

*O, sweet Saint Martin's land,
So bright by beach and strand,
With sailors on the sea
And harbours free.*

*Where the chains of mountains green,
Variously in sunlight sheen.
O, I love thy paradise,
Nature-beauty fairly nice!*

- The anthem by Priester G. Kemps, 1959



RECONSTRUCTING THE COMMONS

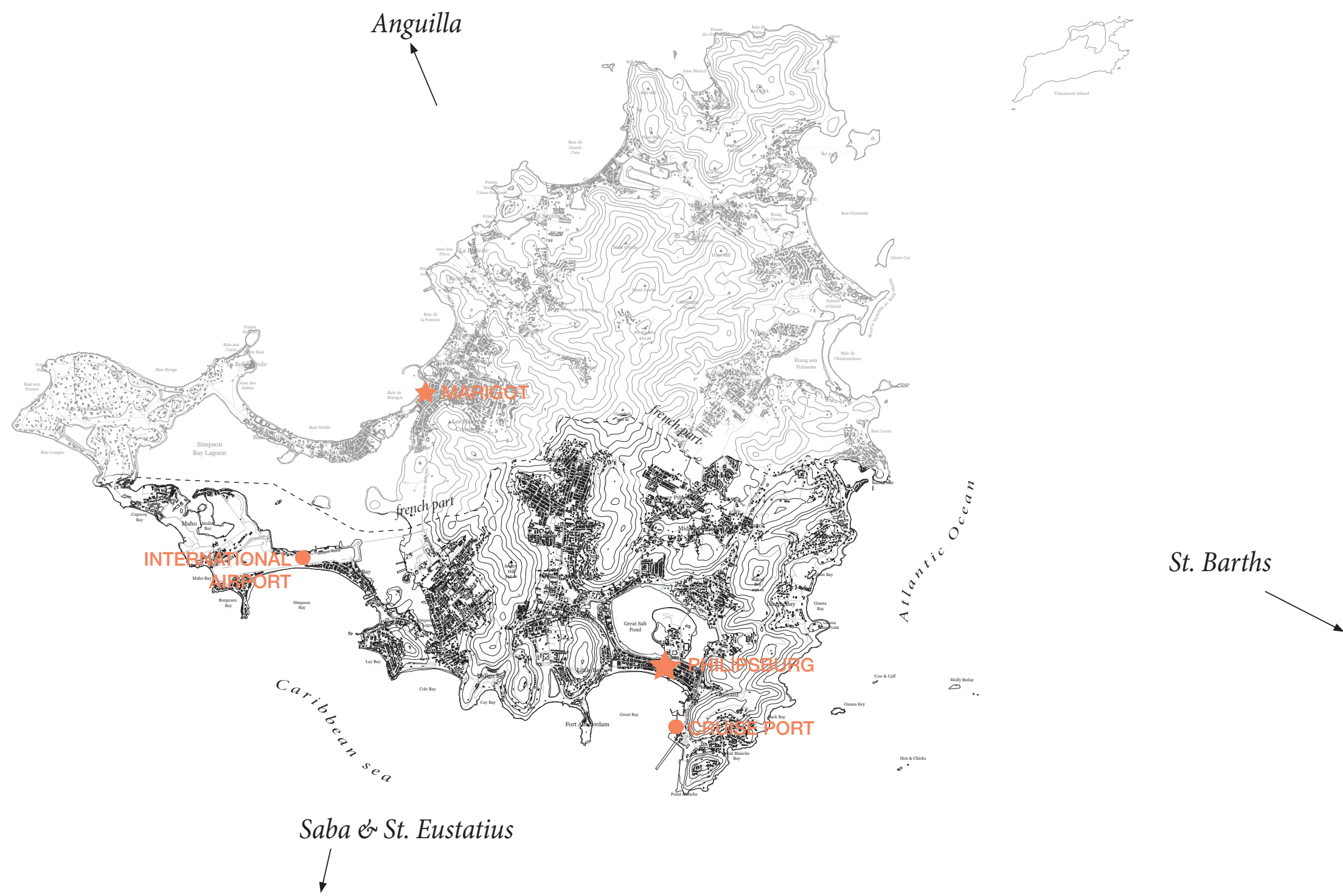
*A regenerative form of tourism towards the ecosystem
and its services*

*P5
Gina Vermeeren*

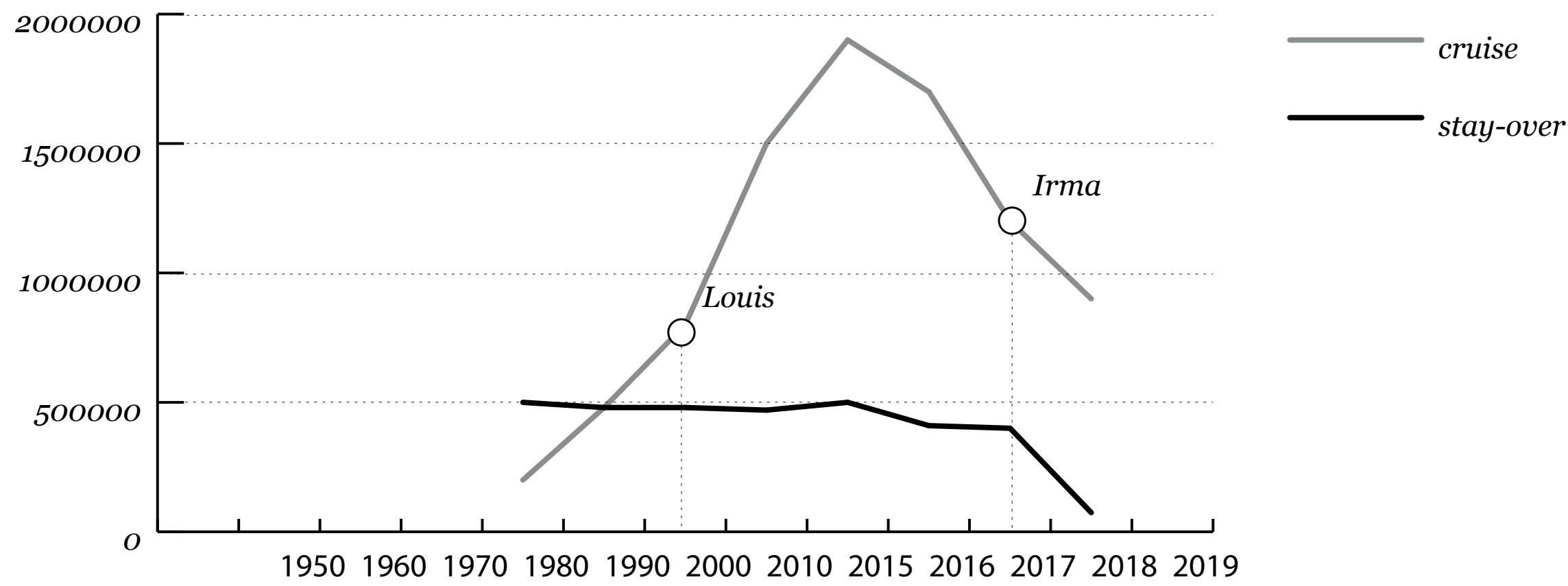
CONTENT

Introduction	Research	Strategy	Design	Conclusion
<i>Context</i> <i>Relevance</i> <i>Problem</i>	<i>Context (ecosystems)</i> <i>Research question</i> <i>Goal</i> <i>Framework</i>	<i>Urban strategy</i> <i>The site</i> <i>Concept</i> <i>Program</i>	<i>Design strategy</i> <i>Program</i> <i>Design</i>	<i>Conclusion</i> <i>Reflection</i>

CONTEXT



CONTEXT

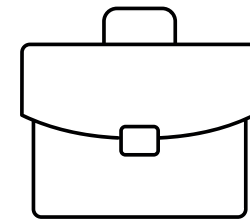


Tourist arrivals

CONTEXT



85% *economical de-
pendent on tour-
ism*



4/5 *persons works
direct or
indirect in
tourism*

Tourist arrivals

HISTORY



Salt as the 'white gold'

HISTORY



Clearance of forest at Naked Boy Hill

HISTORY



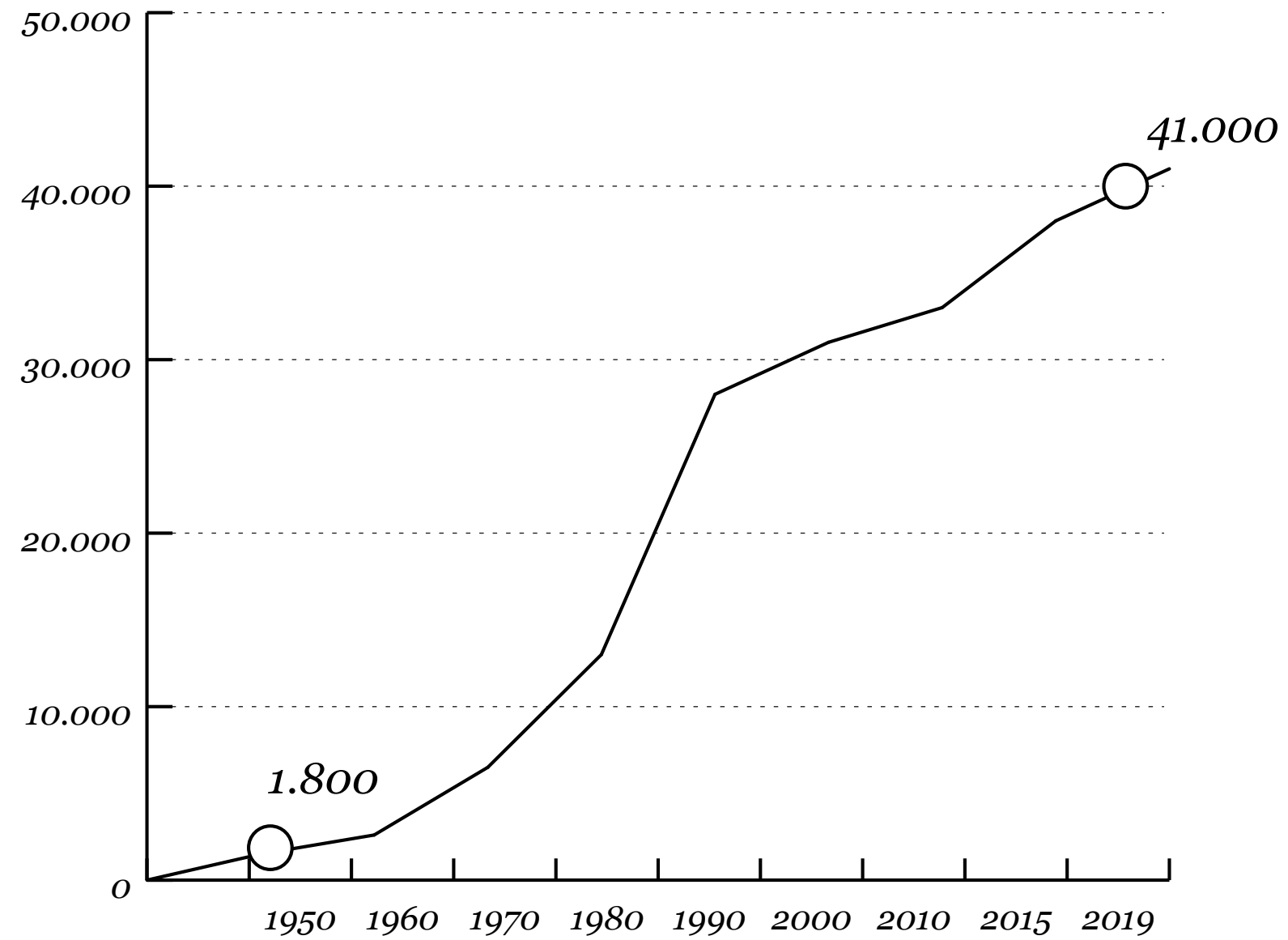
Tourism in the 1960's

TODAY



The ultimate seascape

TODAY



Population growth

PROBLEM STATEMENT



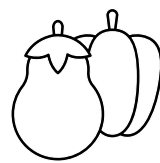
I. Mass tourism



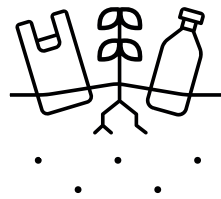
II. Overdevelopment



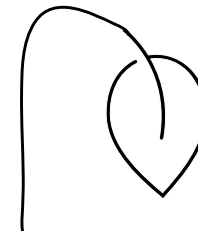
III. Hurricanes



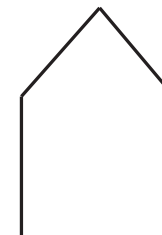
*Huge demands requires
import*



Pollution



Destruction



RESILIENCE



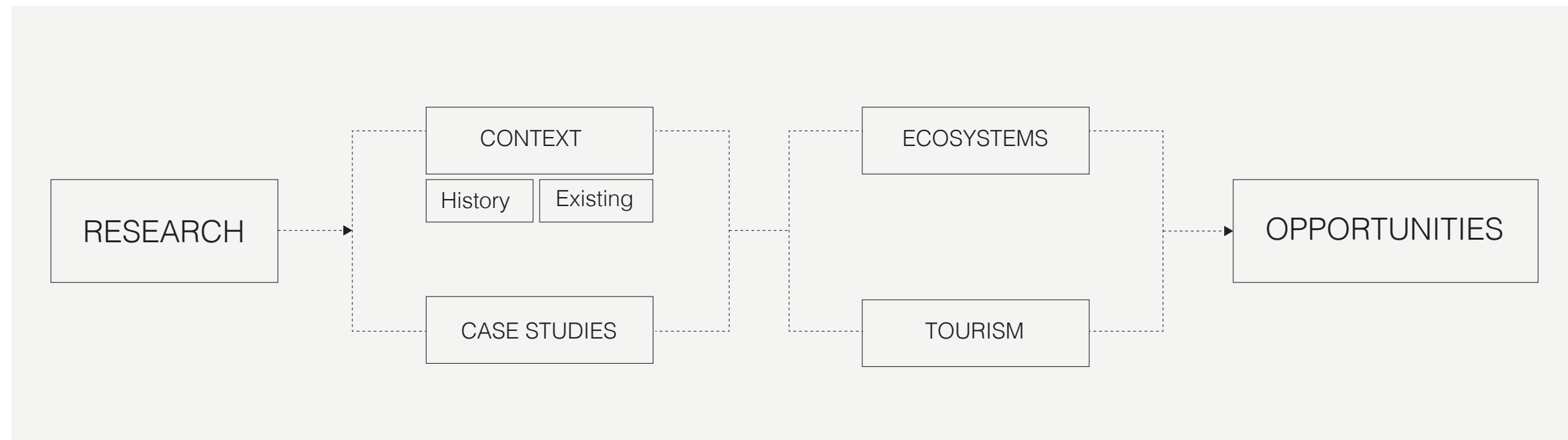
The nature of our Island, just like her people, are resilient and will recover in due time.

Building overgrown by plants

RESEARCH QUESTION

Which services can the ecosystems provide for a regenerative relationship between inhabitant and island, taking the economic dependency on tourism into account?

RESEARCH

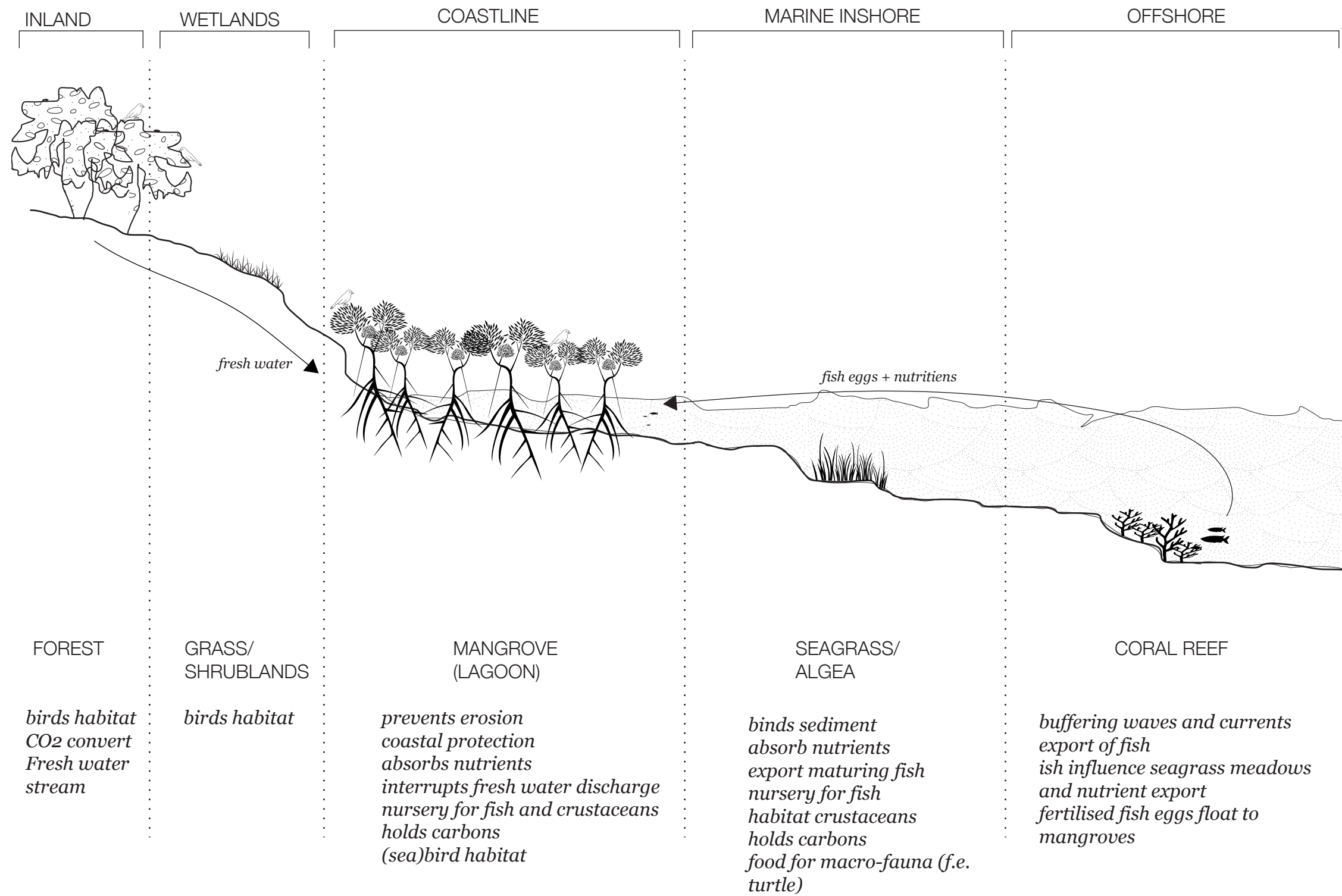


DEFINITION

Ecosystem
noun Ecology

1. a system, or a group of *interconnected elements*,
formed by the interaction of a community of organisms
with their environment
2. any system or network of interconnecting and interacting parts

ECOSYSTEMS



ECOSYSTEM SERVICES

I. SUPPORTING

II. CULTURAL

III. REGULATING

IV. PROVISIONING



ECOSYSTEM SERVICES



*After school program at the
Lion's Club Community Centre*



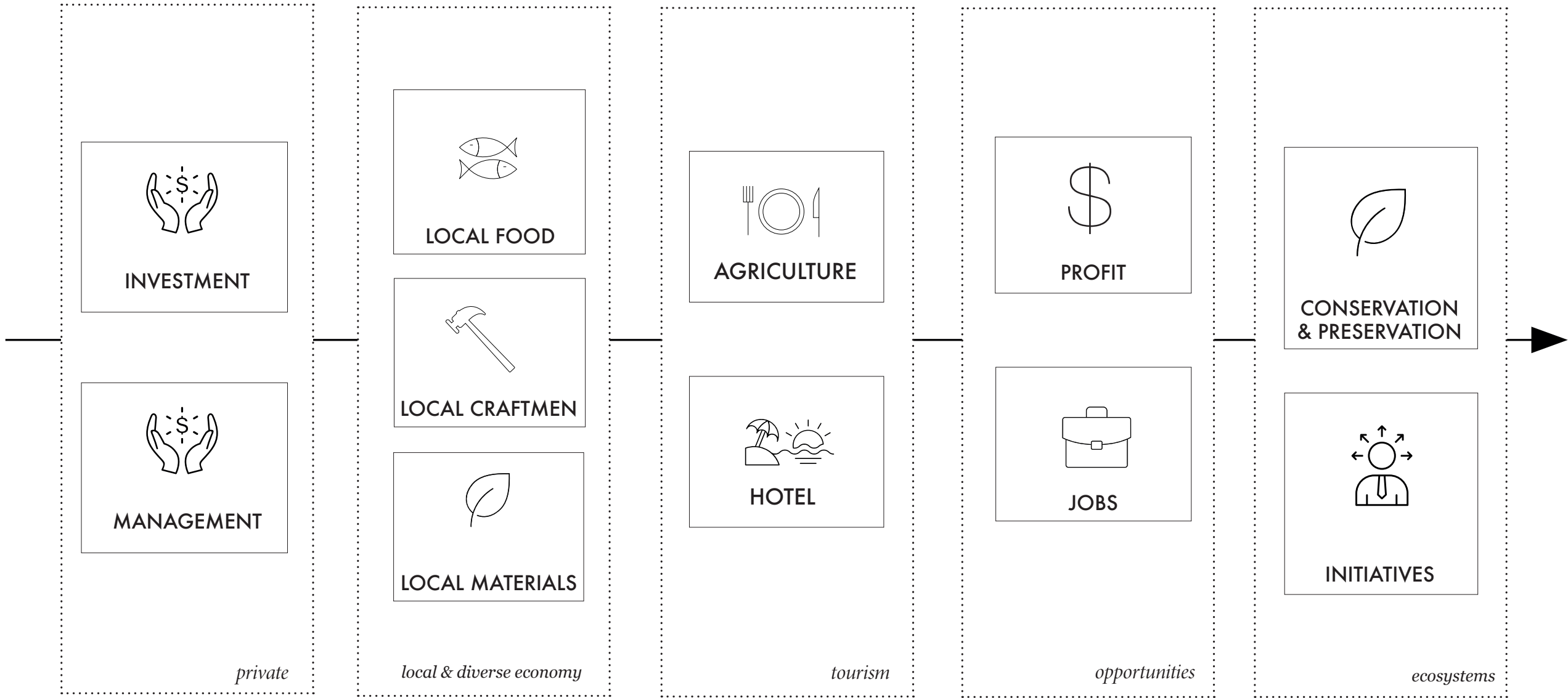
*Plant nursery and hydroponics in
the building structure*

STRATEGY

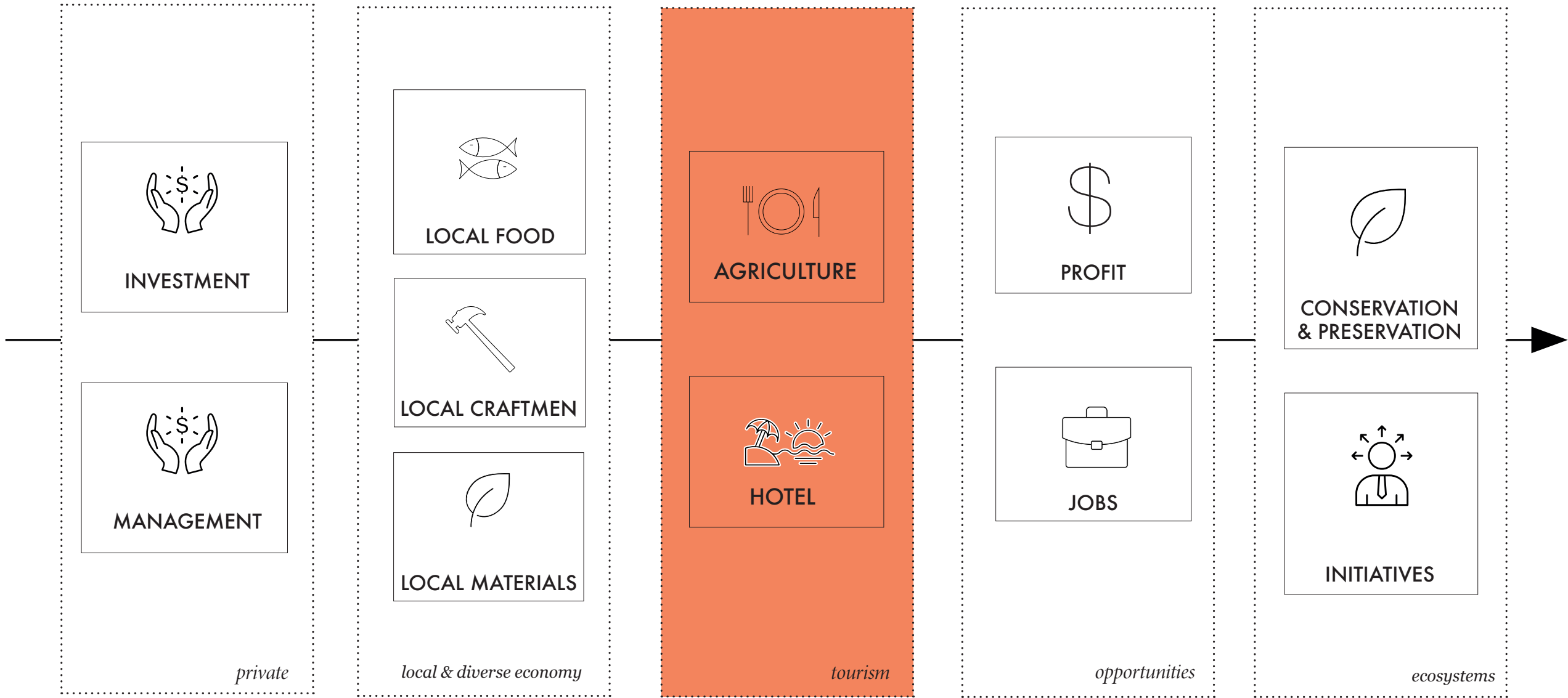
I. Business plan

II. The actors

STRATEGY



STRATEGY



ACTORS



Head of farming



Head of farming

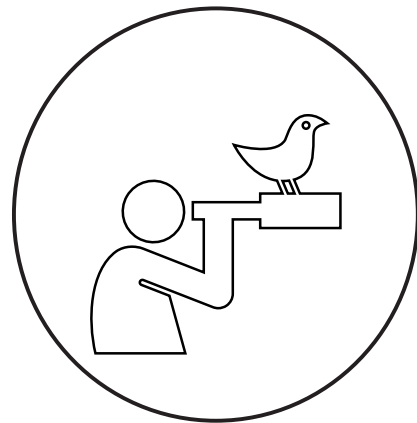


Head of farming

“Landscape is by definition an ambiguous *connecting* concept,
in which *natural factors* and *human actions* come together”

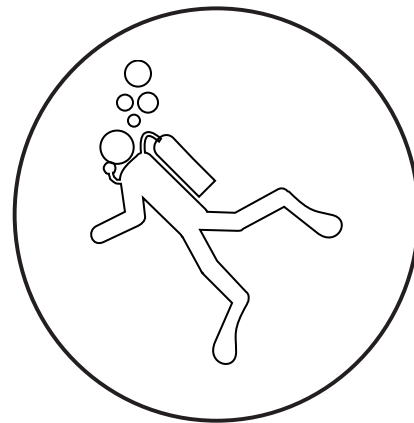
Landscape architect Dirk Sijmons

ACTIVITIES



BIRD WATCHING

*at the Red Pond,
Guana Bay
or Pelican Rock*



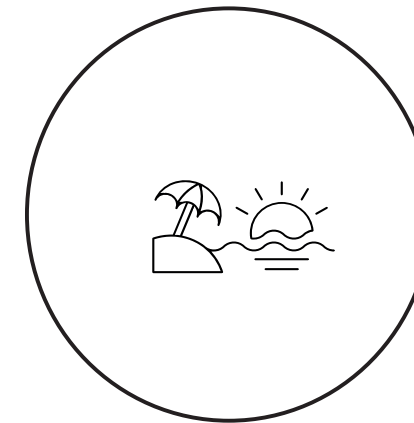
DIVING & FISHING

*at Pelican Rock and
the other small islands*



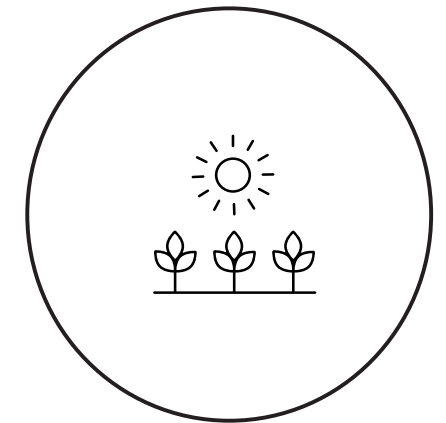
HIKING

*to Guana Bay,
Naked Boy Hill or
Oyster Pond*



BEACH

beach cleaning



GARDENING

*Pick your own herbs
for tea or
cooking class,
or help gardening*

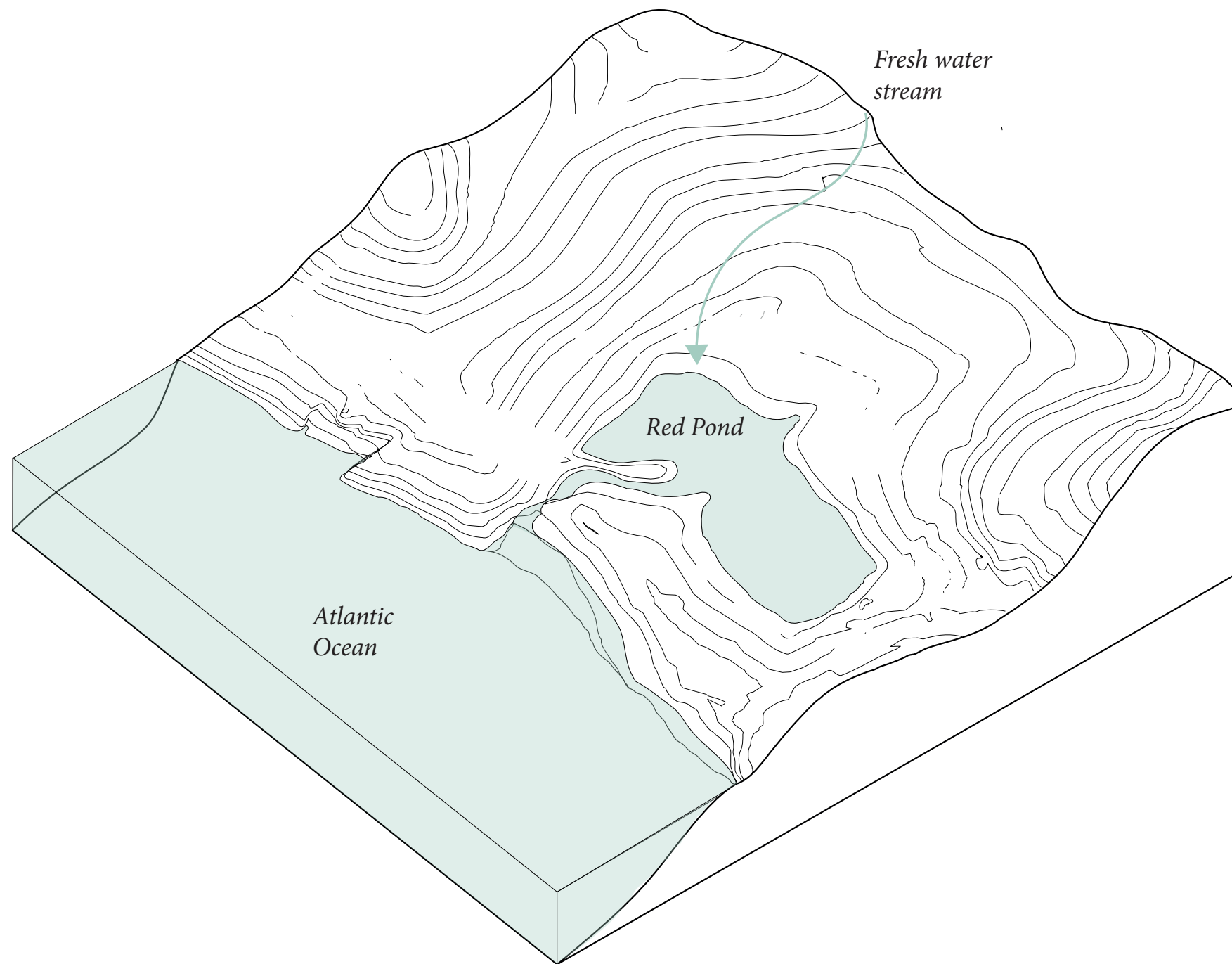
THE SITE

Urban and design strategy

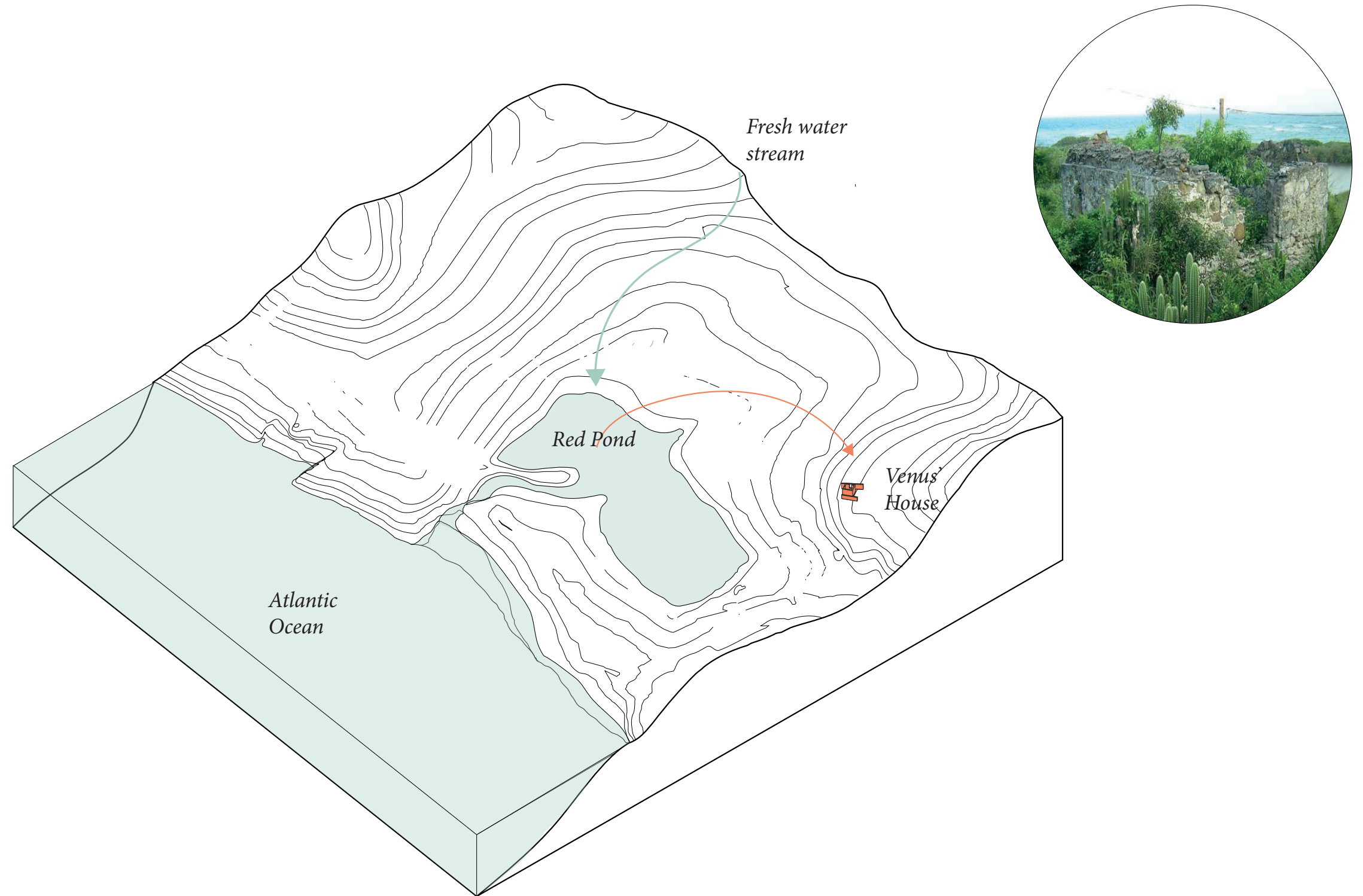
RED POND (GIBBS BAY & GUANA BAY)



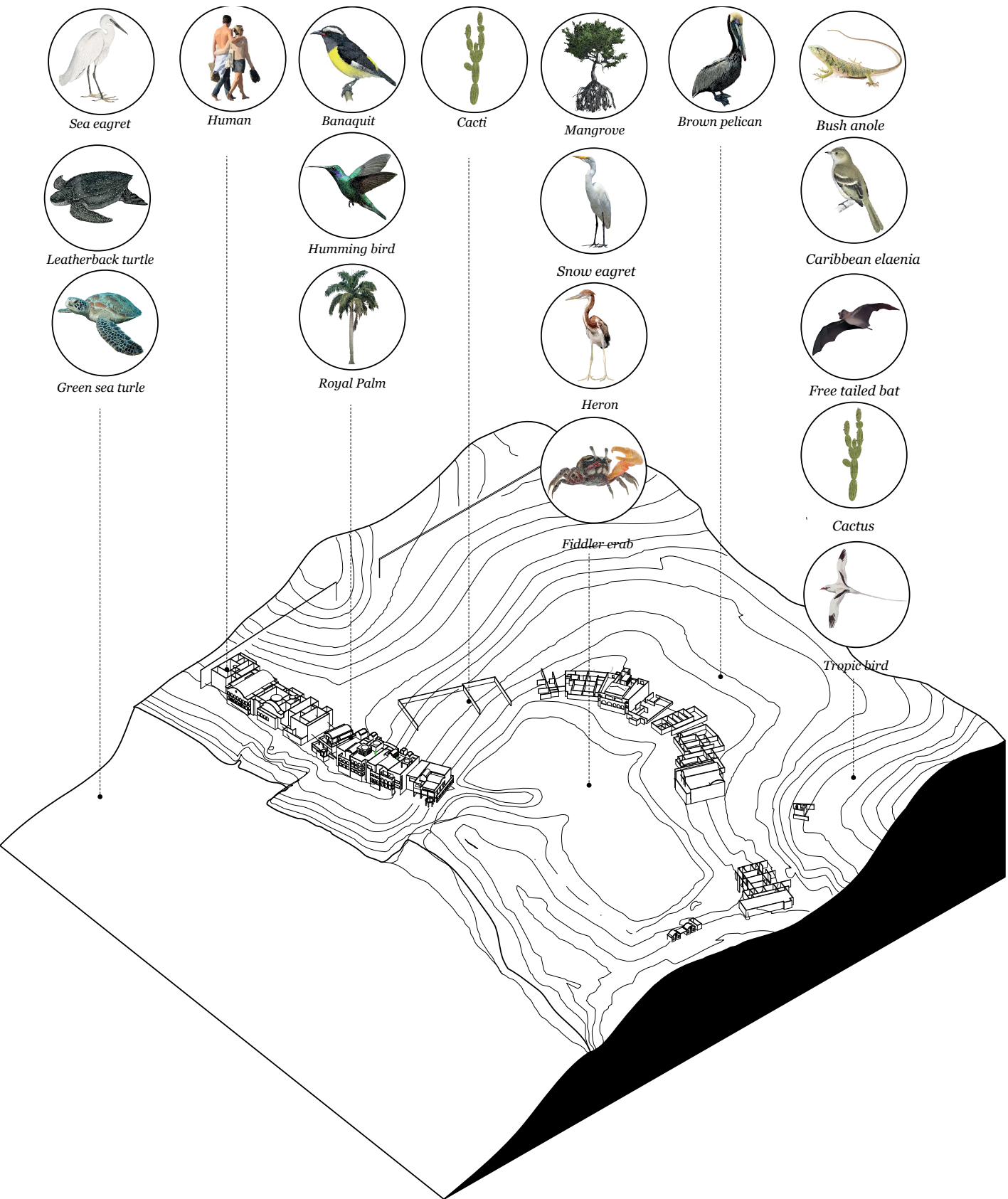
WATER



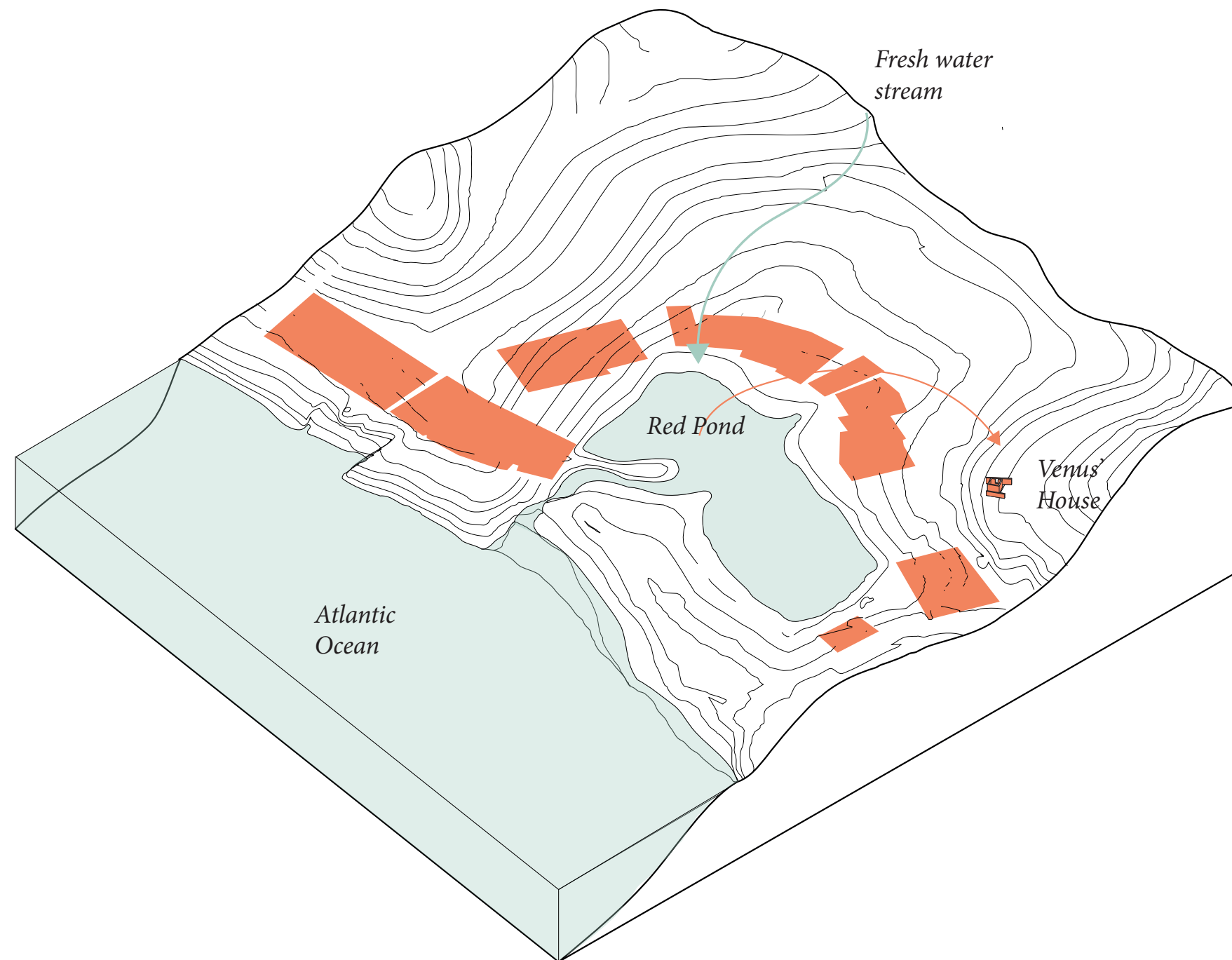
VENUS' HOUSE



FLORA & FAUNA



BUILDINGS: THE MODERN RUINS

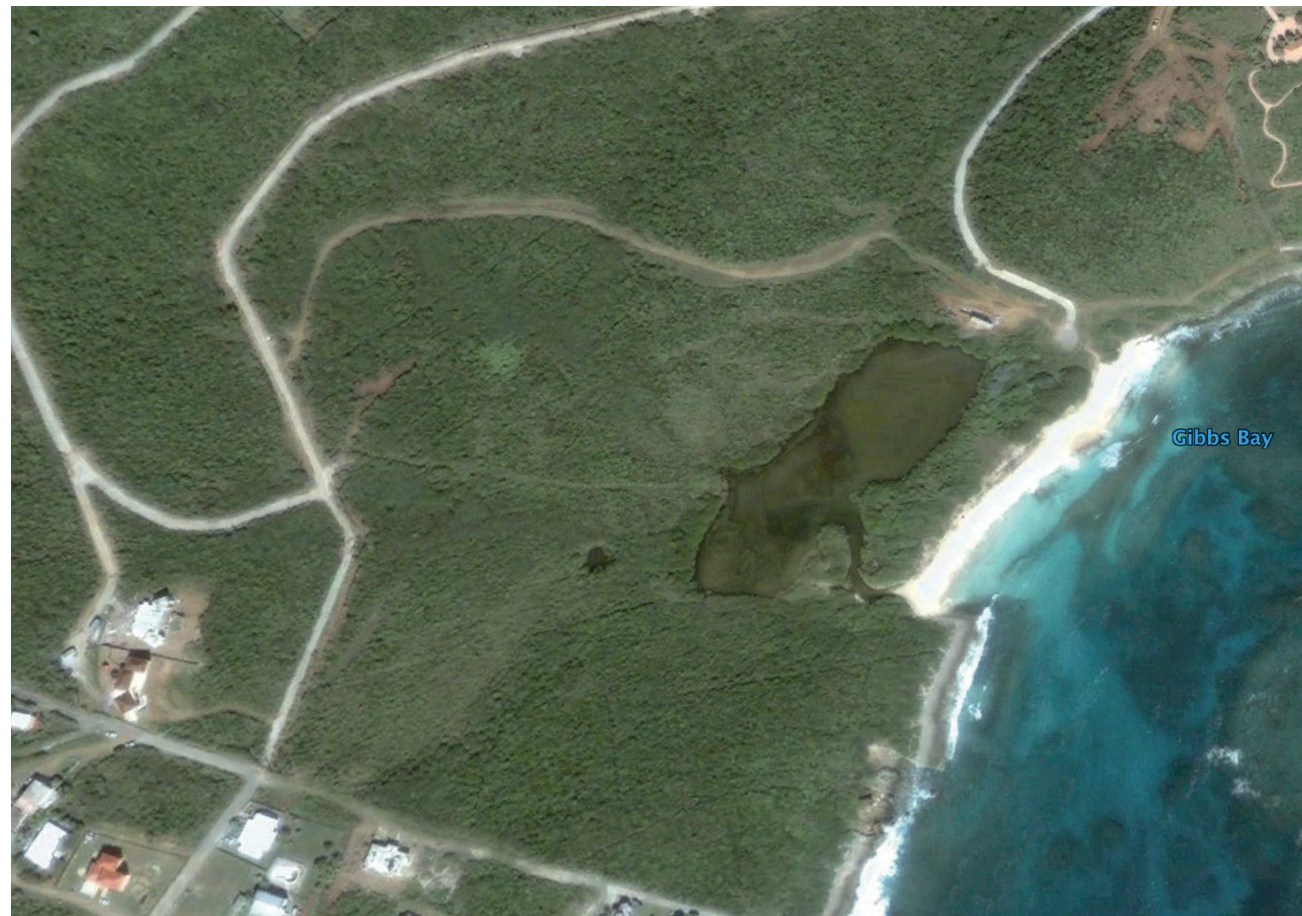


MODERN RUINS



Red Pond - Gibbs Bay

DESTRUCTION



Before, 2005



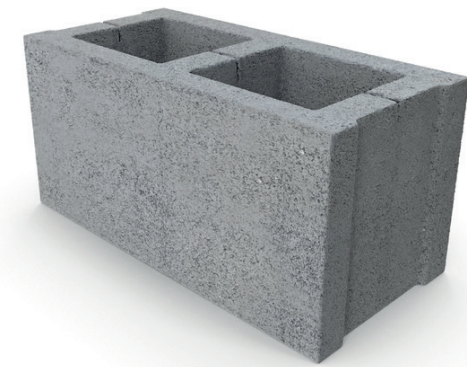
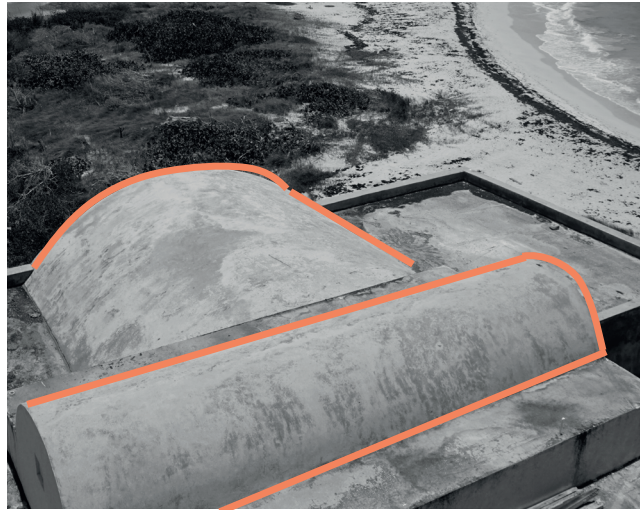
After, 2014

RESORT



*Former plans: Aquarius Beach Resort, Residences, Spa & Casino
was to consist of 280 beachfront condos and seaside villas*

CHARACTERISTICS OF THE EXISTING



*Framing views and
strong geometry*

Repetition of arcs

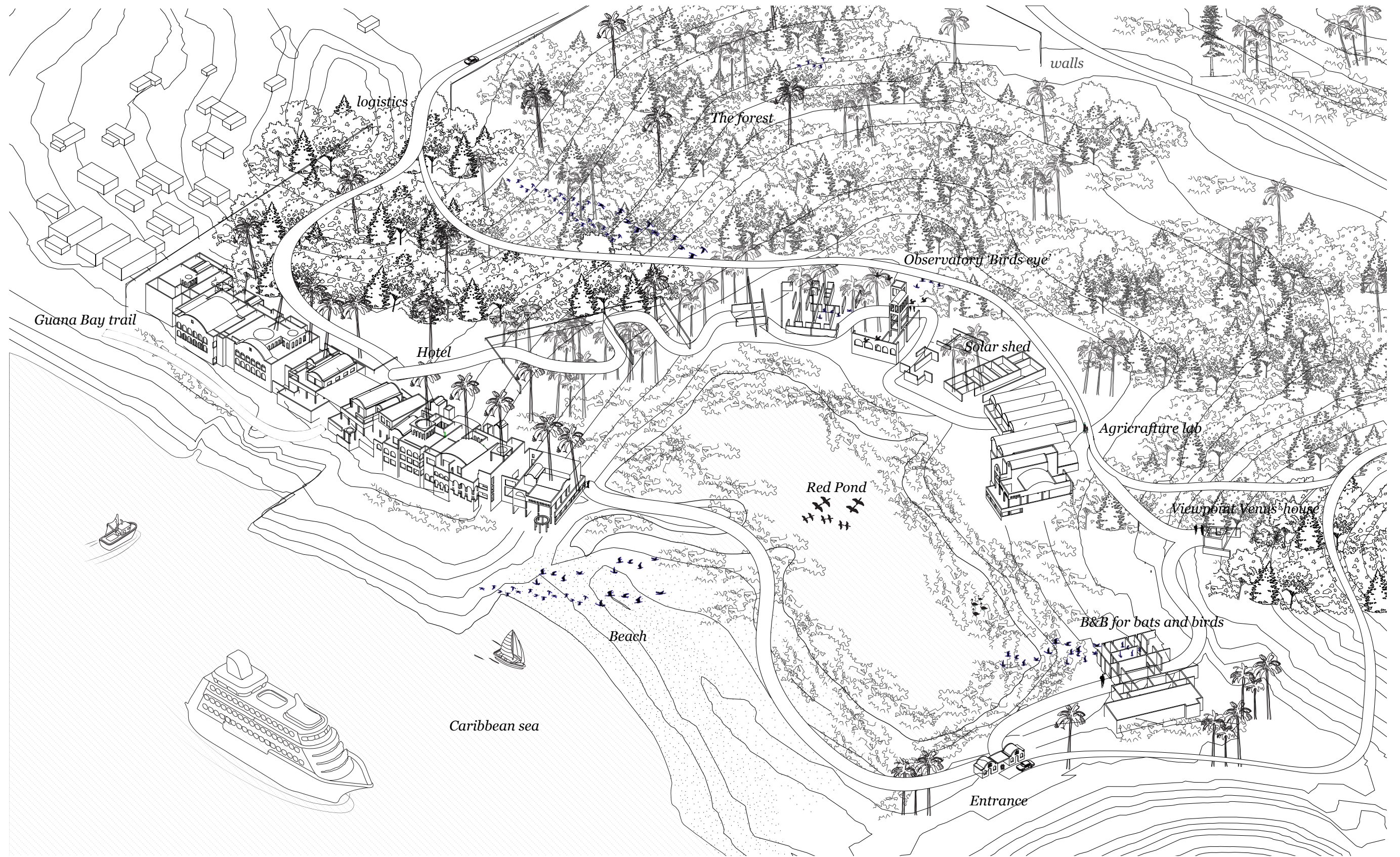
Concrete blocks

Rebars

PARK STRATEGY

the optimal use of ecosystem services

THE PARK



PRINCIPLES

THE THREE R's

- 1. Reduce*
- 2. Reuse*
- 3. Recycle*

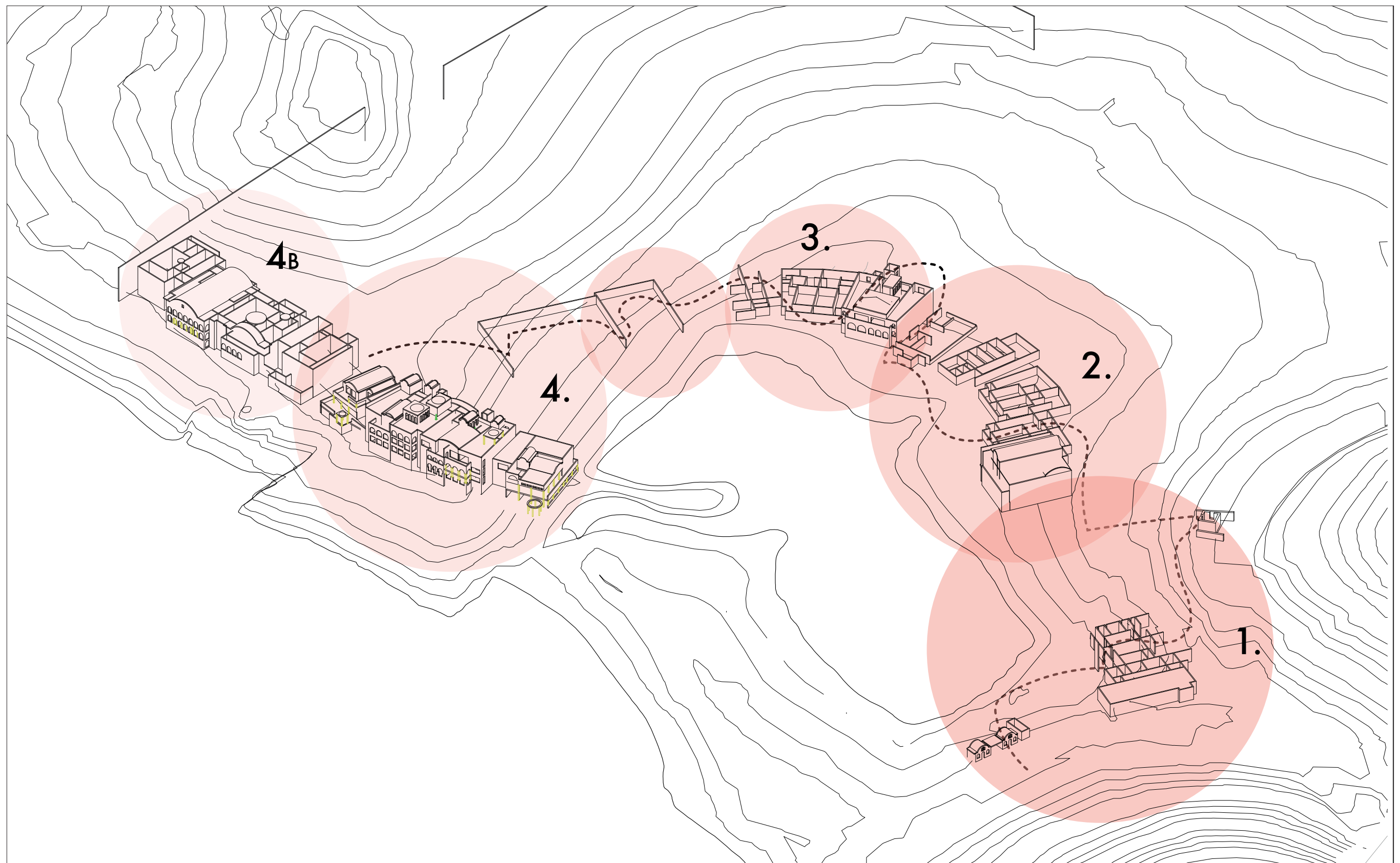
ACCEPTING

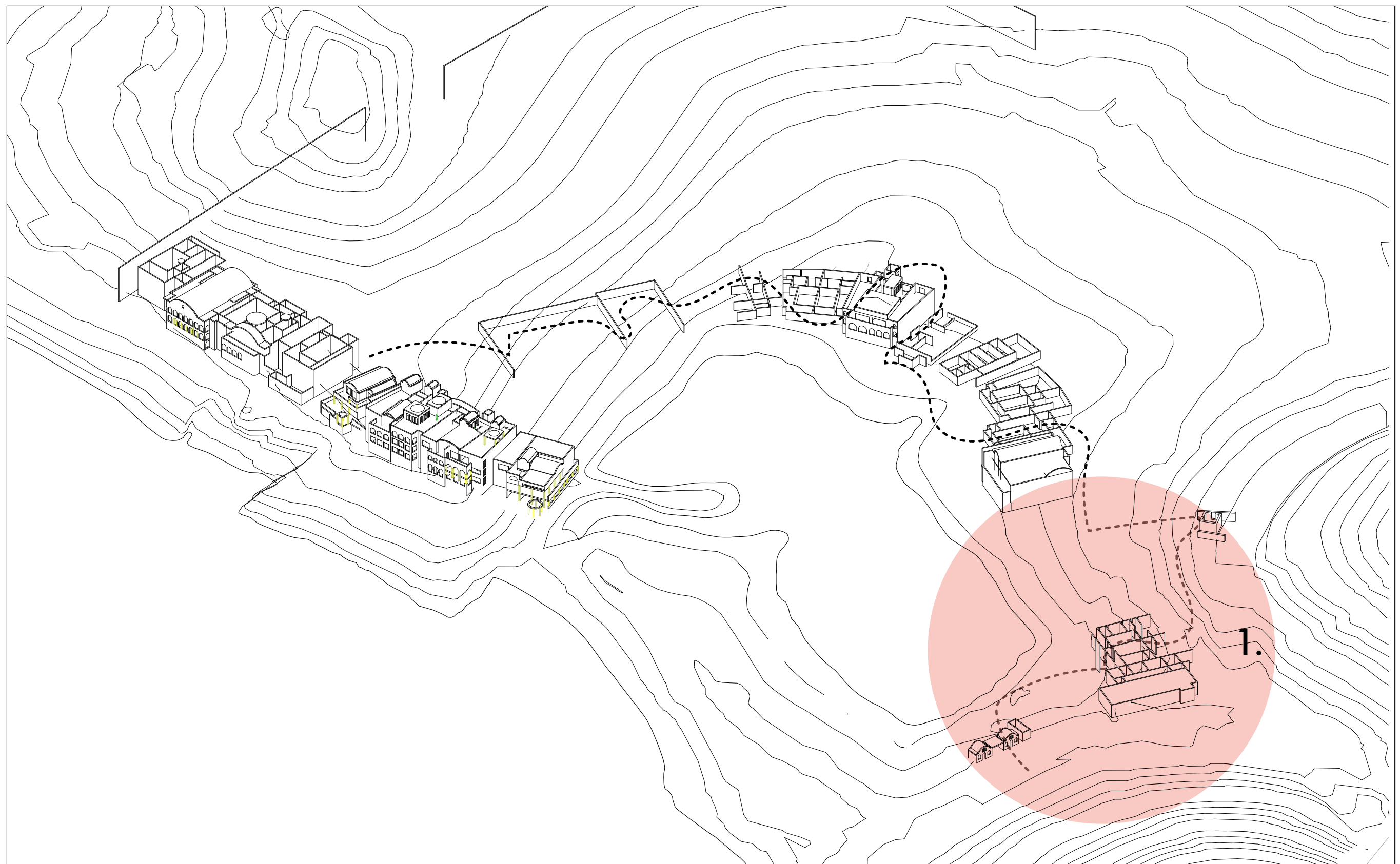
*the force and impact
of hurricanes at
various gradations*

MINIMAL

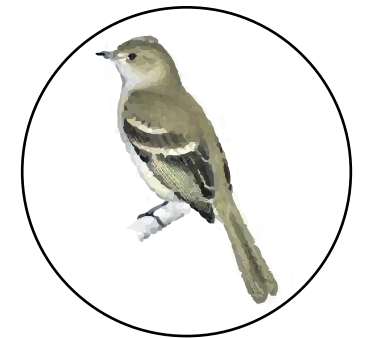
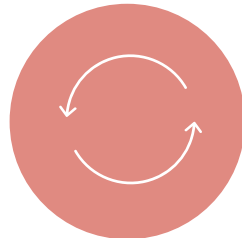
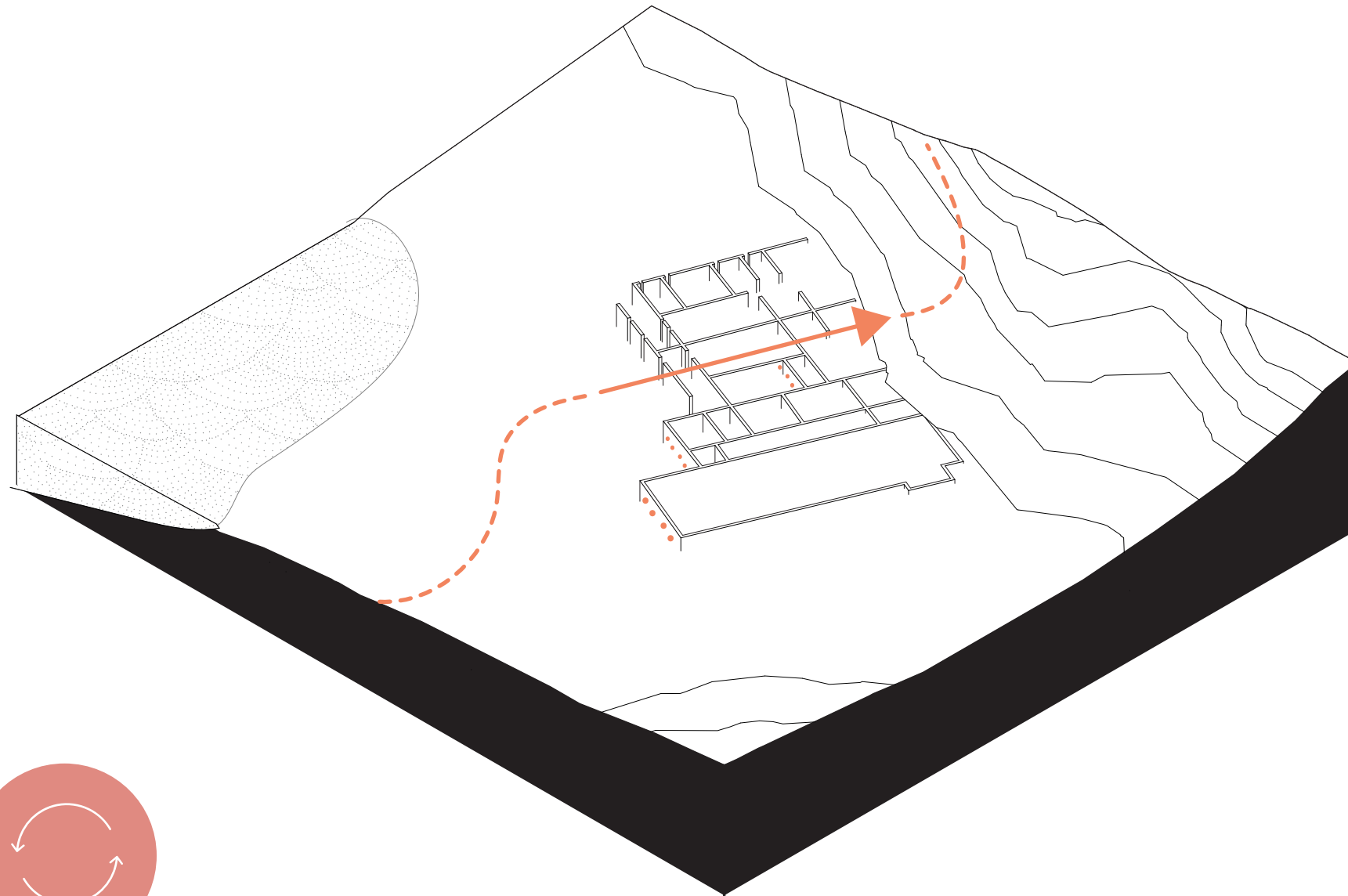
Use of material

PHASING





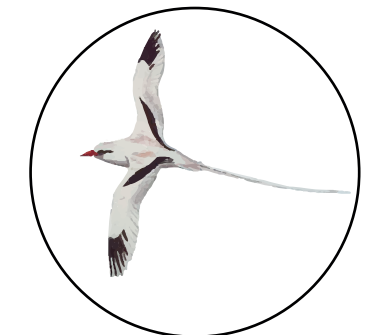
B&B FOR BATS&BIRDS



Caribbean elaenia



Free tailed bat



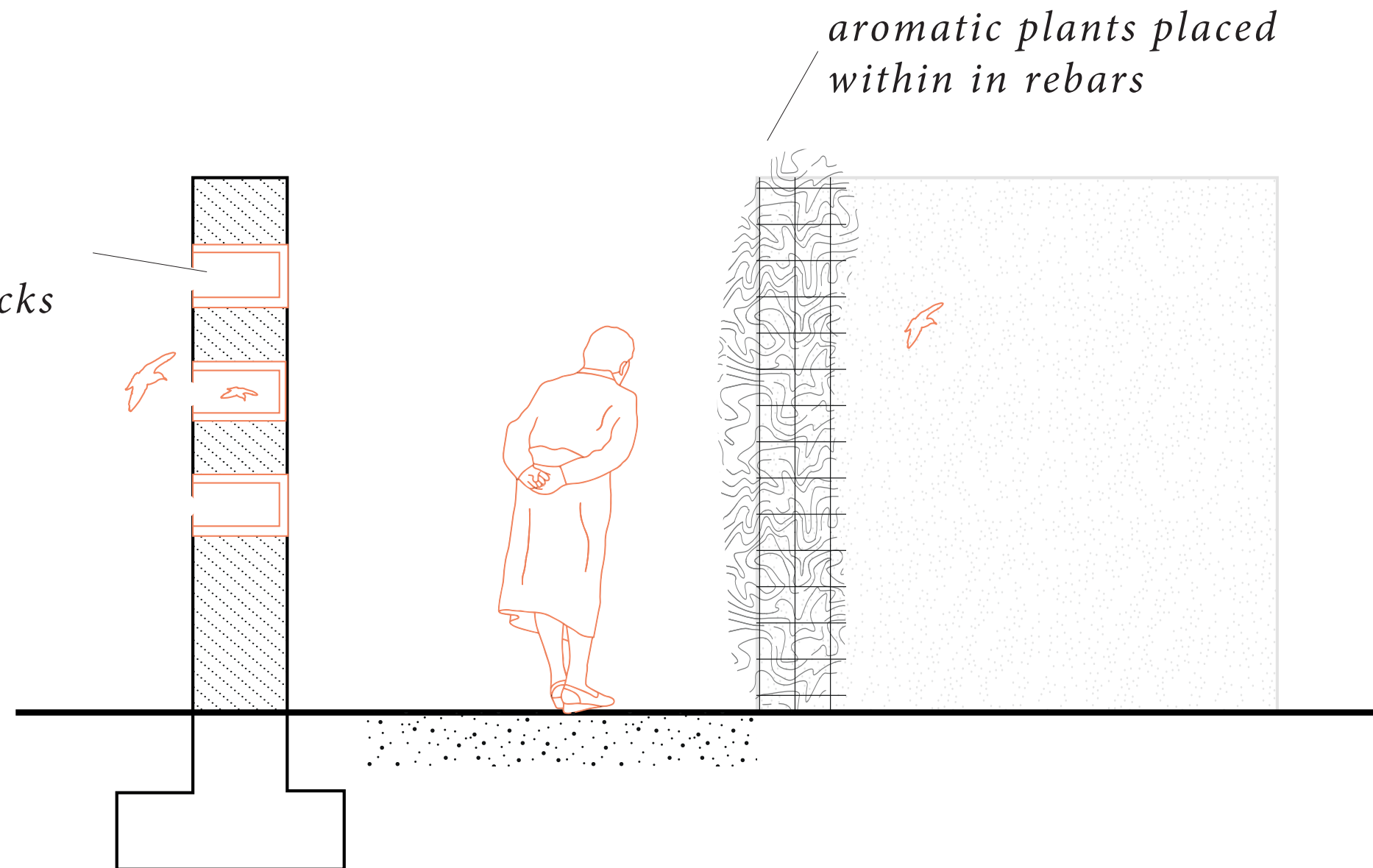
Tropic bird



Banaquit

B&B FOR BATS&BIRDS

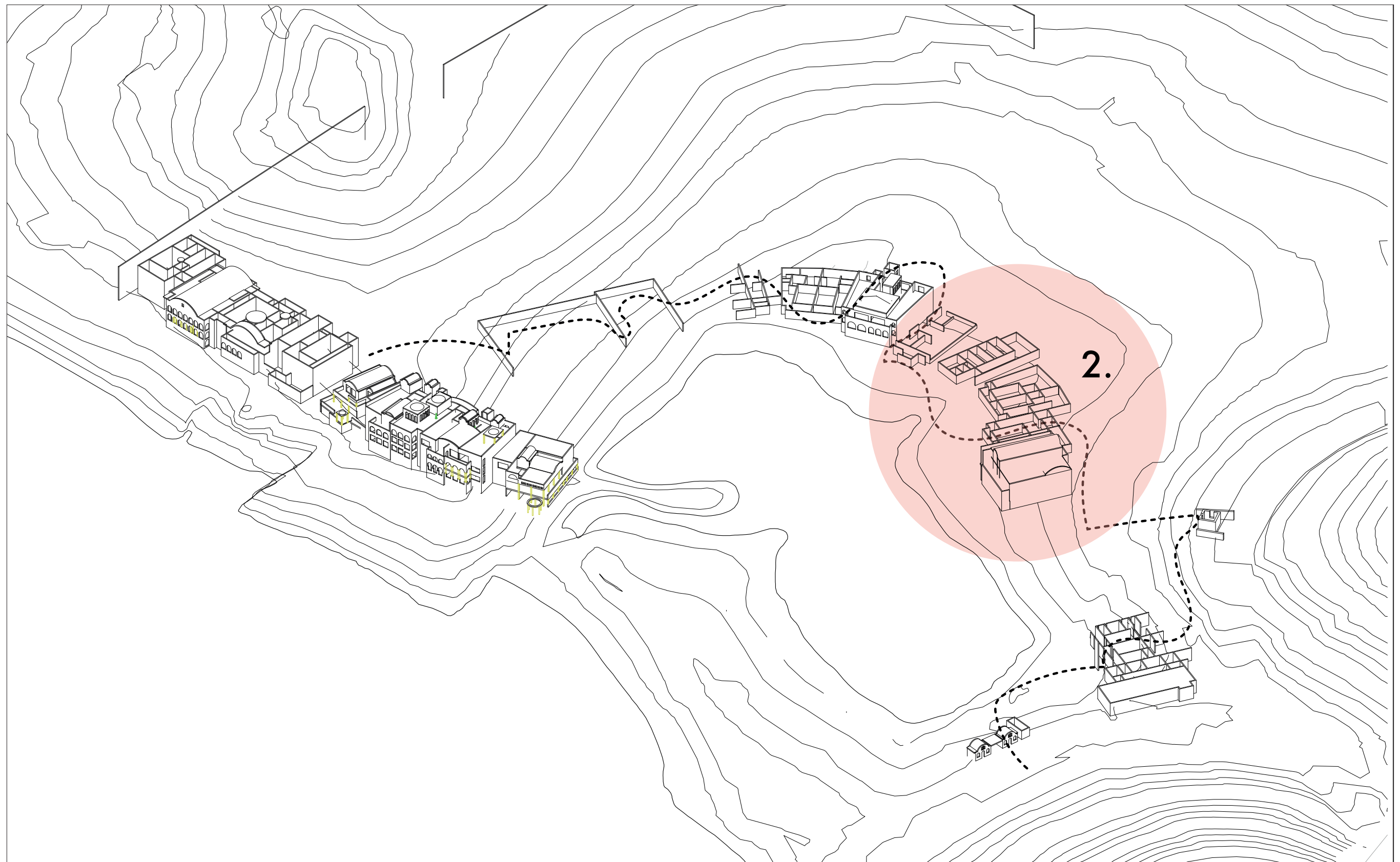
*bird boxes placed
in removed concrete blocks*



B&B FOR BATS&BIRDS



PHASE 2

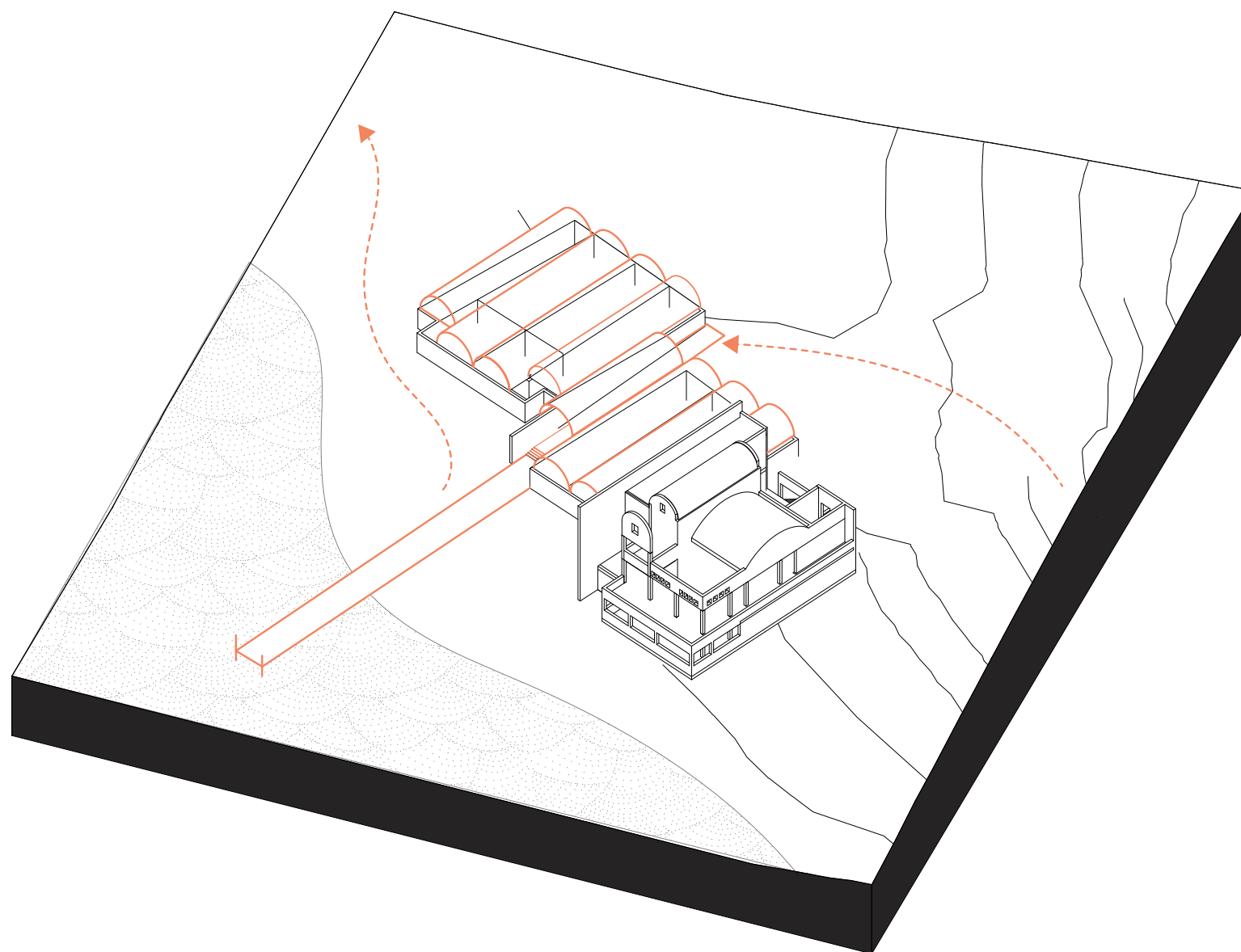


PHASE 2



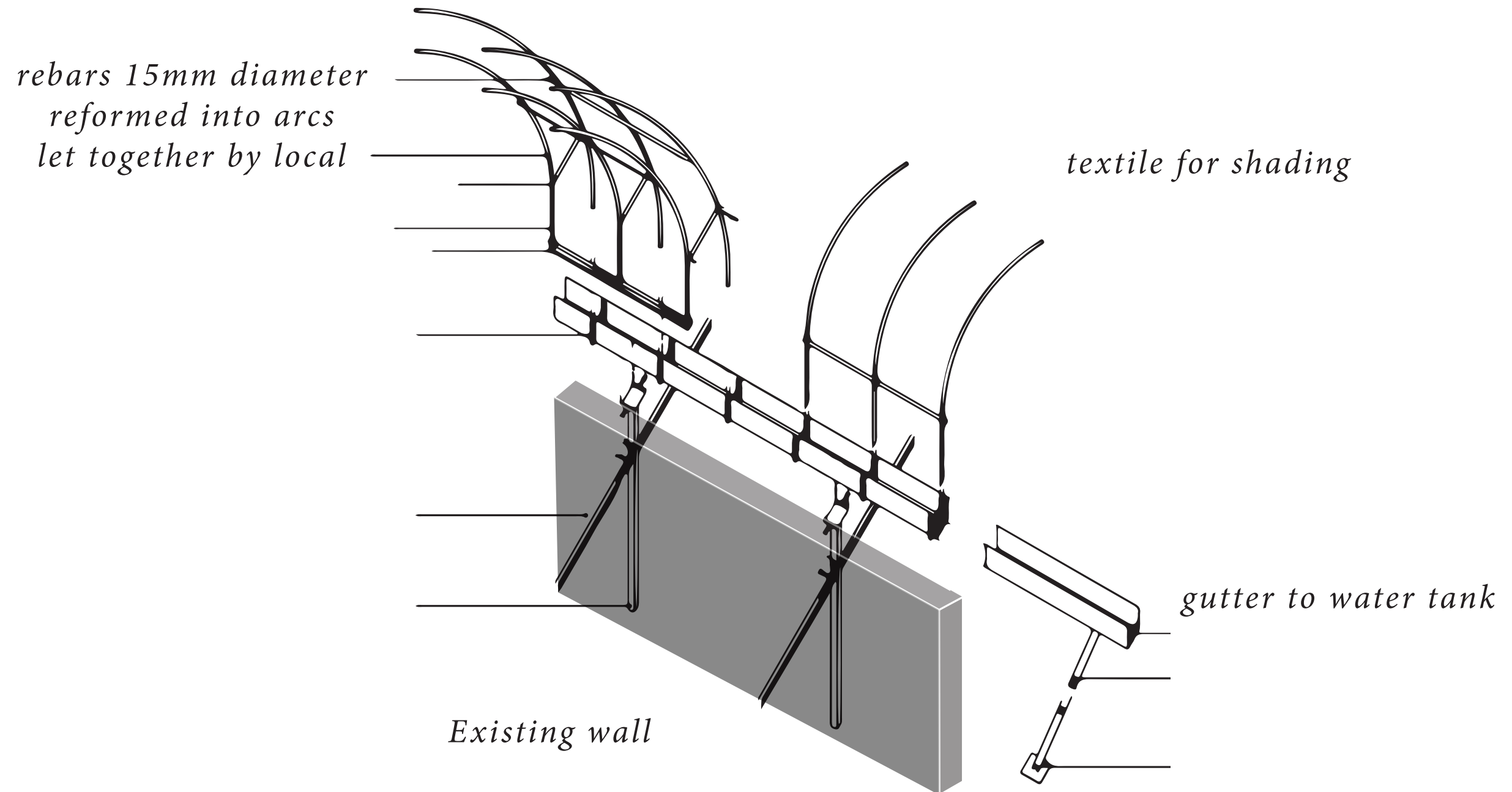
*Building with an open floorplan
+ foundation walls*

PHASE 2: THE AGRICRAFTURE LAB

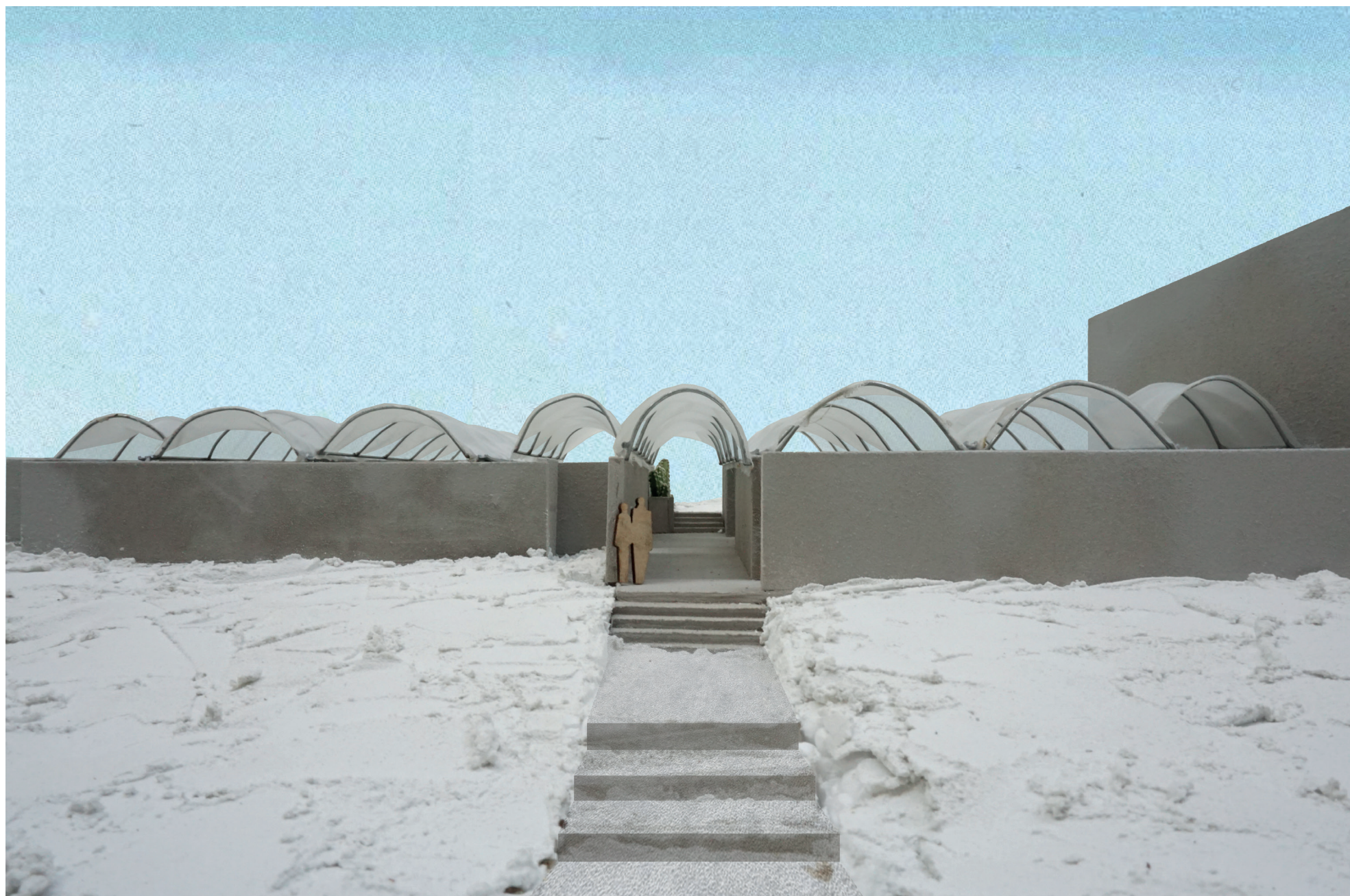


Creating shade and rainwater harvest

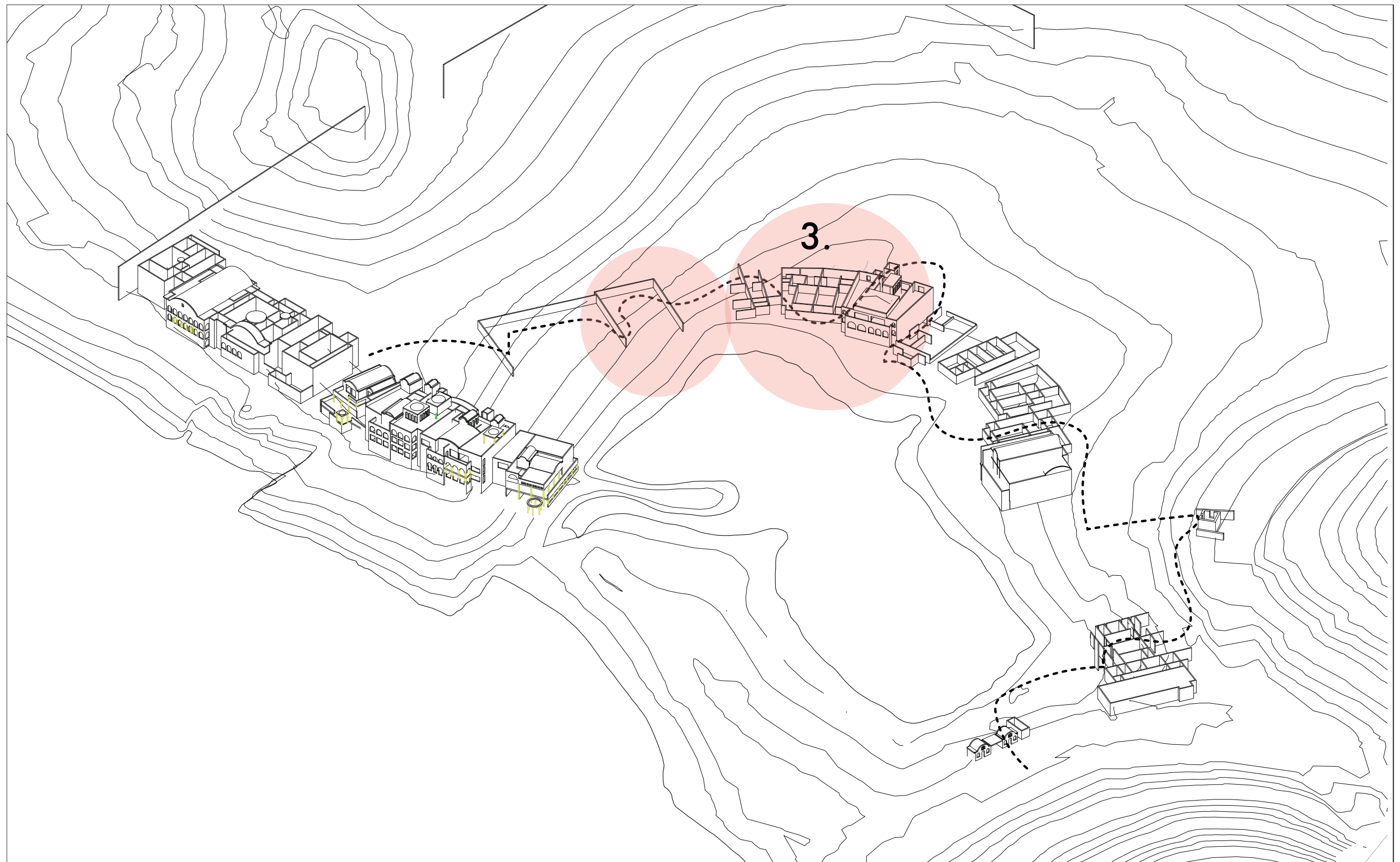
PHASE 2: THE AGRICRAFTURE LAB



PHASE 2: THE AGRICRAFTURE LAB



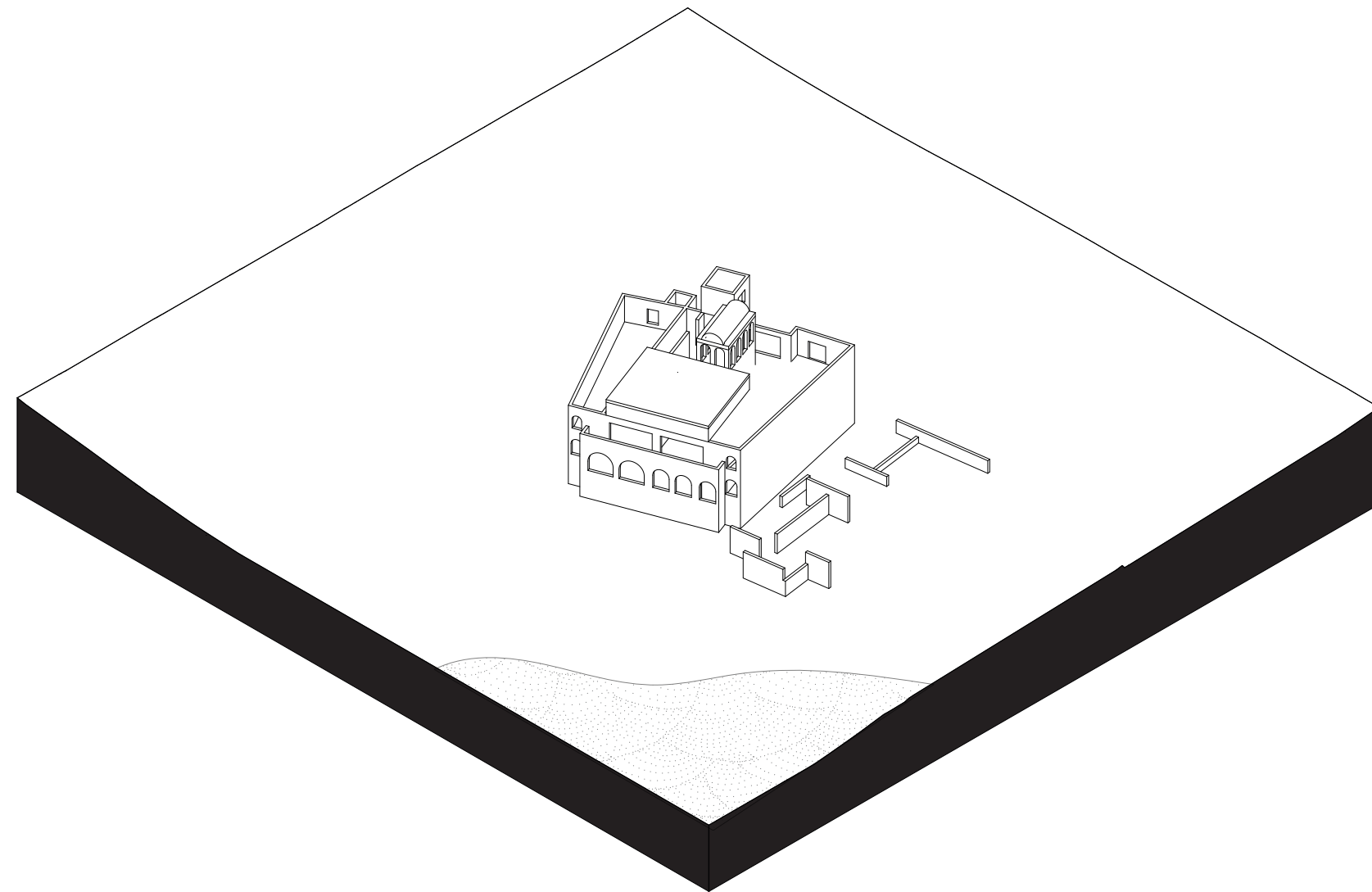
PHASE 3



PHASE 3

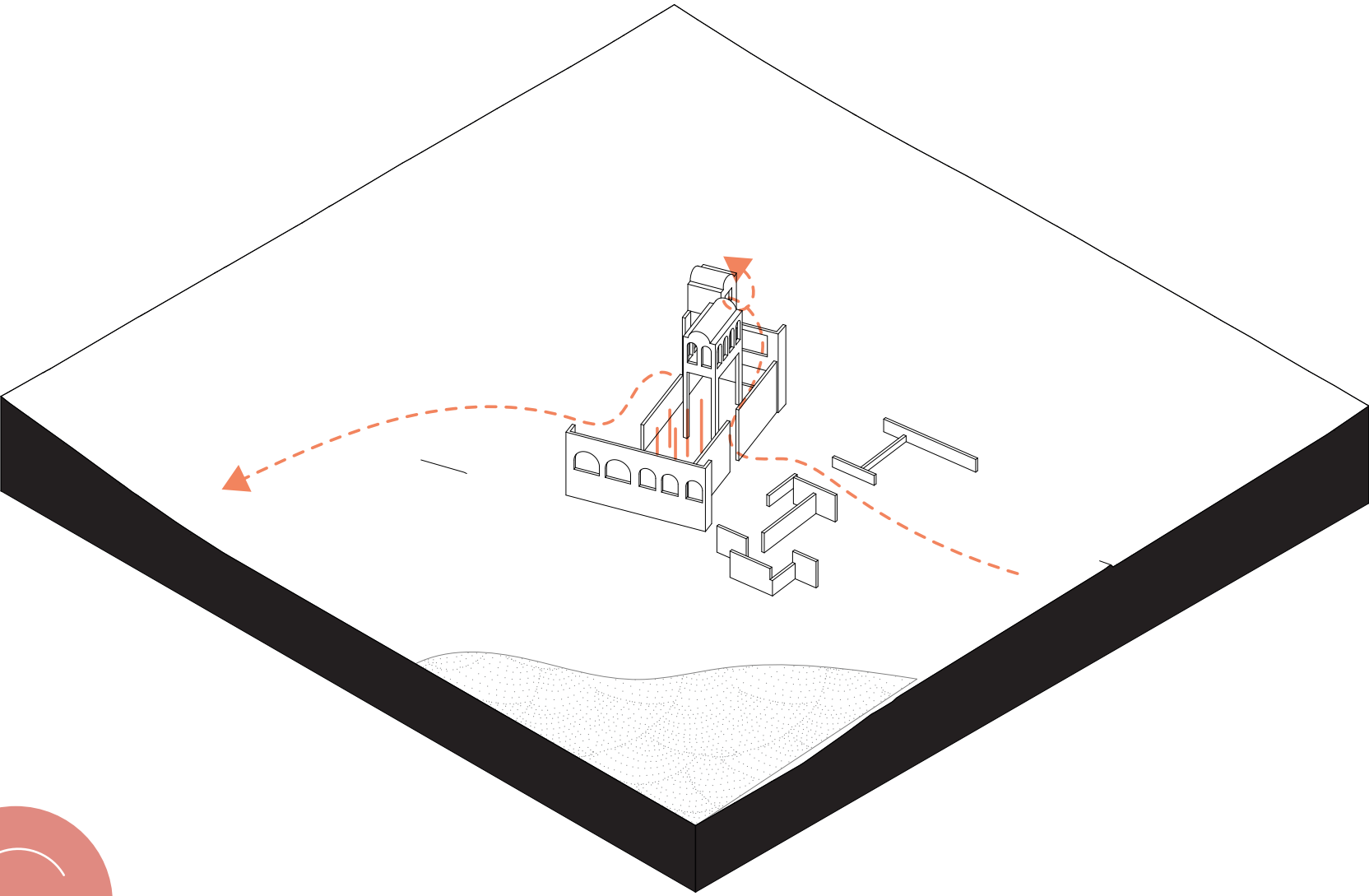


PHASE 3

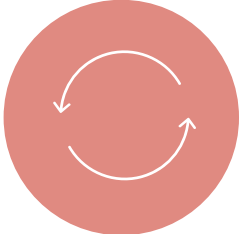


Existing

PHASE 3: THE OBSERVATORY



Brown pelican



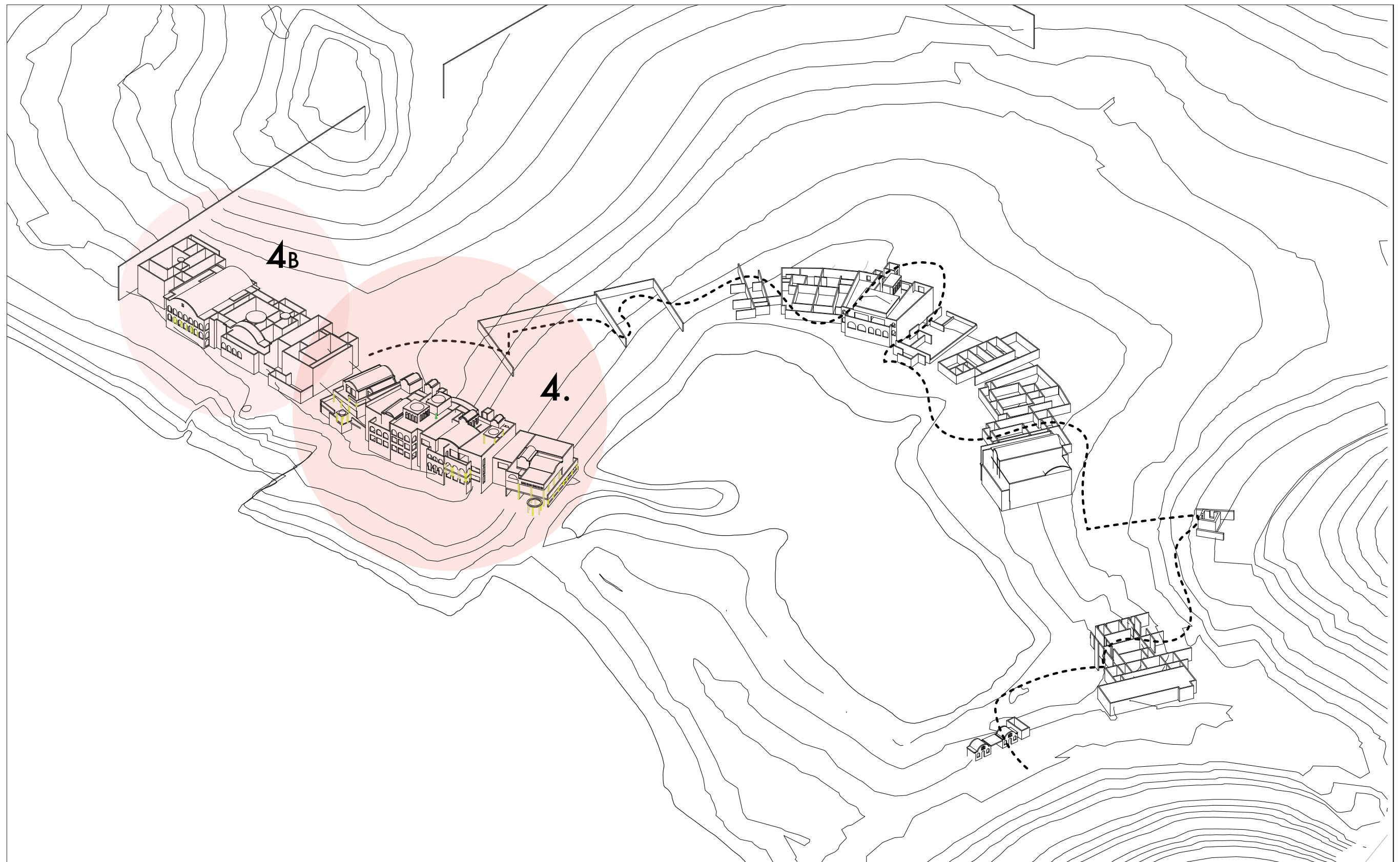
PHASE 3: THE OBSERVATORY



LAST PHASE

The hotel

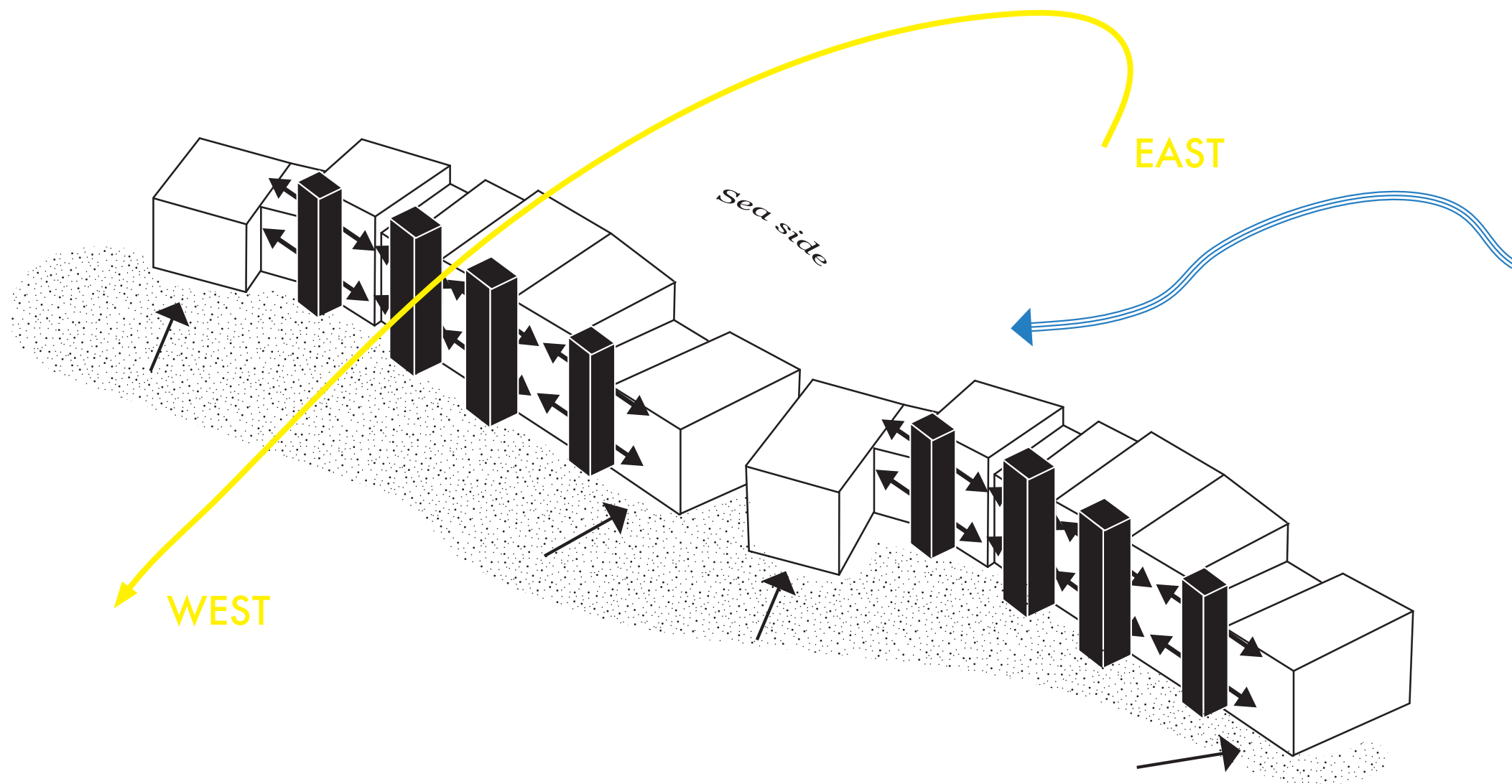
PHASE 4



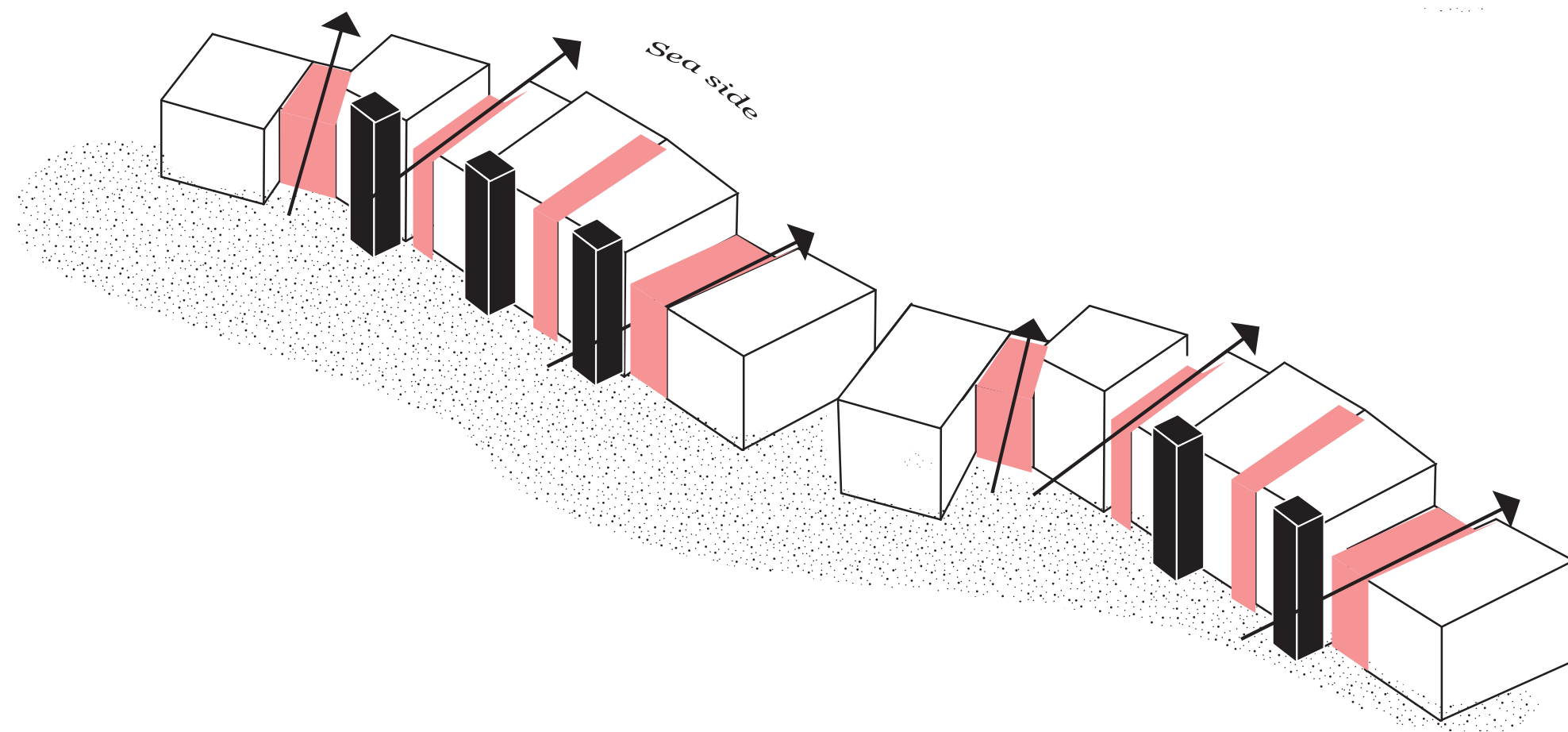
PHASE 4



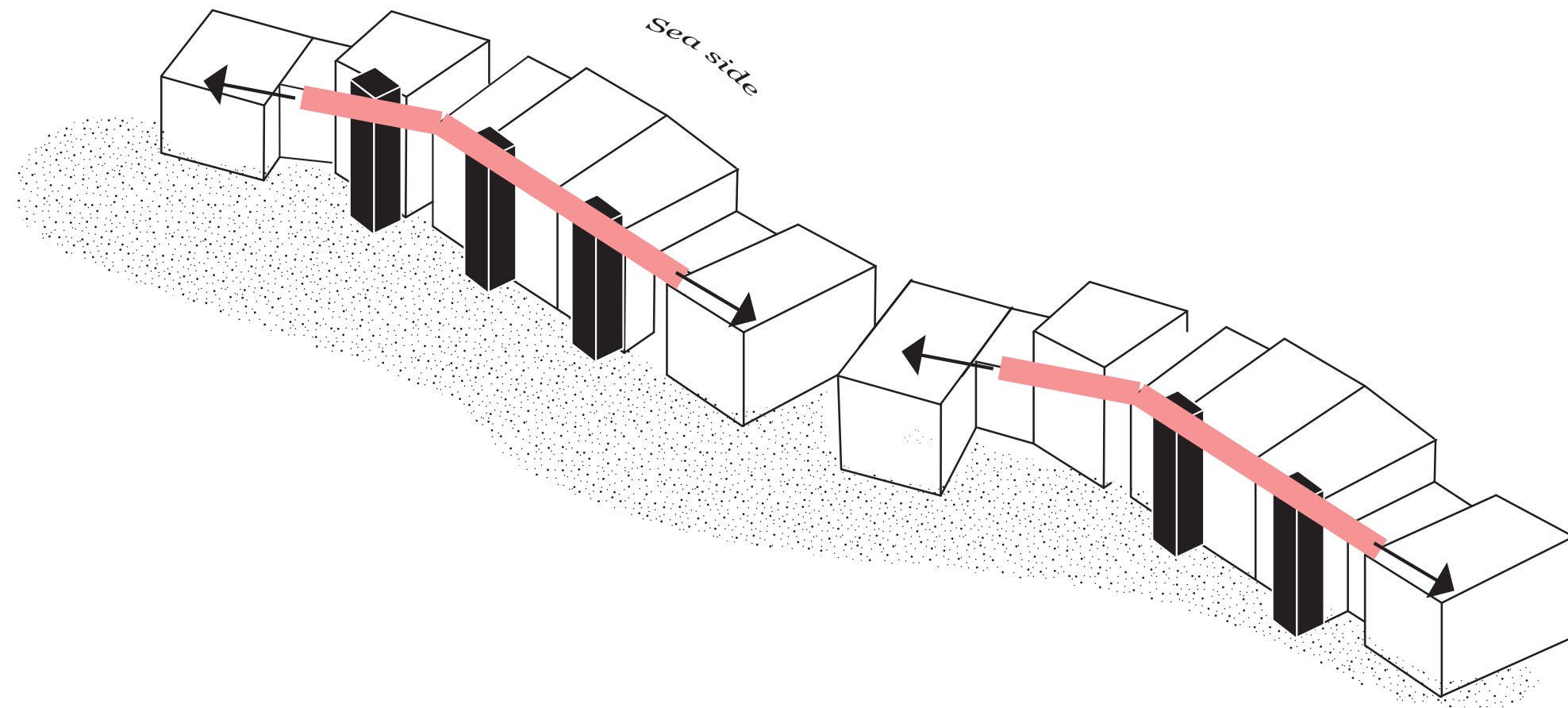
CONTEXT



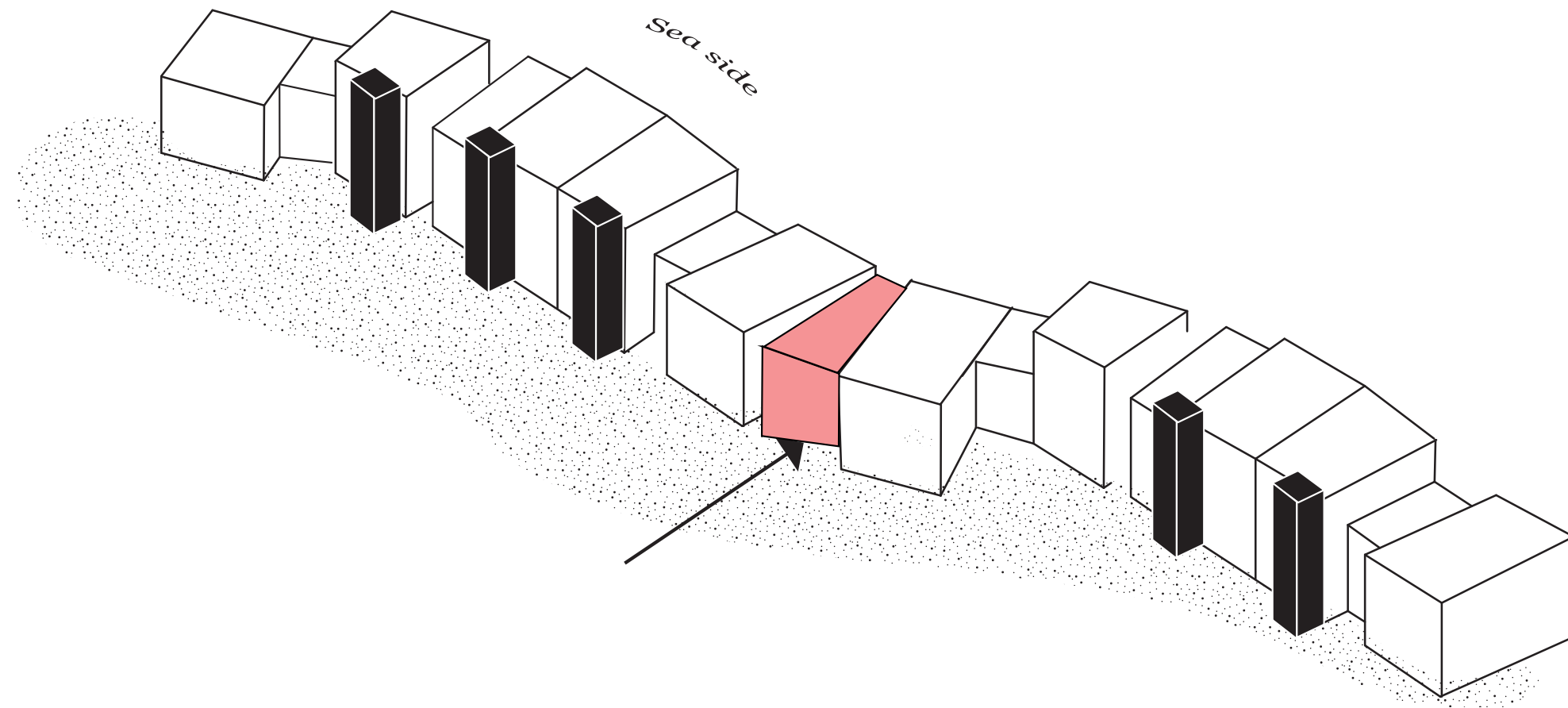
VOIDS



ONE CIRCULATION



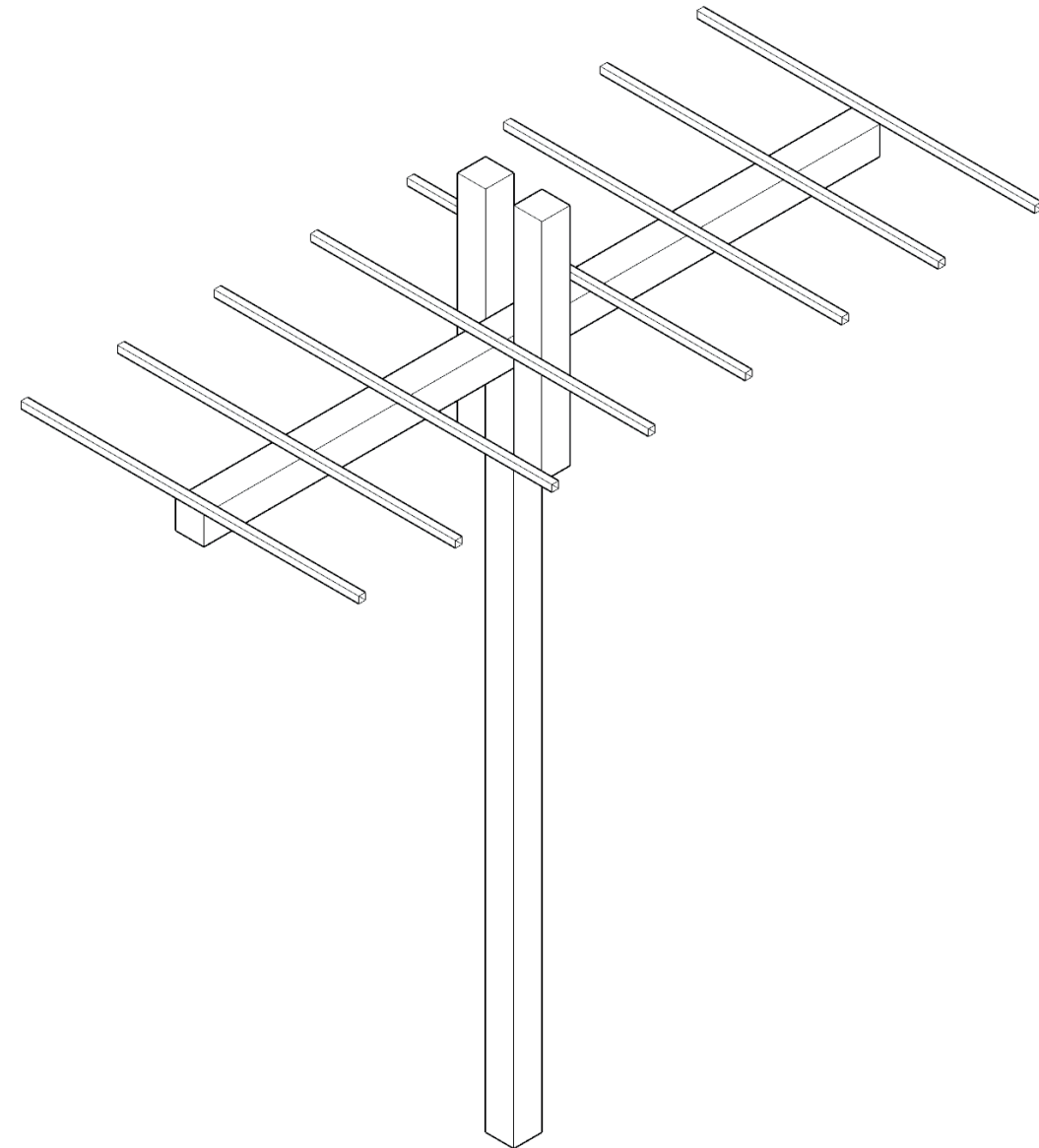
ENTRANCE



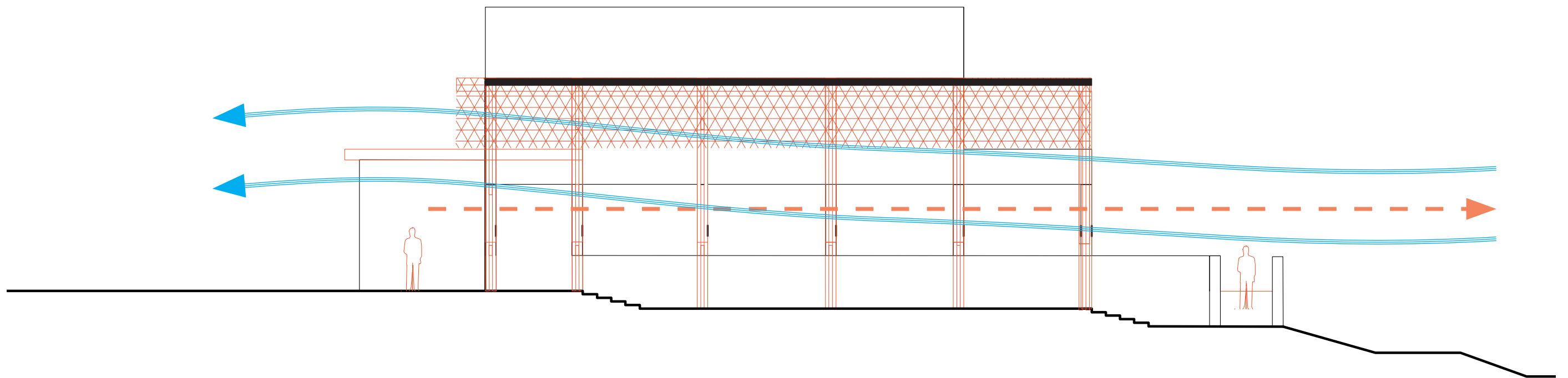
HOTEL ENTRANCE



STRUCTURE

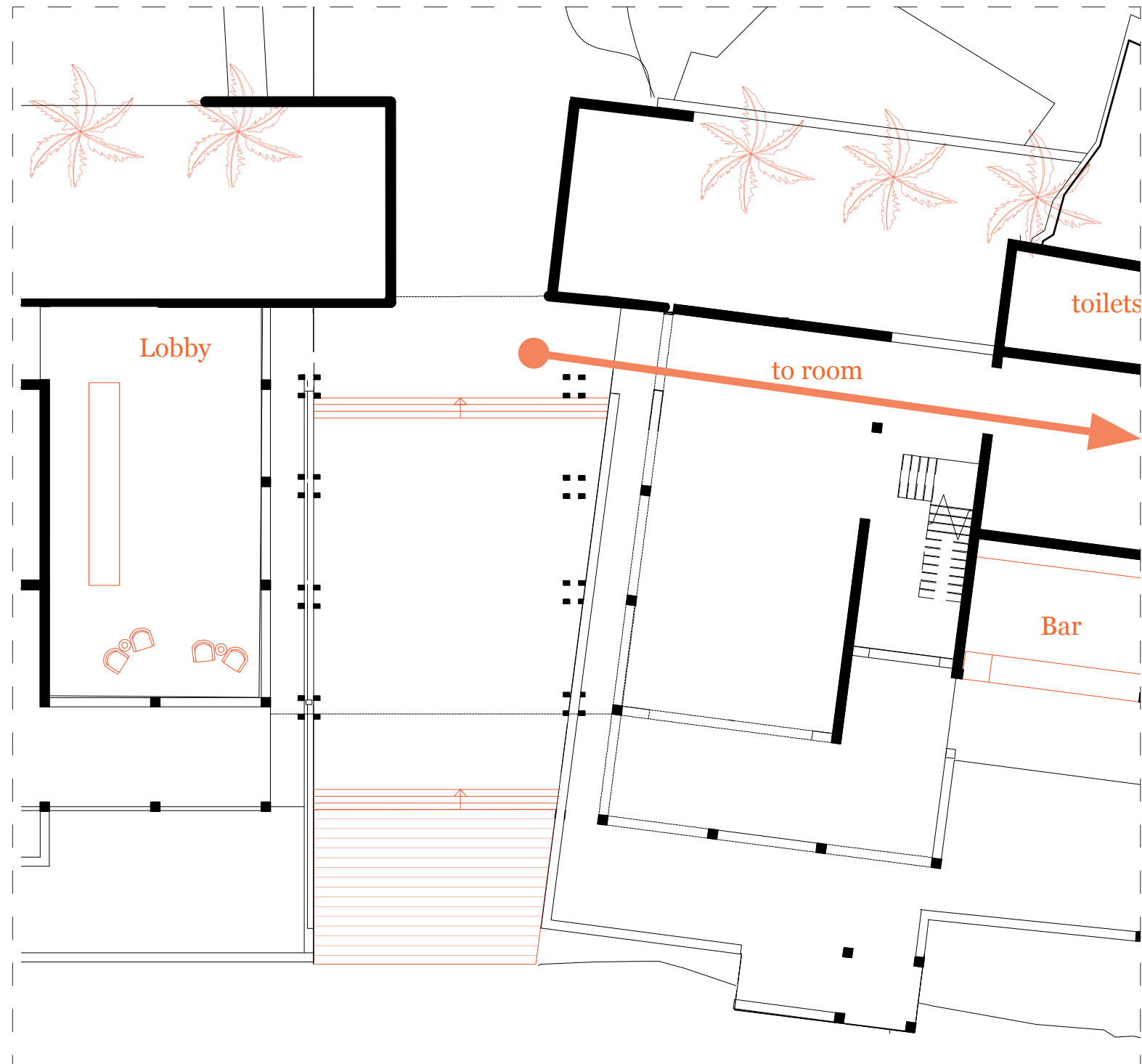


SECTION

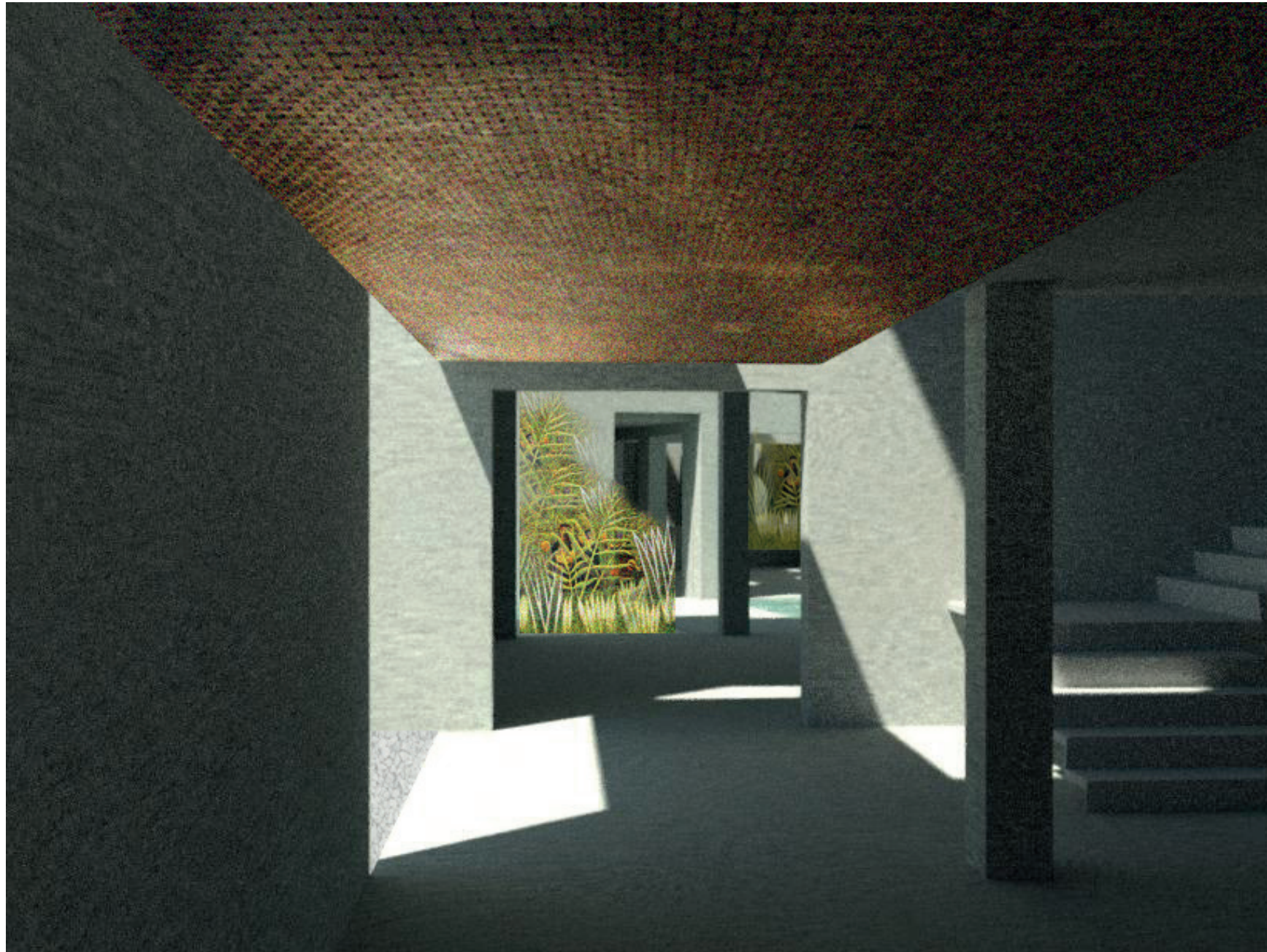




FLOORPLAN



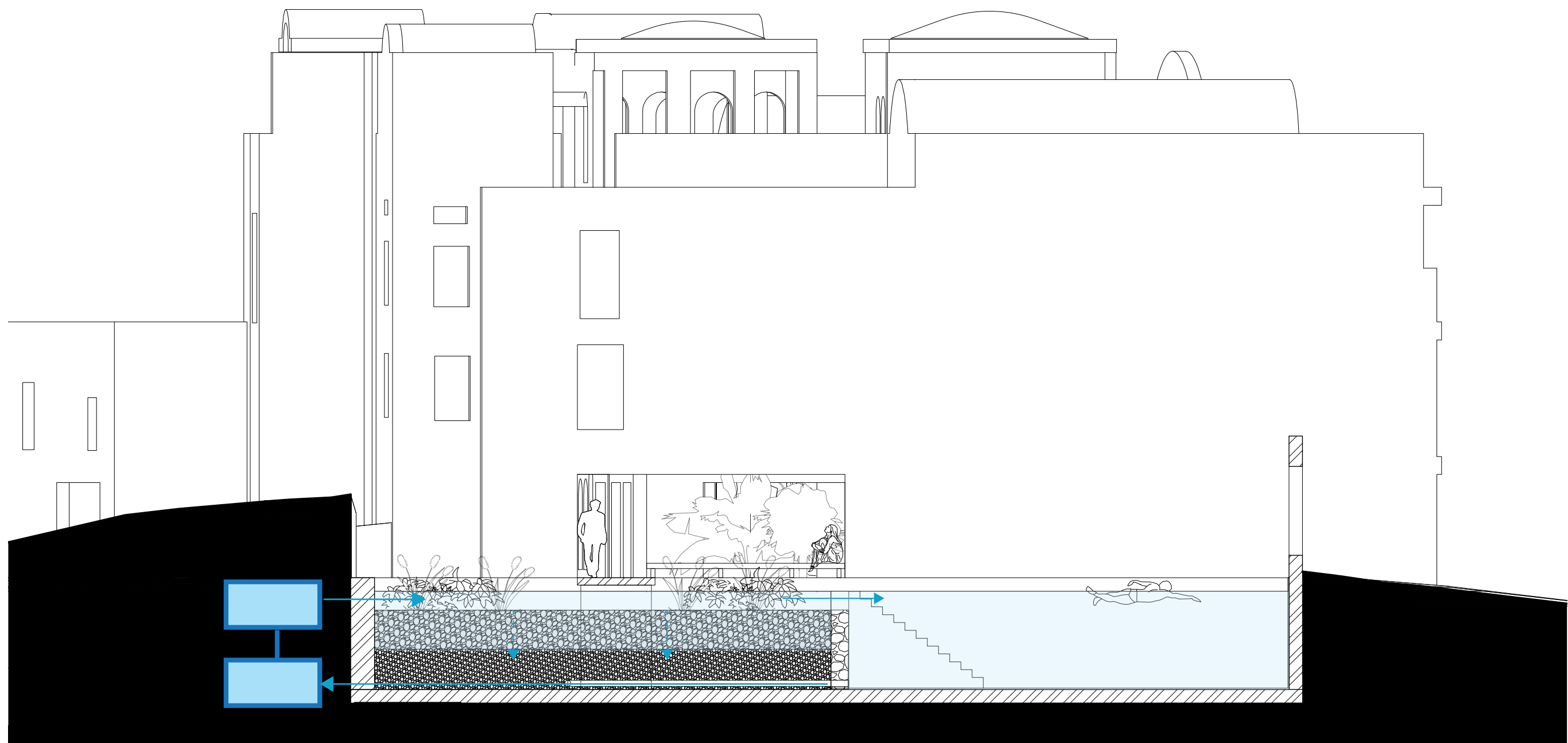
TO THE ROOMS



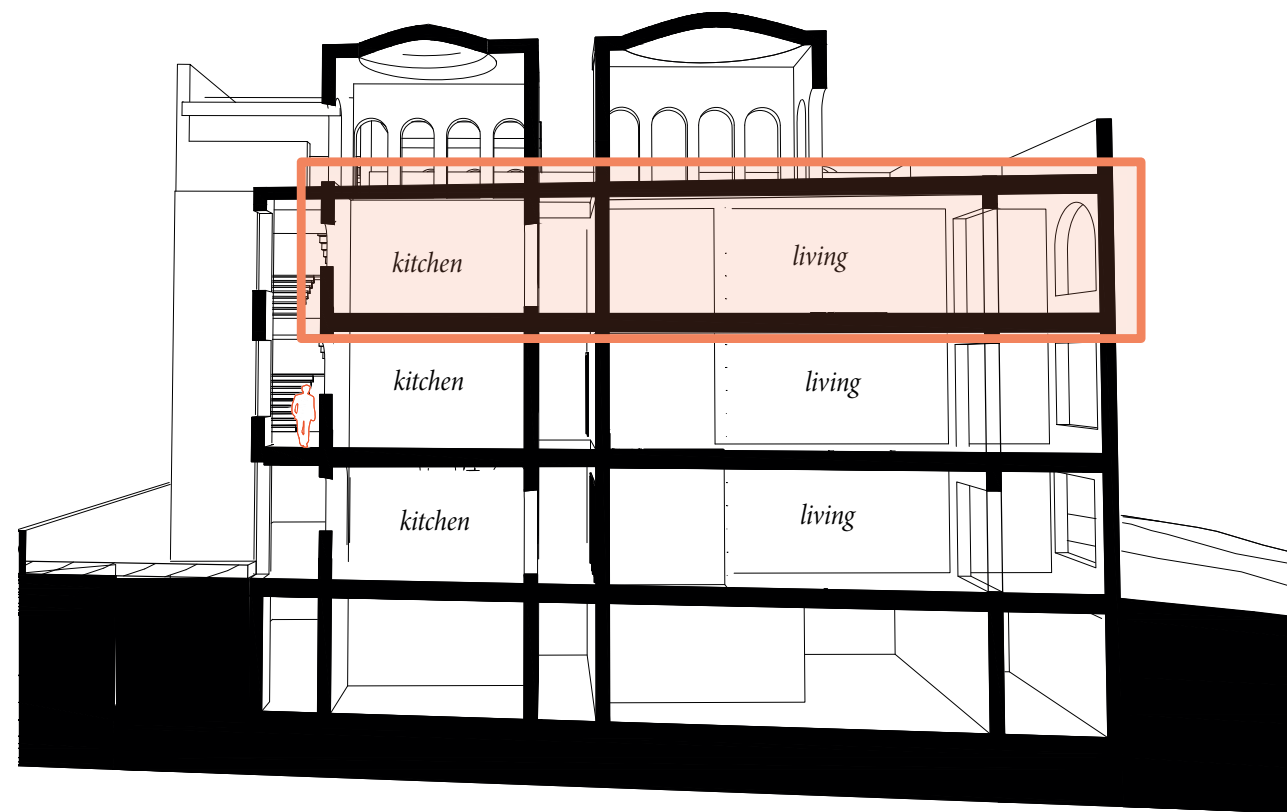
THE POOL



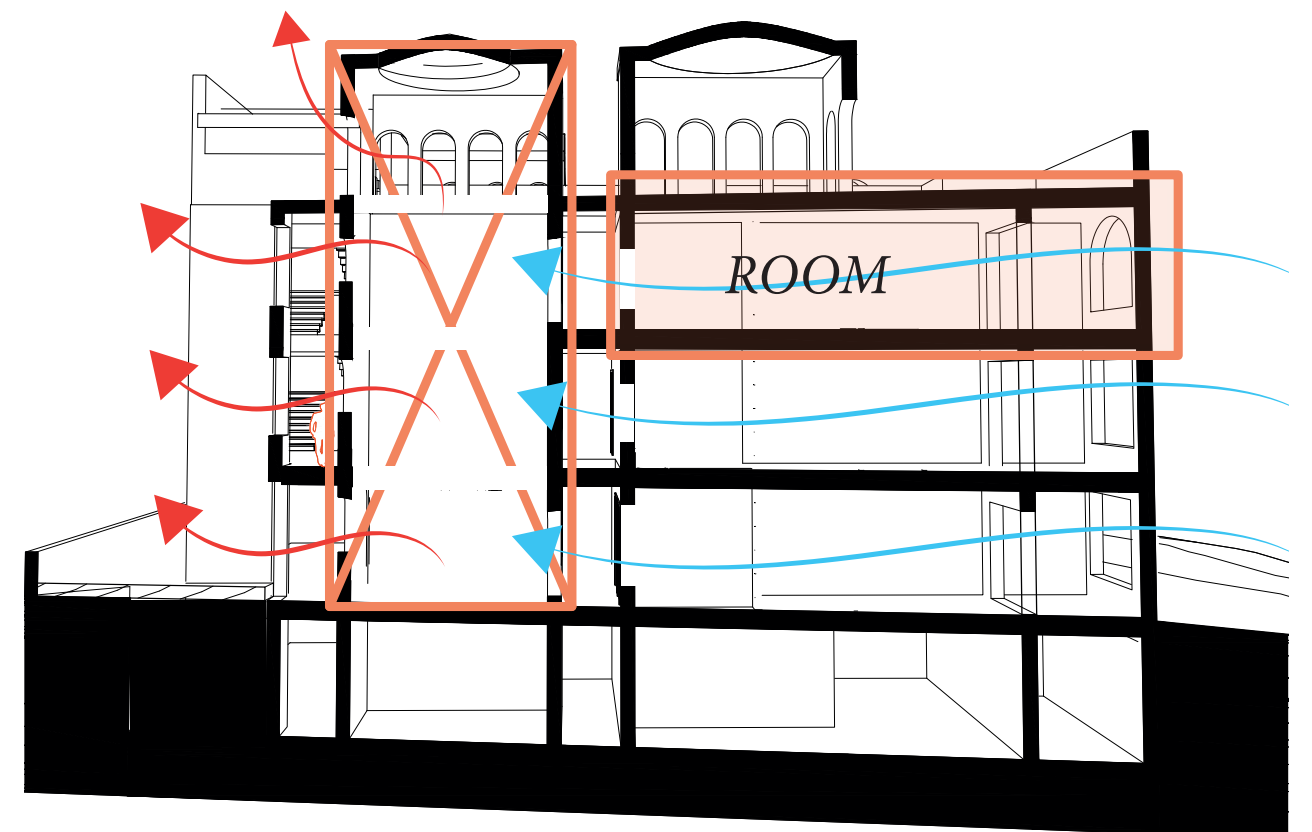
SECTION



VOID

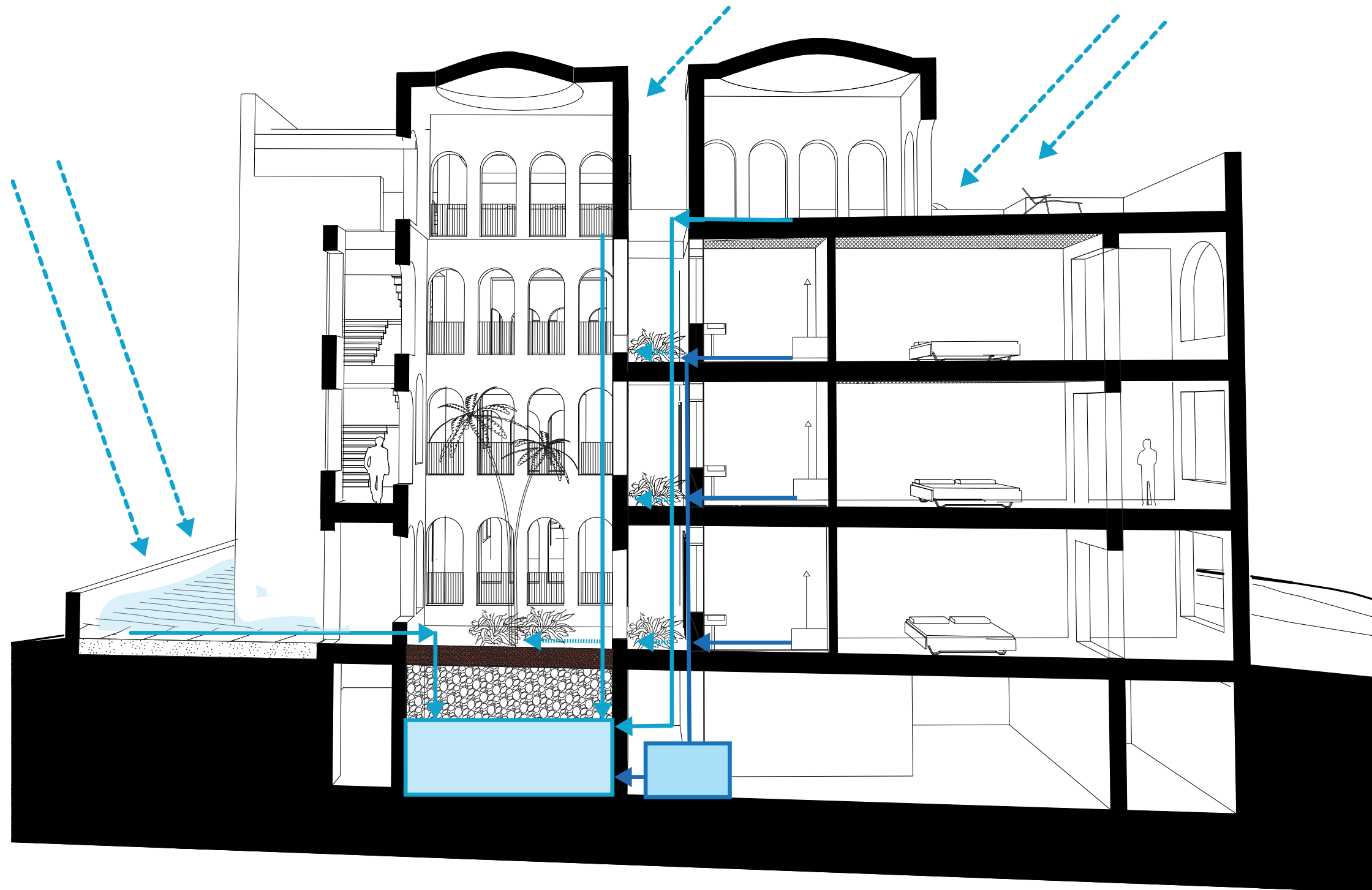


Existing: deep apartments



Removing floor

SECTION



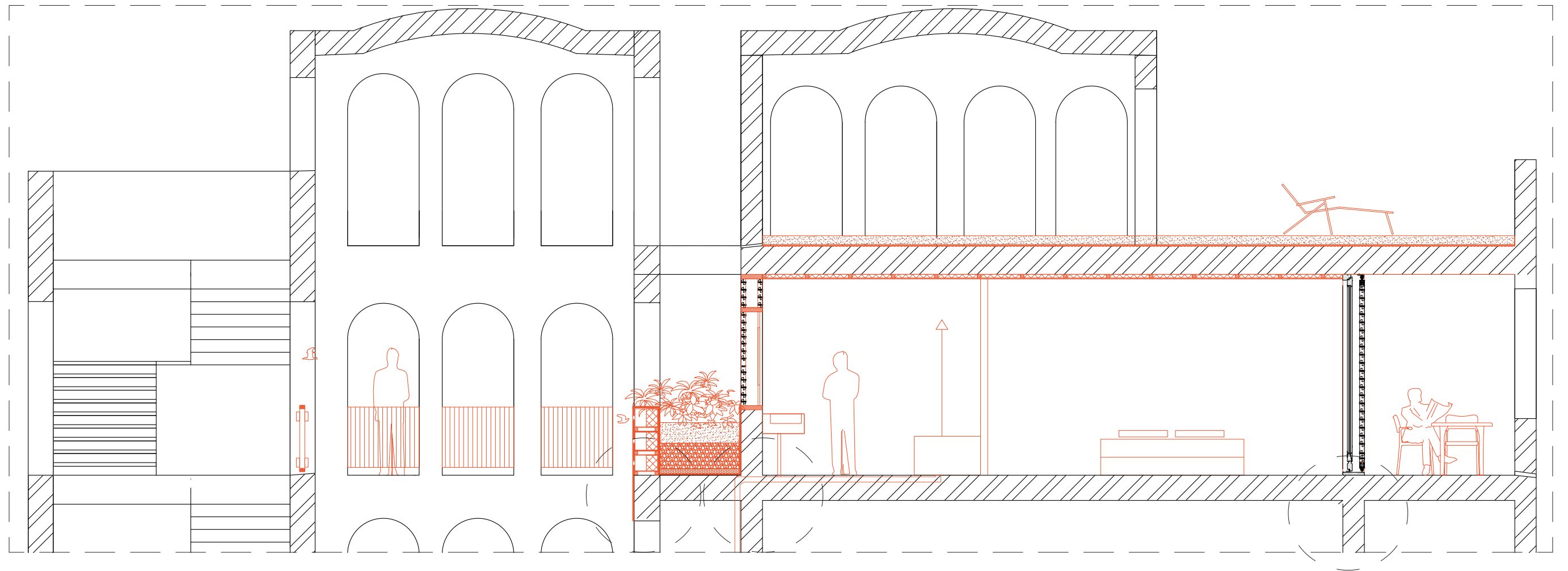
TO THE ROOM



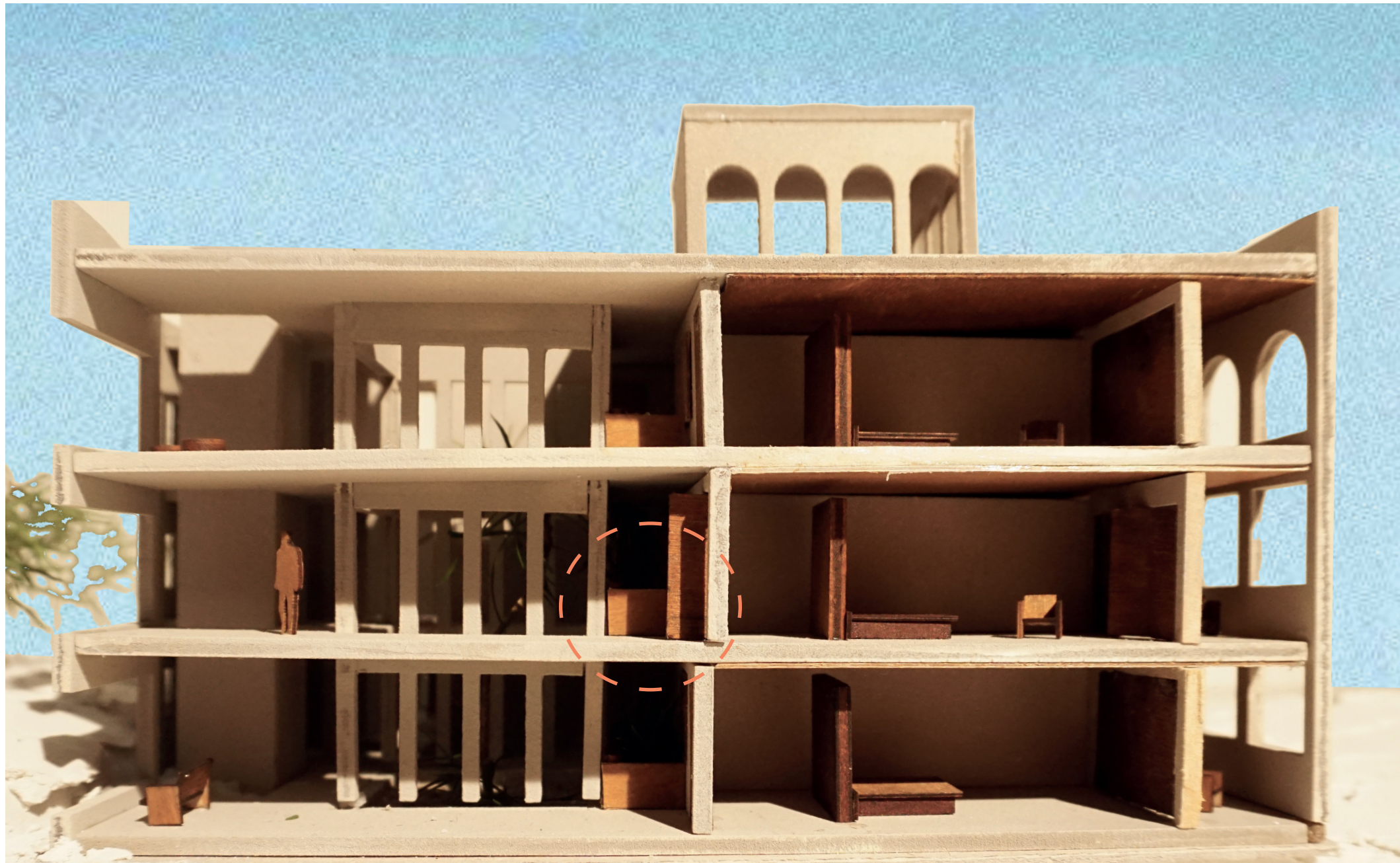
TO THE ROOM



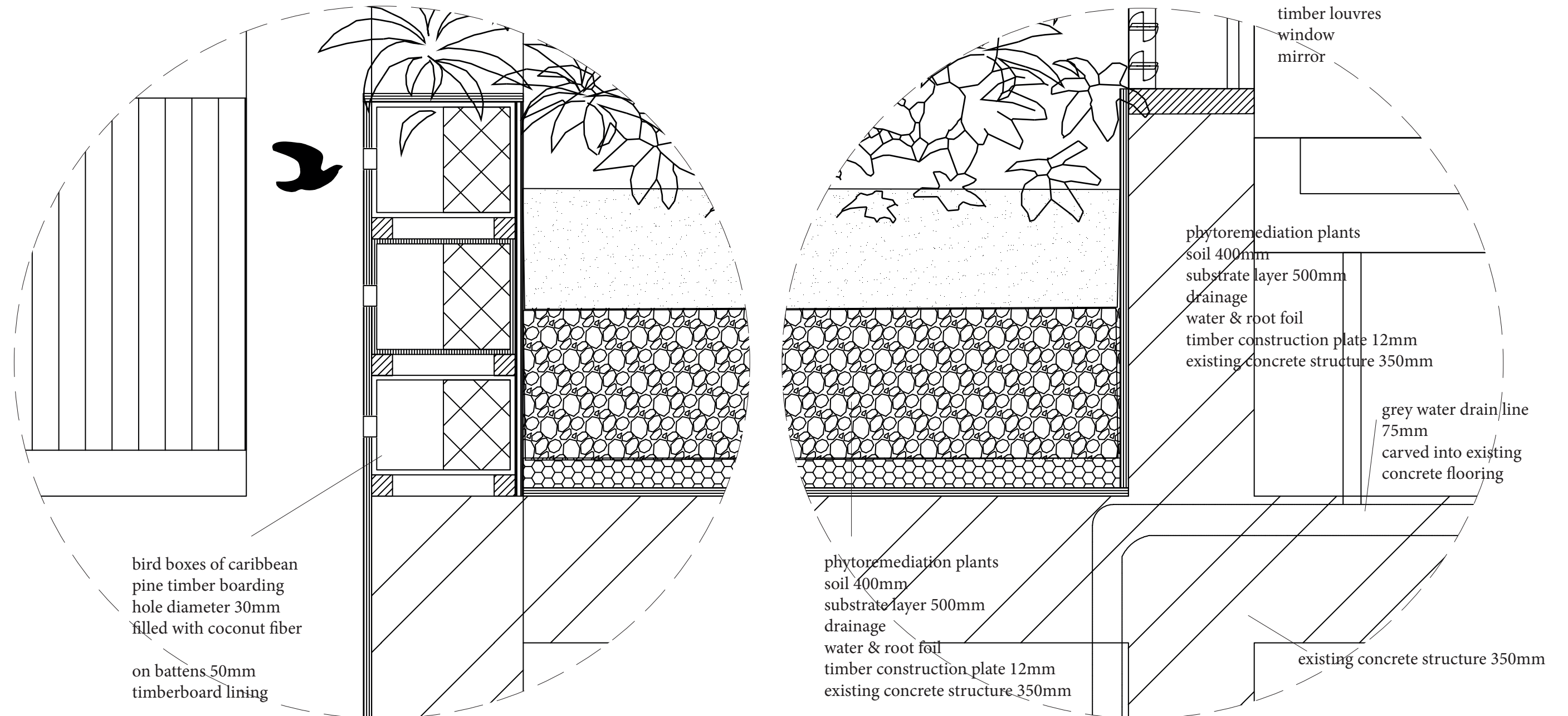
SECTION



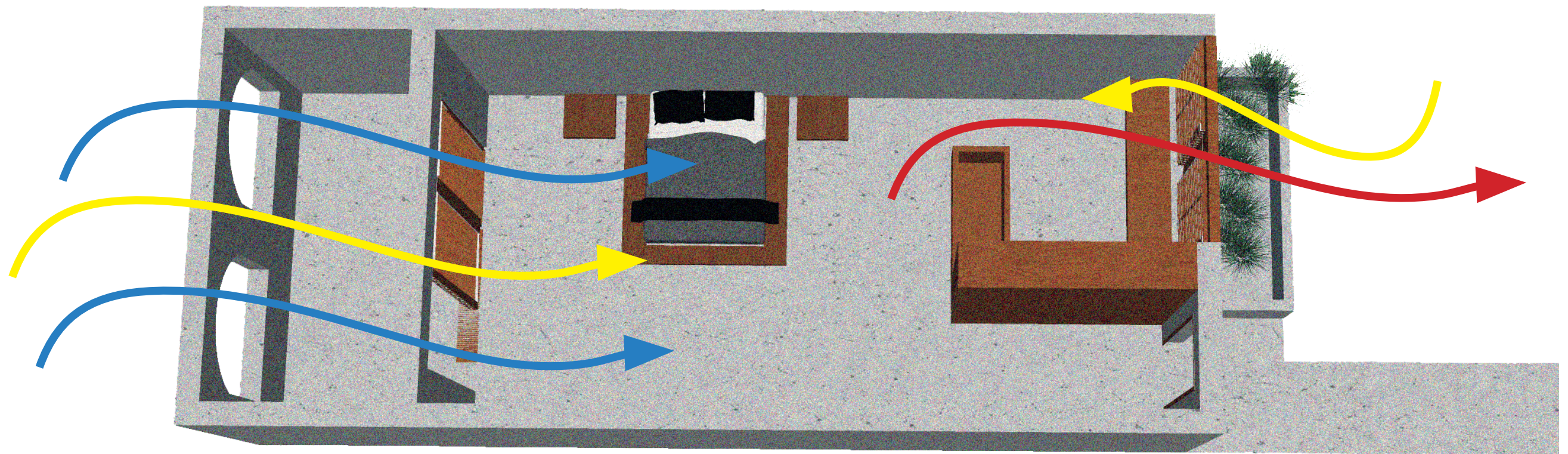
SECTION



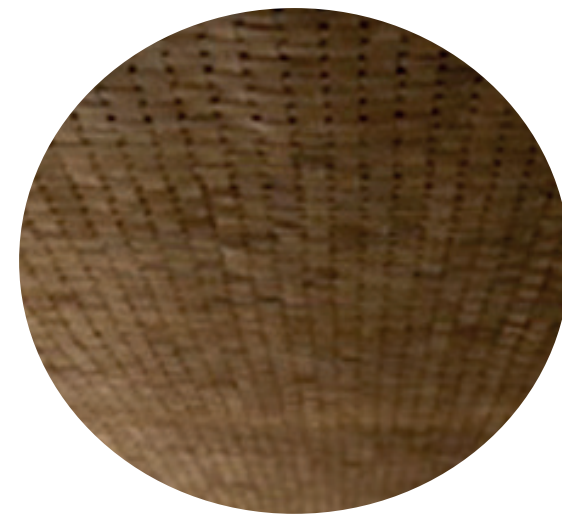
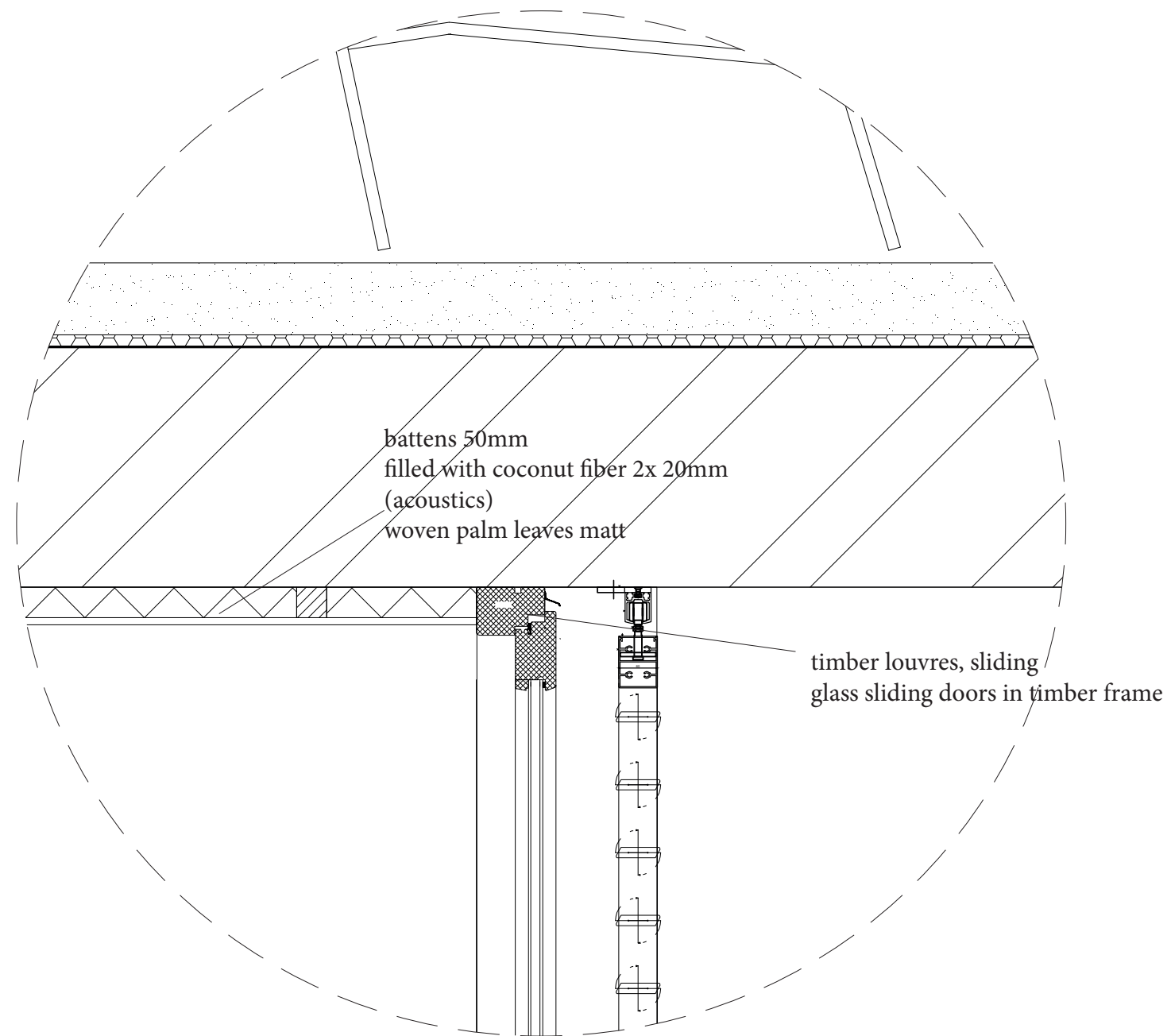
DETAIL



ROOM CONCEPT



DETAIL



LIFE CYCLE

Urban and design strategy









REFLECTION



Thank you