MACHINIC MAGIC

— Antea Divić

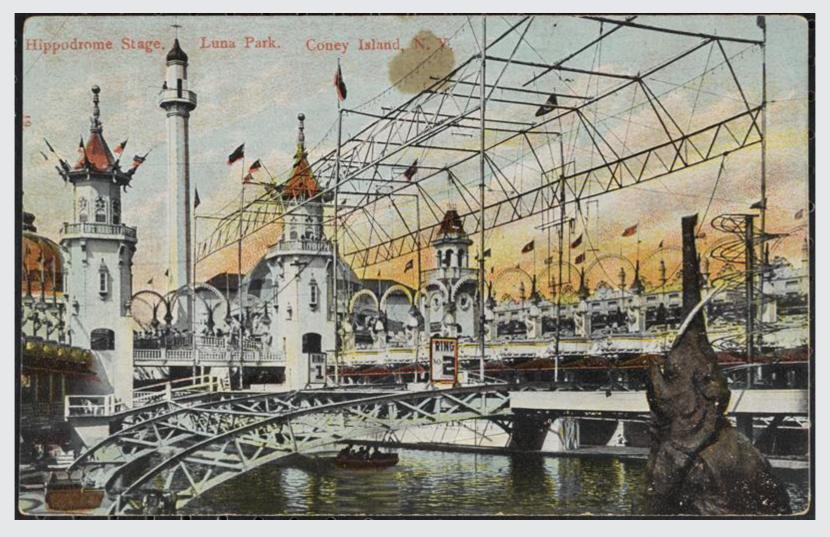
dr. ir. Stavros Kousoulas dr. ir. Heidi Sohn ir. Hubert van der Meel

Content

- fascination
- research
- synthesis
- design
- building technology

Fascination

Fascination

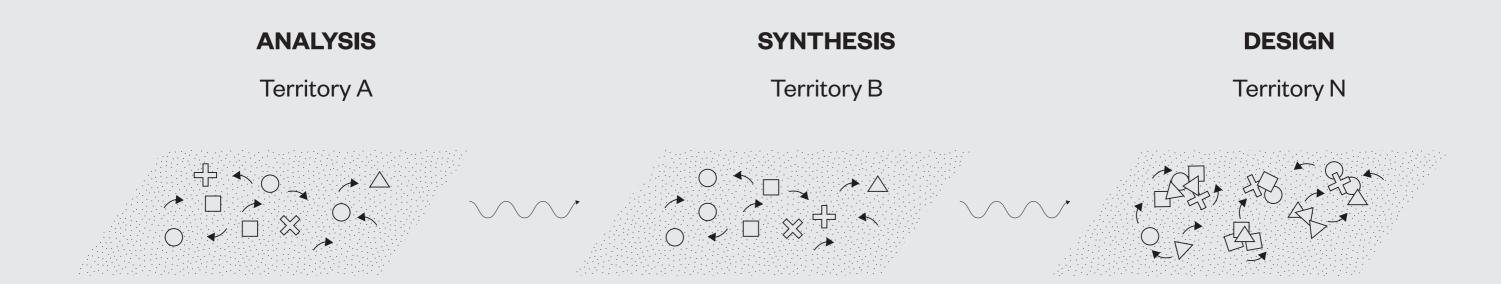


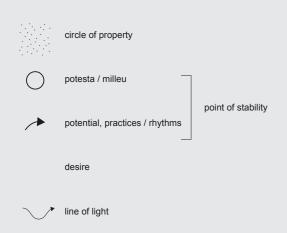
Luna Park, Coney Islad, NY, postcard, c1910

Research

— methodology, island, park, ride

Methodology





Methodology

Research question

How can *desire* (both individual and collective) as expressed in the current form of entertainment park help in re-evaluating the *value* of *play*?

Problems

- 1. Consumption oriented entertainment
- 2. Enclosed, fixed environment
- 3. Scripted and repetitive behaviour
- 4. Invariable experience
- 5. Subjects are absent and reactive
- 6. Privileging individual over collective
- 7. Objects are not completely fixed
- 8. Bodies in various positions
- 9. Memory of the day
- 10. Machinic

Sub-questions

How is the site organized?
What is the site doing?
What are the potentials of the site?

Why one wants to be absent and reactive?
Why one has the desire to

suppress oneself?
What are the forces that are imposing the rules?

Where and when in the entertainment park you suppress yourself?
What is the main element that makes entertainment park?

Method

island - layers - field

park - game - rules

ride - element - constraint

Research paper

Chapter 1 Island

Mapping the strip

Layers - architecture as stratum

Chapter 2 Park

Mapping the game

Rules - architecture as referee

Chapter 3 Ride

Mapping the furniture

Element - architecture as constraint

Mapping

"As a creative practice, mapping precipitates its most productive effects through a finding that is also a founding; its agency lies in neither reproduction nor imposition but rather in uncovering realities previously unseen or unimagined, even across seemingly exhausted grounds. Thus, mapping unfolds potential; it re-makes territory over and over again, each time with new and diverse consequences."

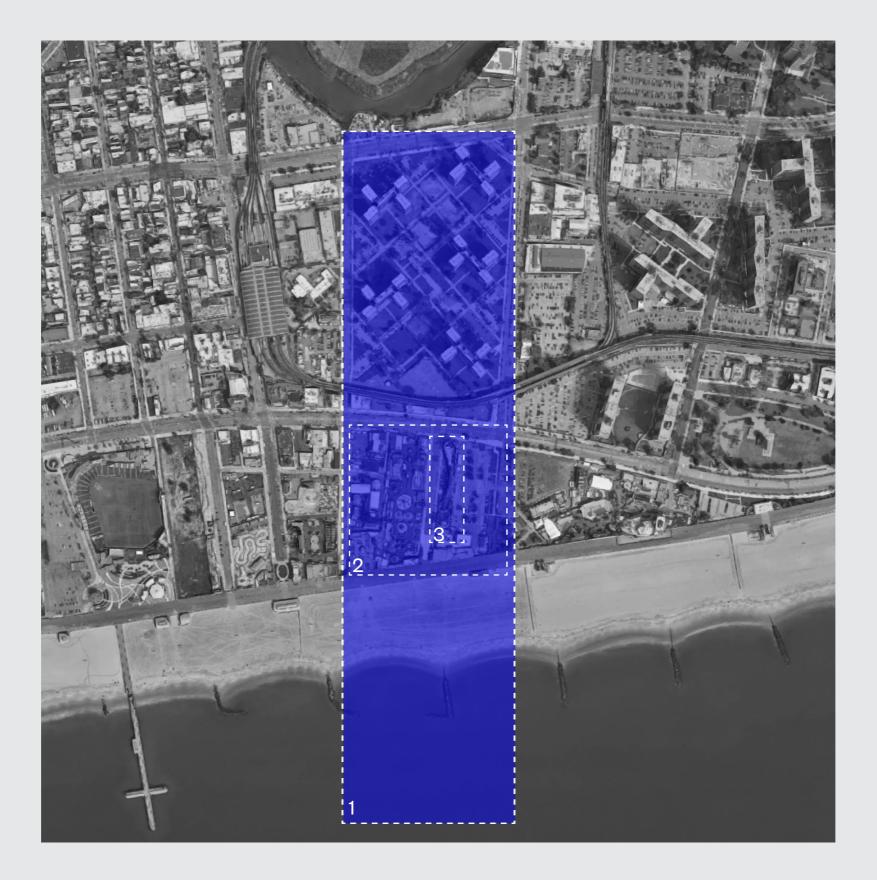
The Agency of Mapping: Speculation, Critique and Invention

James Corner

Island



Strip — Game — Element



Layers

— architecture as stratum

Function Movement Use Speed

ProgramForcesScaleFlowsTypologyActionsMorphologyElements

Territories

Rhythms Habits

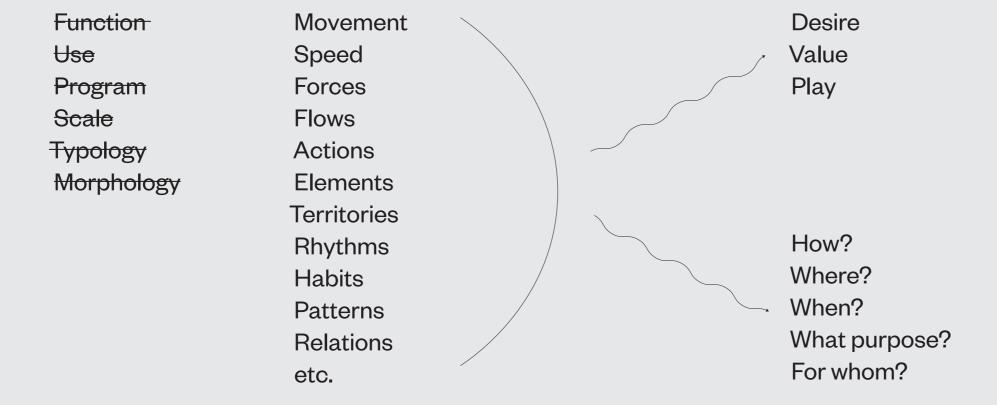
Patterns

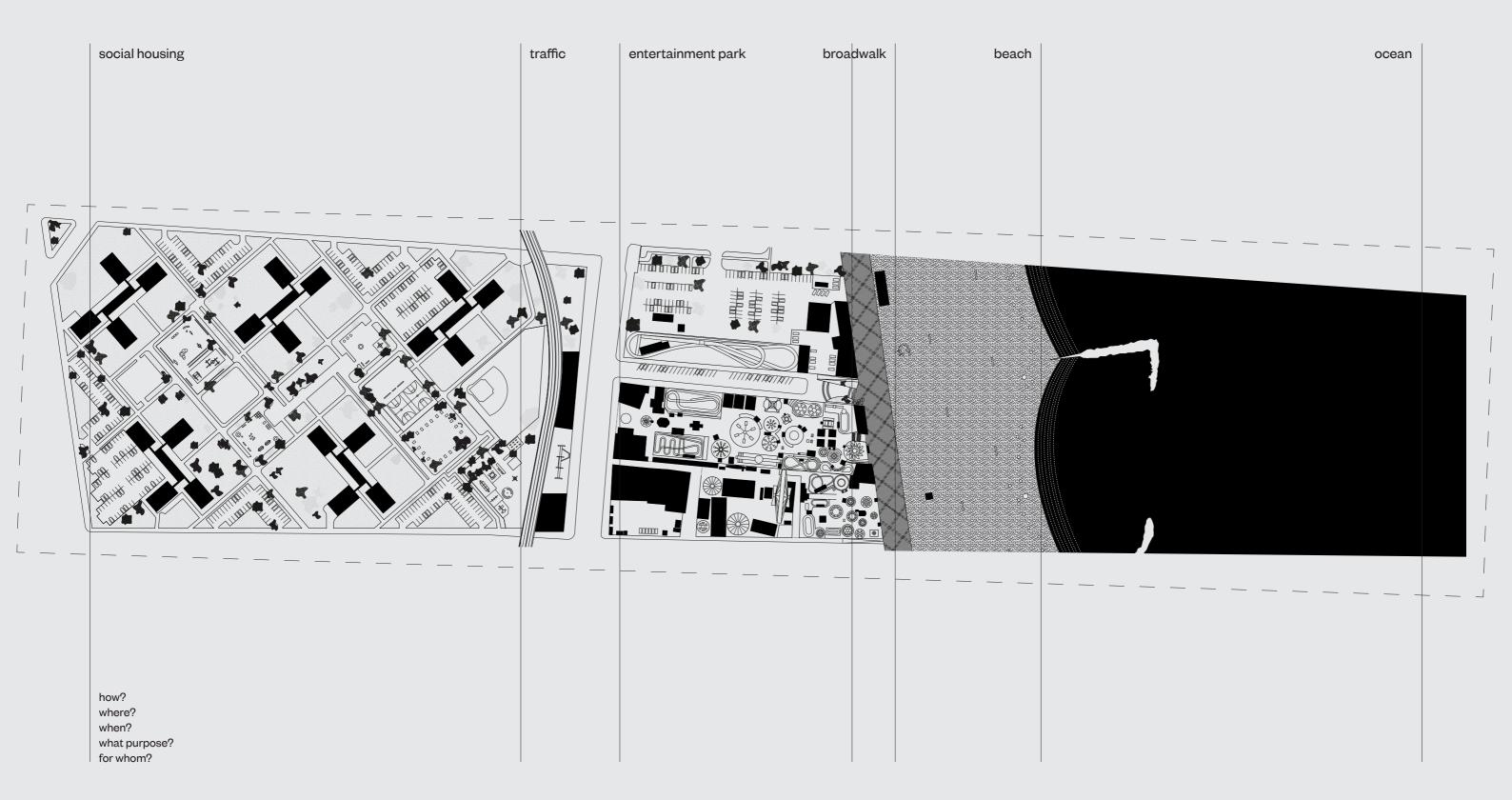
Relations

etc.

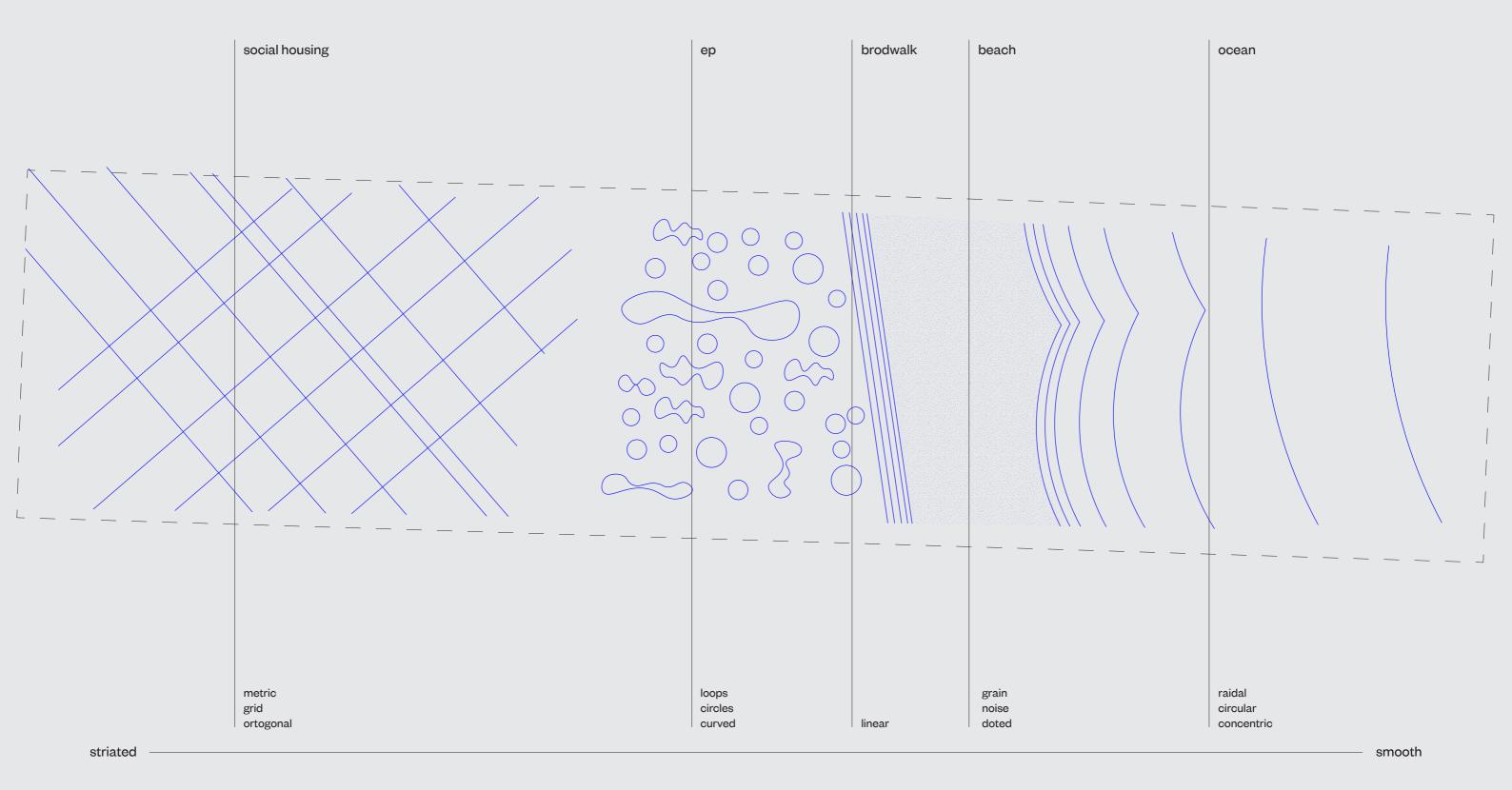
Layers

— architecture as stratum

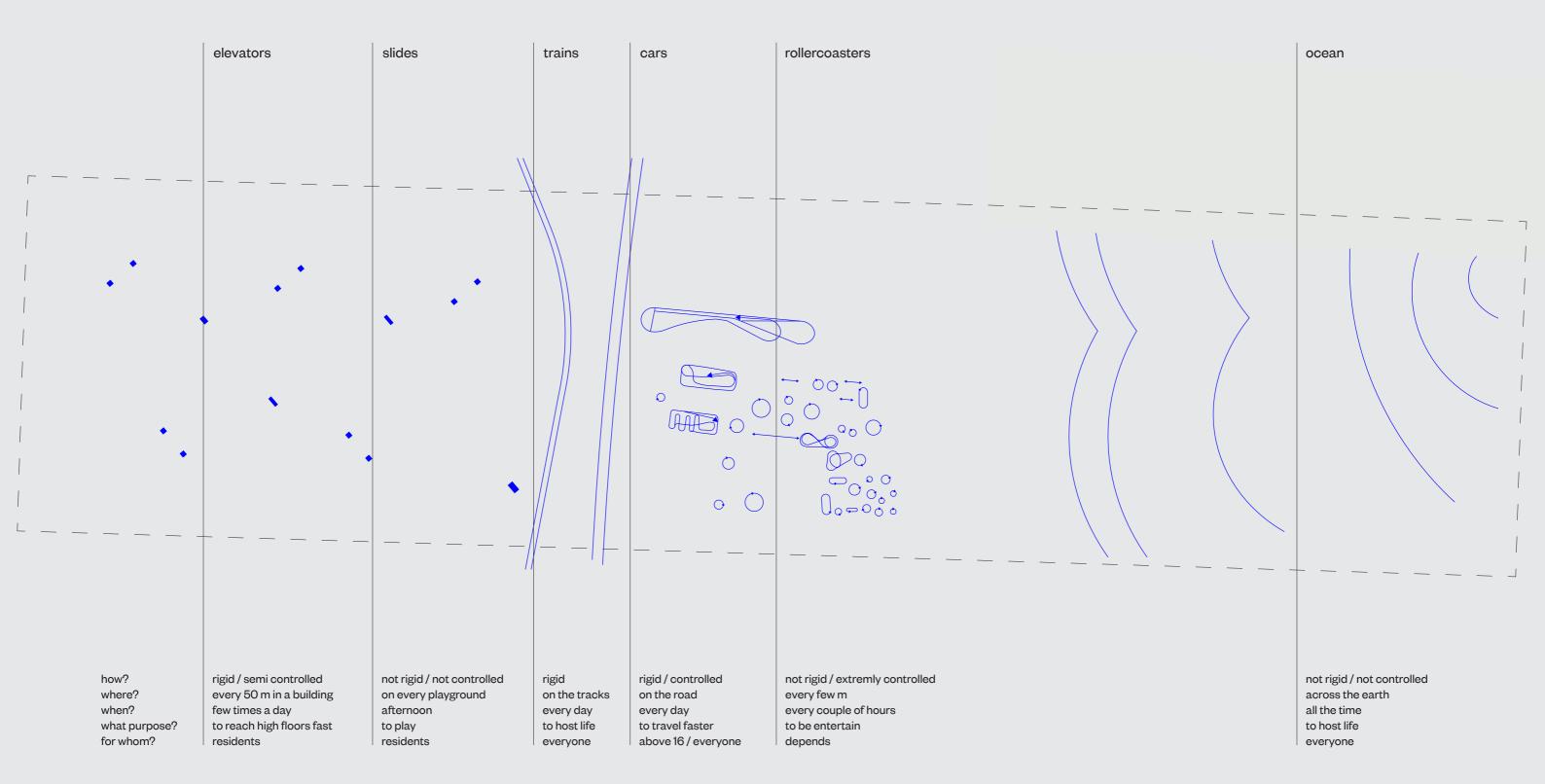




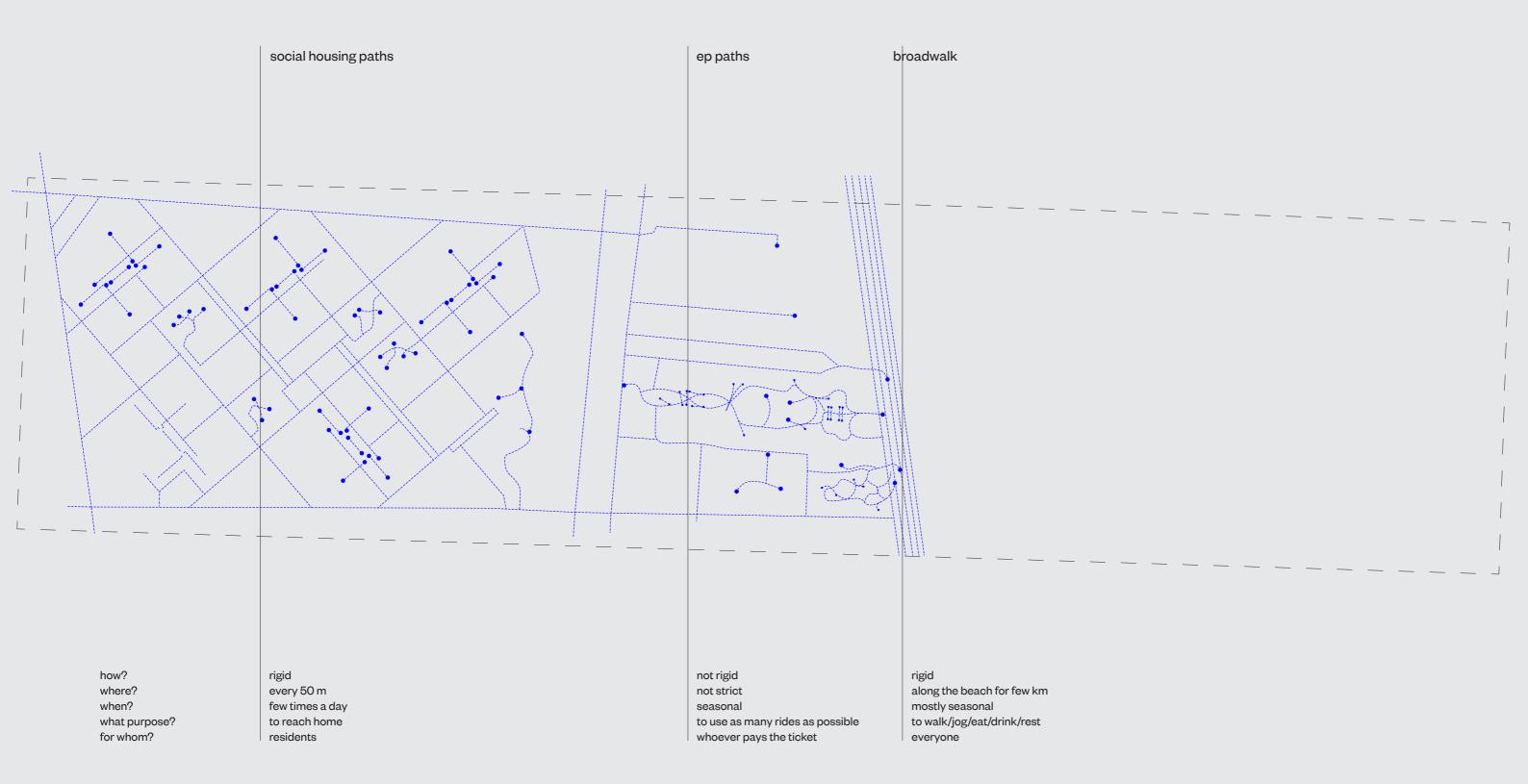
— patterns



— fast movement



— medium movement



Strip

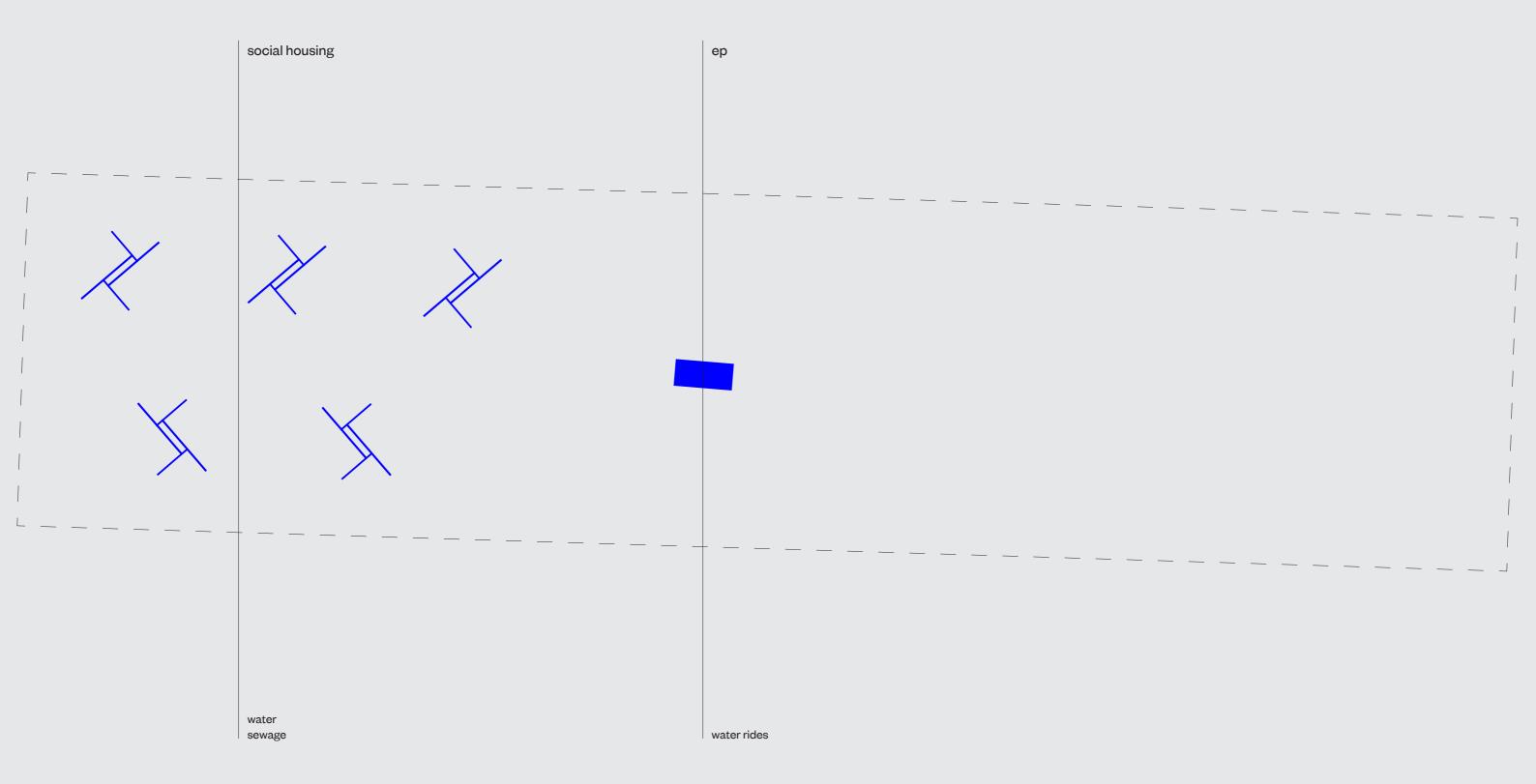
- slow (0) movement



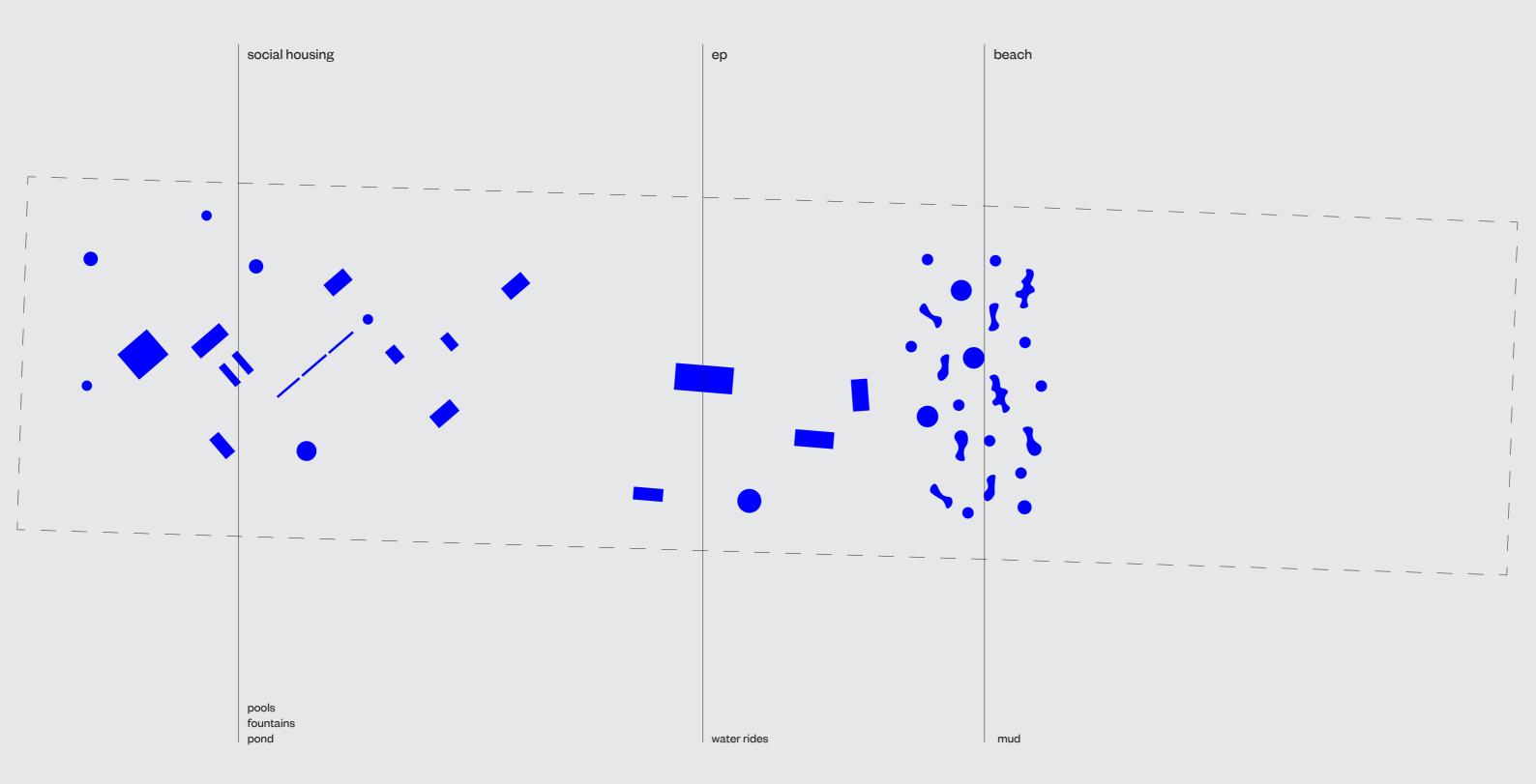
— forces

social housing	train	ер	brodwalk	beach	ocean
central (?) normal tension	gravitational friction magnetic normal acceleration	gravitational centrifugal centripetal normal inertia acceleration	gravitational	gravitational	tidal

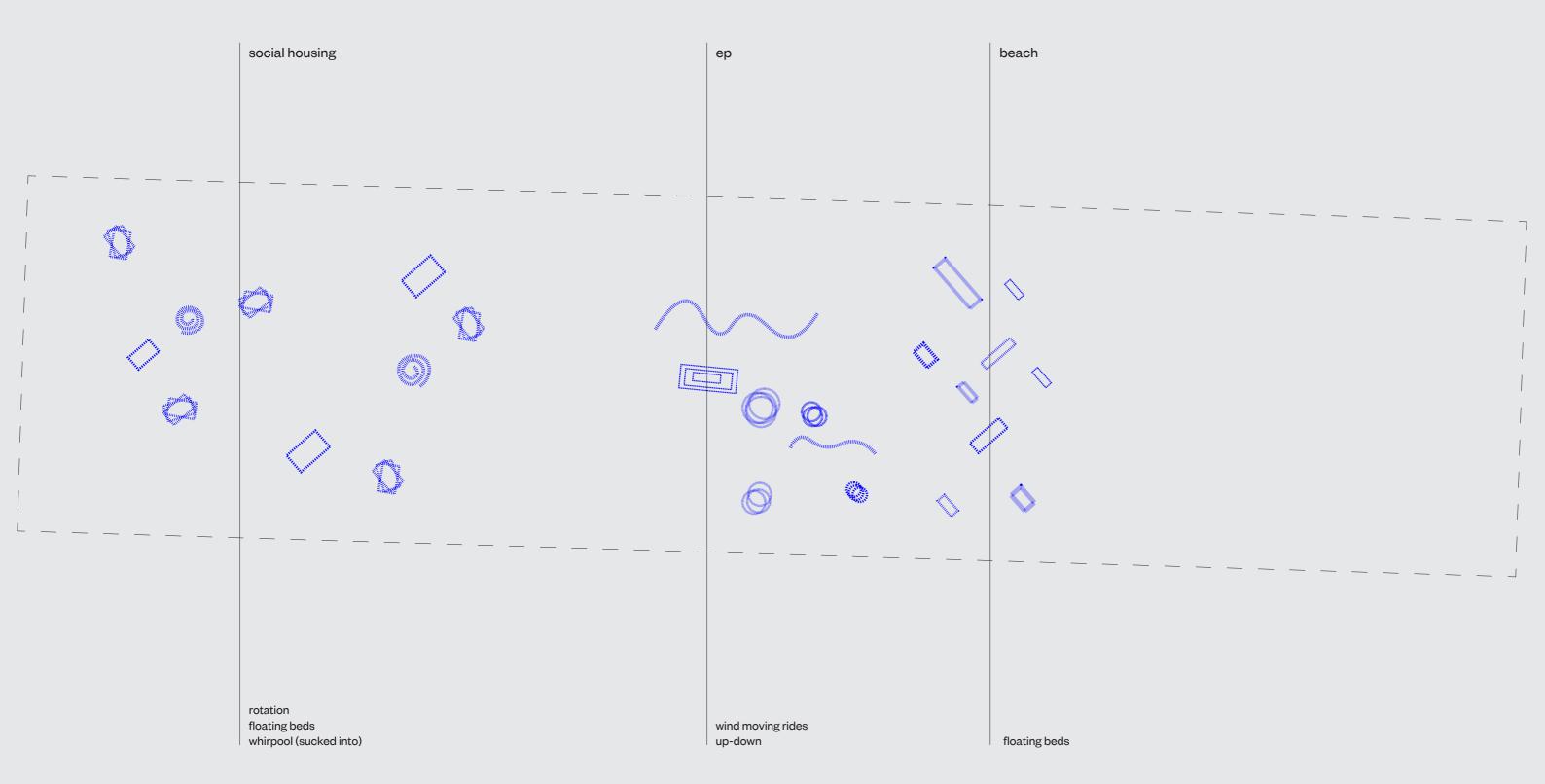
— ocean, unleashed forces



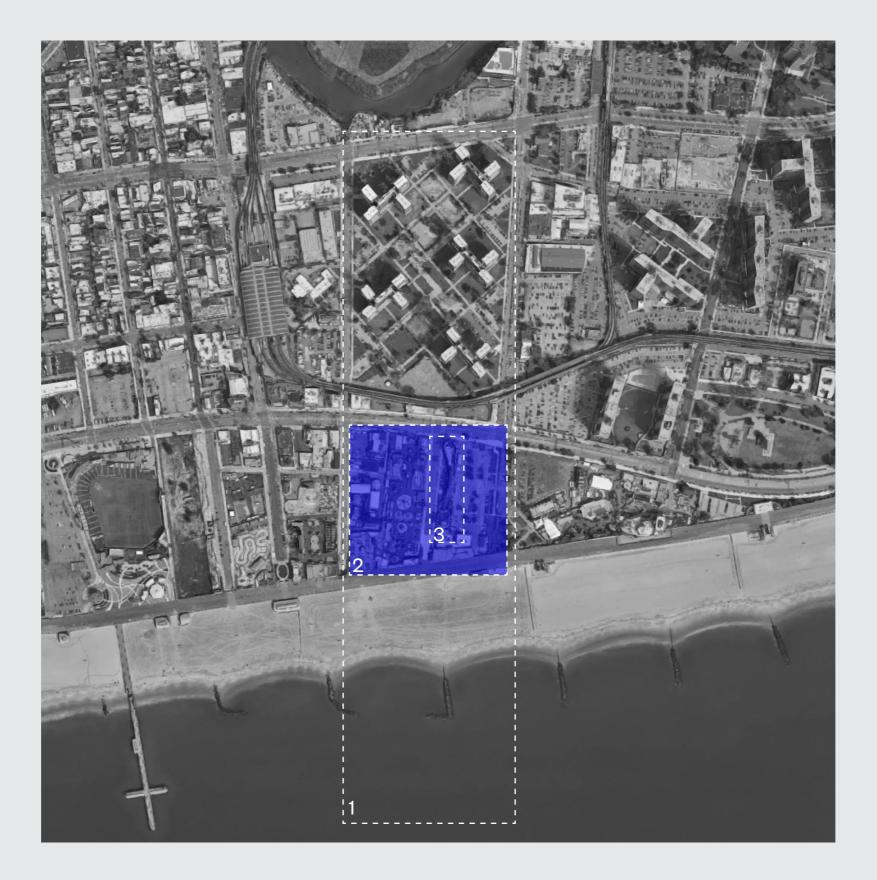
— ocean, unleashing forces

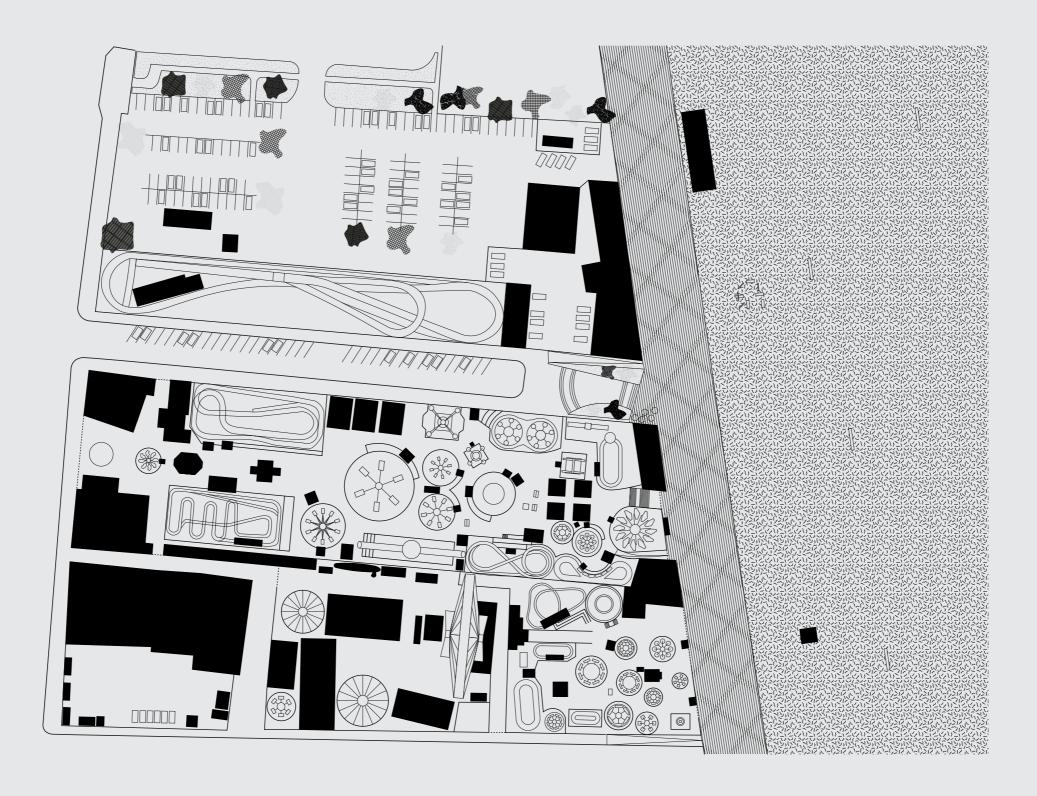


— ocean, unleashing forces



Strip — Game — Element

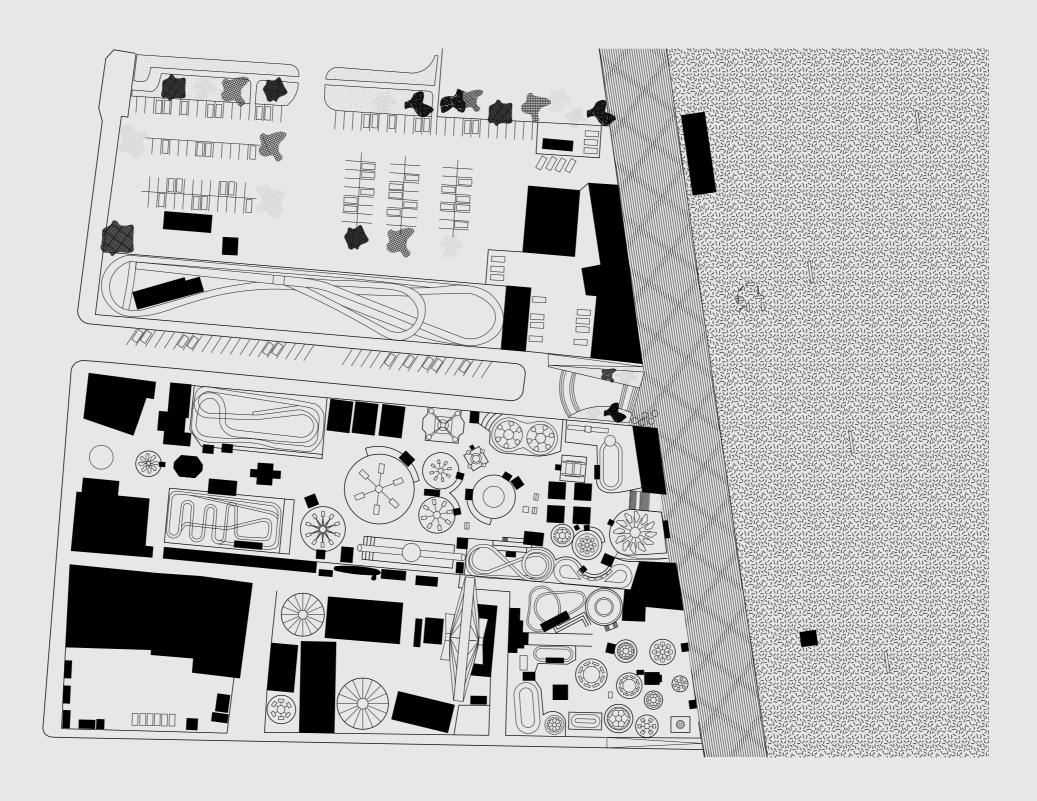




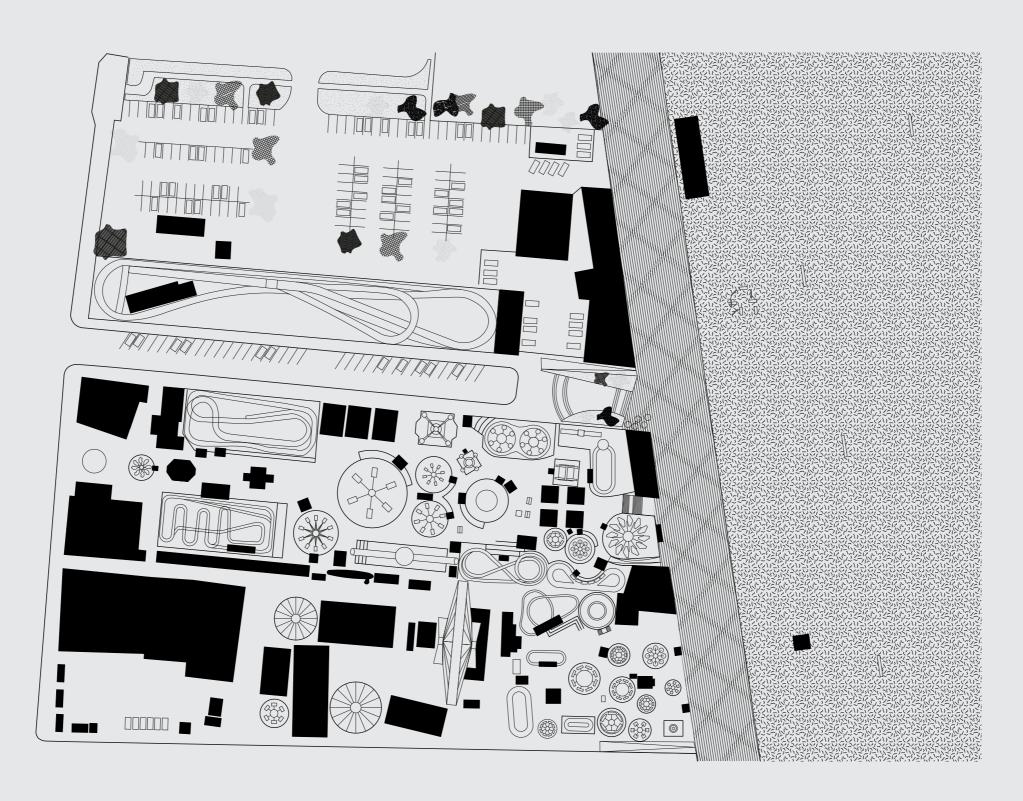
Antea Divić — P5

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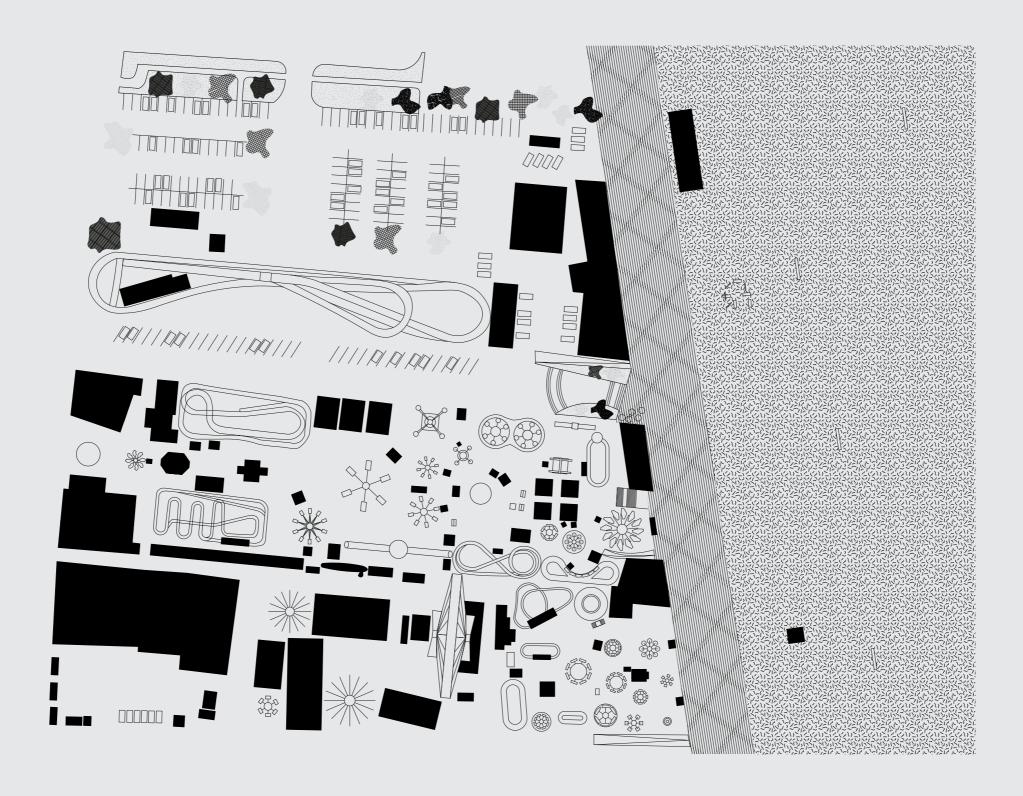
- doors



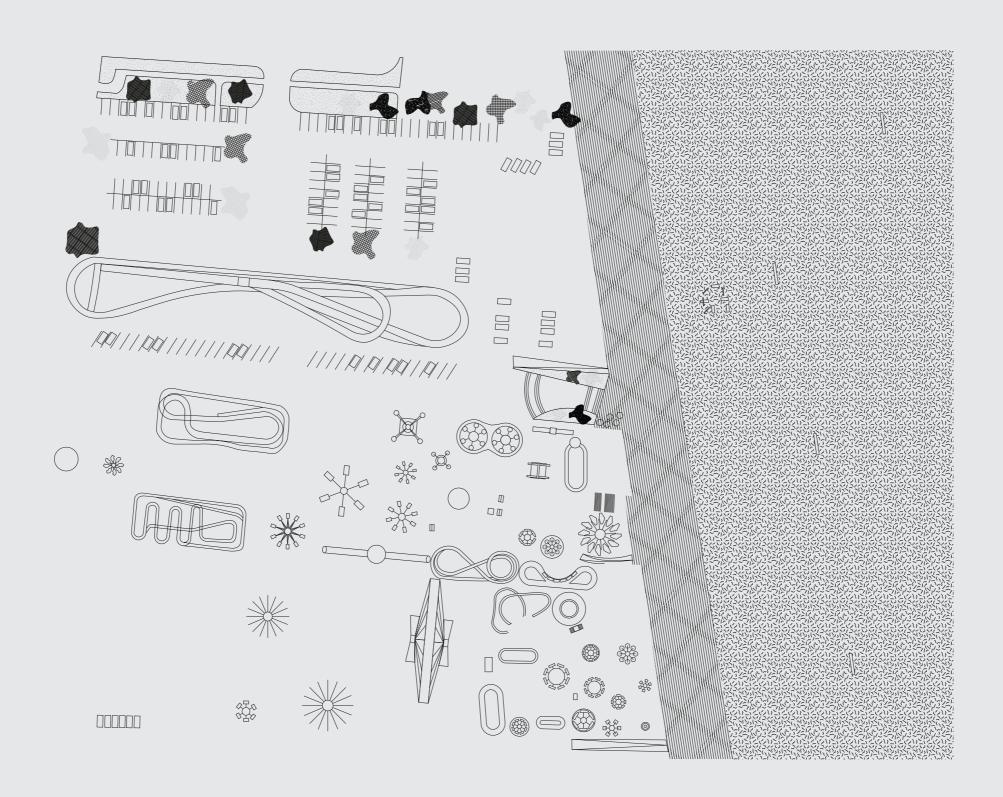
— fence outside



— fence inside



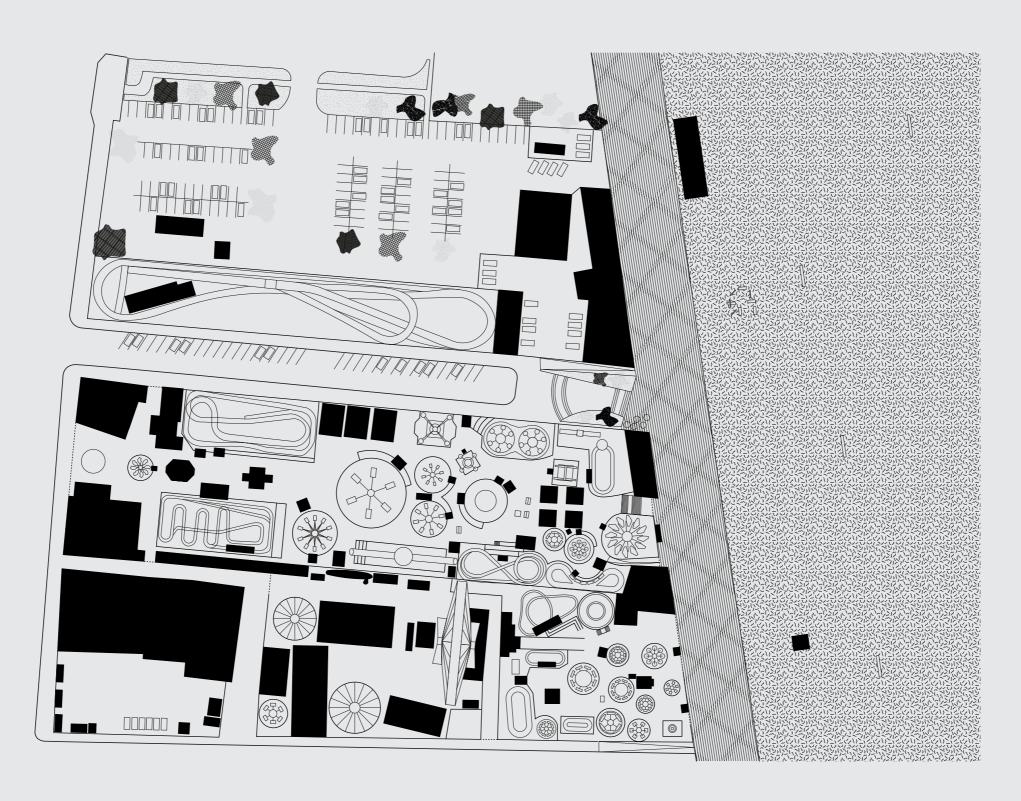
— buildings



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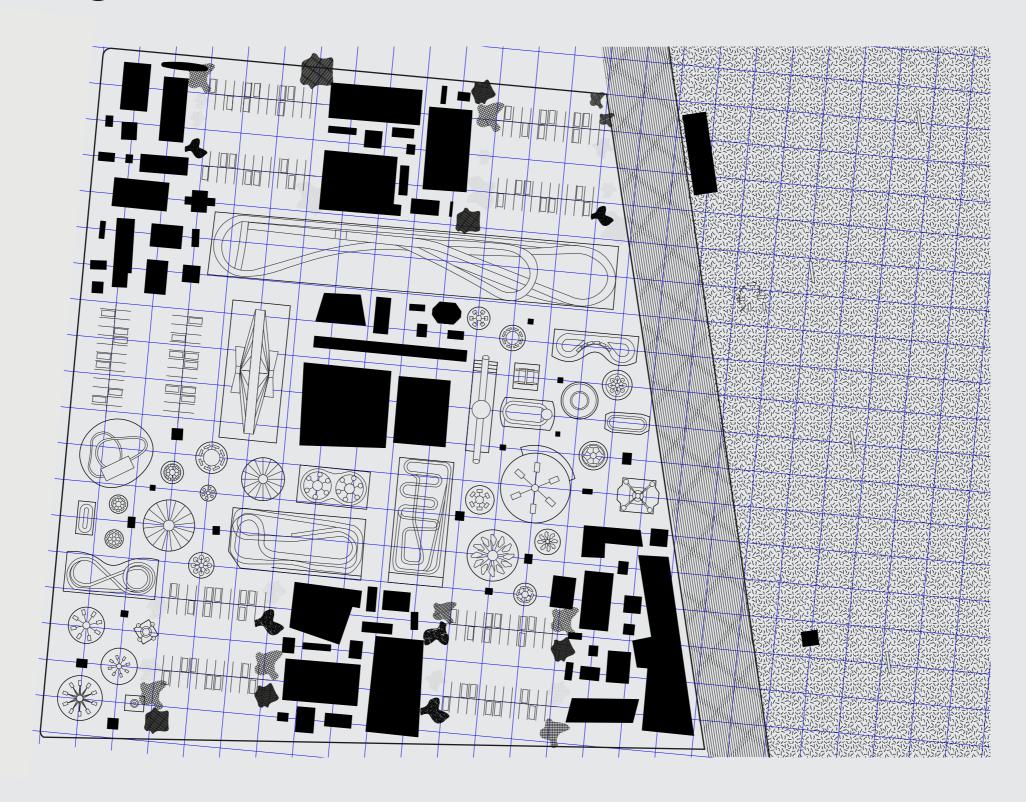
Rules

— architecture as referee



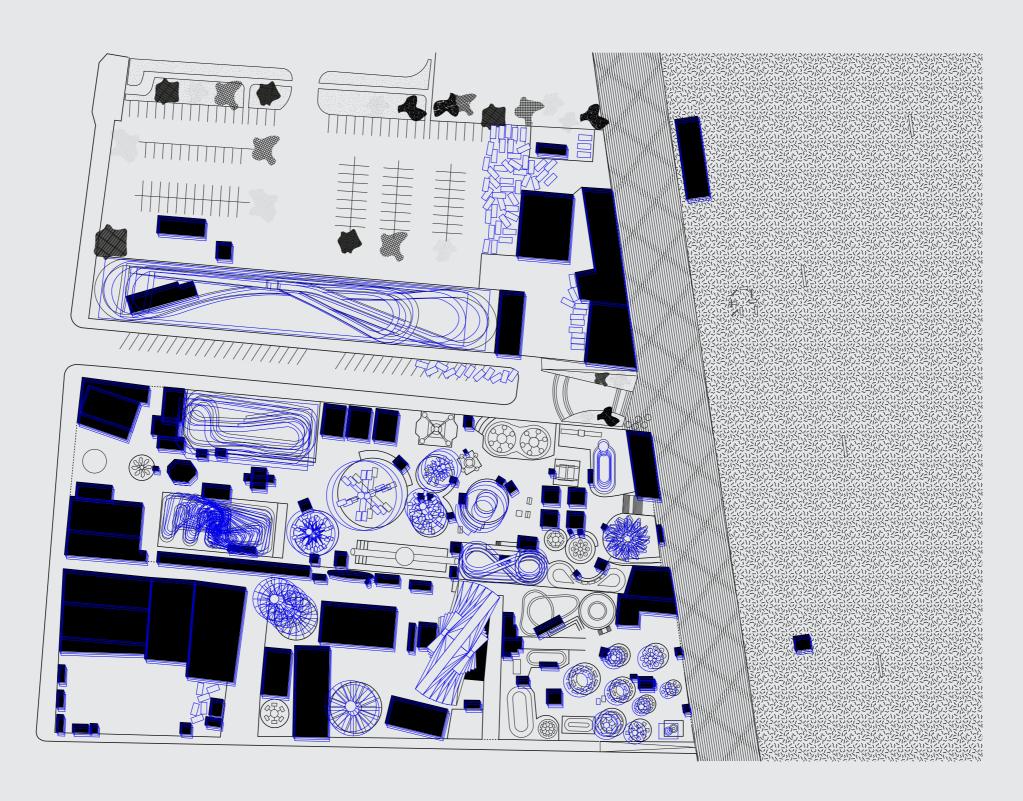
Entertainment park

— rules of housing



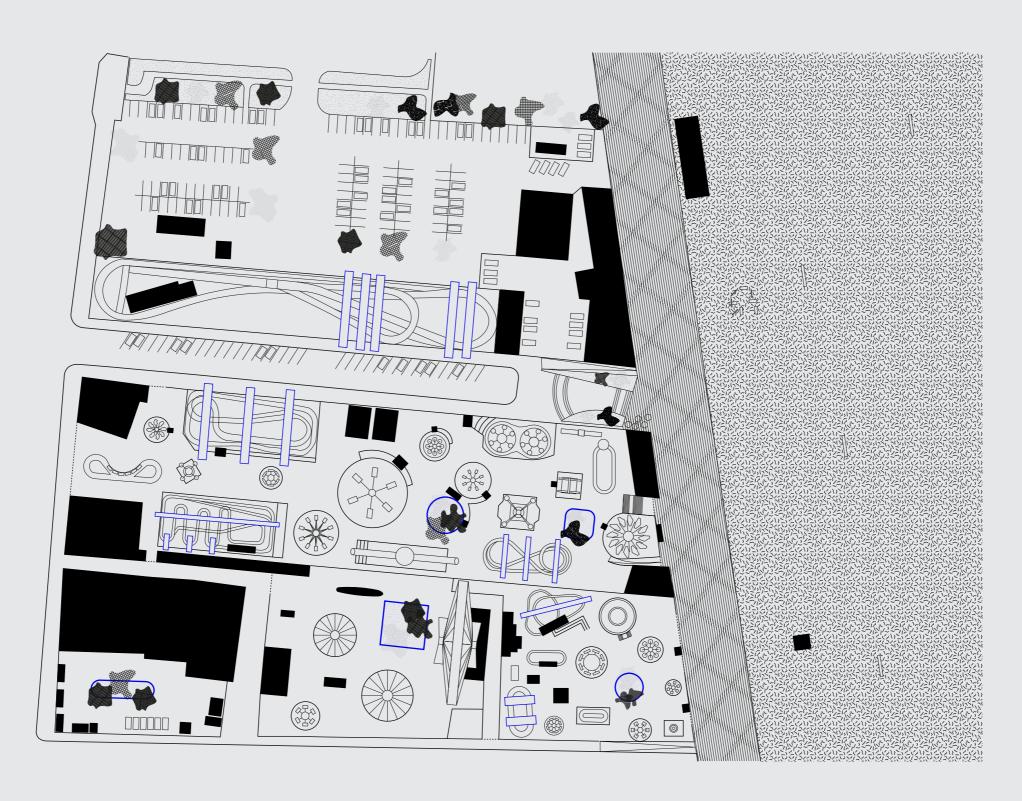
Entertainment park

- rules of sea



Entertainment park

- rules of sand



Rules

— architecture as referee

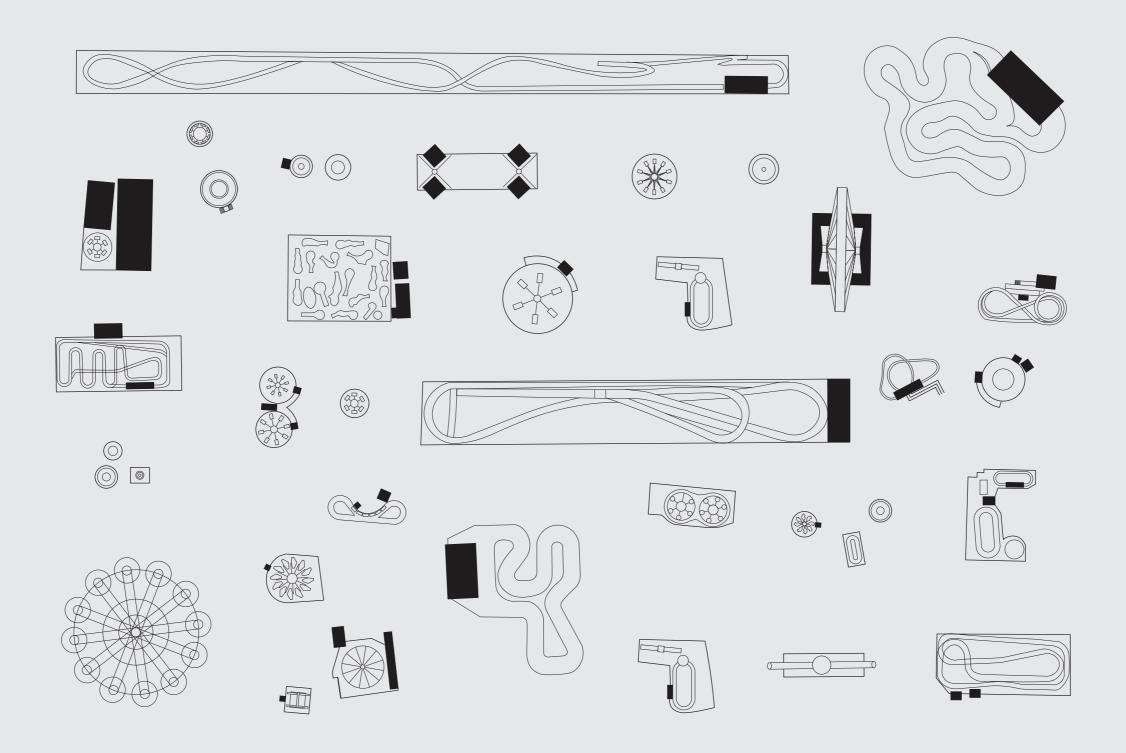
	wall	fence	entrance	stairs
elements				
habits				

Strip — Game — Element



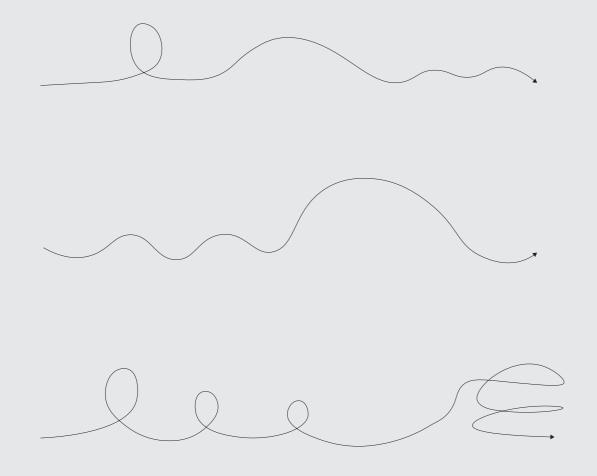
Ride

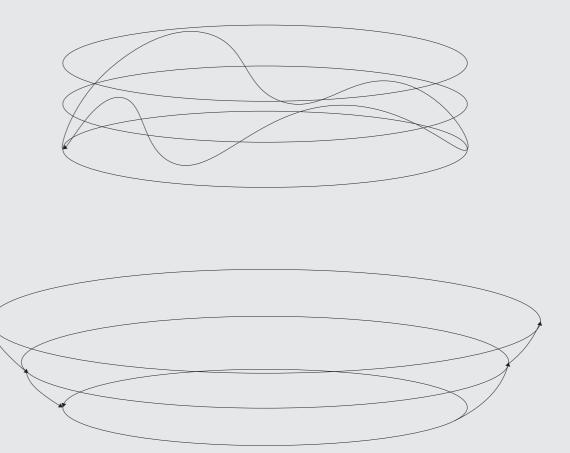
— architecture as a constraint



Ride

— architecture as a constraint

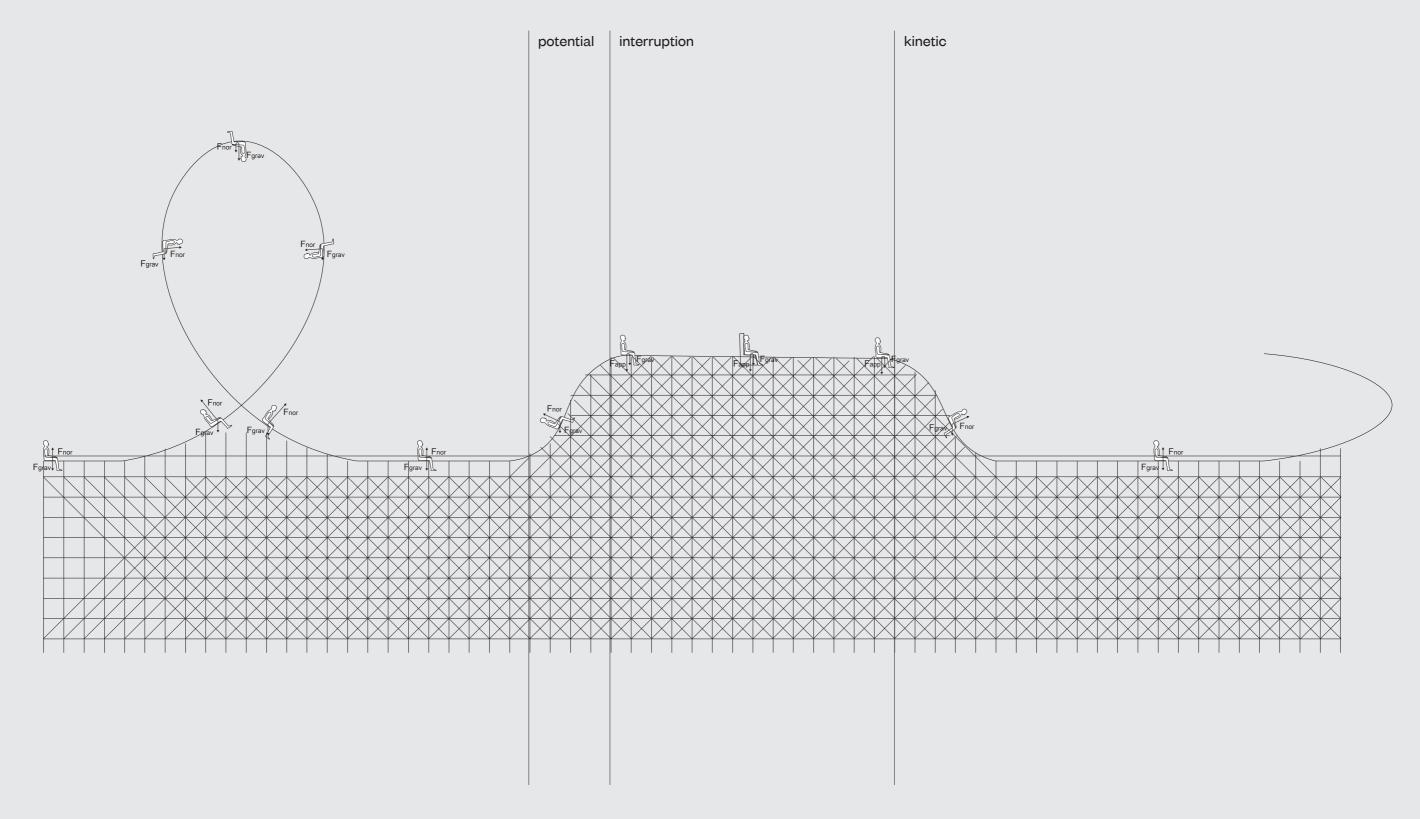






Ride

— architecture as constrain



Synthesis

— methodology, conclusion, what if, design question

Methodology

Method	Conclusions	What if?	Design questions
island - layers - field	 Architecture captures and control the flows Territories are formed in encounter of different forces Forces overflow the territories 	we follow the flows instead of controlling them? territories shift? forces of one territory overflow to another?	How to intuit the following of flows and break them accordingly in order to produce the potentials?
park - game - rules	 Architecture is a rule giver and a referee Rules create habits and rituals Subjects suppress themselves because of the desires 	there are no rules? the rules are shifted? door, fence, walls are removed?	How to create architecture where subjects generate their own rules depending on their own activity and complying to them?
ride - element - constraint	 Architecture is a producer of constraints Constraint affords experience Constraint can lead to production and / or consumption 	this experience is introduced somewhere else? the shape is translated into something else?	How can a constraint connect production and consumption of the subject that undergoes it?

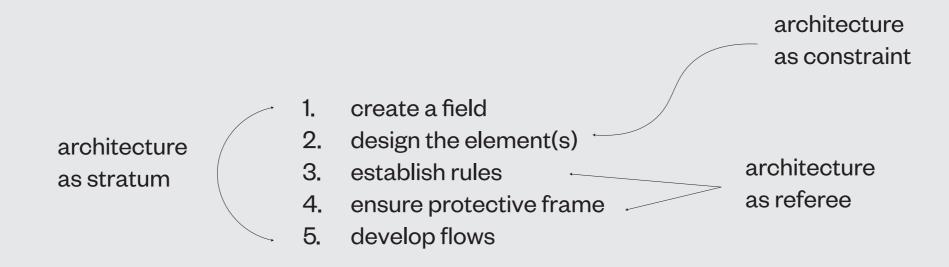
Design

— brief, methodology, project(s)

Brief

- 1. create a field
- 2. design the element(s)
- 3. establish rules
- 4. ensure protective frame
- 5. develop flows

Brief



Methodology

Design questions	Purpose	Proposal	Theory	Design
How to intuit the following of flows and break them accordingly in order to produce the potentials?	different reality	performative architecture	circle of possession / expression	membrane / skin
How to create architecture where subjects generate their own rules depending on their own activity and complying to them?	new subjectivity	event	line of light	movement
How can a constraint connect production and consumption of the subject that undergoes it?	play	deviant objects	point of stability	markers

Research paper

Chapter 1 Island

Mapping the strip

Layers - architecture as stratum

Chapter 2 Park

Mapping the game

Rules - architecture as referee

Chapter 3 Ride

Mapping the furniture

Element - architecture as constraint

Project(s)

Chapter 1 Island

Mapping the strip

Layers - architecture as stratum

Chapter 2 Park

Mapping the game

Rules - architecture as referee

Chapter 3 Ride

Ride

Mapping the furniture

Element - architecture as constraint

Membrane

Creating the field

Layers - architecture as stratum

Movement

Transforming the ways

Rules - architecture as referee

Markers

Introducing the intensities

Element - architecture as constraint

Approach

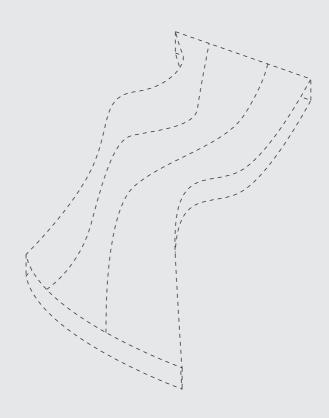
"Designers are very good at making things, but medium design is less like making a thing and more like having your hands on the faders and toggles or organizations. It is the design of interdependencies, chemistries, chain reactions and ratches. It benefits from an artistic curiosity about spatial wiring or reagents in spatial mixtures, a curiosity about designing not a single object but a platform for inflecting populations of objects or setting up relative potentials within them."

Medium Design Keller Easterling

Membrane

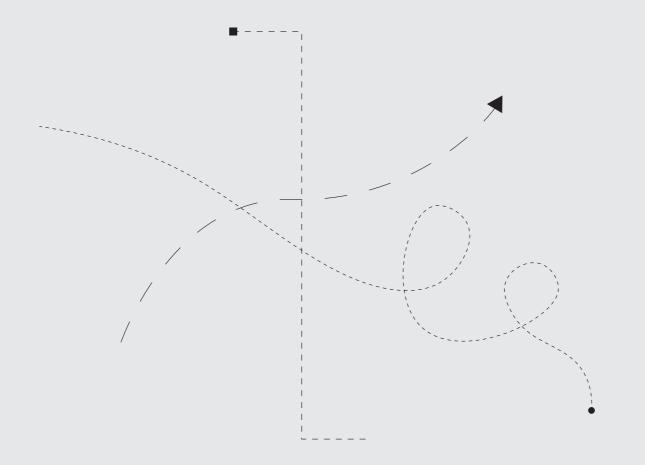
— playful slab





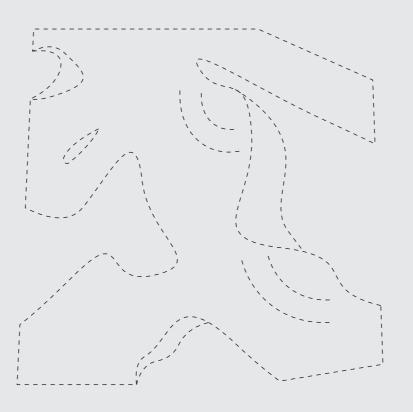
Movement

— ways of playing



Markers

— elements of play

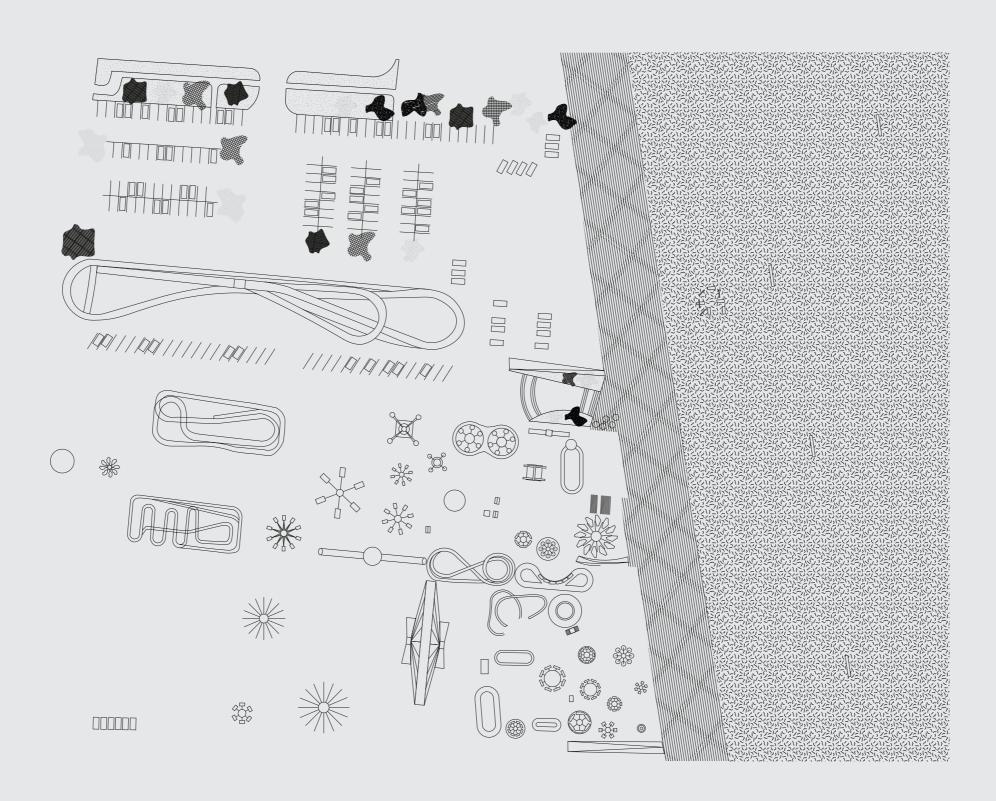


Conceptual drawings



Rules

— architecture as referee





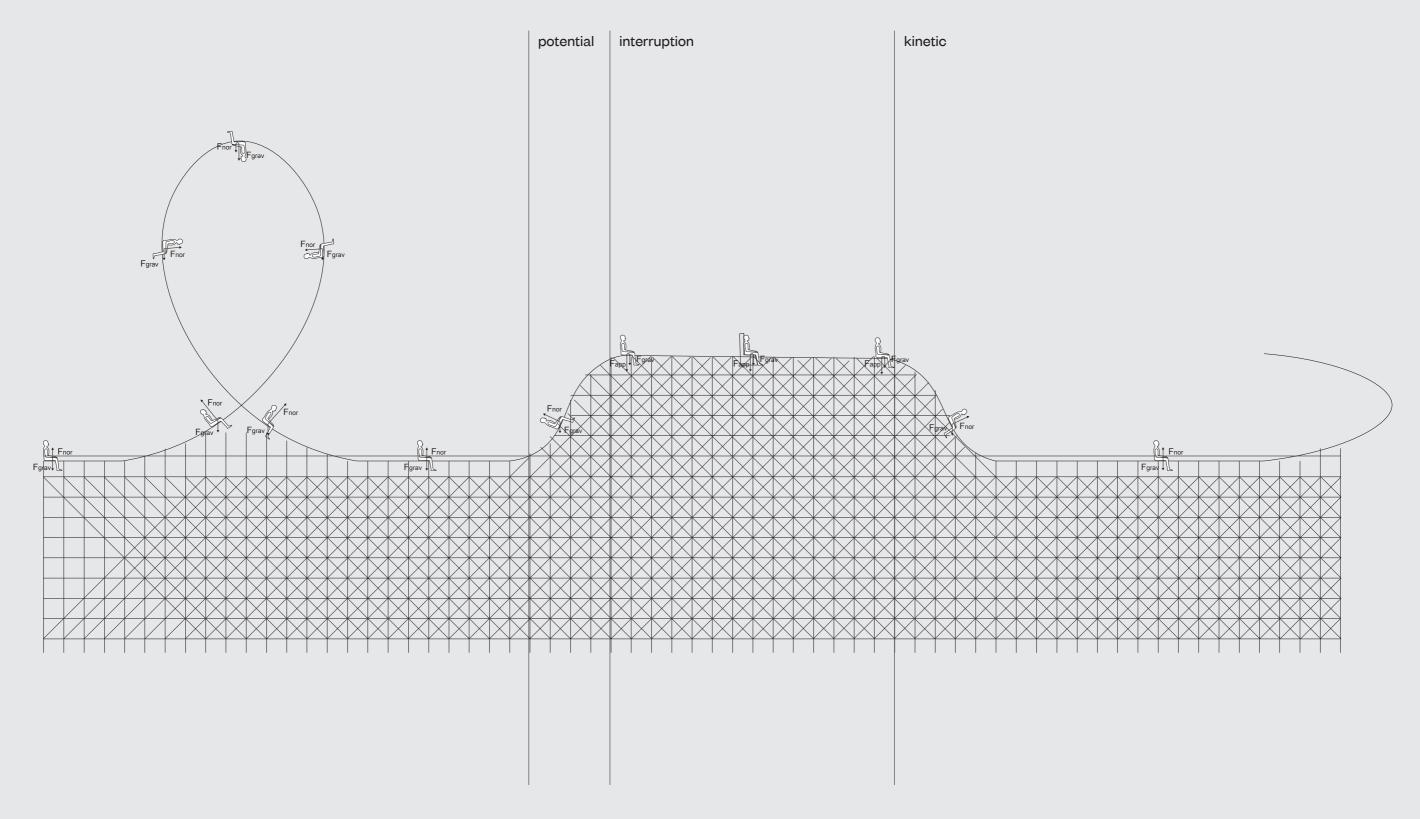
Antea Divić — P5

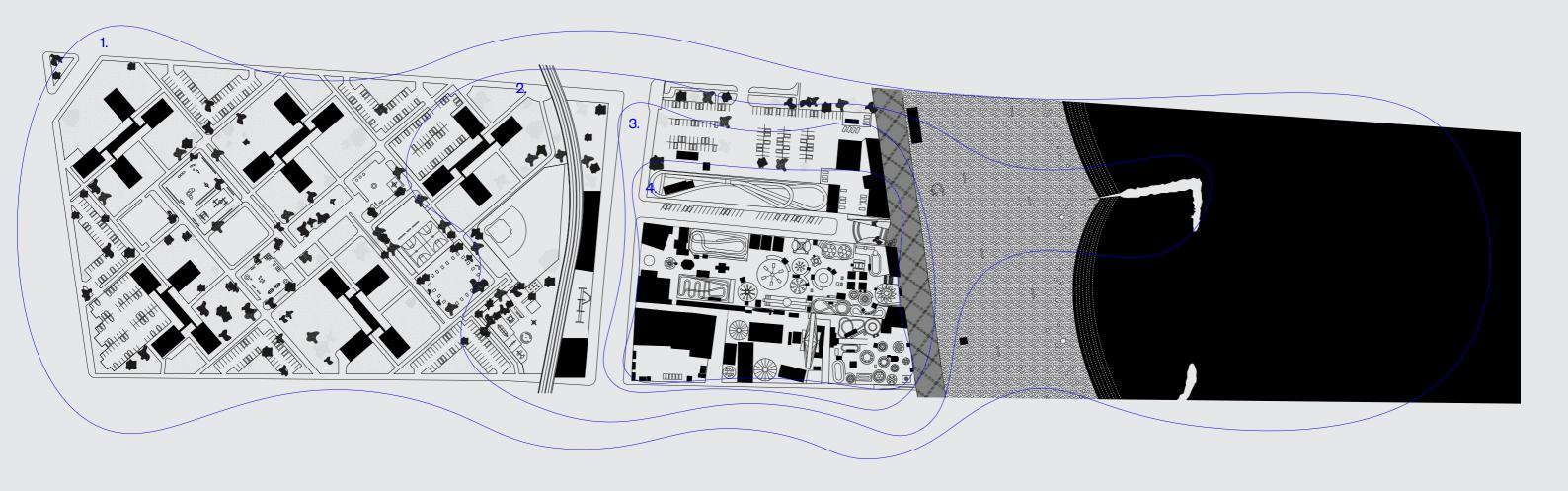
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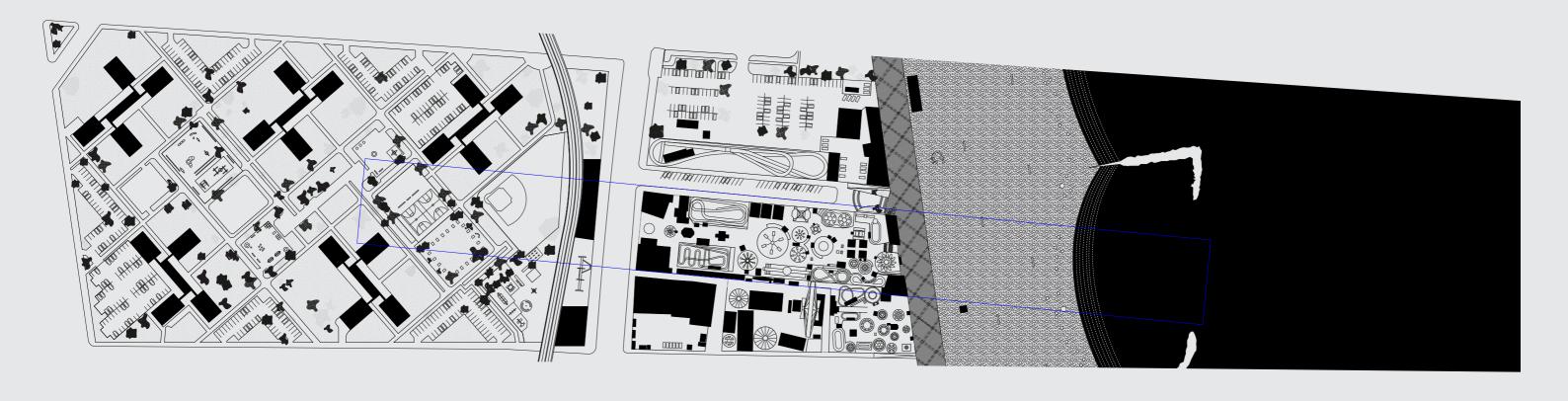
Ride

— architecture as constrain

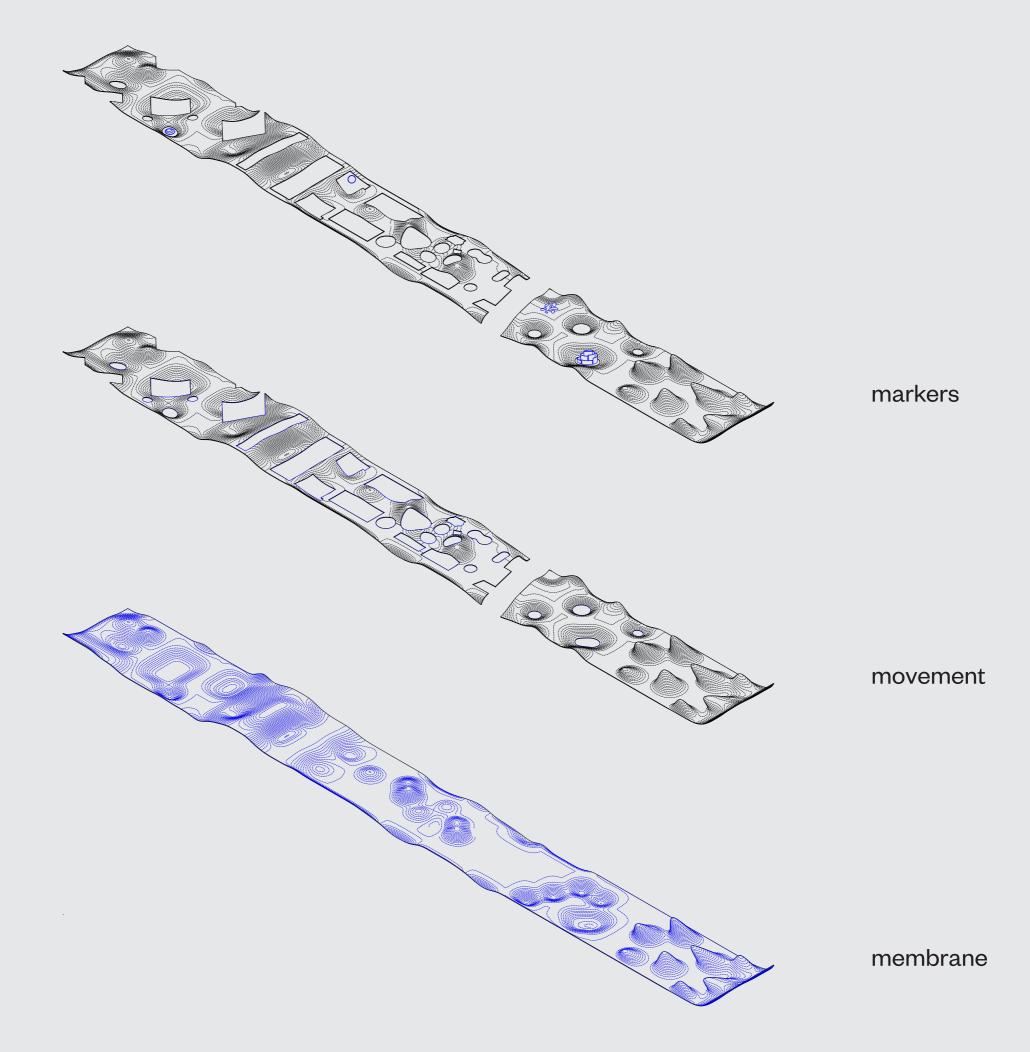




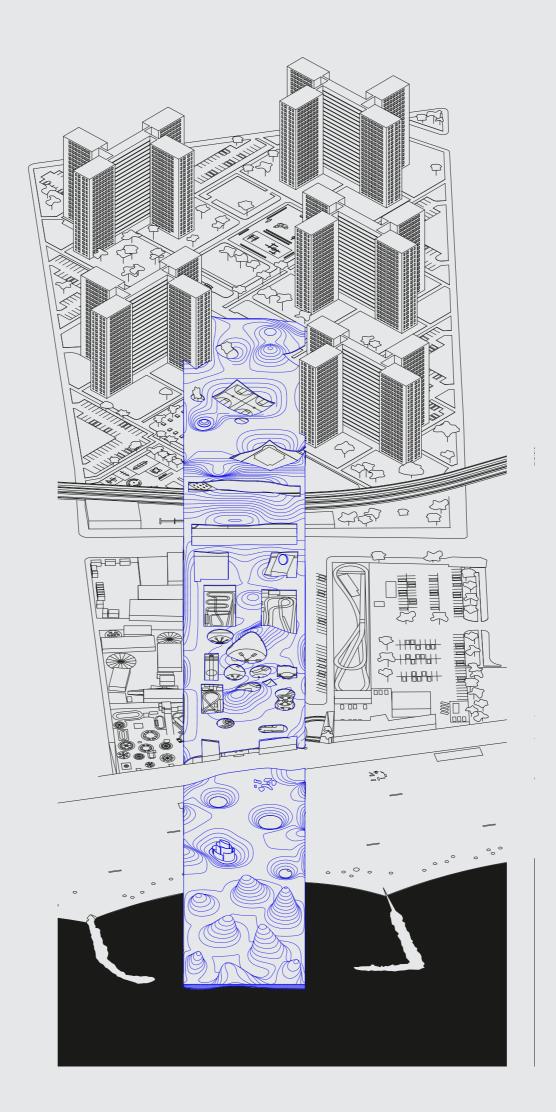




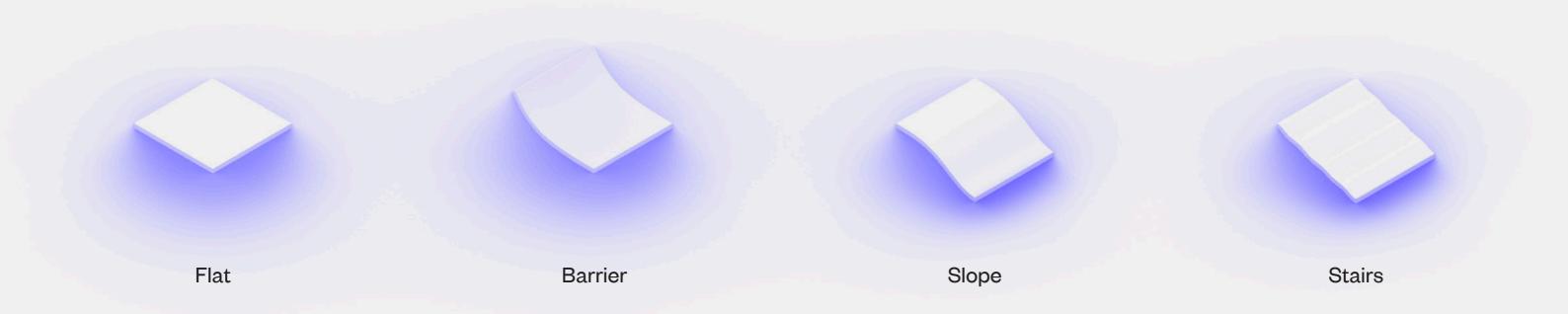
Project(s)

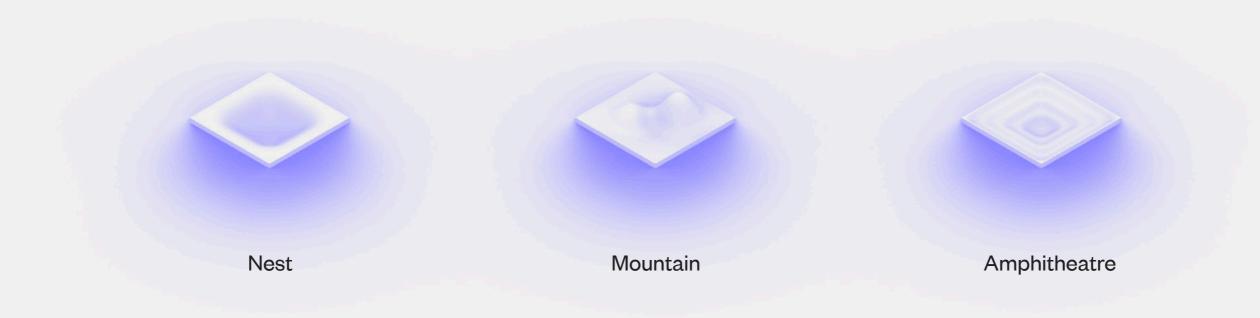


Project(s)



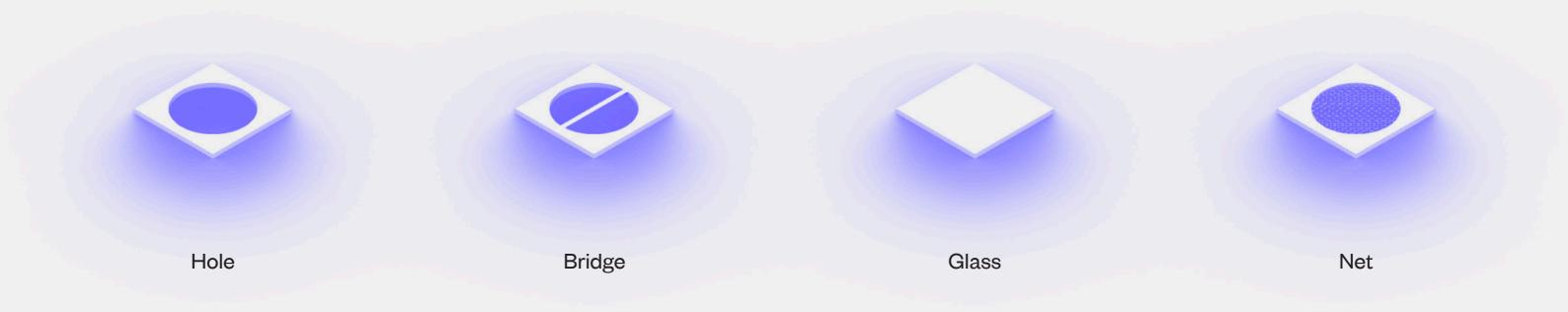
Membrane

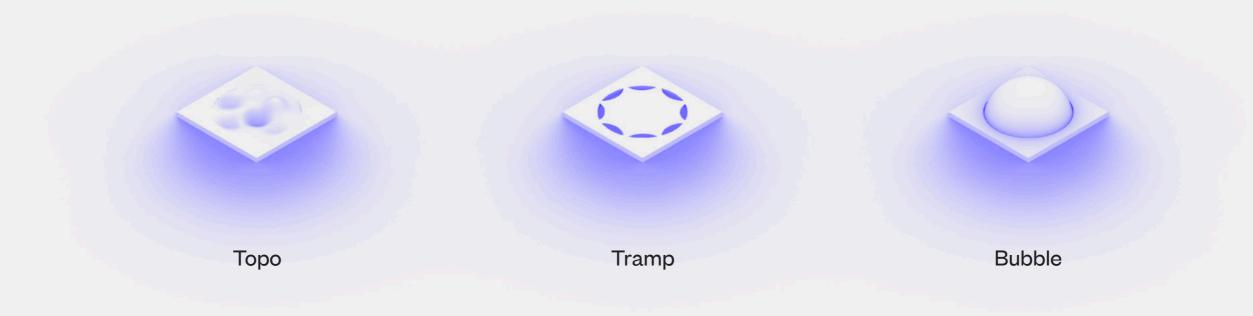




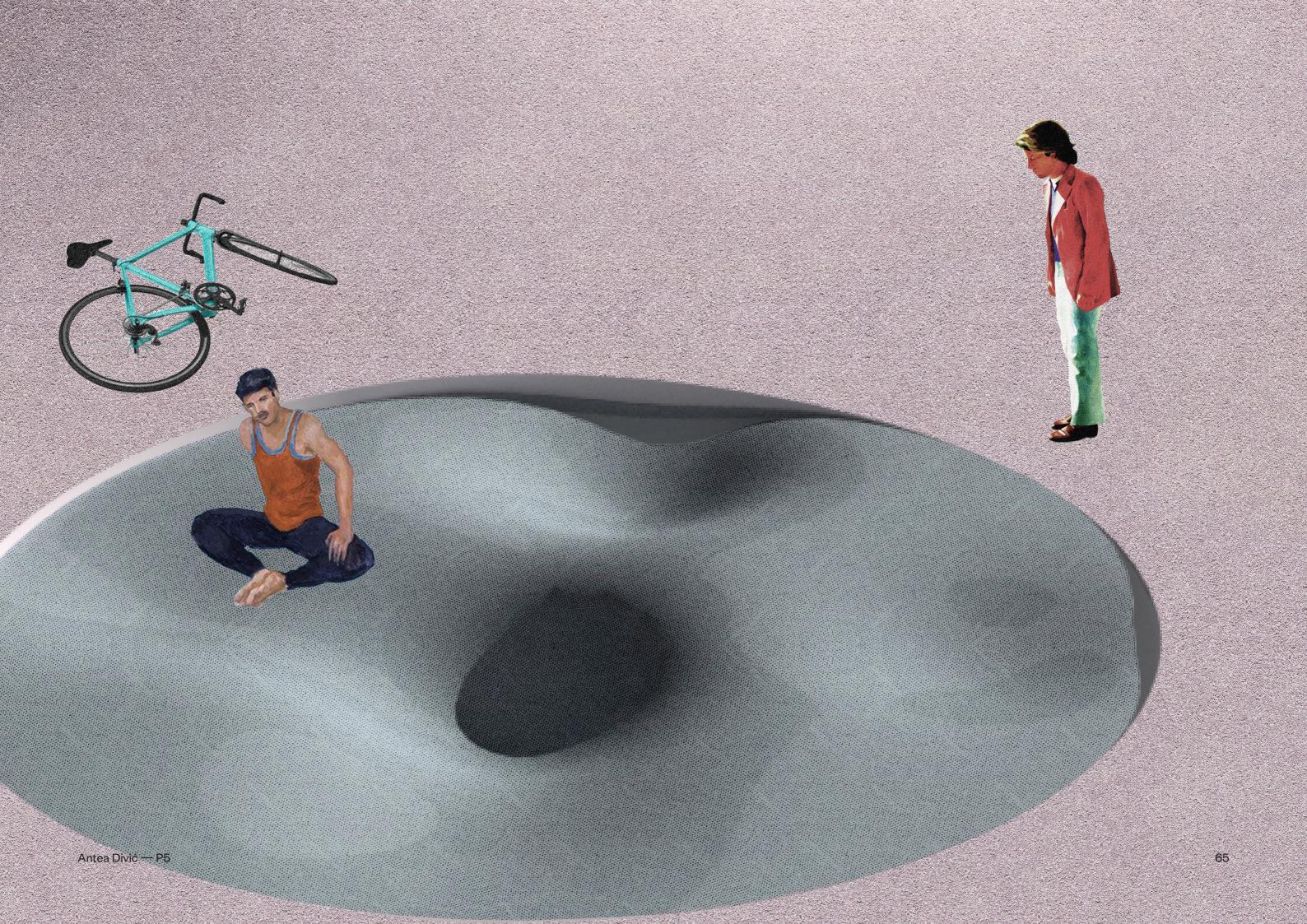


Movement

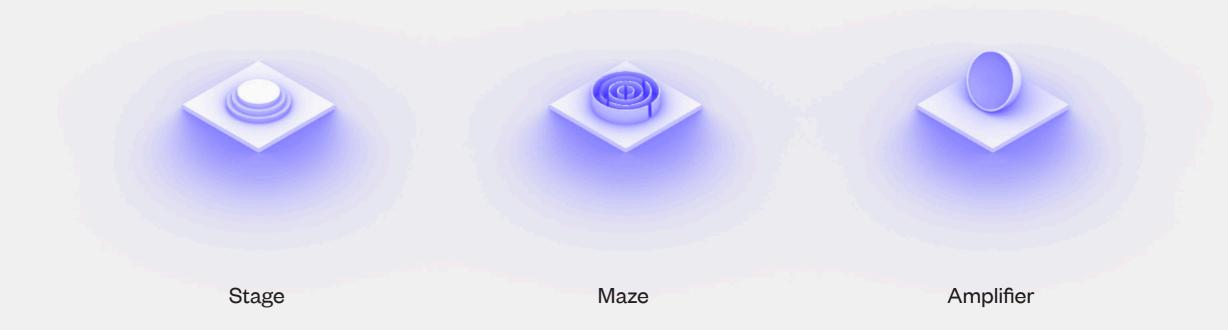


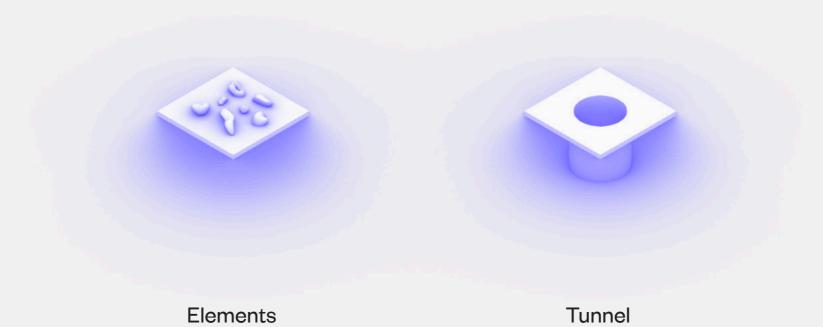




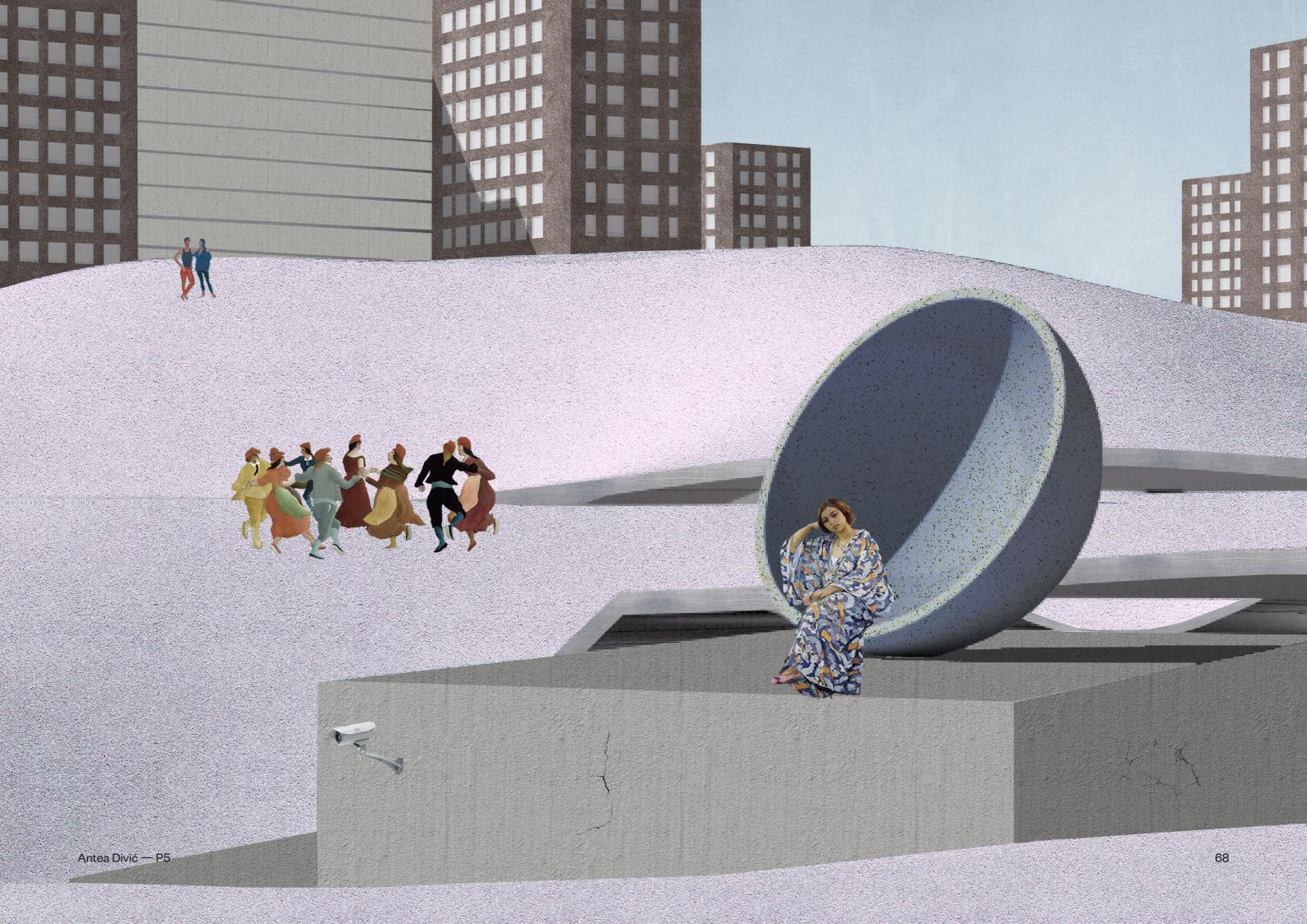


Markers

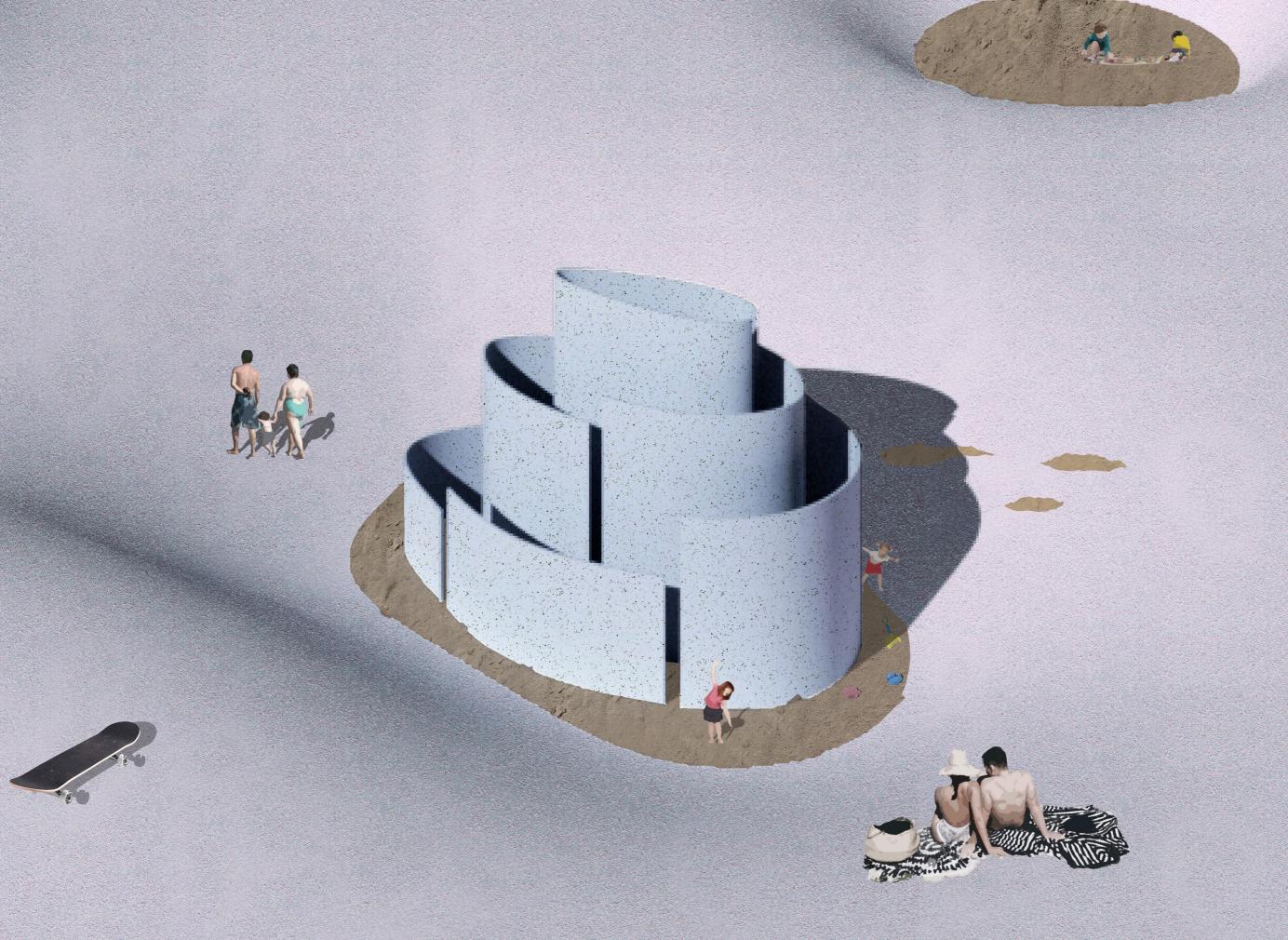


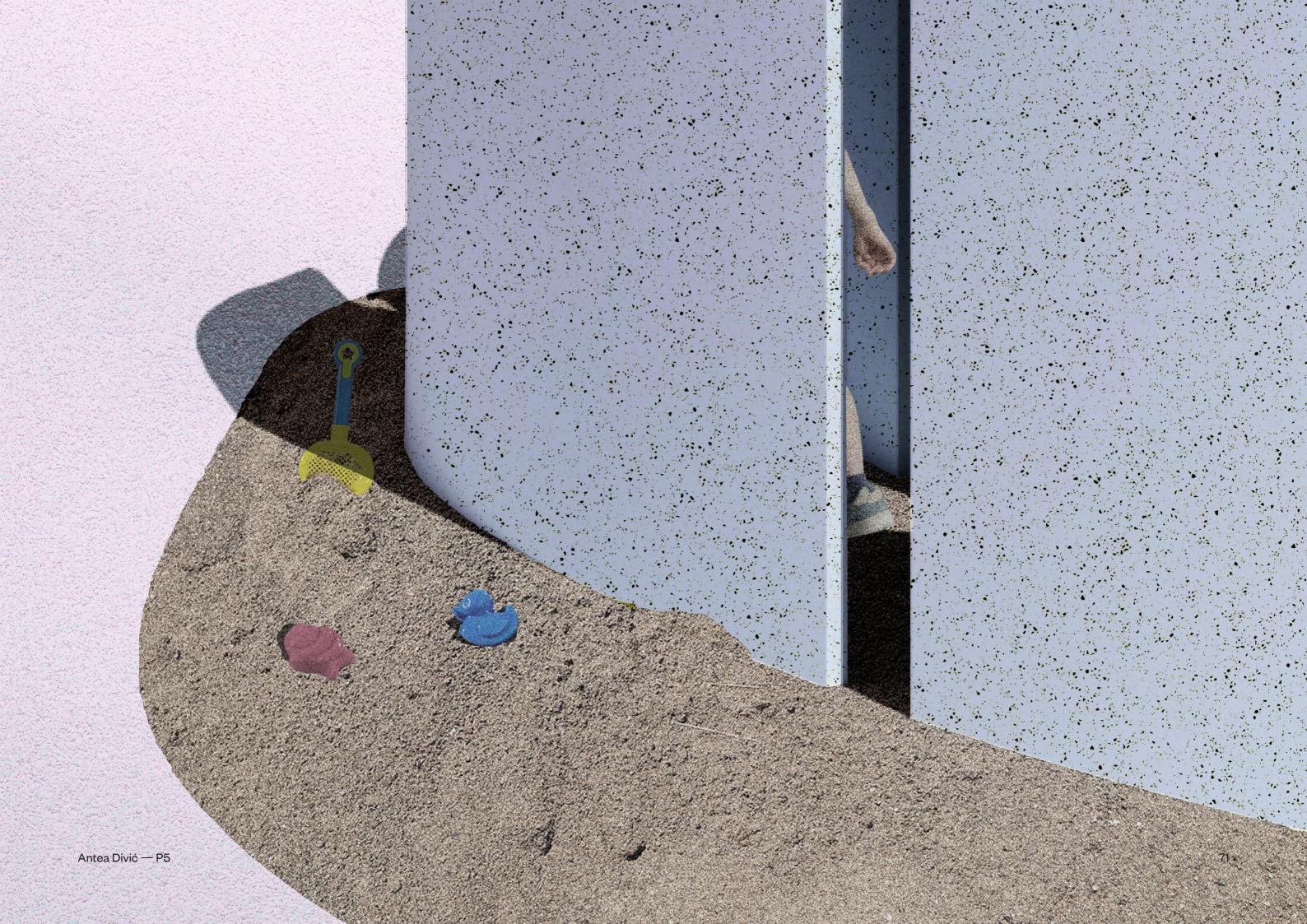














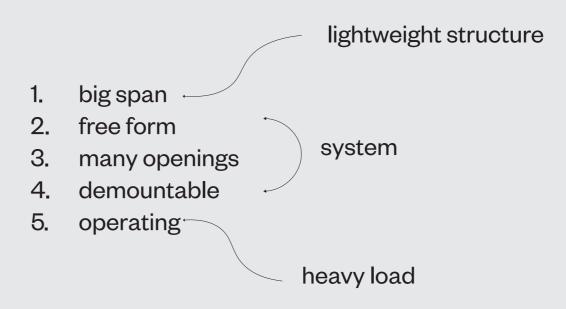
Building Technology

— brief, structure, floor plans, details

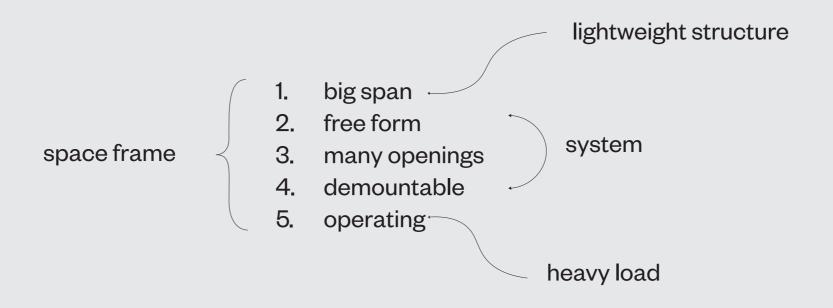
Brief

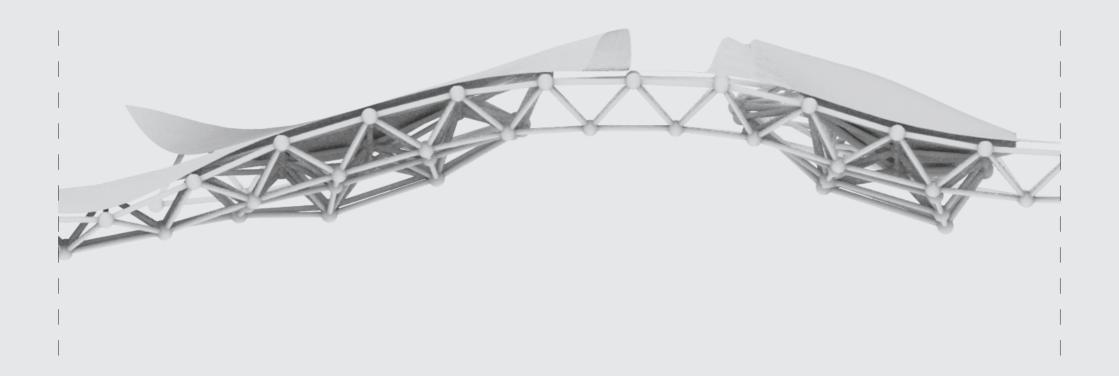
- 1. big span
- 2. free form
- 3. many openings
- 4. demountable
- 5. operating

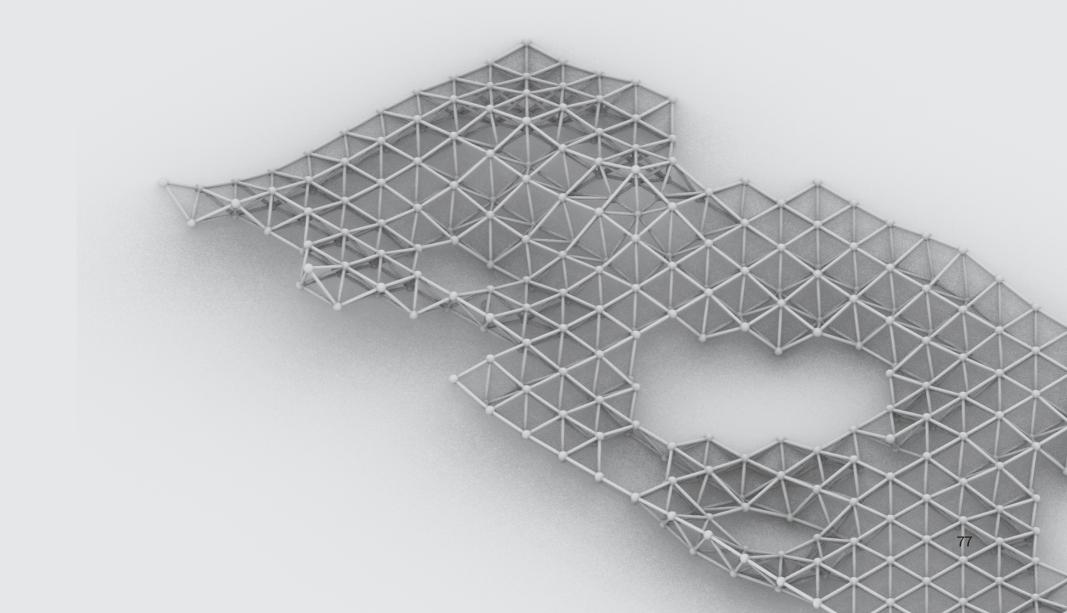
Brief



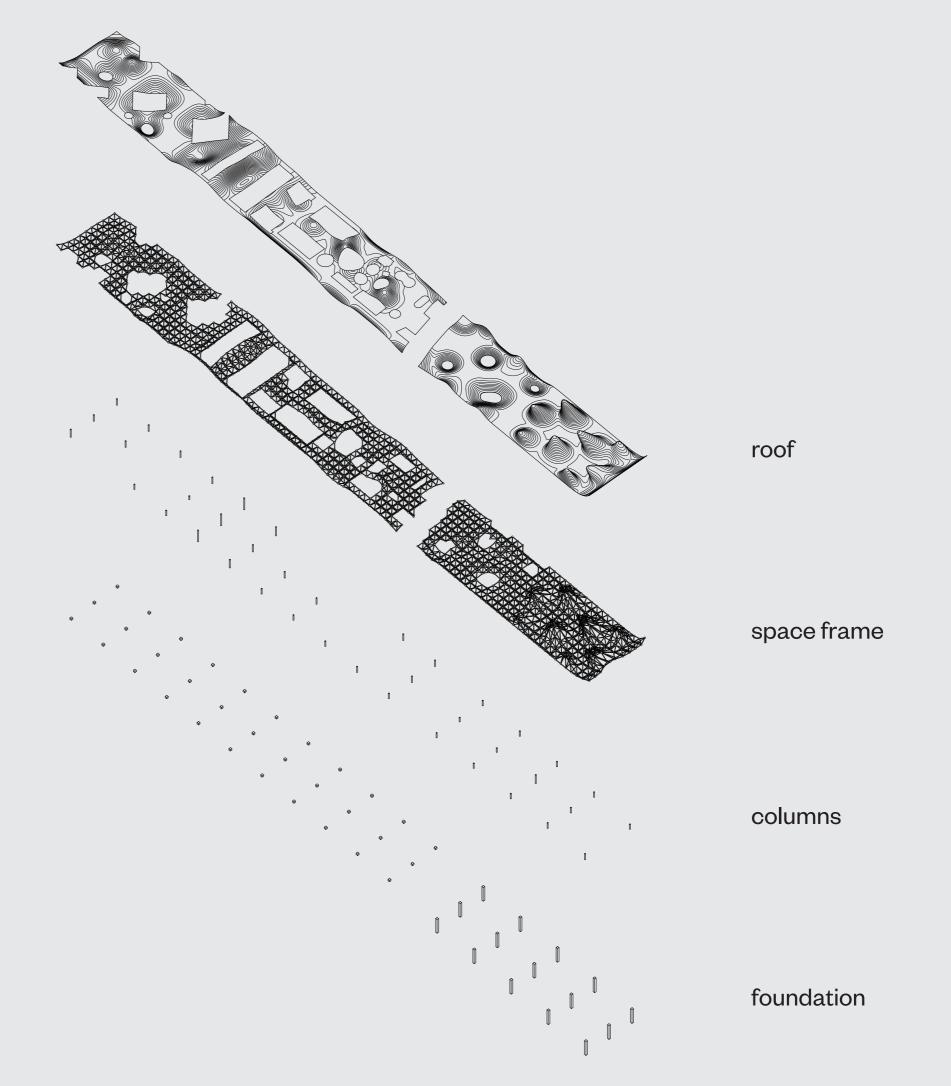
Brief







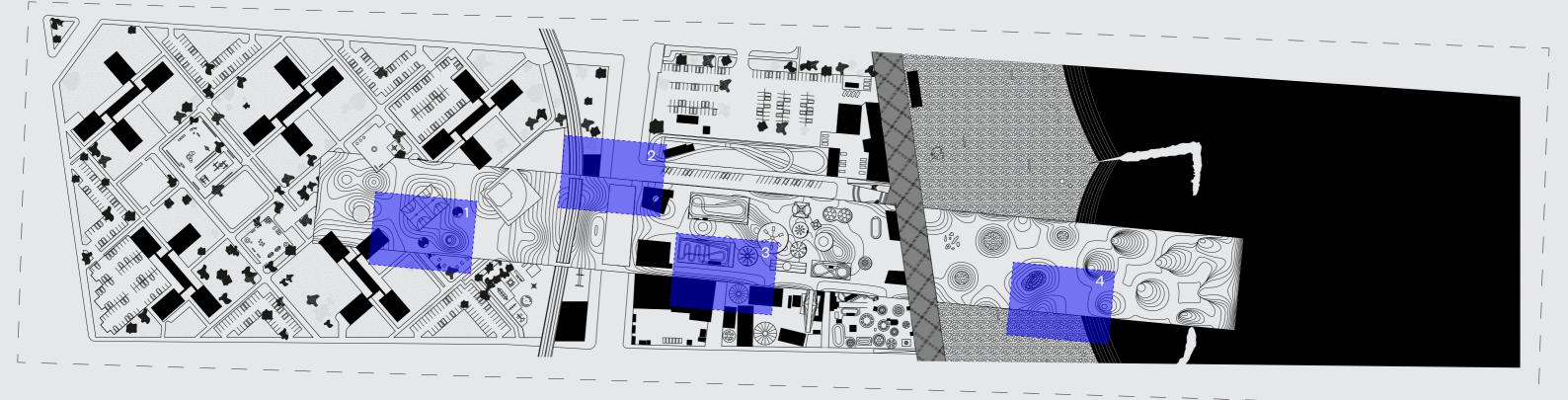
Structure



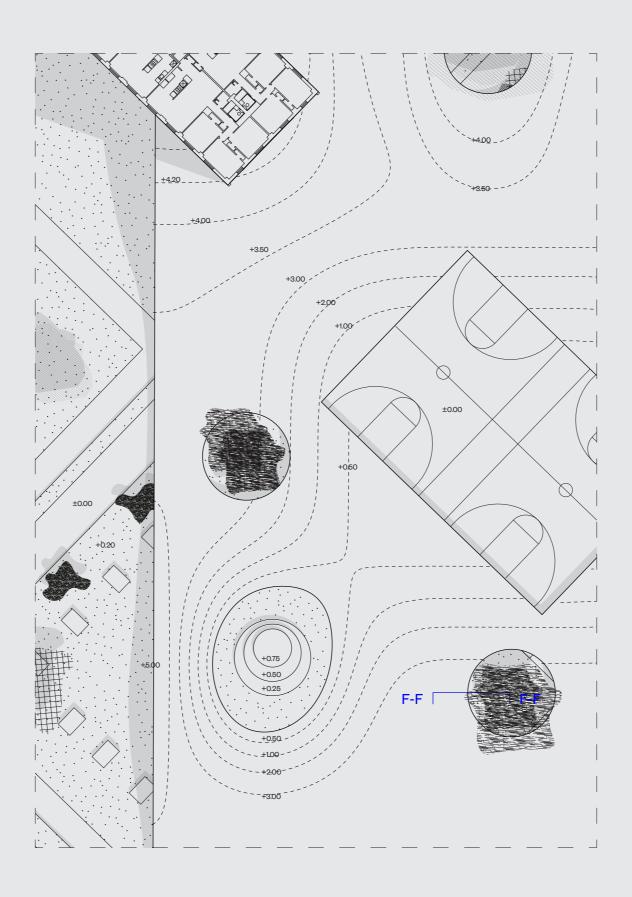
Phases



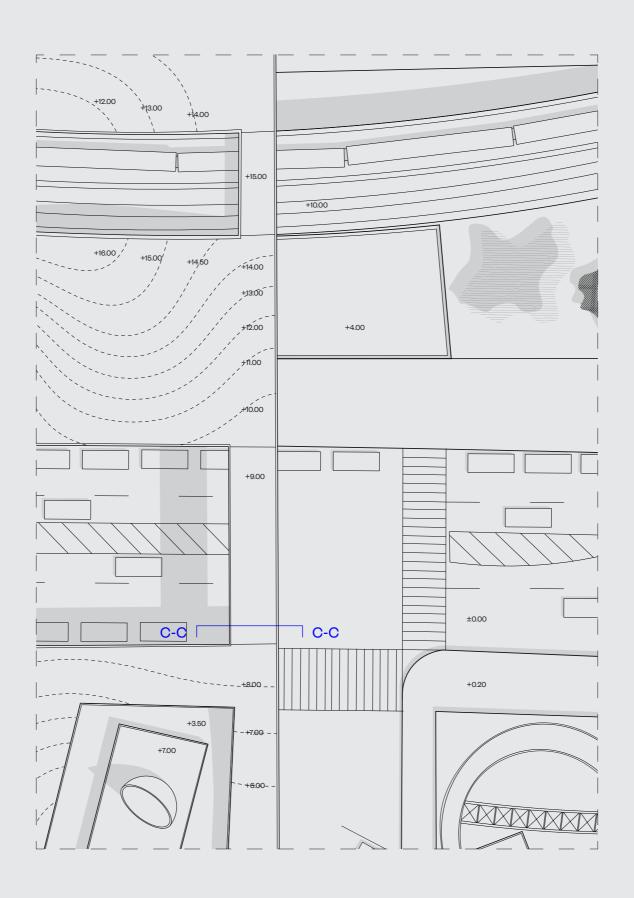
Floor plans



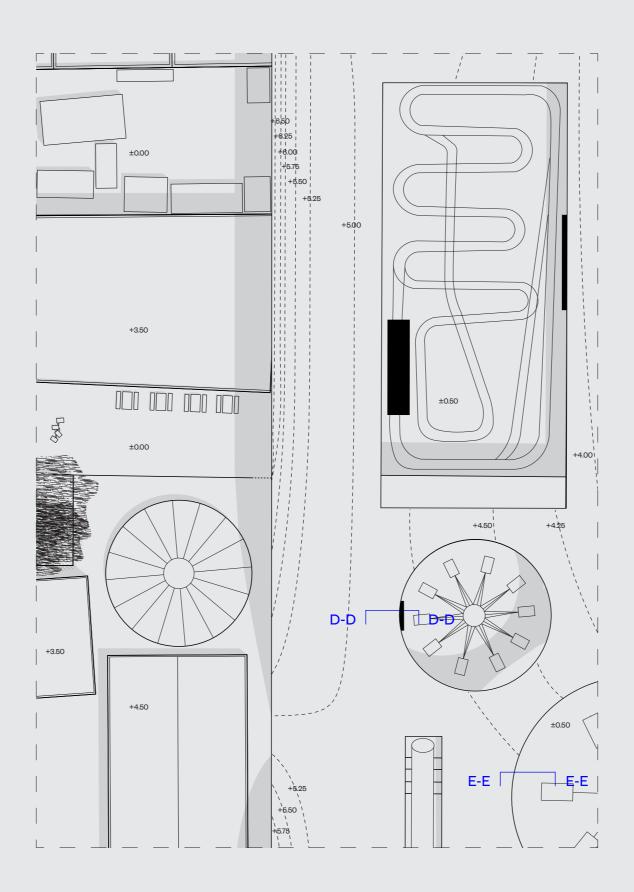
Social housing — floor plan



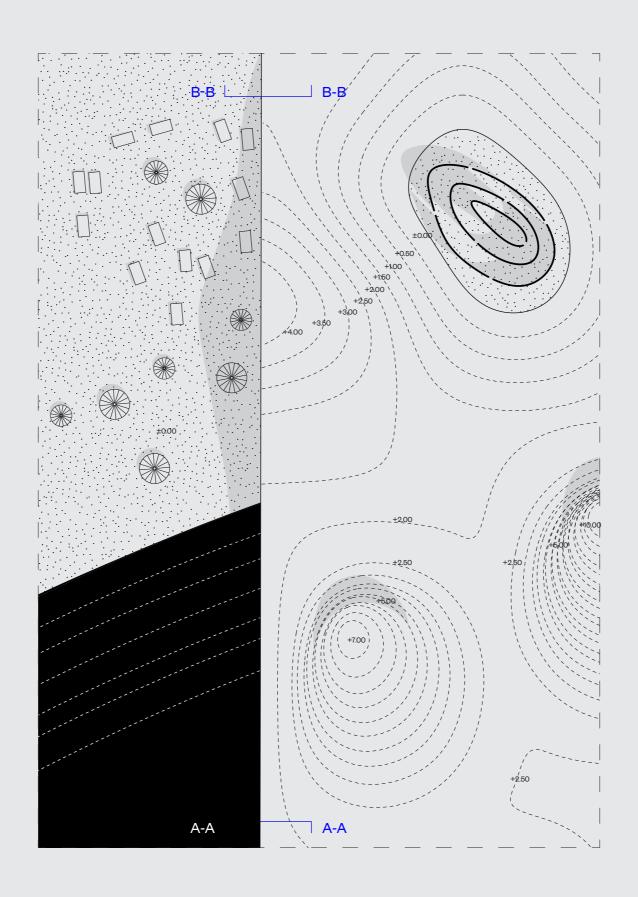
Traffic — floor plan



Entertainment park — floor plan

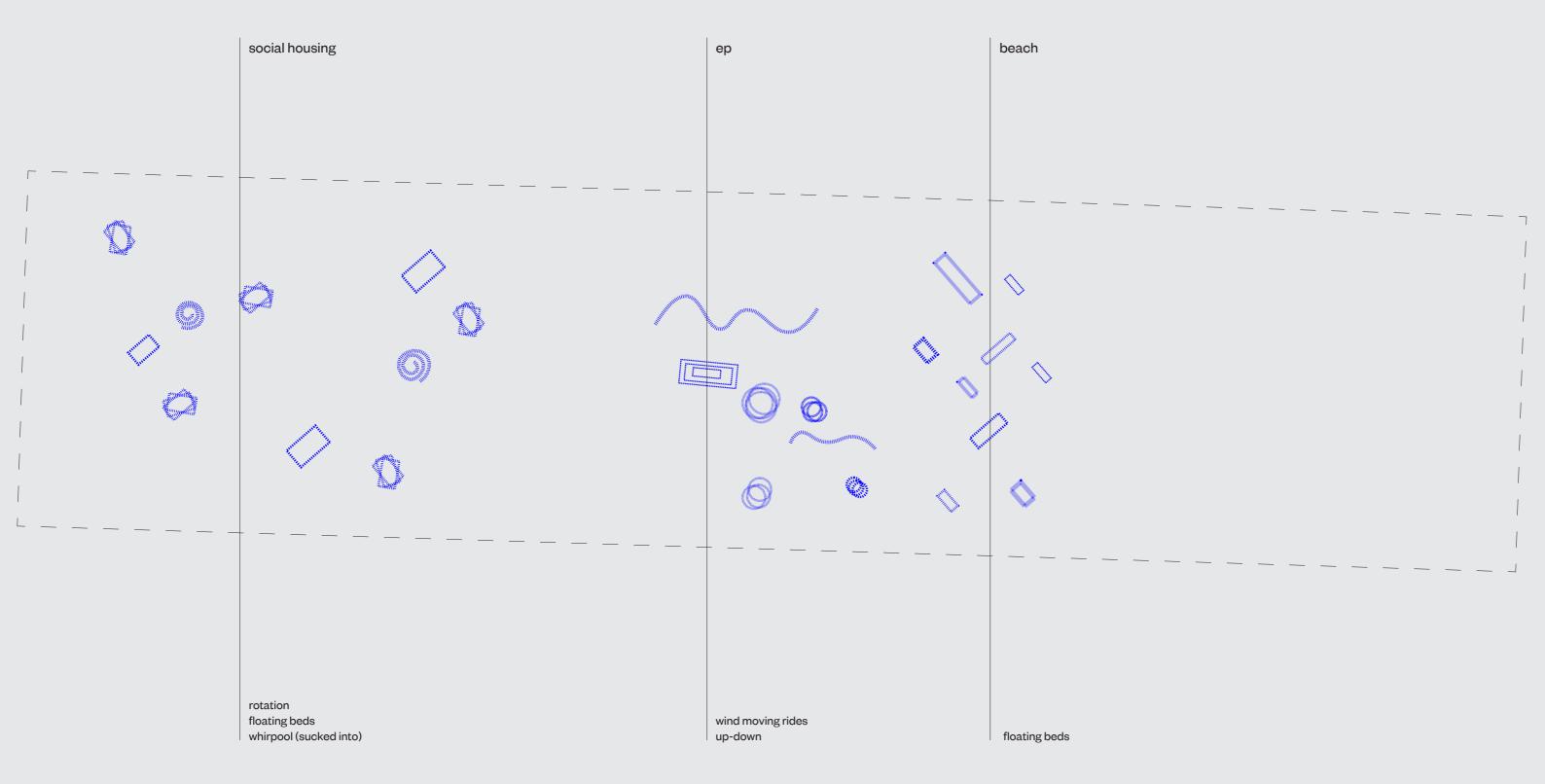


Ocean and the beach — floor plan



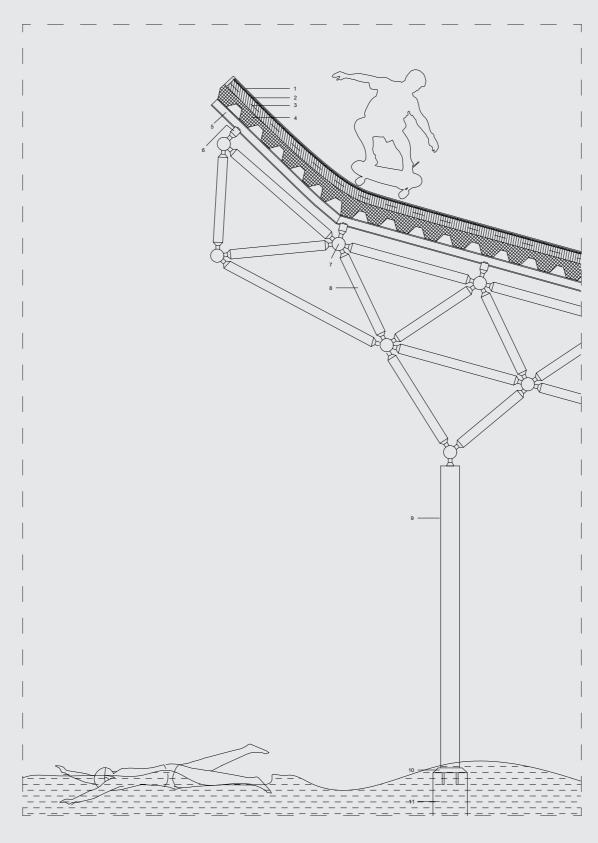
Strip

— ocean, unleashing forces



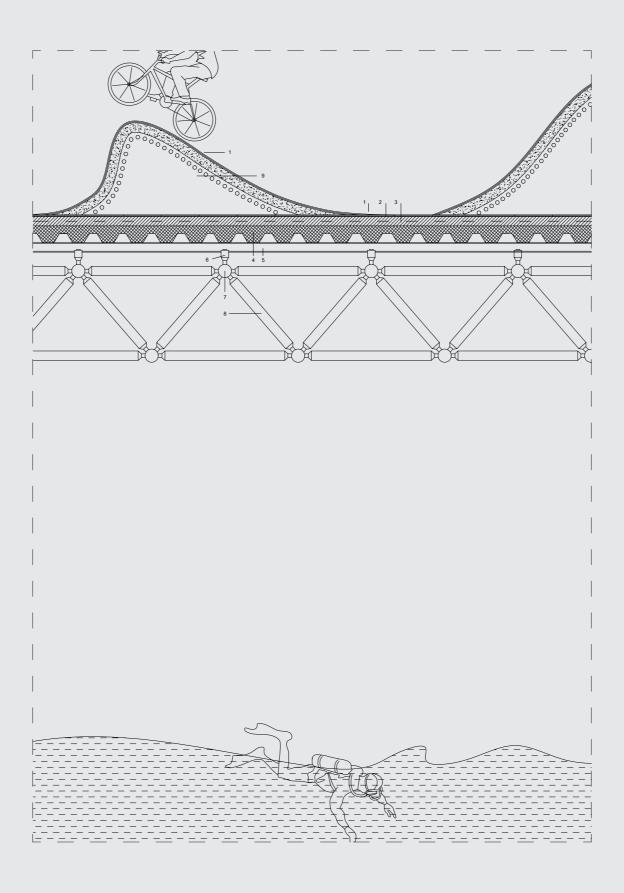
Barrier

— detail A-A



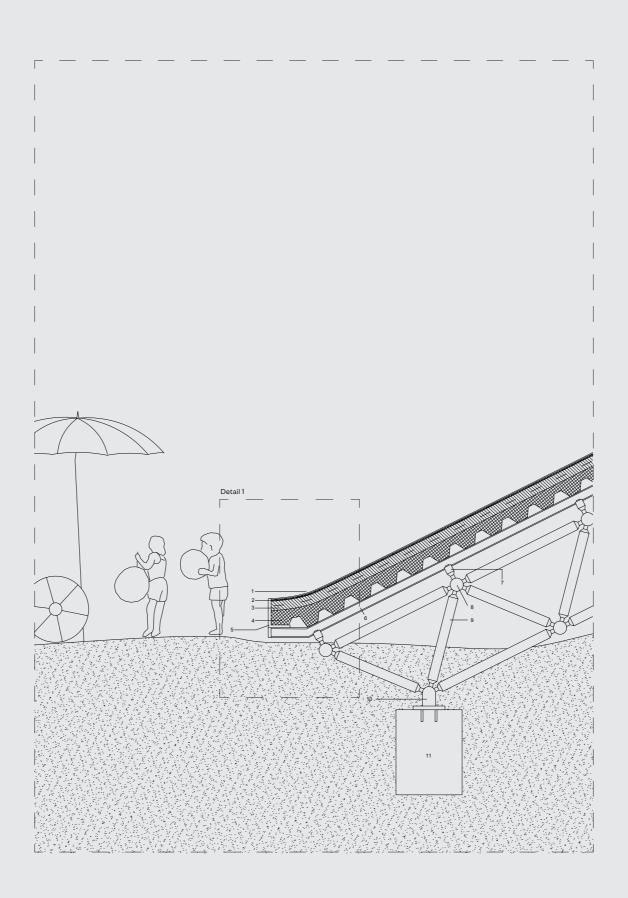
- 1. rubber tiles made from recycled granulate
- 2. bitumen waterproof sheets
- 3. smooth concrete in tilt 1,5%
- 4. trapezoidal metal deck filled with reinforced concrete
- 5. secondary L shaped steel structure
- 6. steel connector nod
- 7. connecting joints of primary steel structure
- 8. main tubes of primary steel structure
- 9. tube steel column
- 10. steel connector with steel plate bolted into foundation
- 11. pile foundation

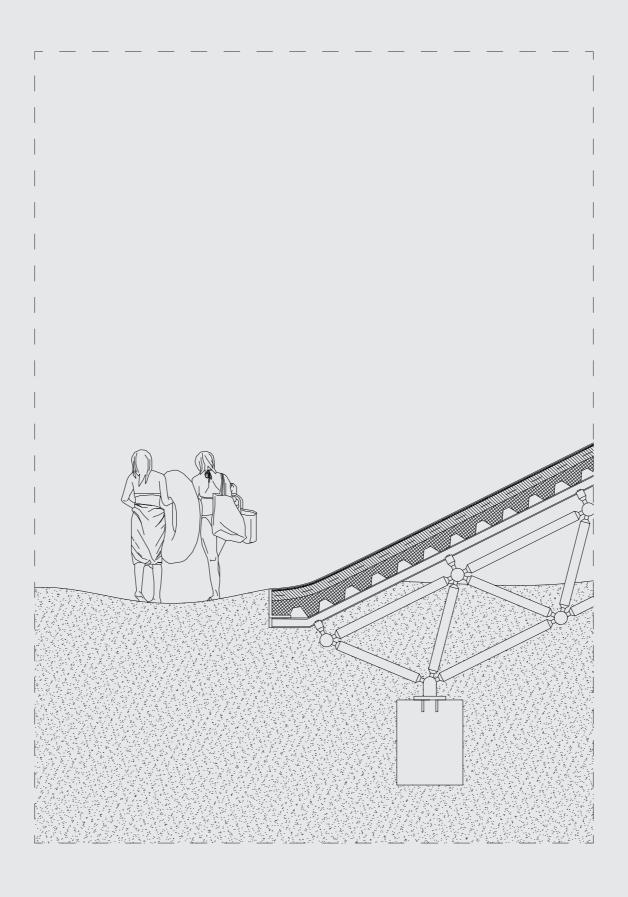
Hole - mountain — detail G-G

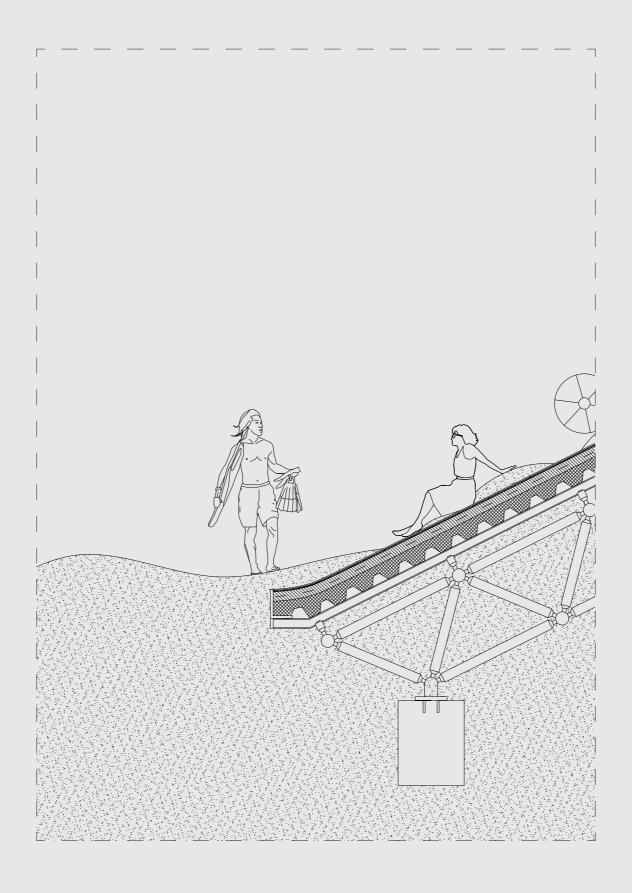


Slope

— detail B-B

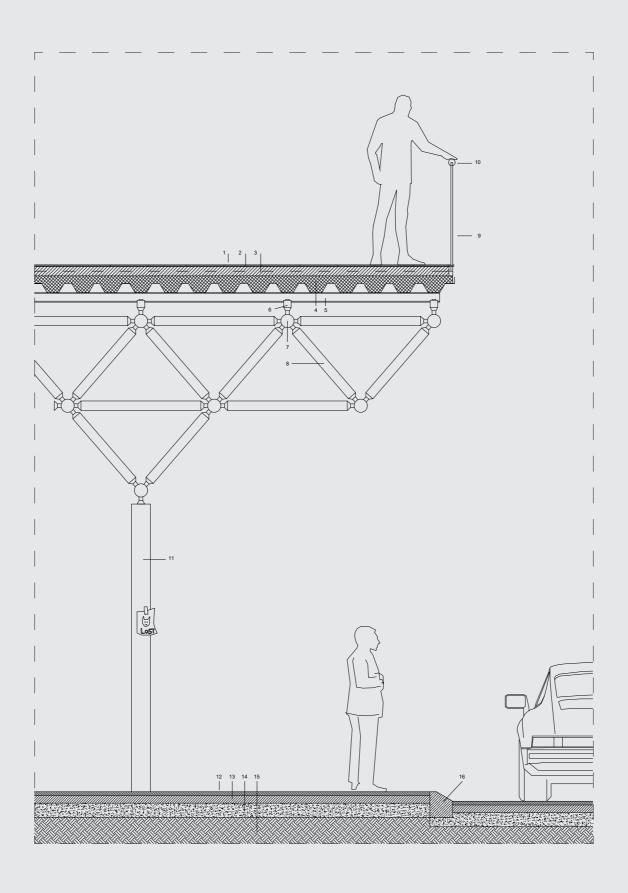




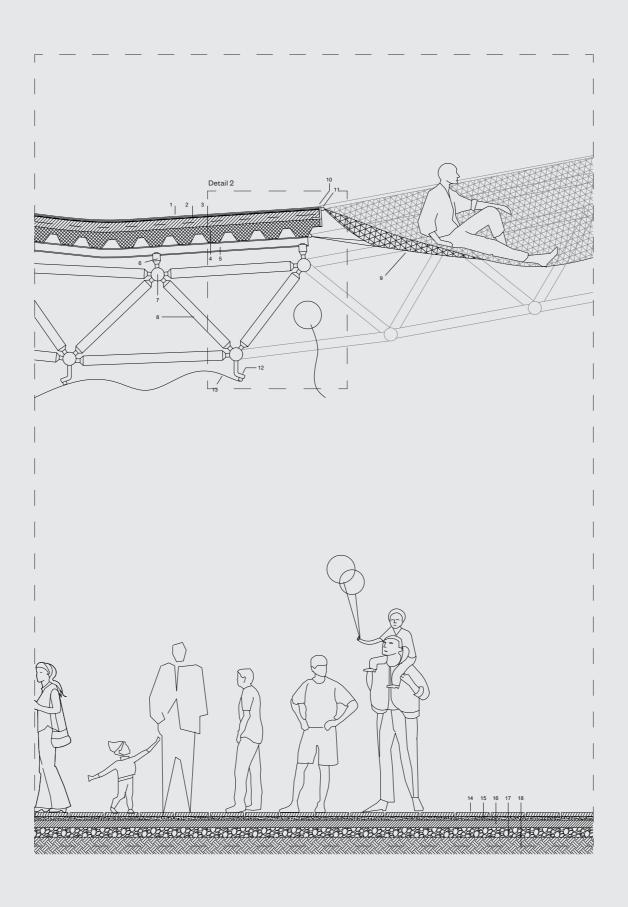


Flat

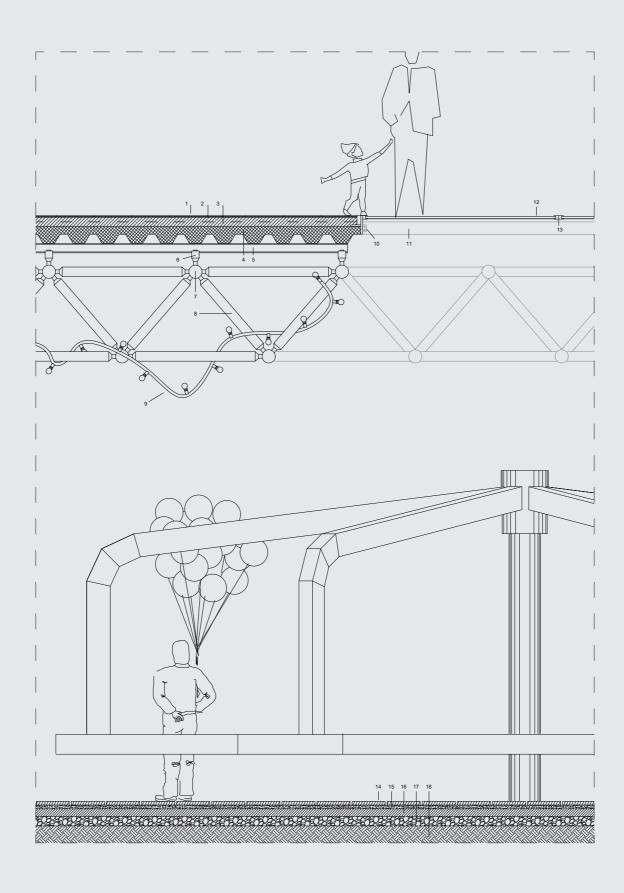
— detail C-C



Hole - net — detail D-D



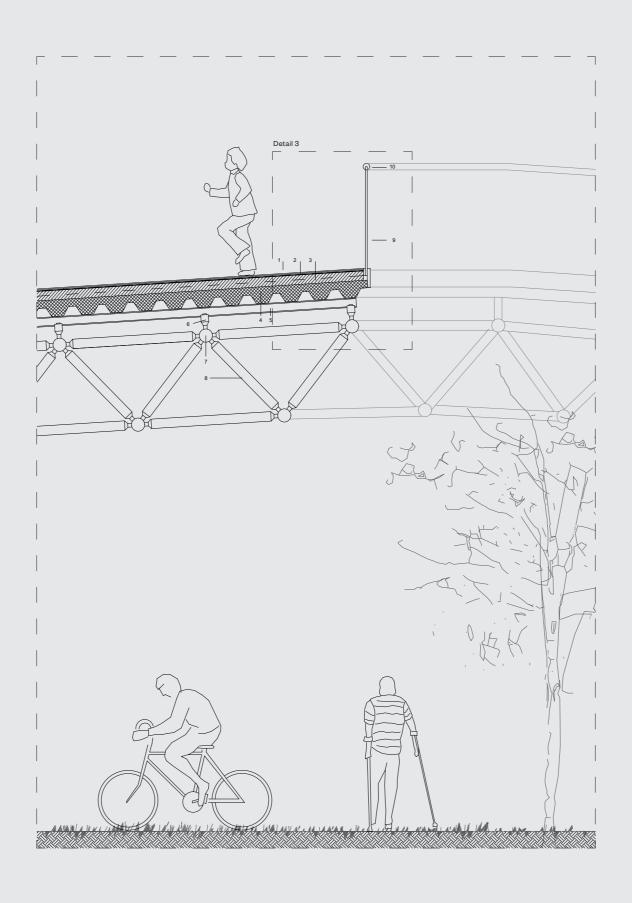
Hole - glass — detail E-E

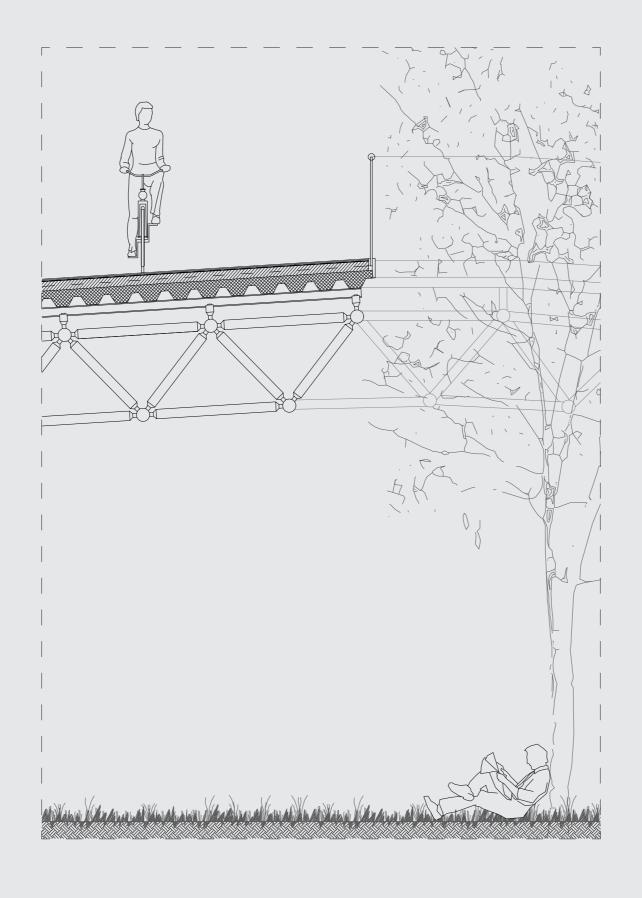


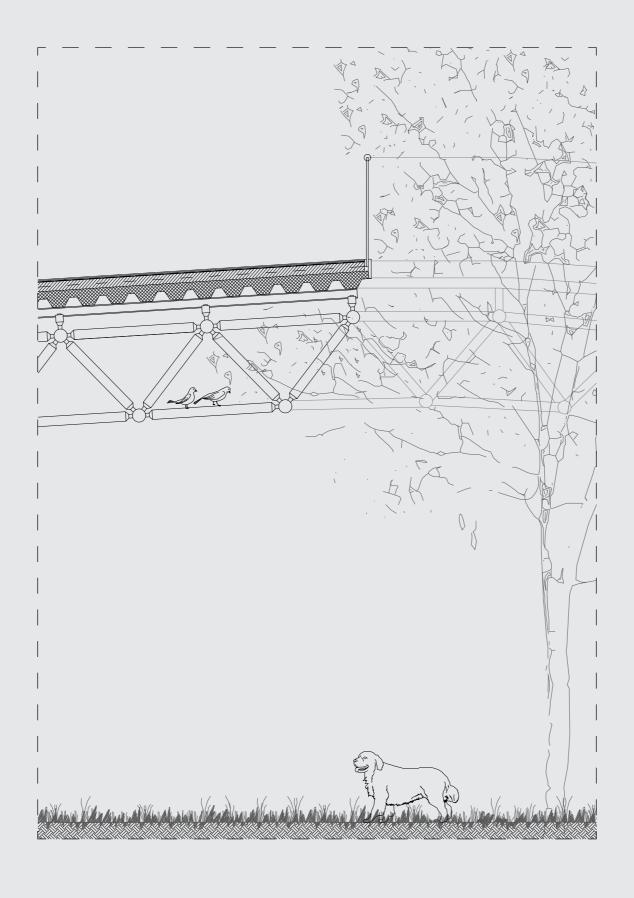
Antea Divić — P5

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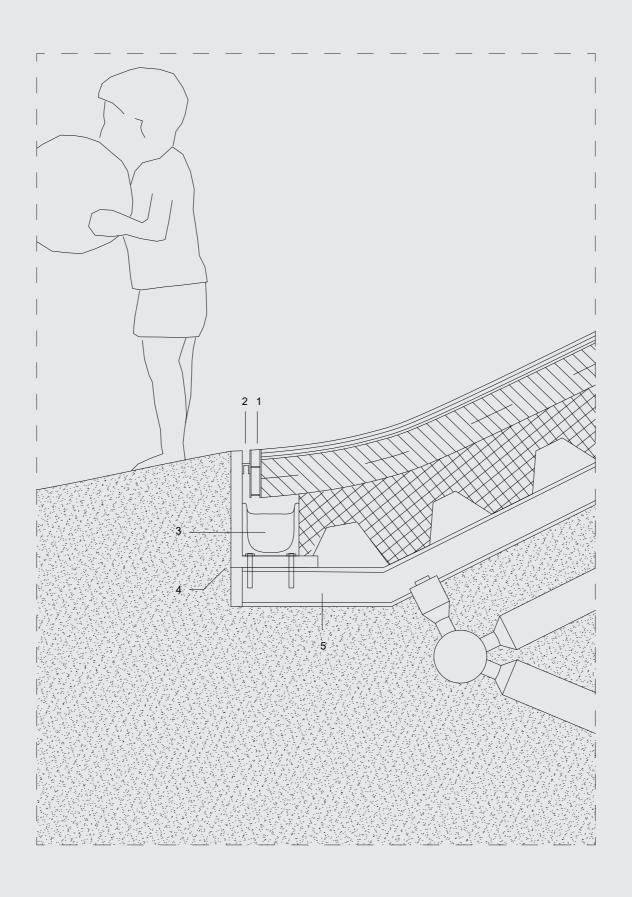
Hole - fence — detail F-F



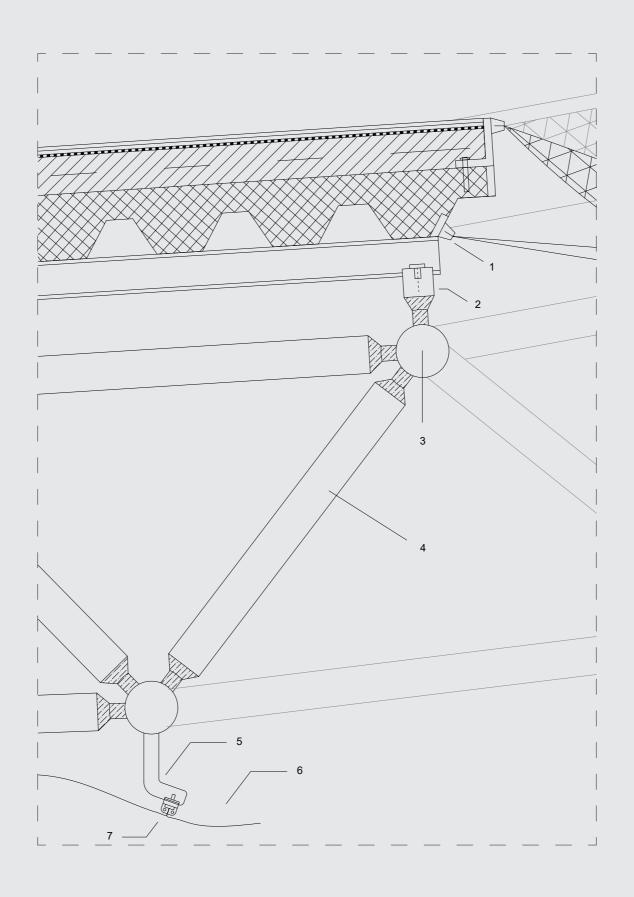




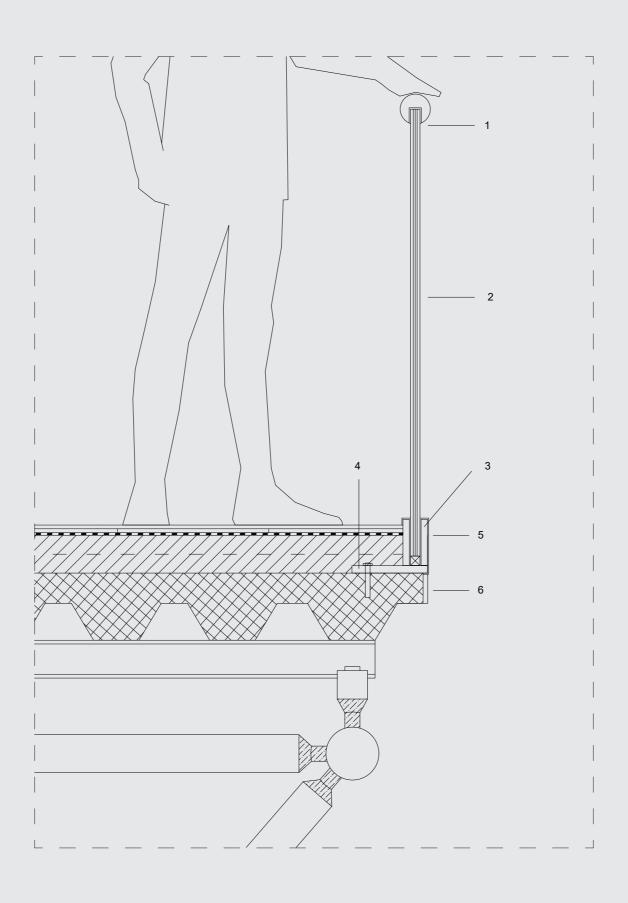
Hole - slope — detail



Hole - net — detail



Hole - fence — detail



Appendix

Strip

— patterns

