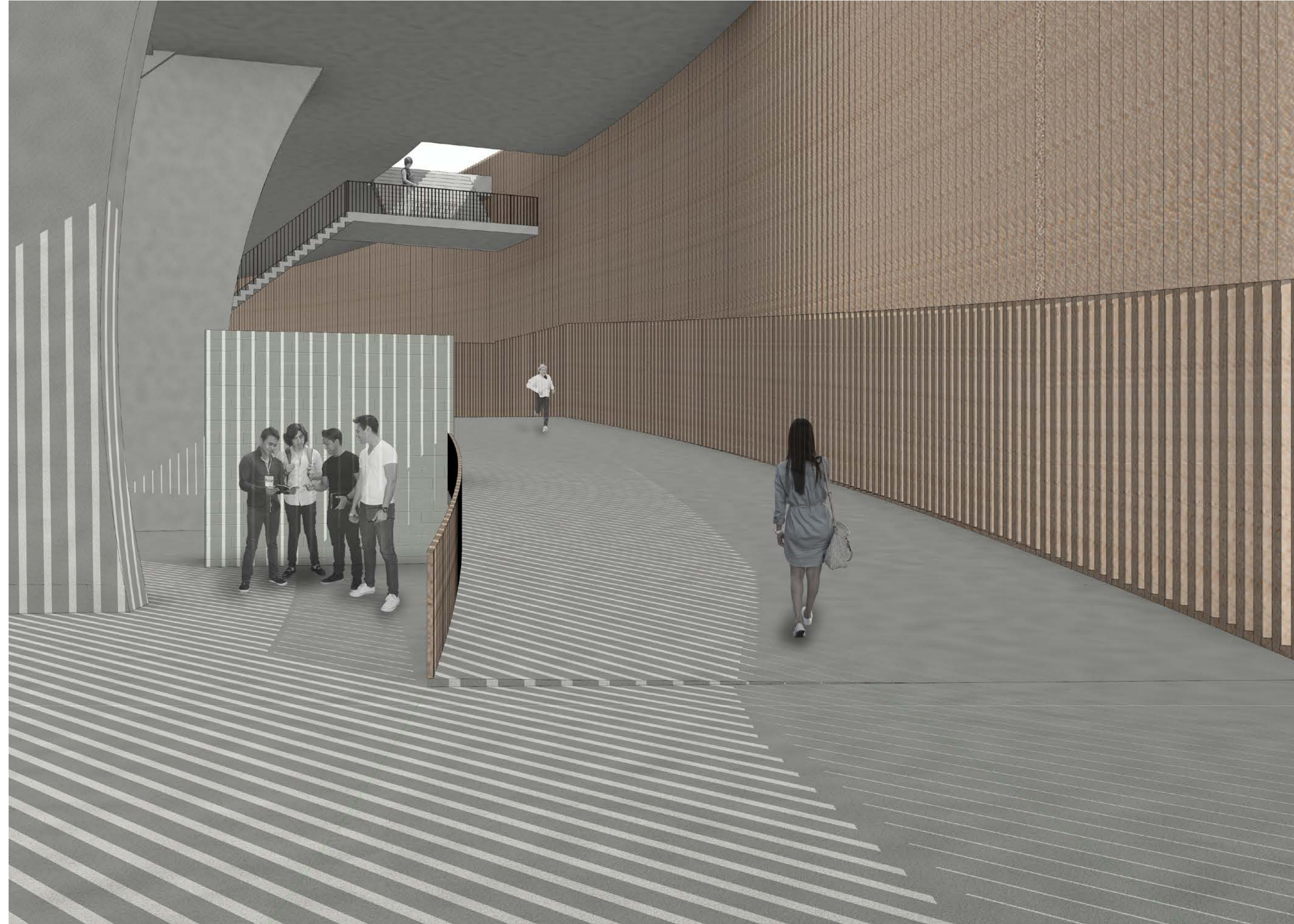
Design



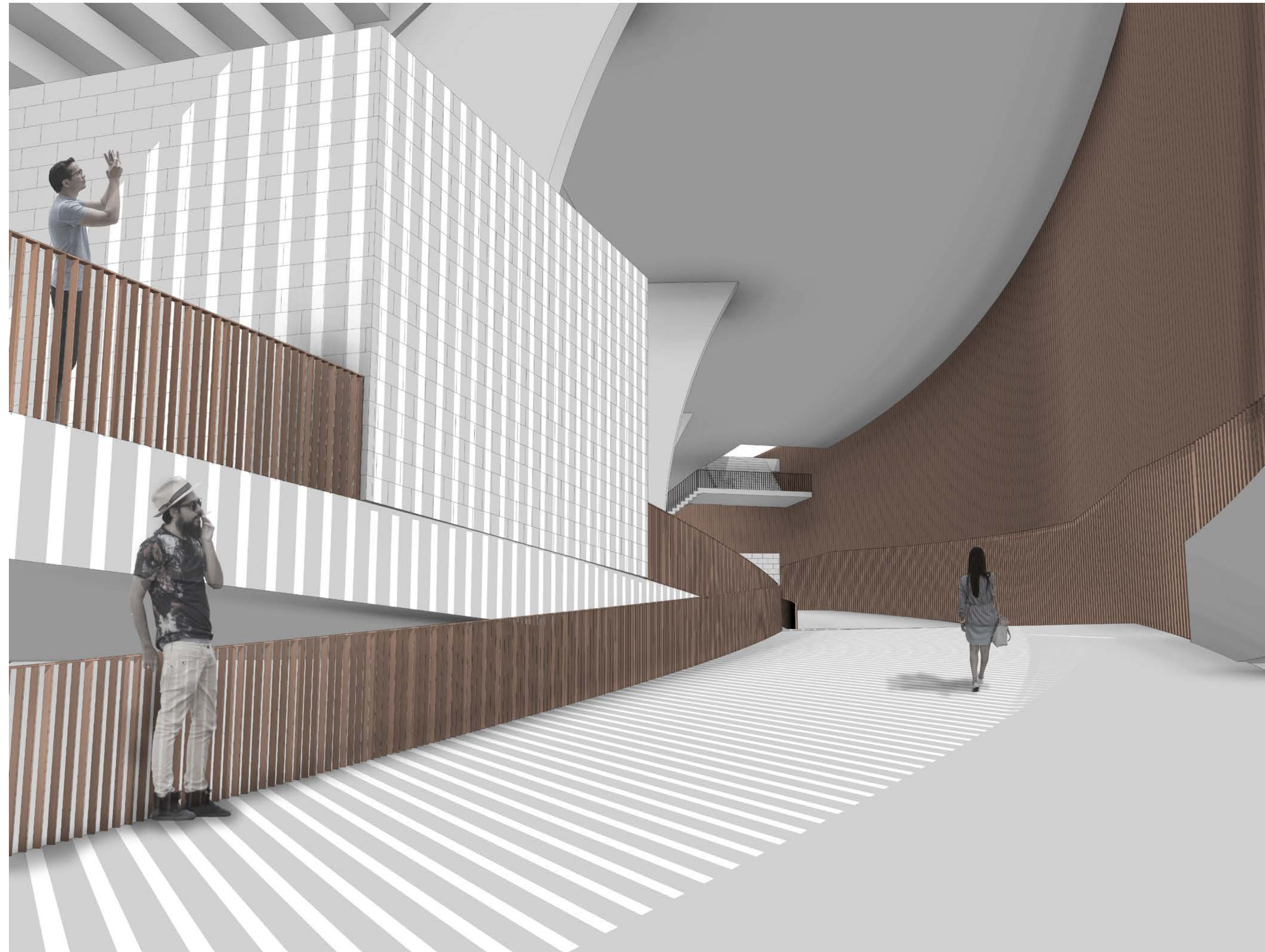
Design



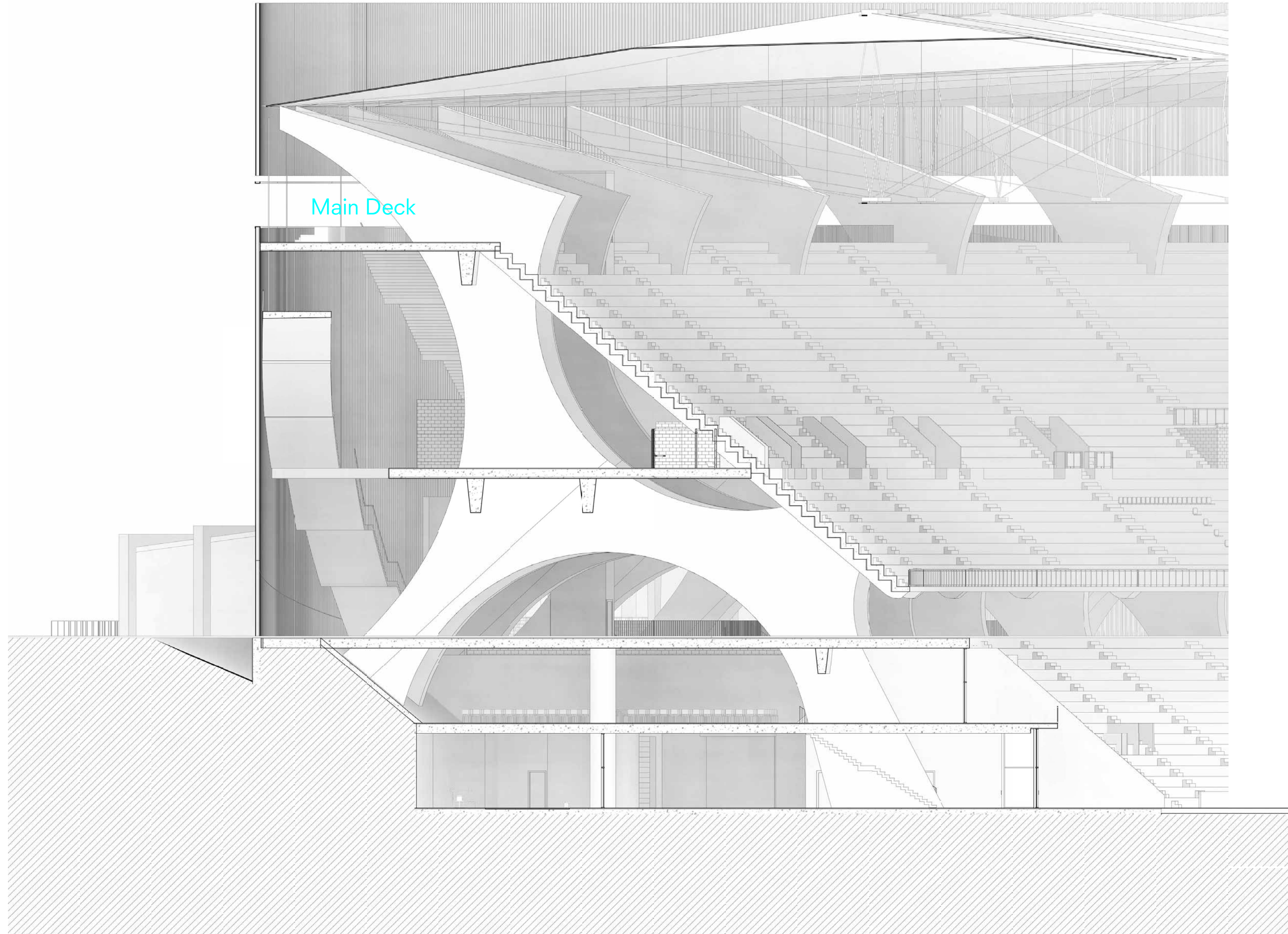
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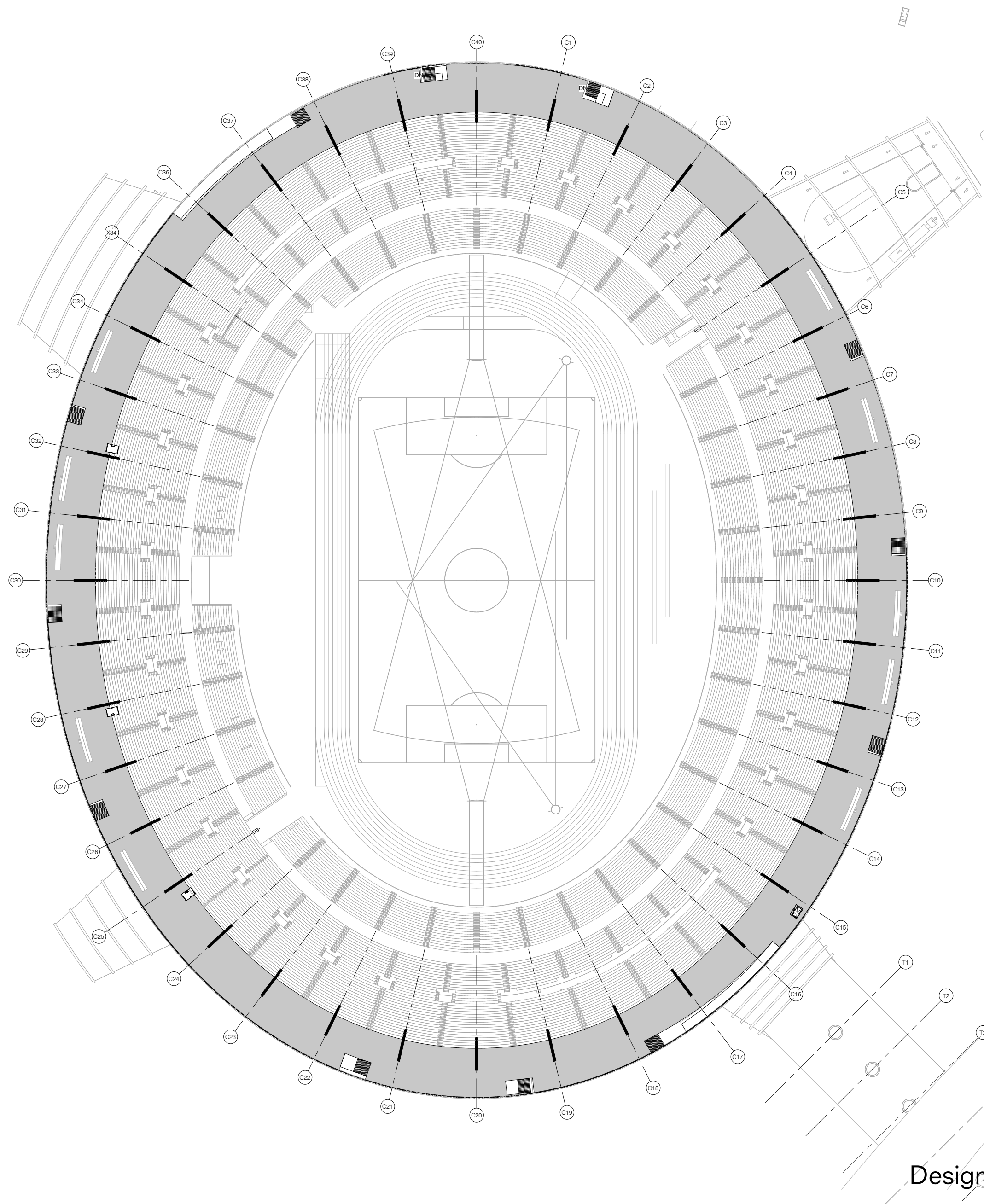
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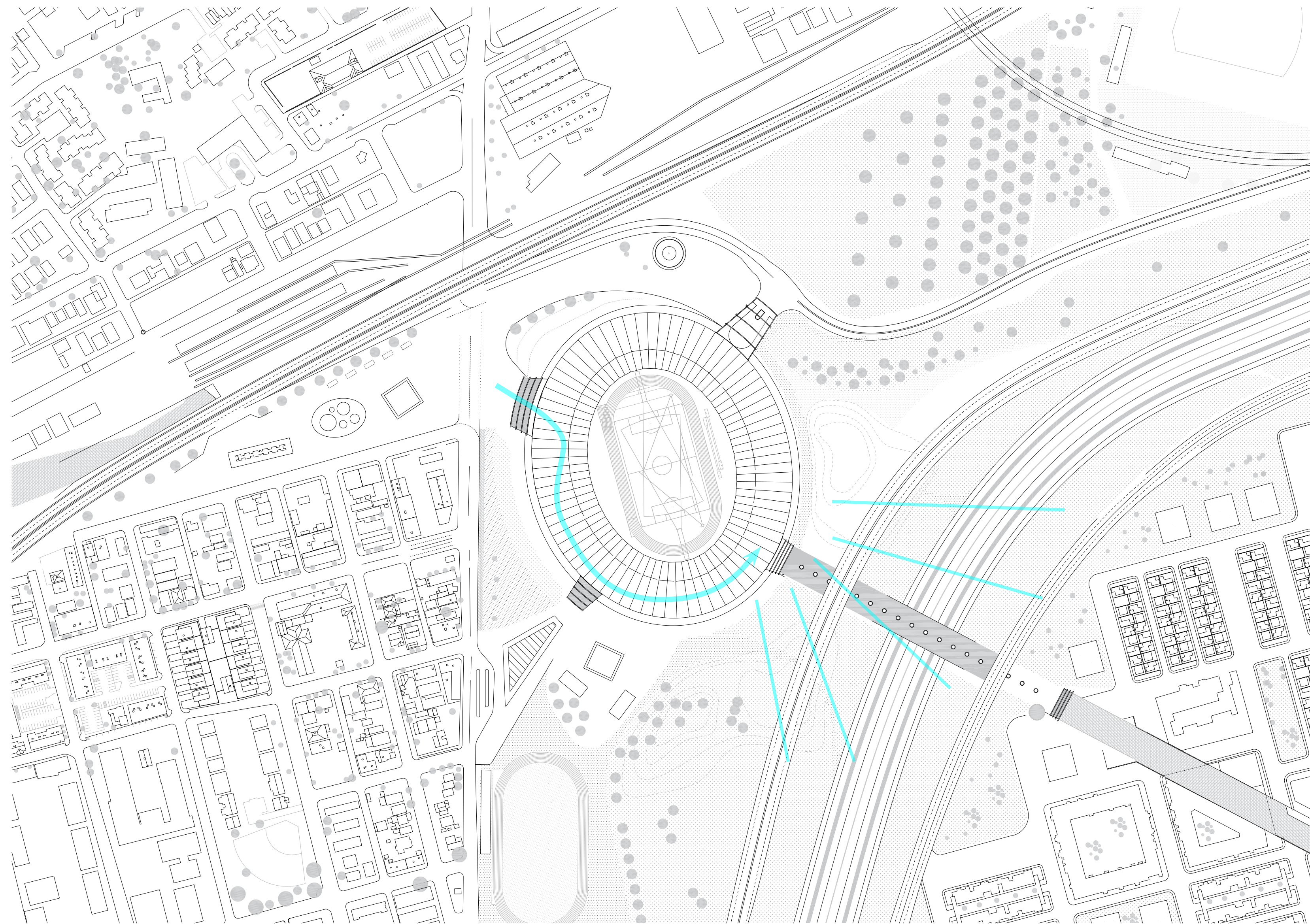
Design



Design

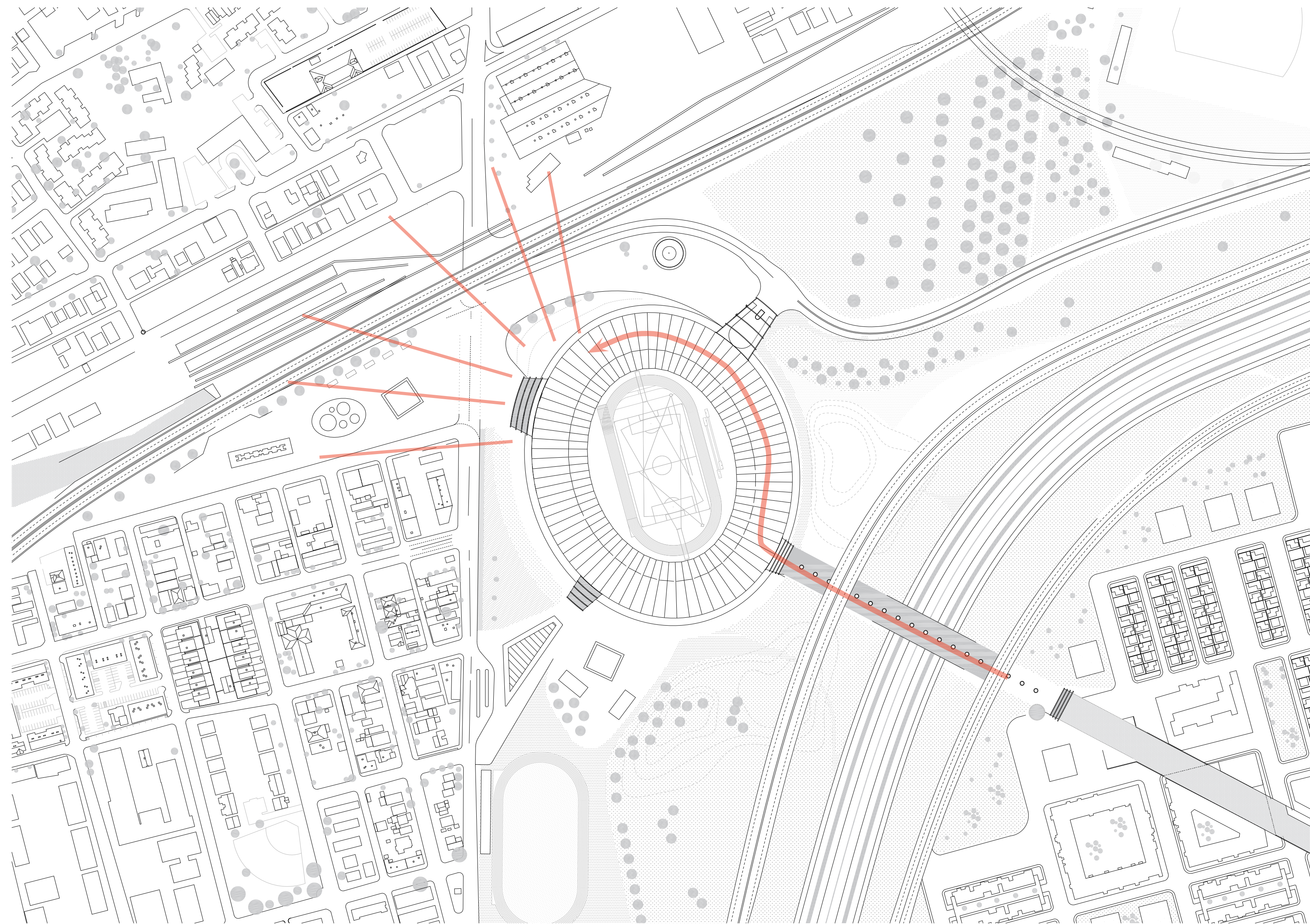


Design





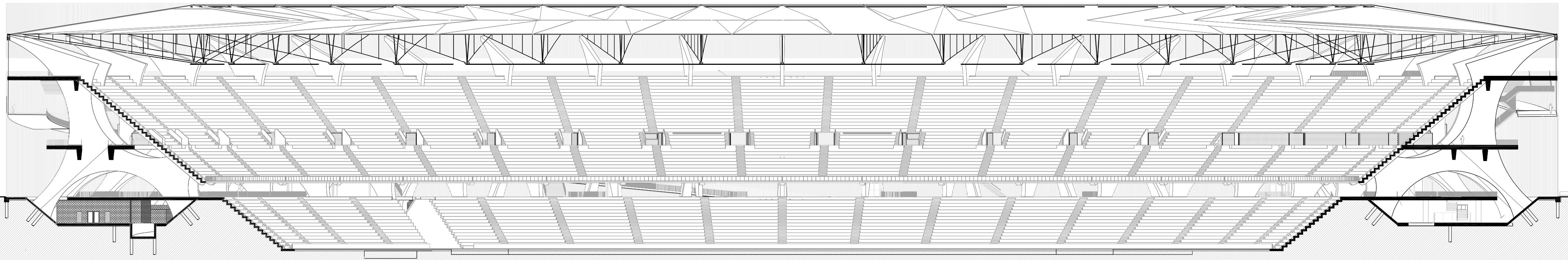
Design



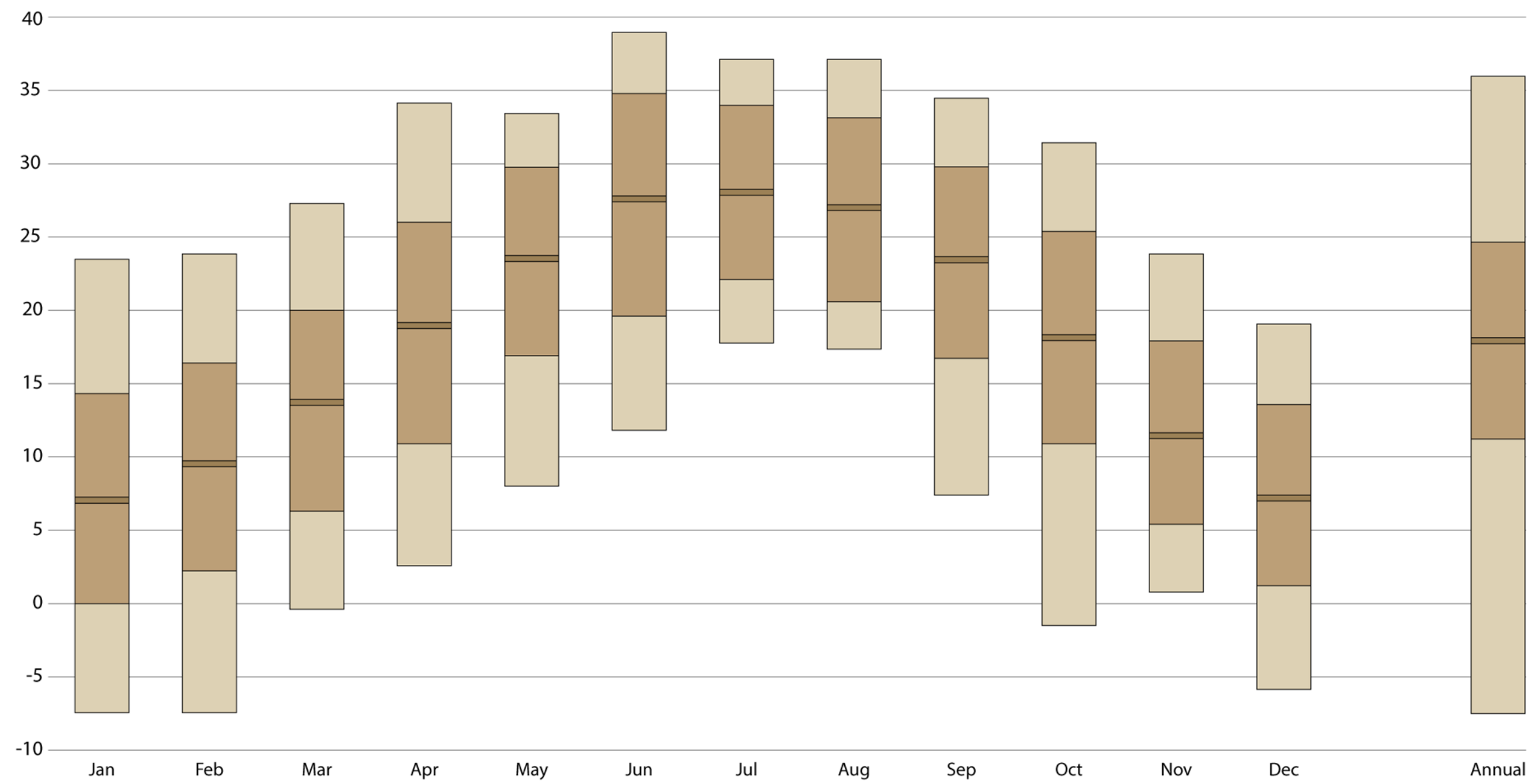
Design



Design



Design

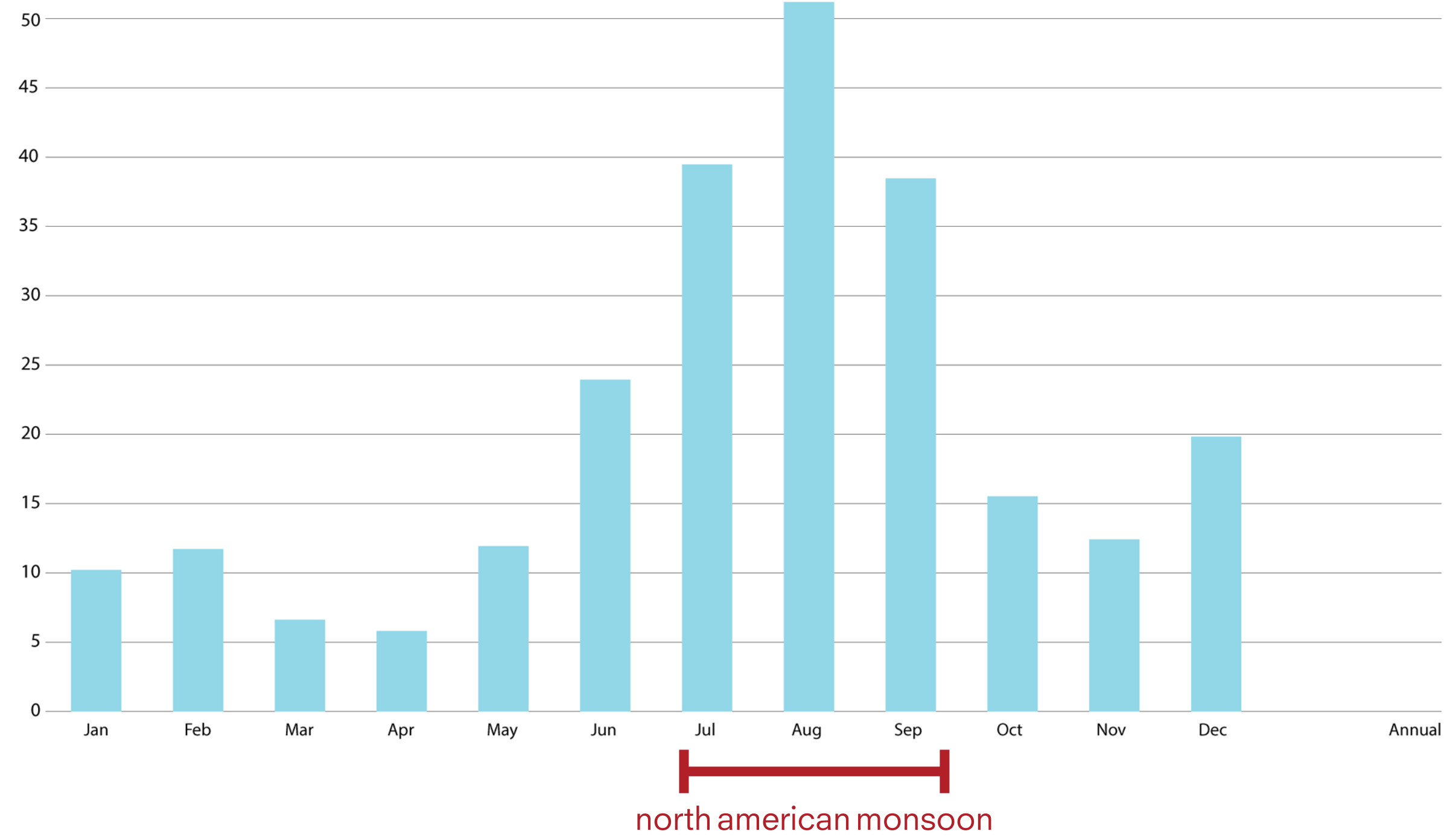


average temperature: 18.1 °C

(Netherlands: 10 °C)

sunny days: 302

EL PASO TEMPERATURE AVERAGES



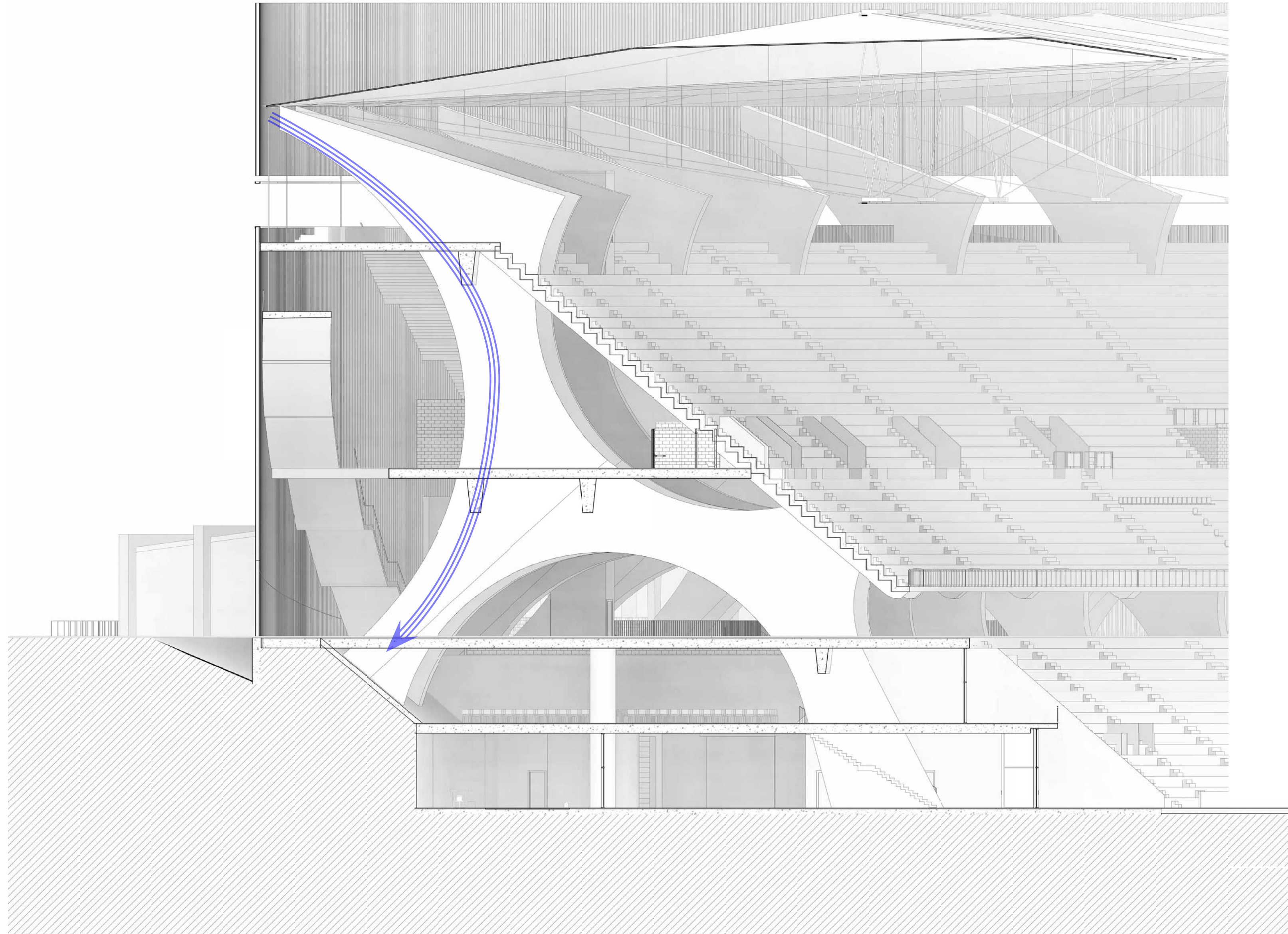
days per year with measurable precipitation: 23 days

(Netherlands: 185 days)

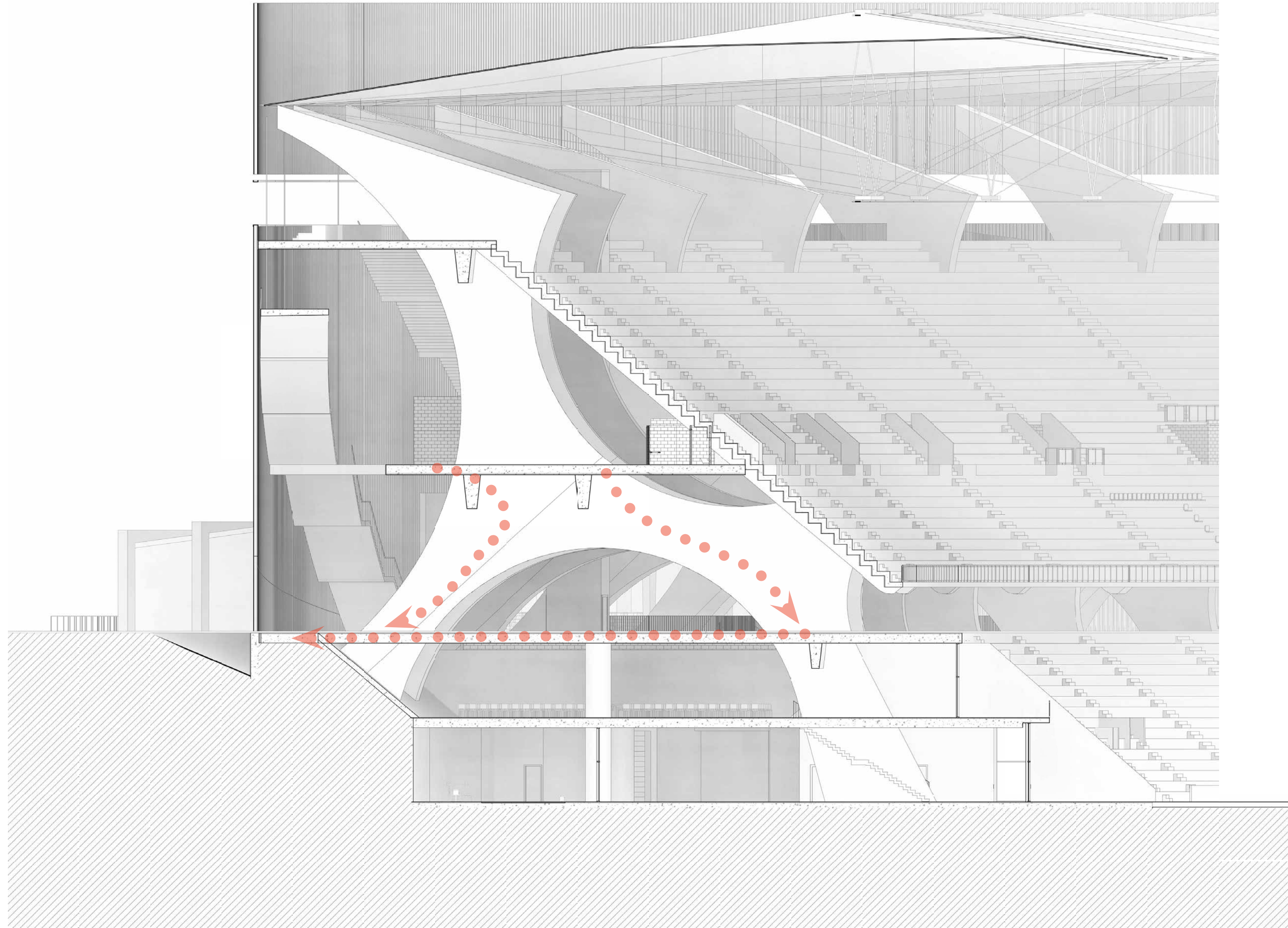
average annual rainfall: 246 mm

(Netherlands: 880 mm)

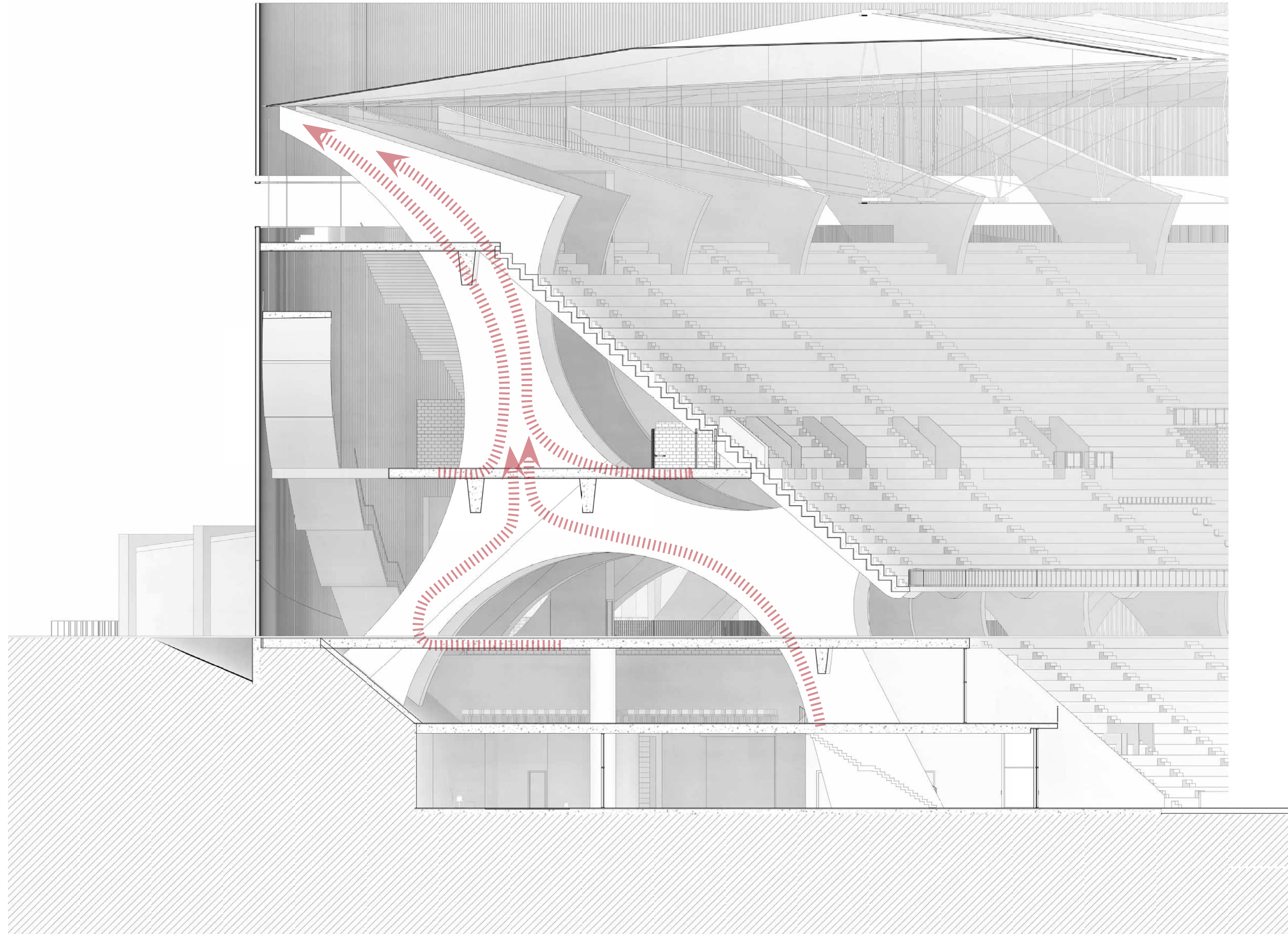
EL PASO RAINFALL AVERAGES



Design

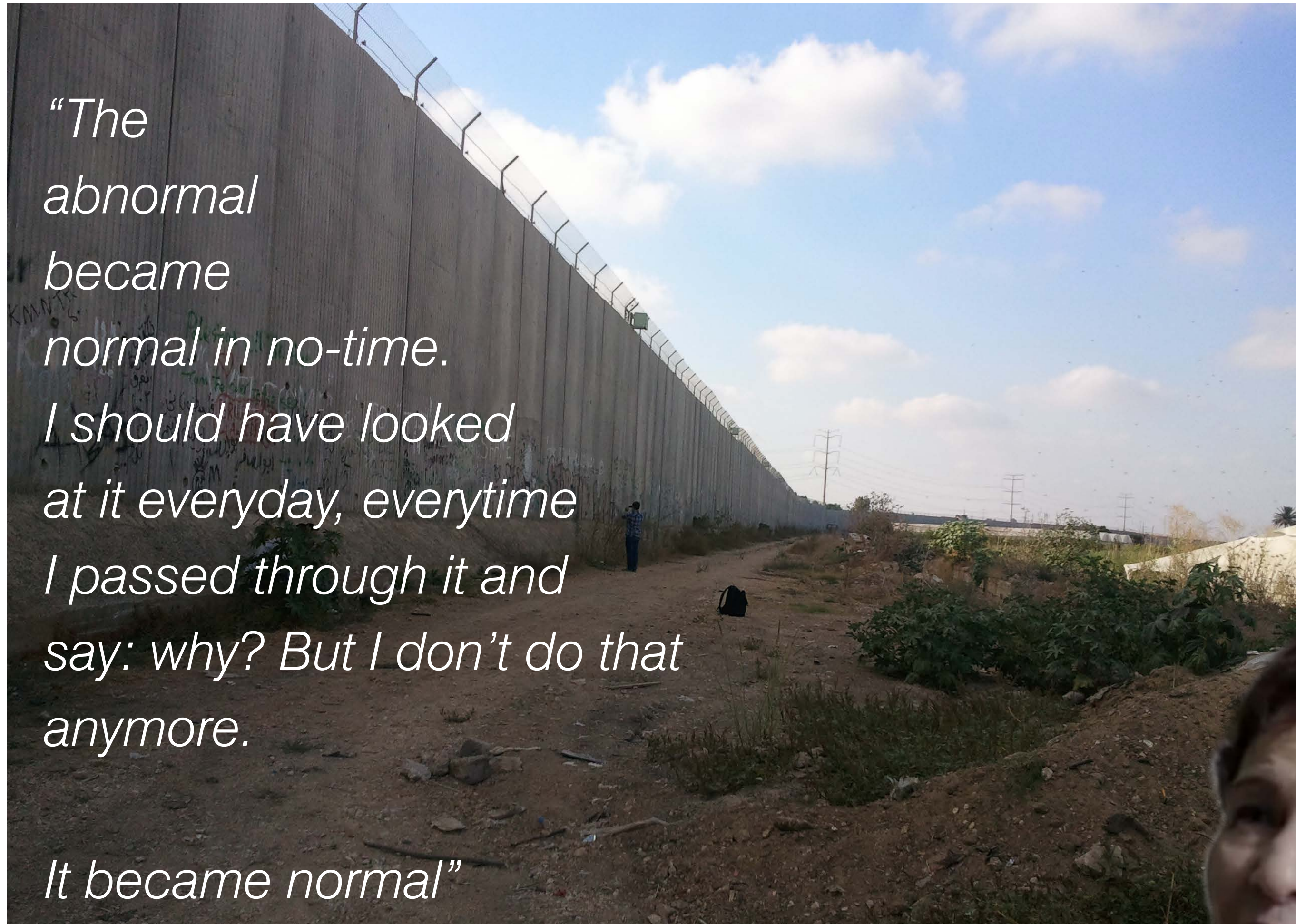


Design



Design

CONCLUSIONS



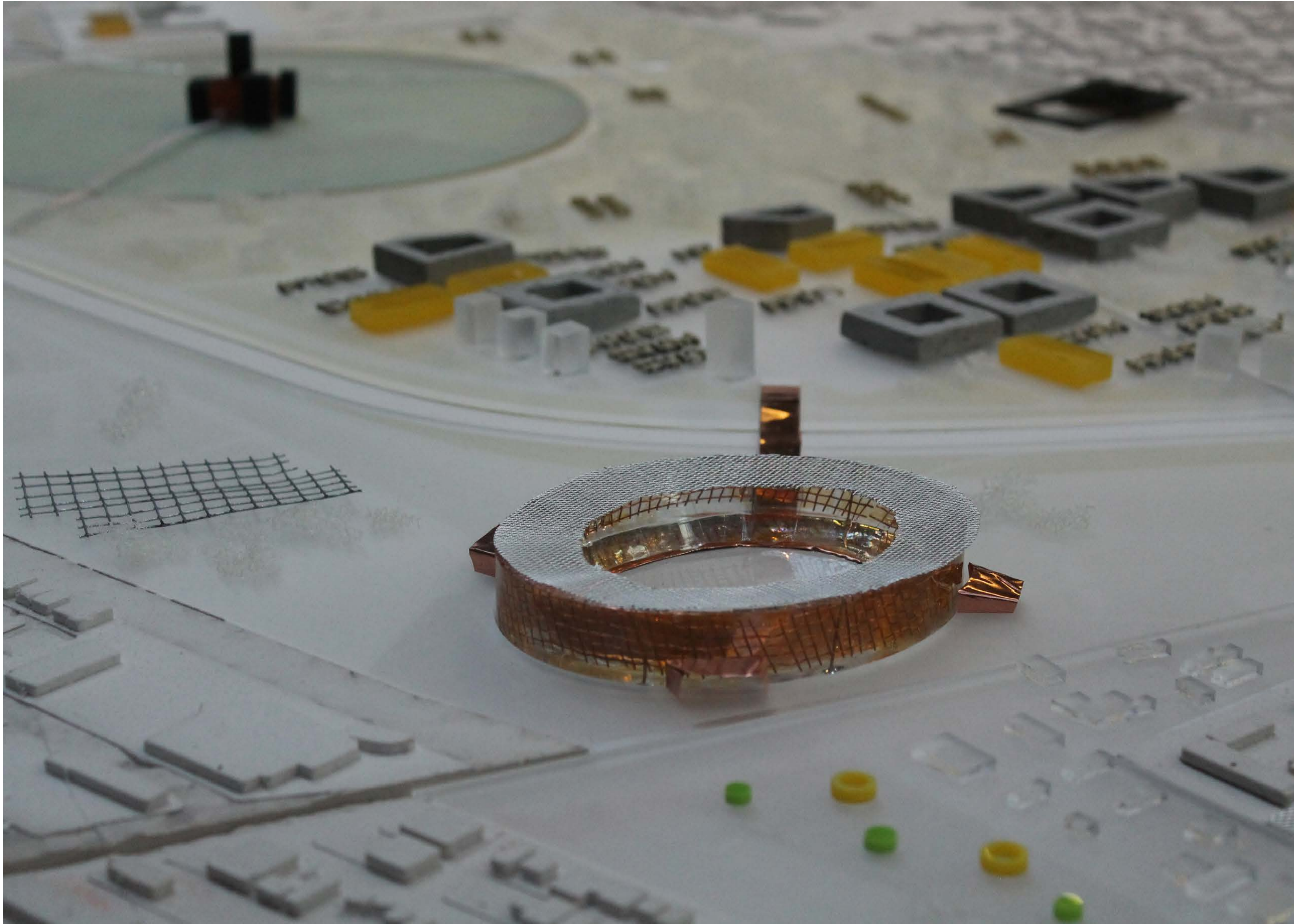
Miri Shapiro on the wall between Alfei Menashe and Qalqilya, Israel





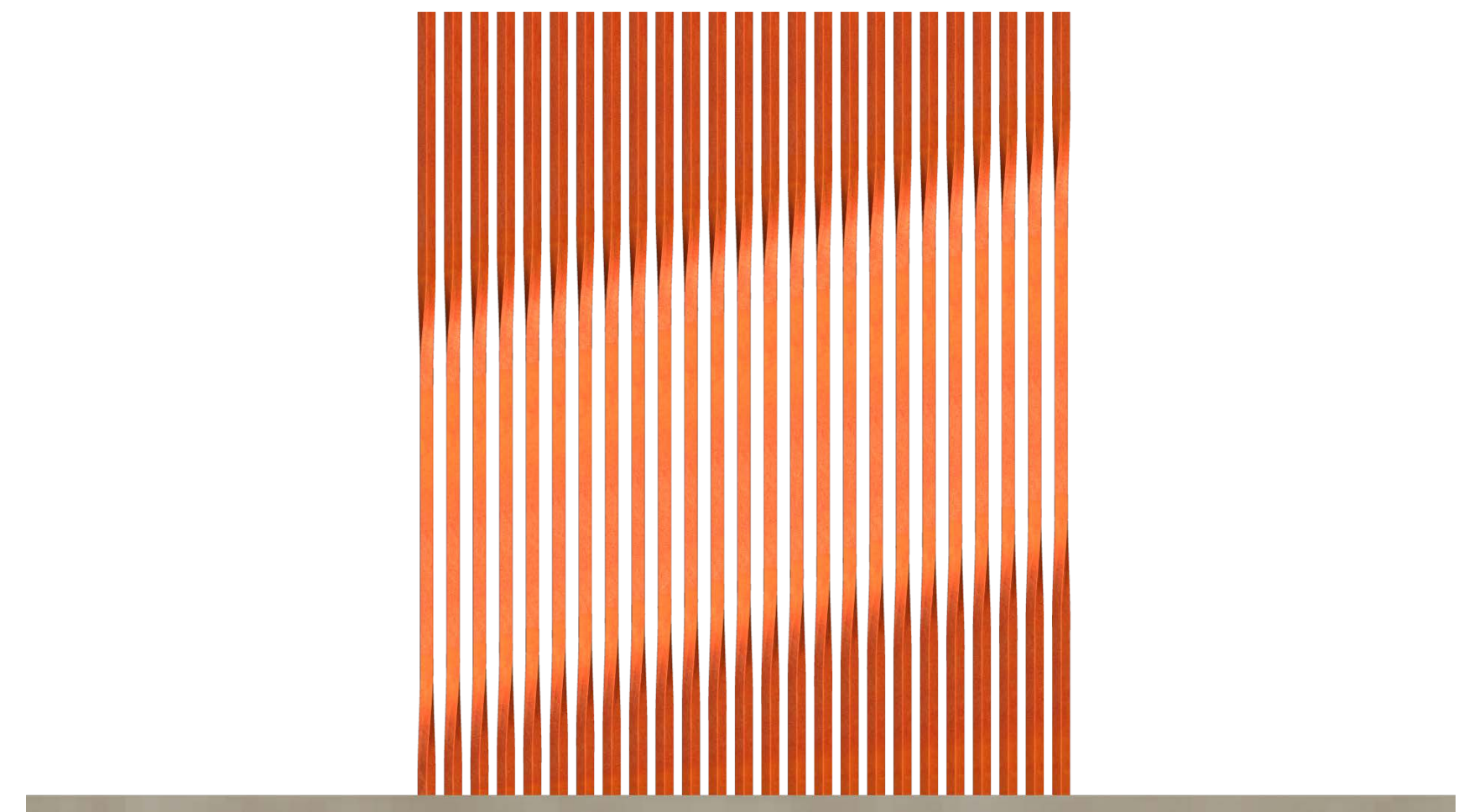
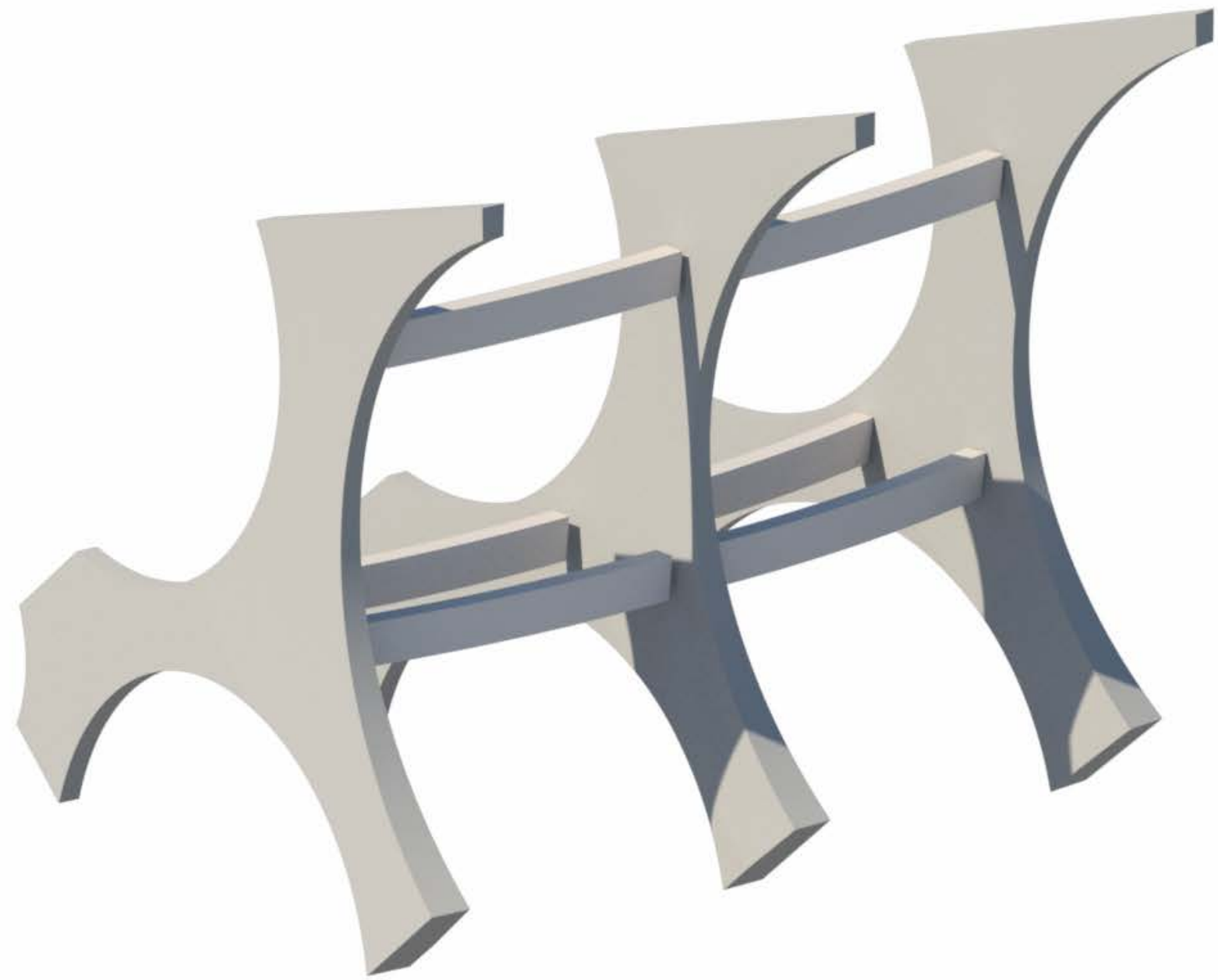


Conclusion

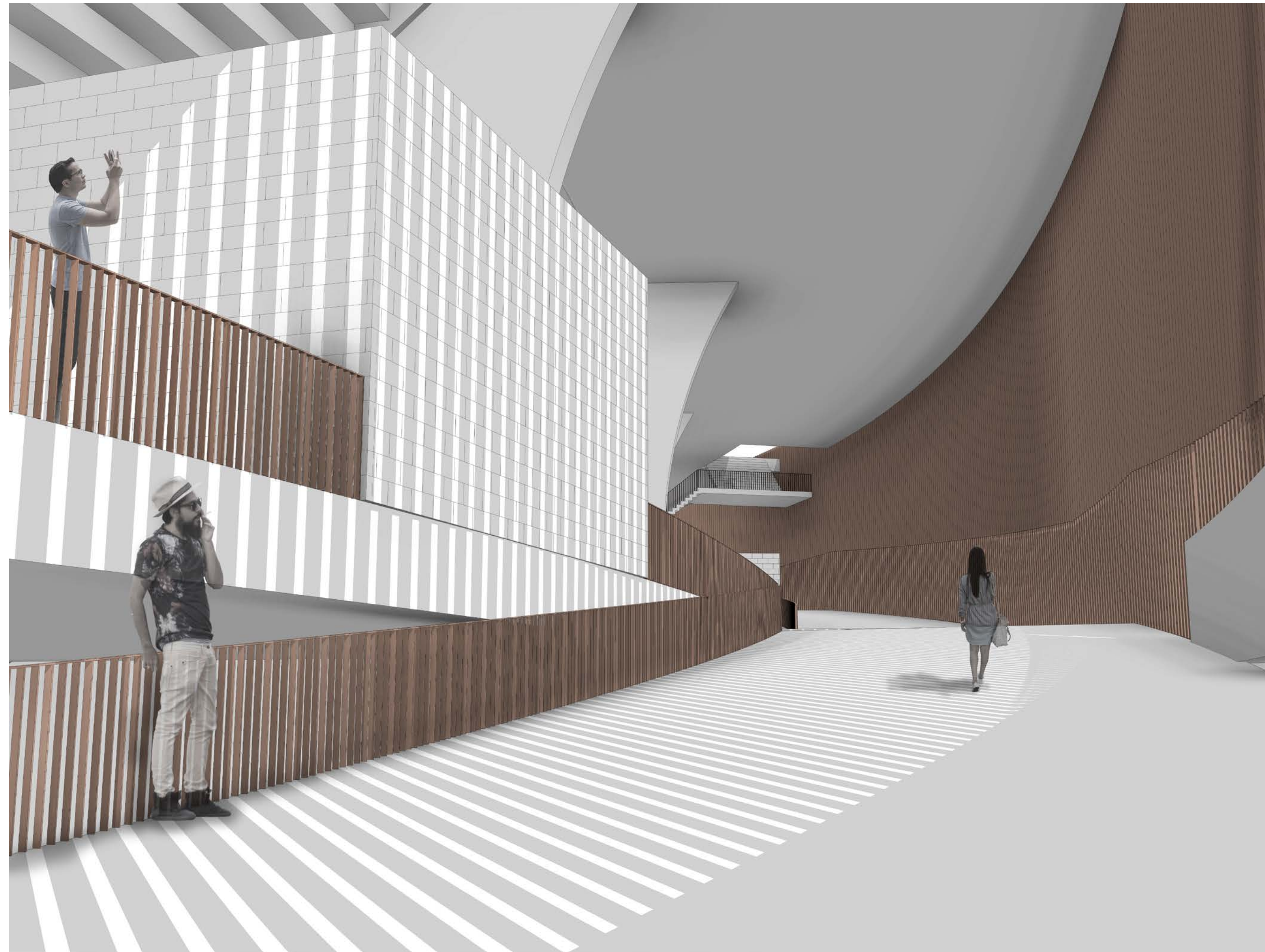


Conclusion

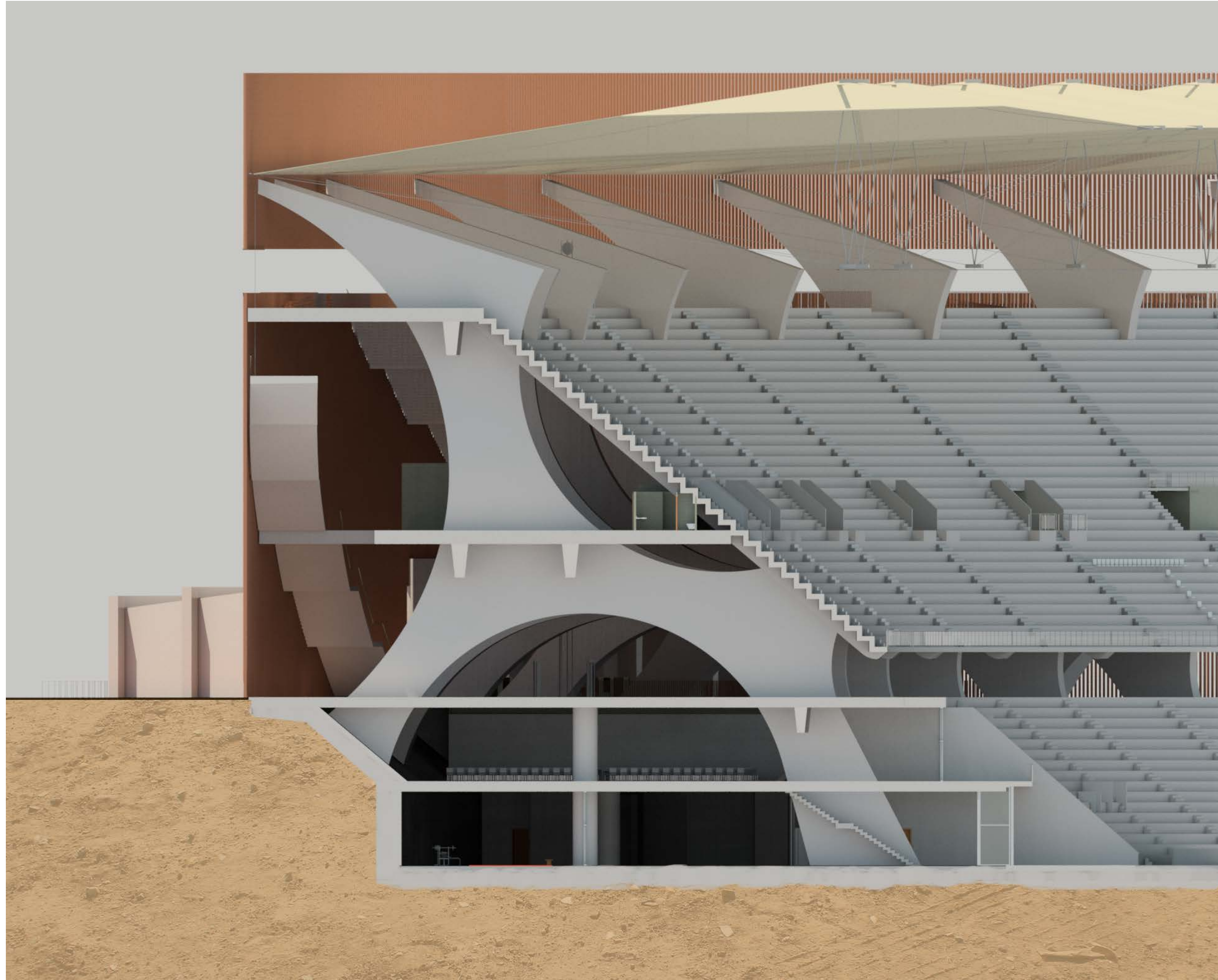




Conclusion



Conclusion



Conclusion