

A young child with dark skin and hair, wearing a red and black plaid shirt, is sitting in front of a green wall. The child is looking slightly to the right. Overlaid on the image are several white concentric circles and dots, creating a ripple effect that emanates from the child's face. The child is sitting on a red-painted concrete surface.

BEYOND THE RIPPLE

A holistic approach to flood-resilient, trauma-healing, and low-cost housing design



14000

Children drown annually in Bangladesh

68000

Children annually experience near drowning

Natural disasters can cause chronic stress, PTSD &

TRAUMA

Trauma in this form is a collective problem & is in need of

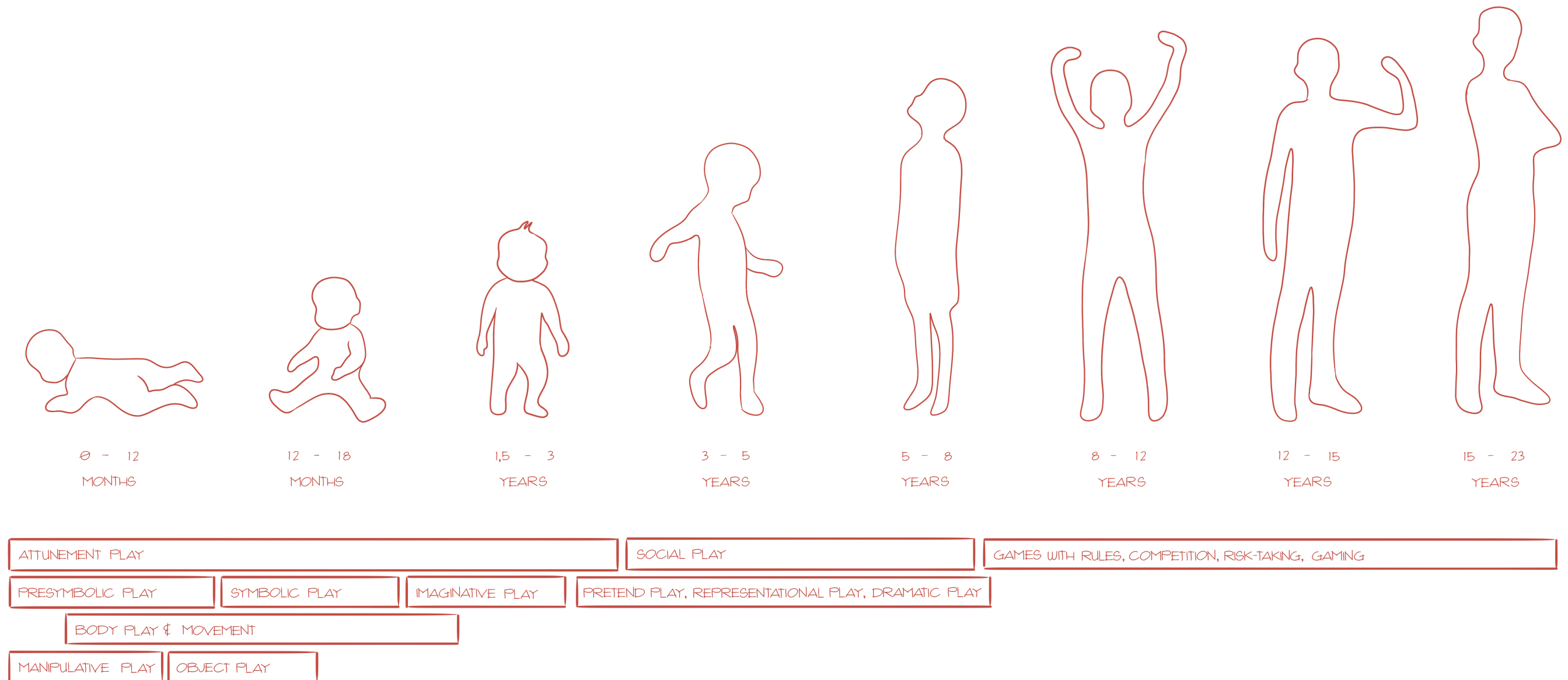
COMMUNITY-BASED SOLUTIONS

PLAY

is a natural coping mechanism for trauma
& helps regulate memories and feelings

PLAY

“a volitional act within certain limits of space and time, according to voluntarily accepted but compelling rules, being a goal in itself, accompanied by feelings of excitement and joy, different from everyday life.” - Johan Huizinga

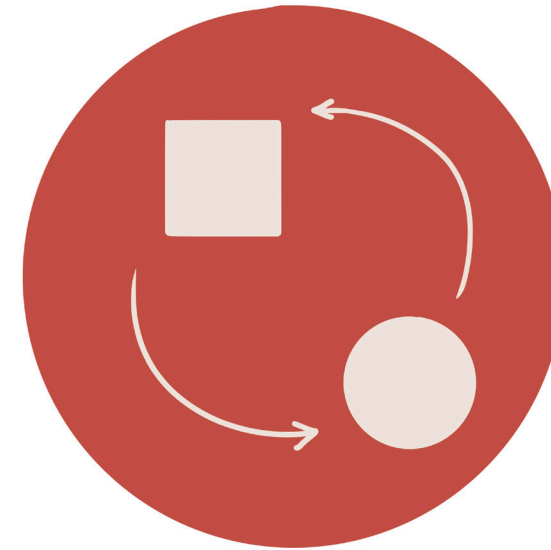




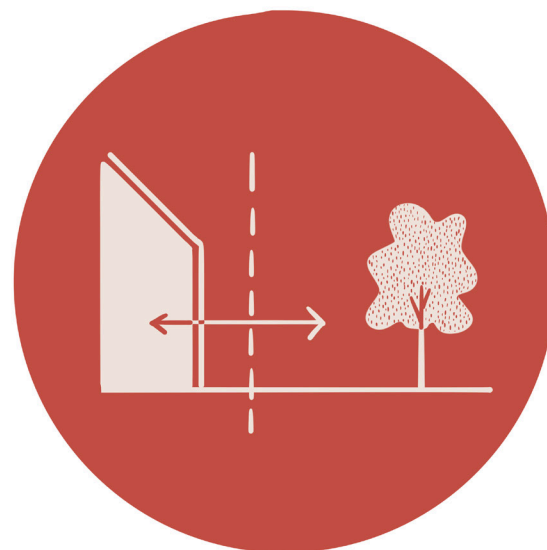
Nature



Imagination



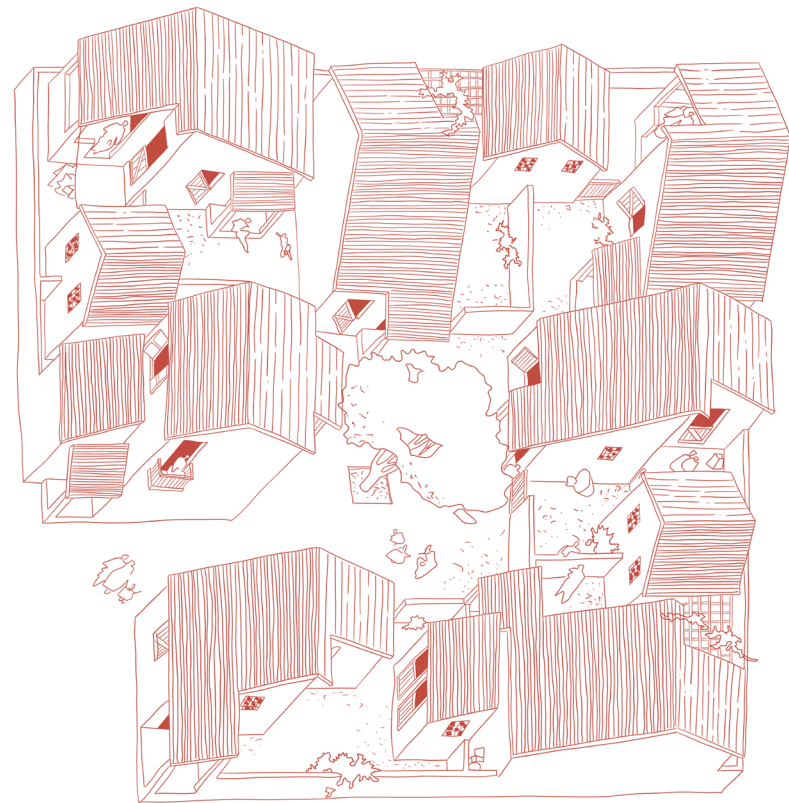
Transform /
be transformed



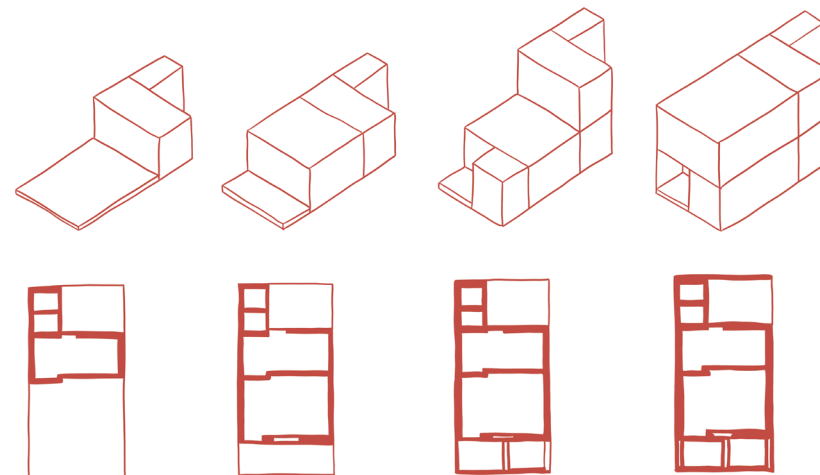
Border inside
& outside



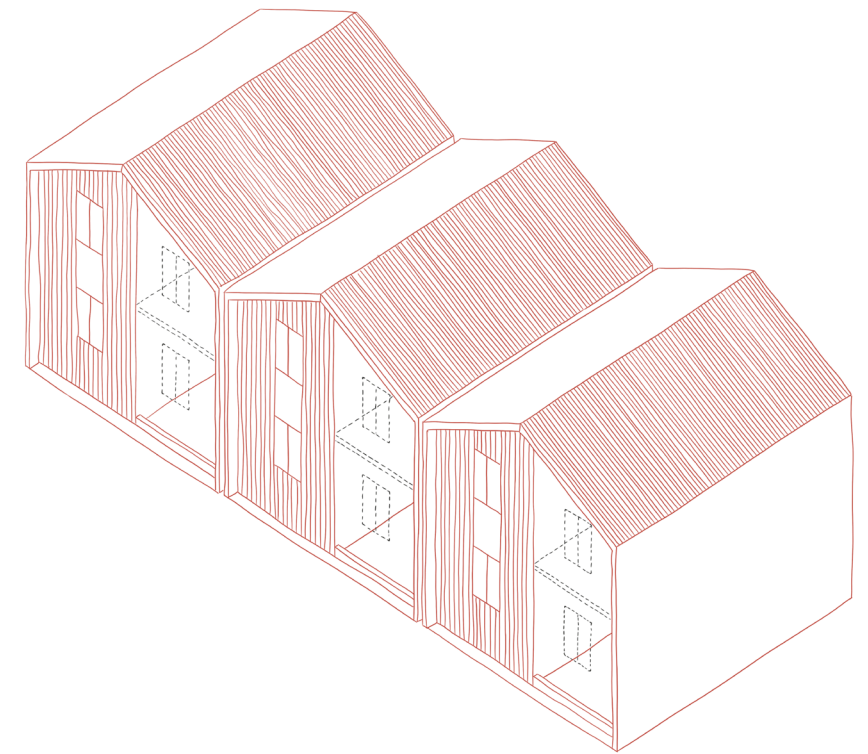
Variation in
space



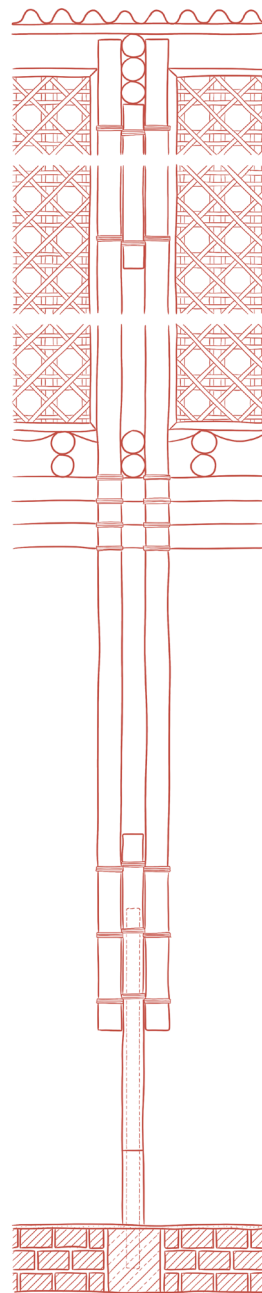
Belapur



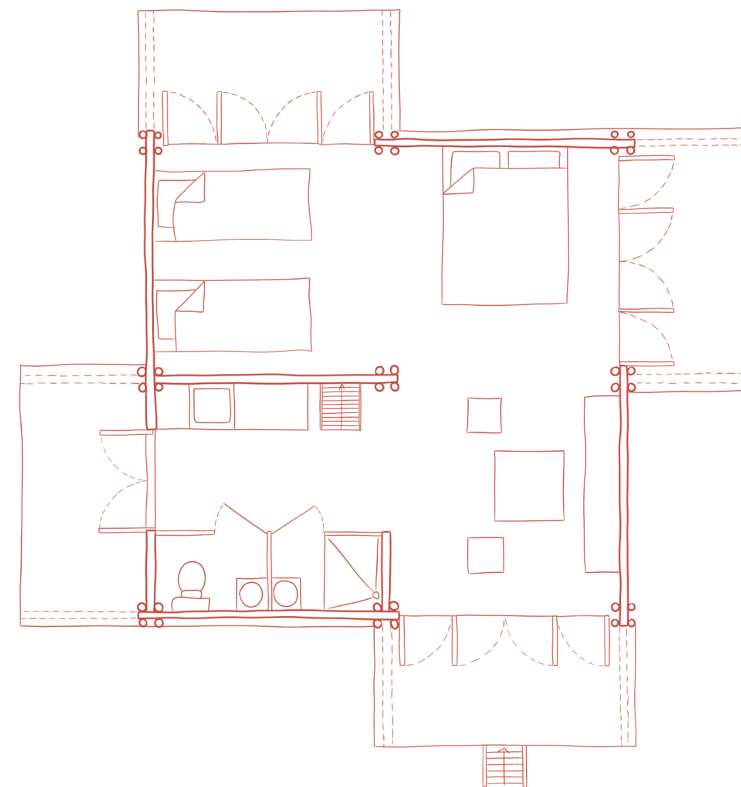
aranya



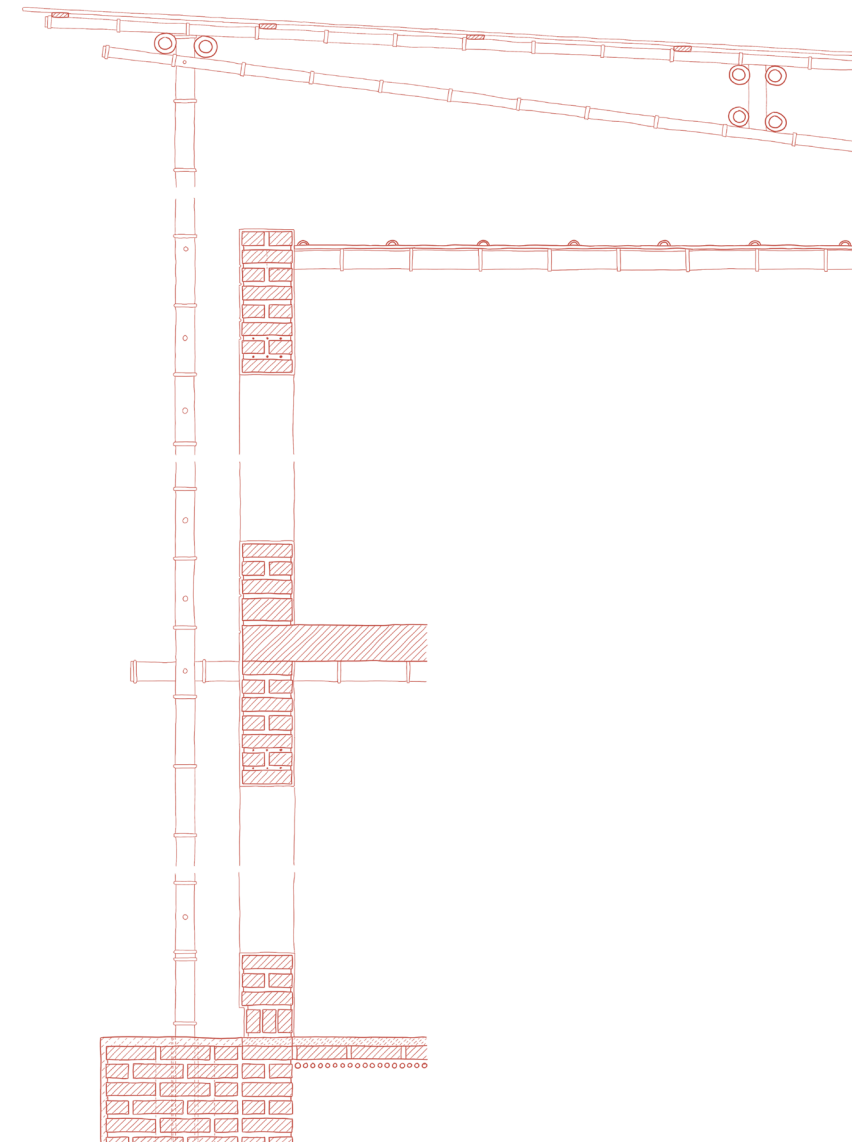
villa verde



Vocational
school



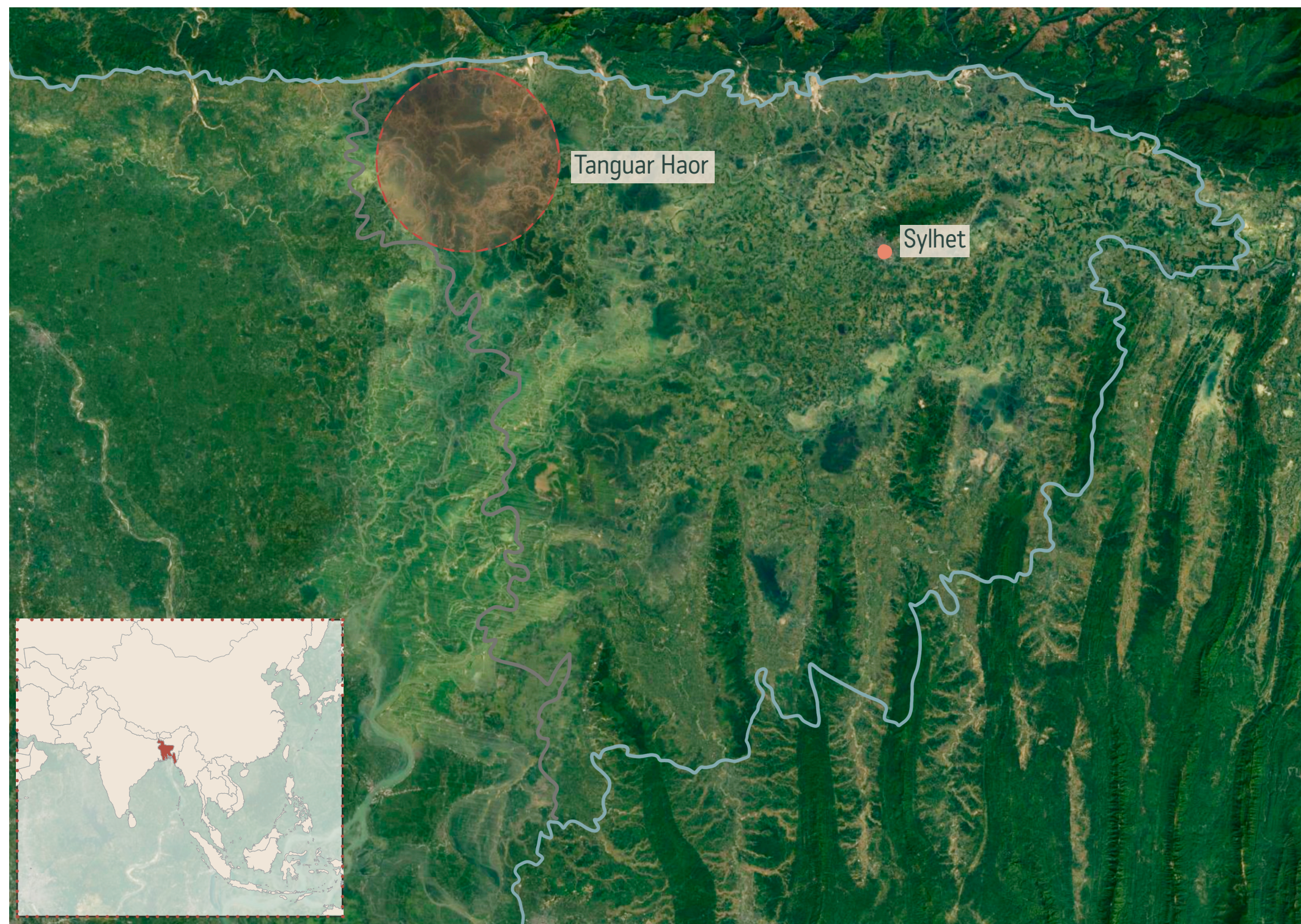
Blooming
bamboo



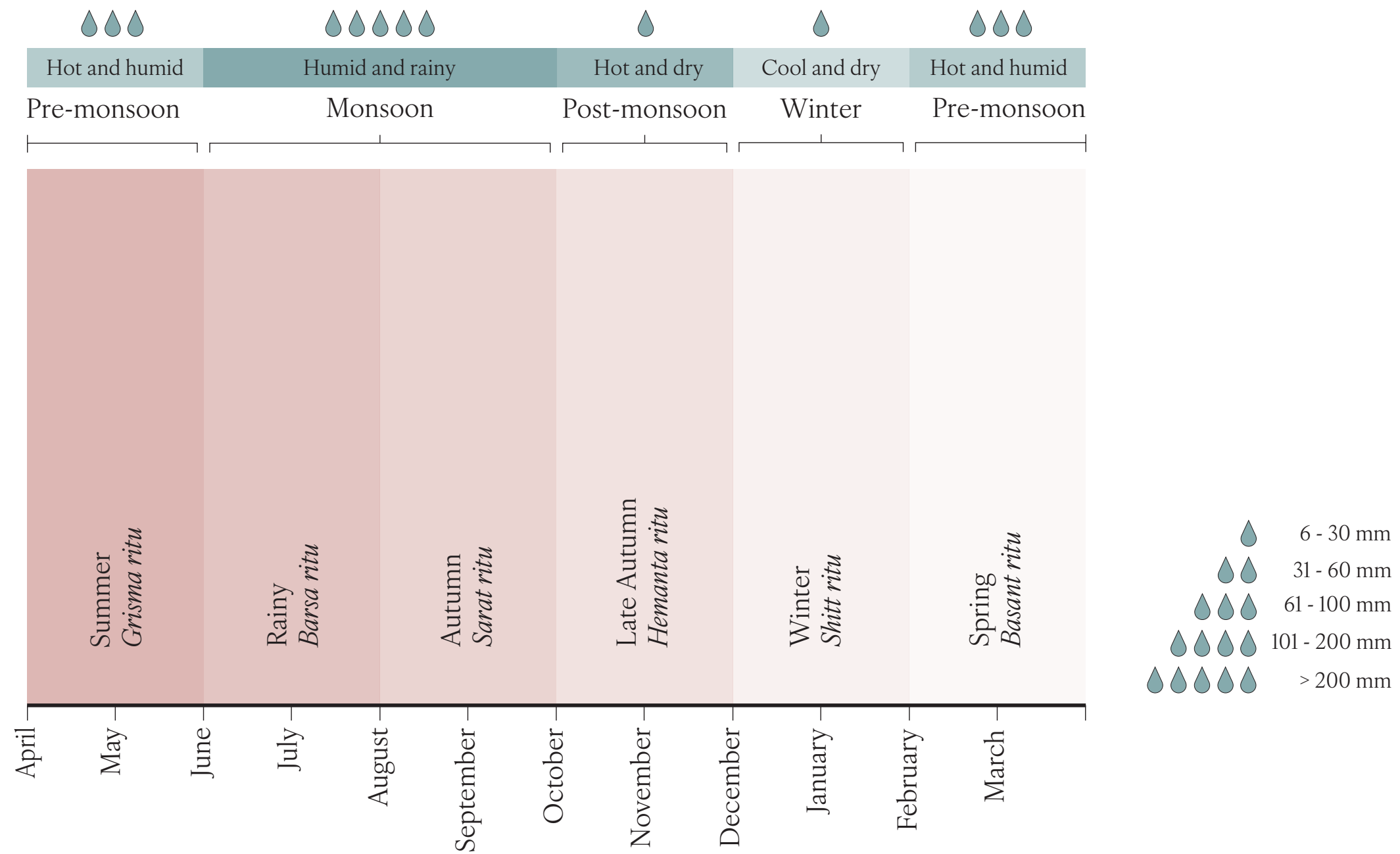
Community
center

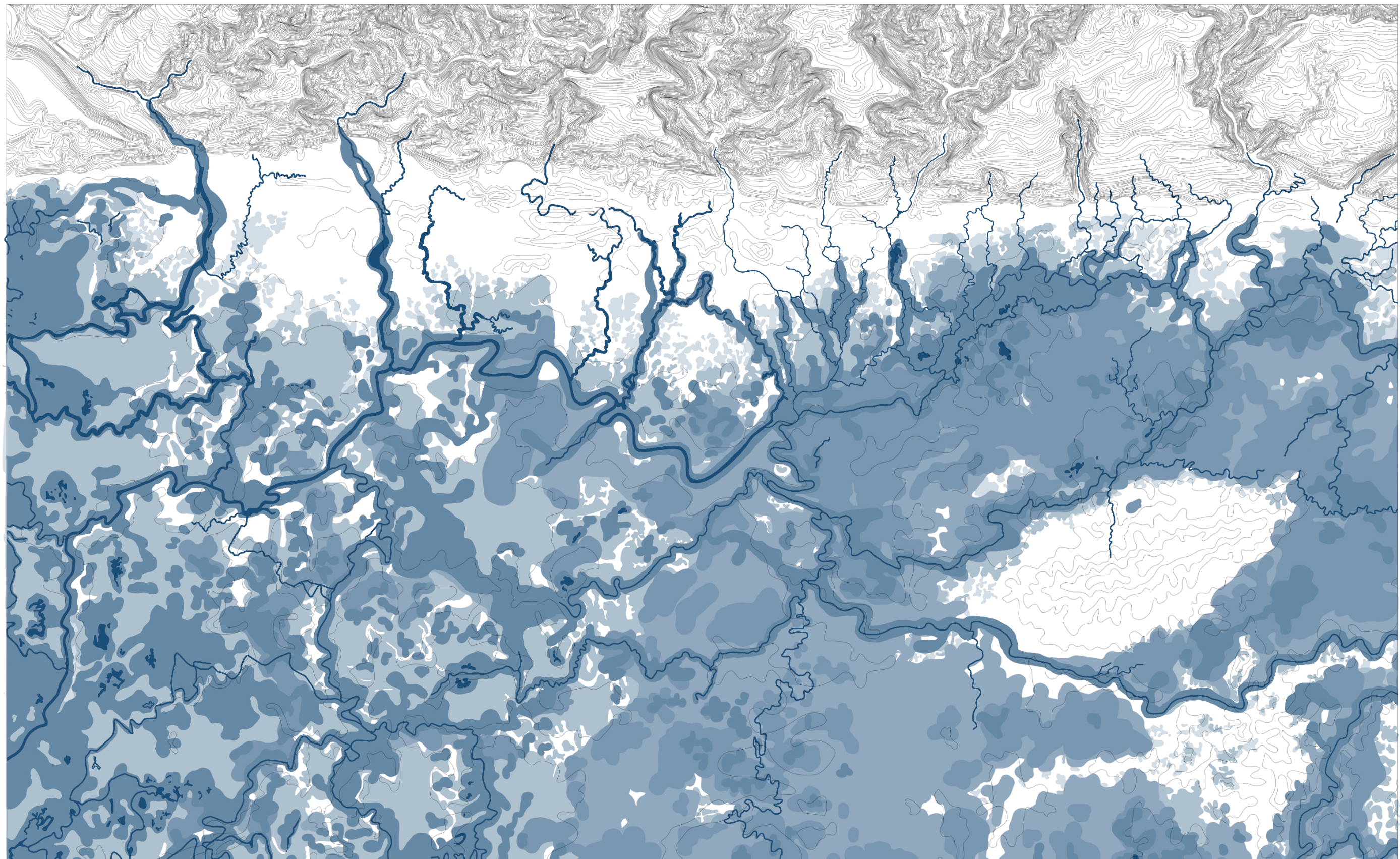


TANGUAR HAOR



TANGUAR HAOR
LOCATION

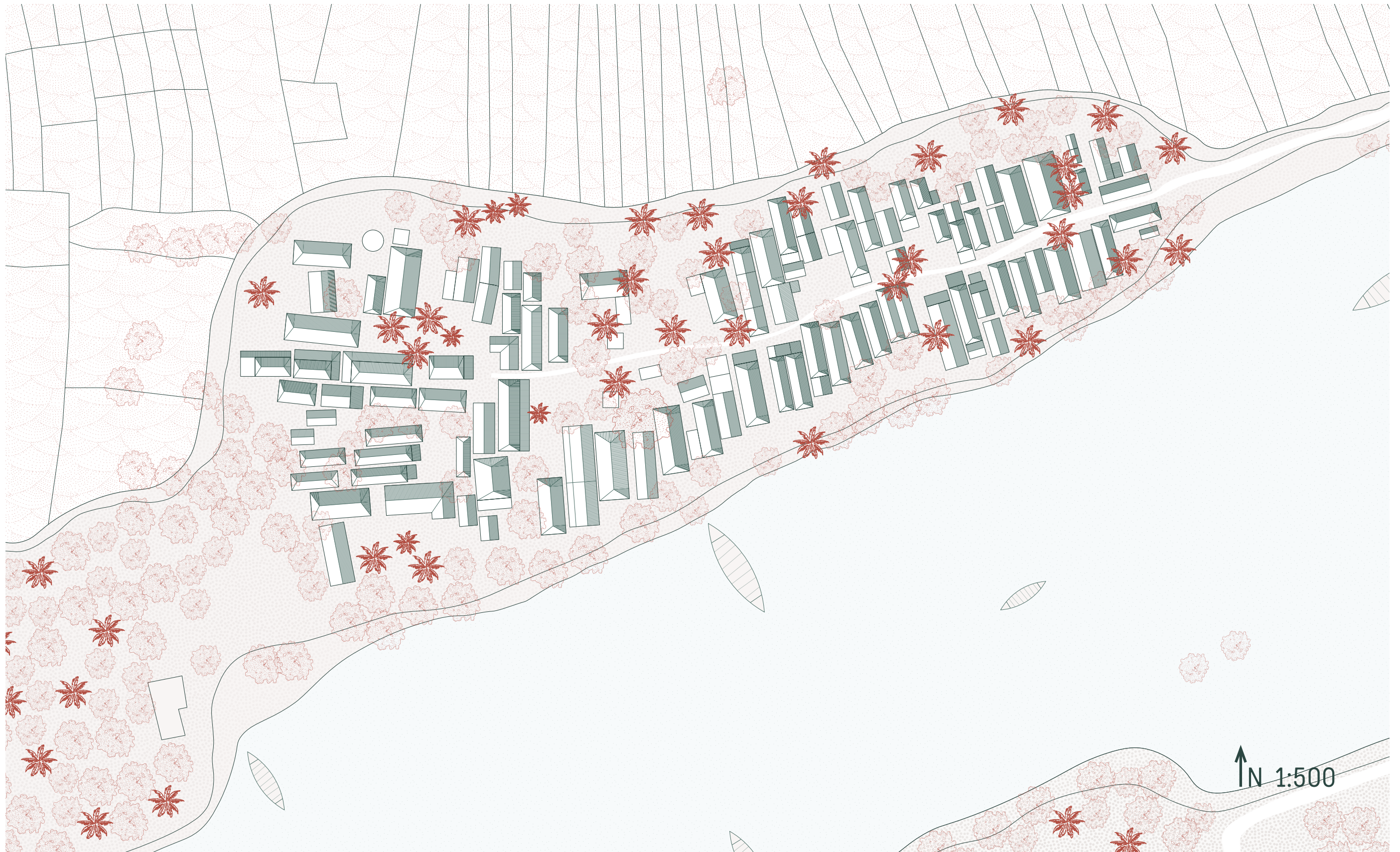




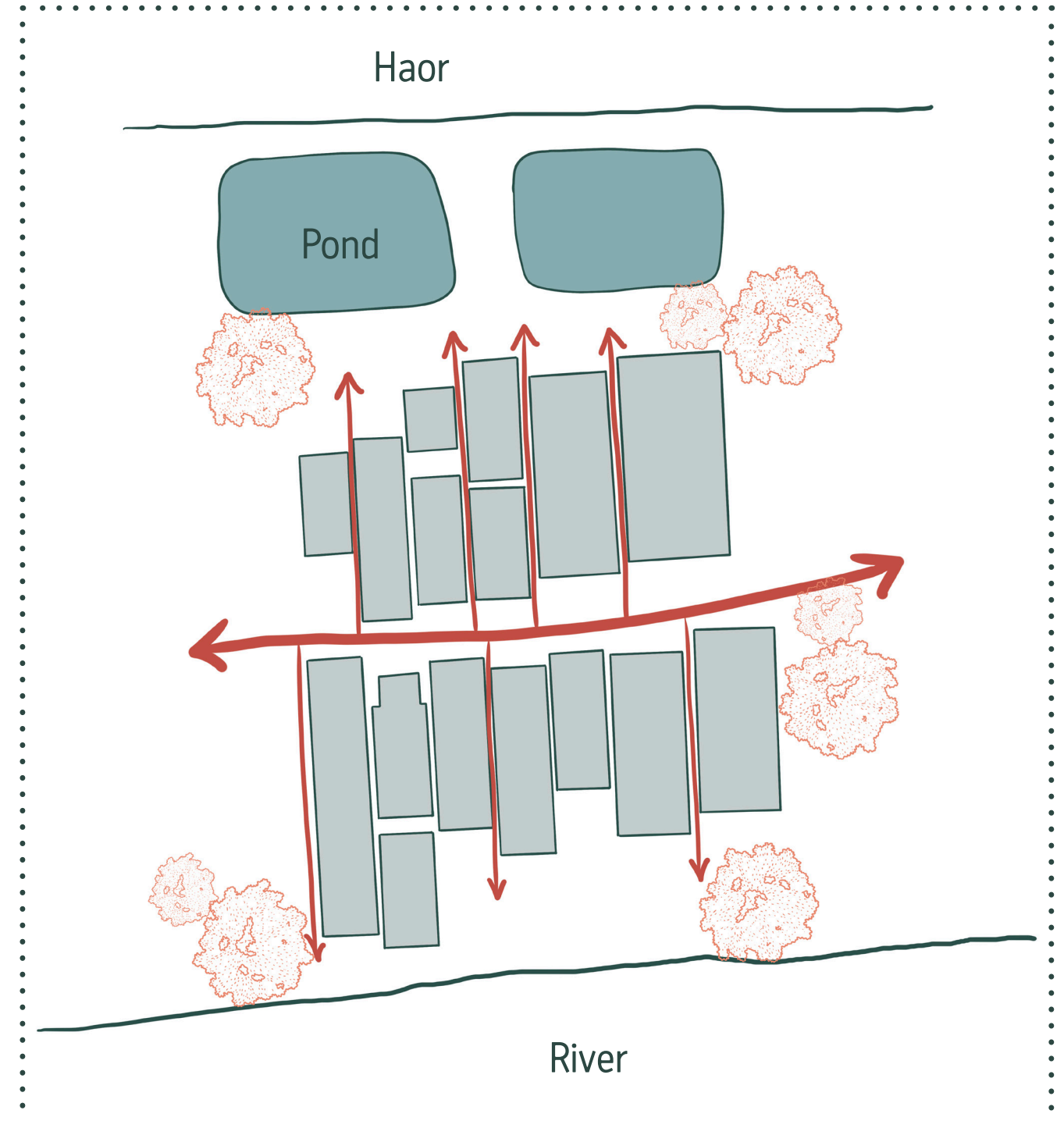
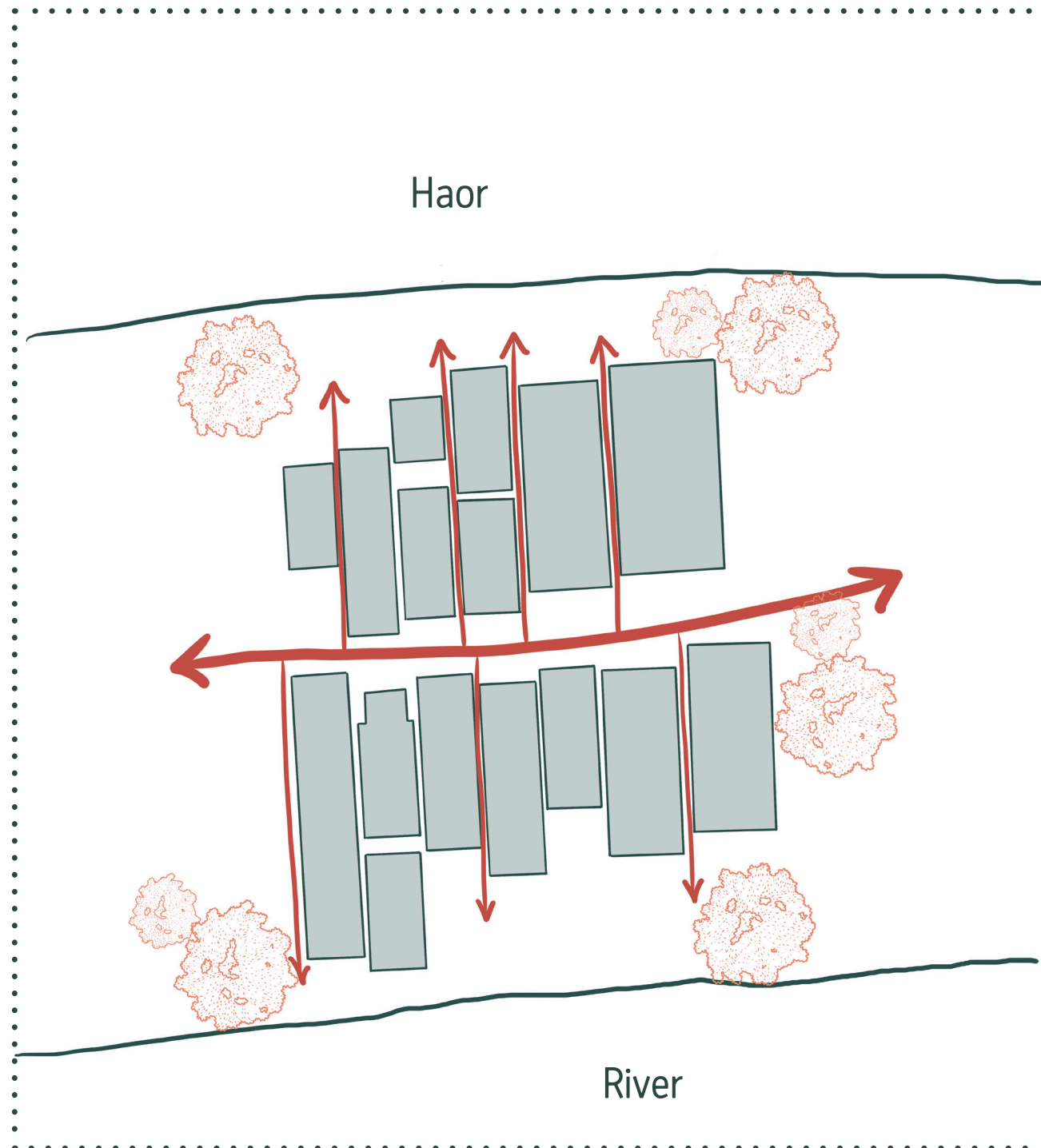
TANGUAR HAOR
FLOODING IN THE HAOR



TANGUAR HAOR
CHILDREN & FLOODS

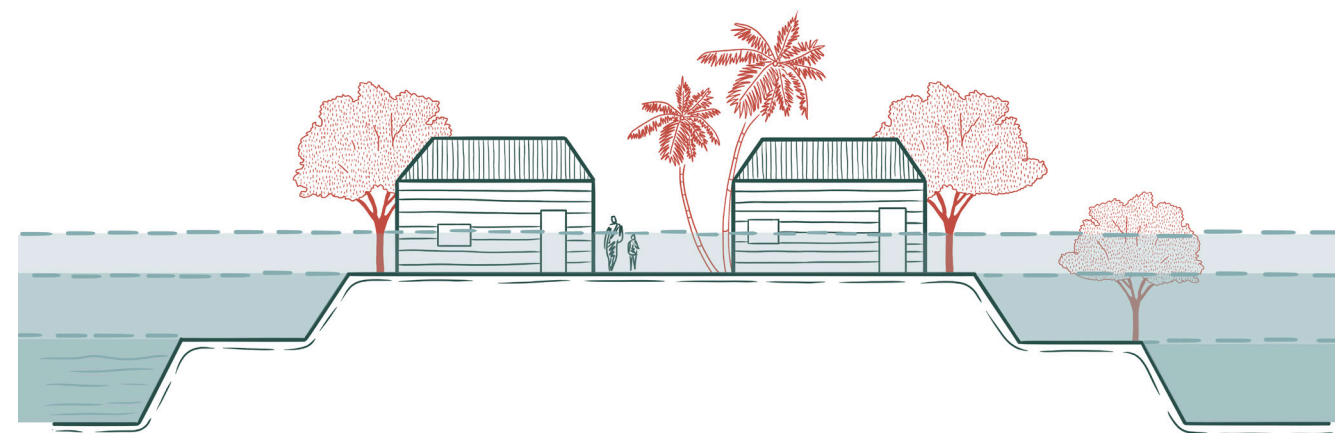
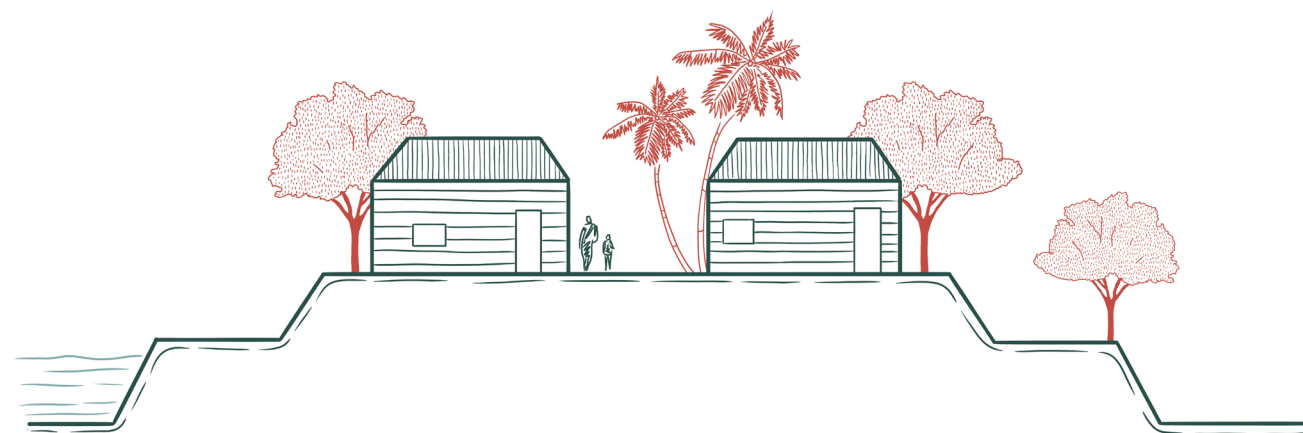


TANGUAR HAOR
EXISTING SITUATION

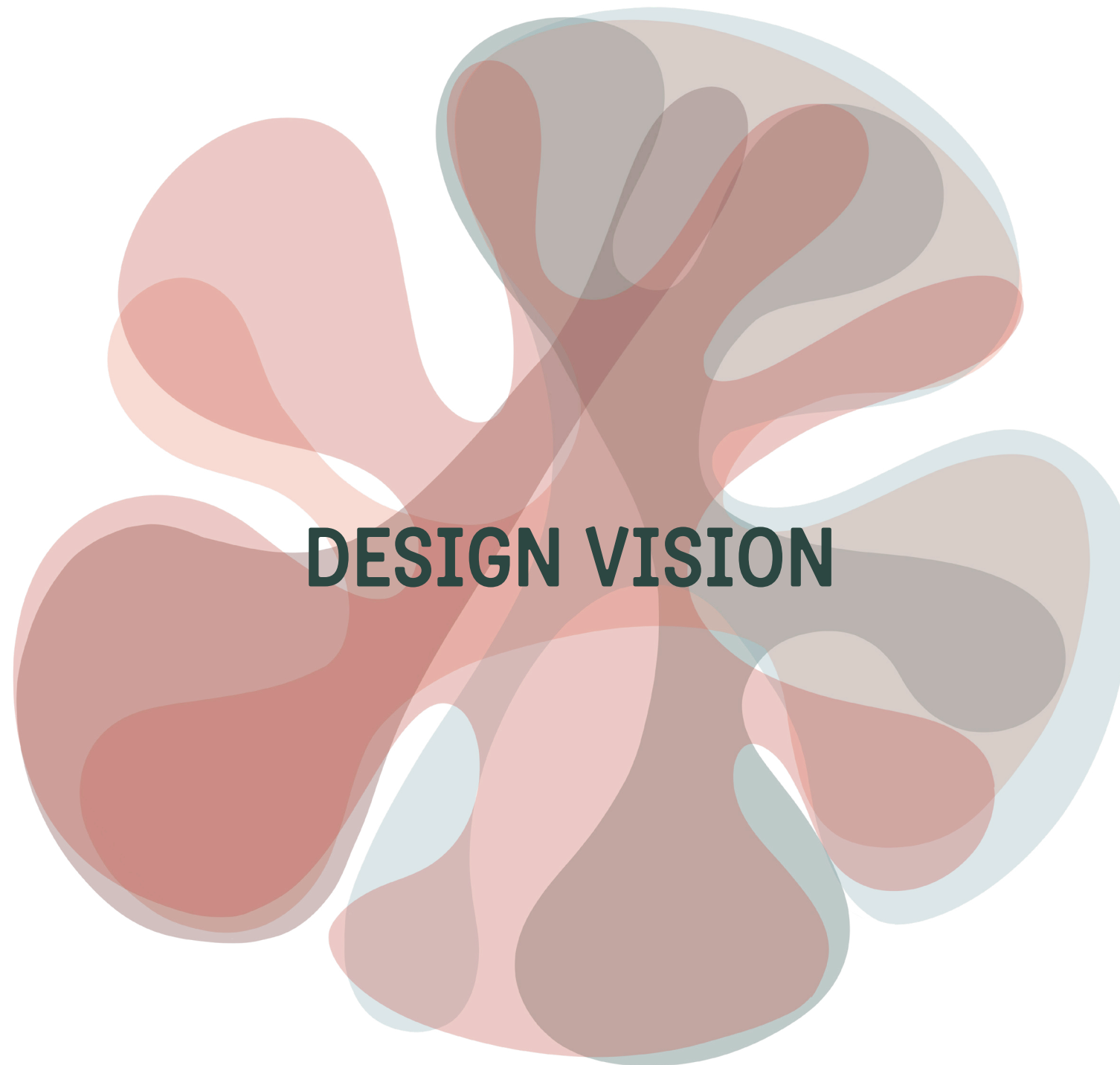




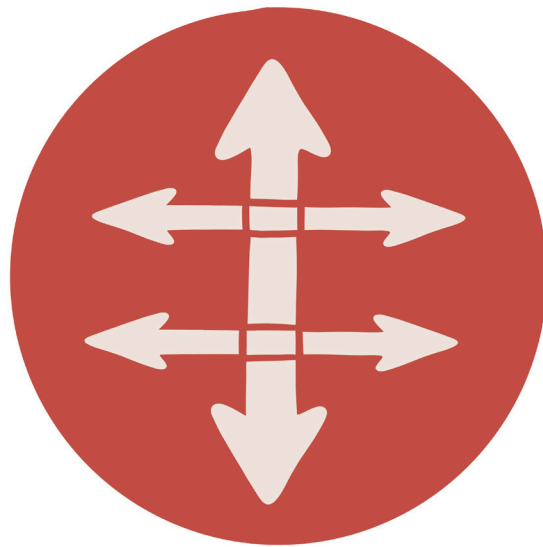
TANGUAR HAOR
SETTLEMENT PATTERNS



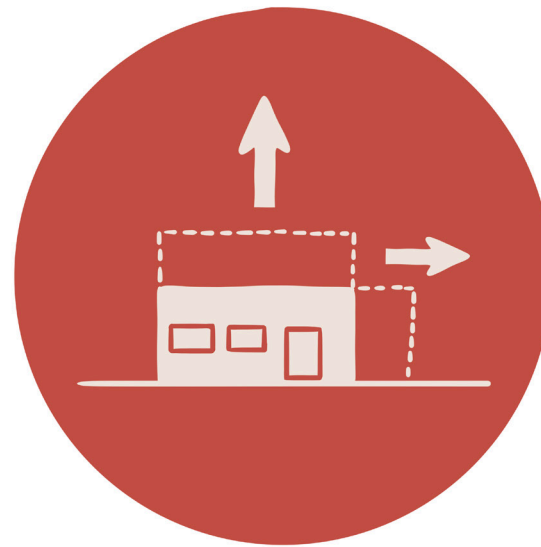




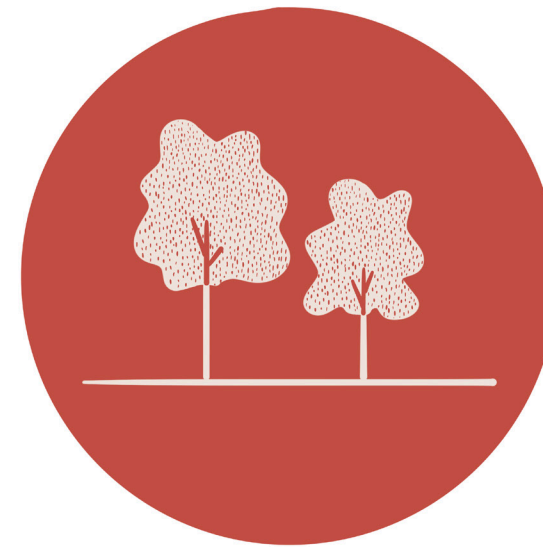
DESIGN VISION



Re-imagine
circulation



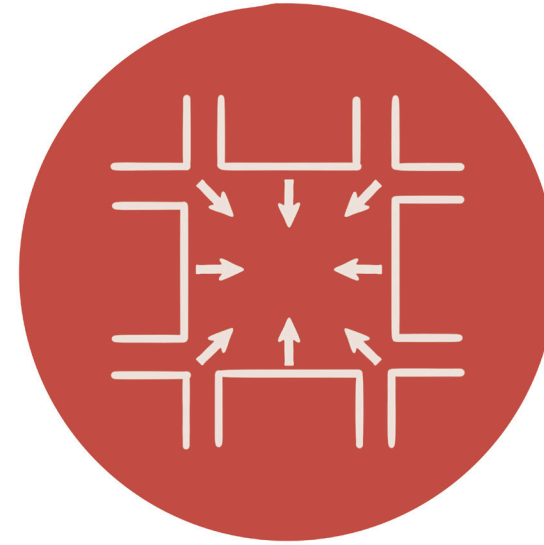
Incremental
growth



Re-imagine
open spaces



Basic elements



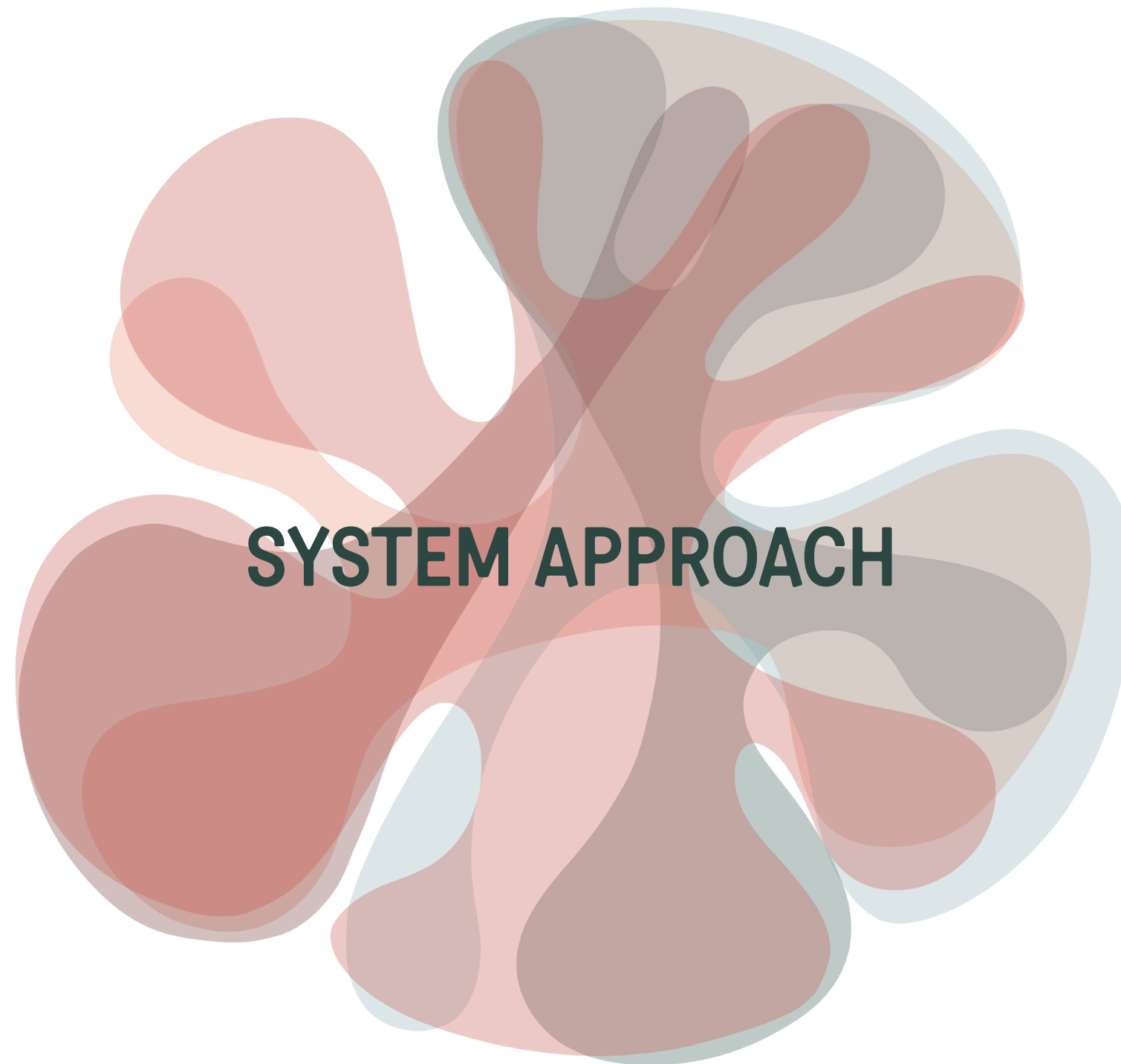
Courtyard



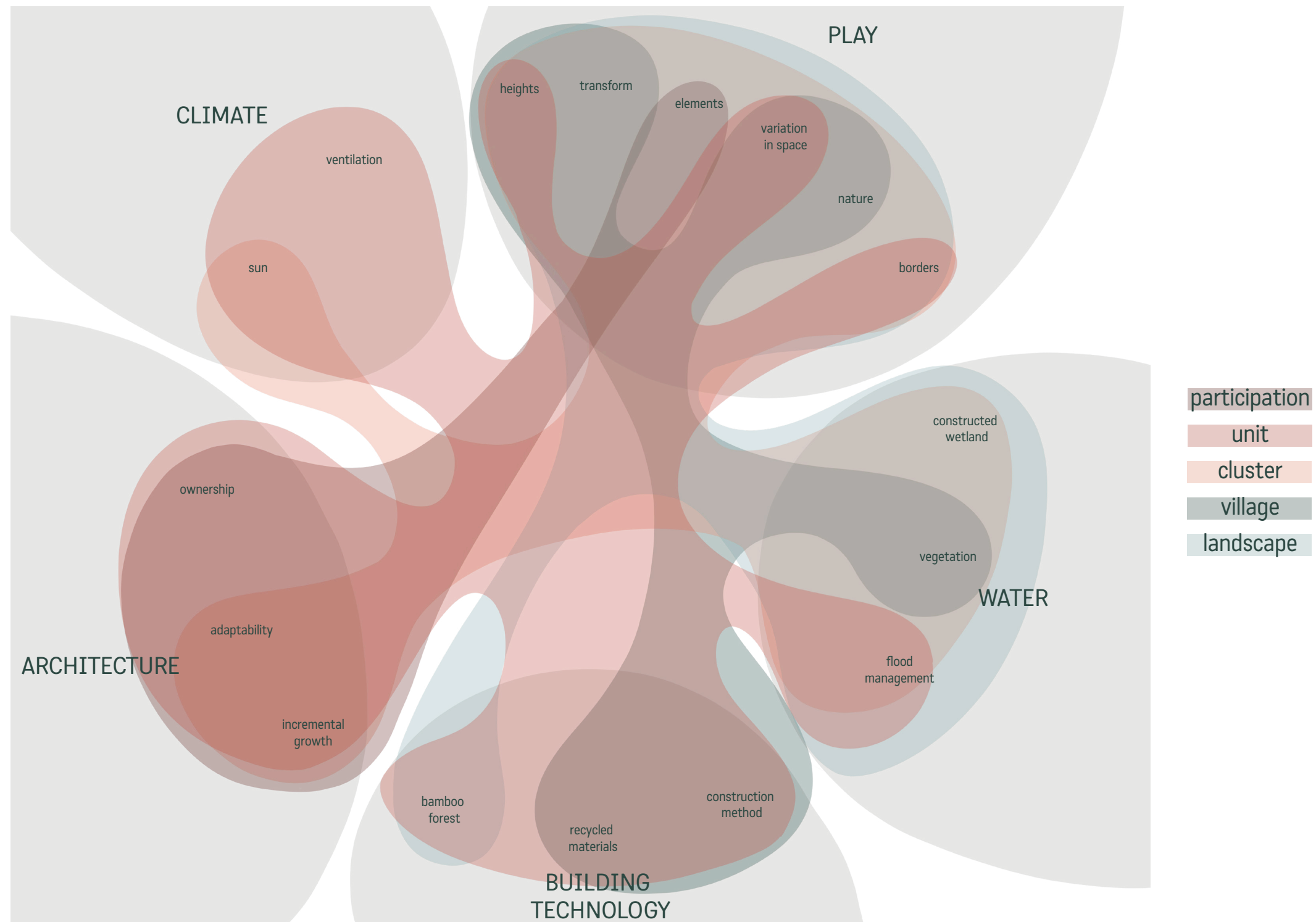
Connectivity
open spaces



Flood
protection

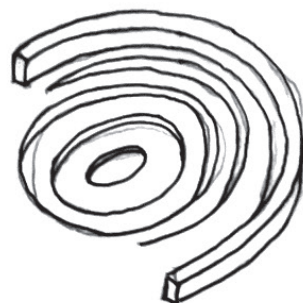
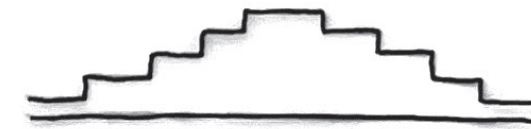
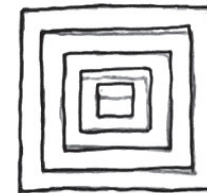
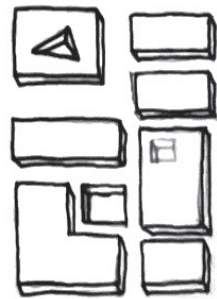
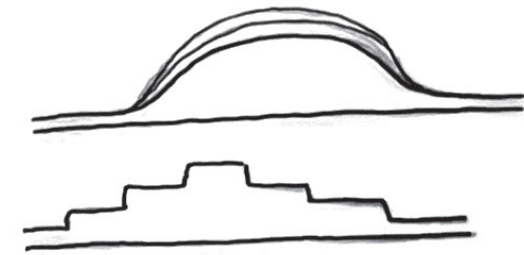
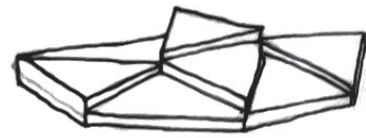


SYSTEM APPROACH



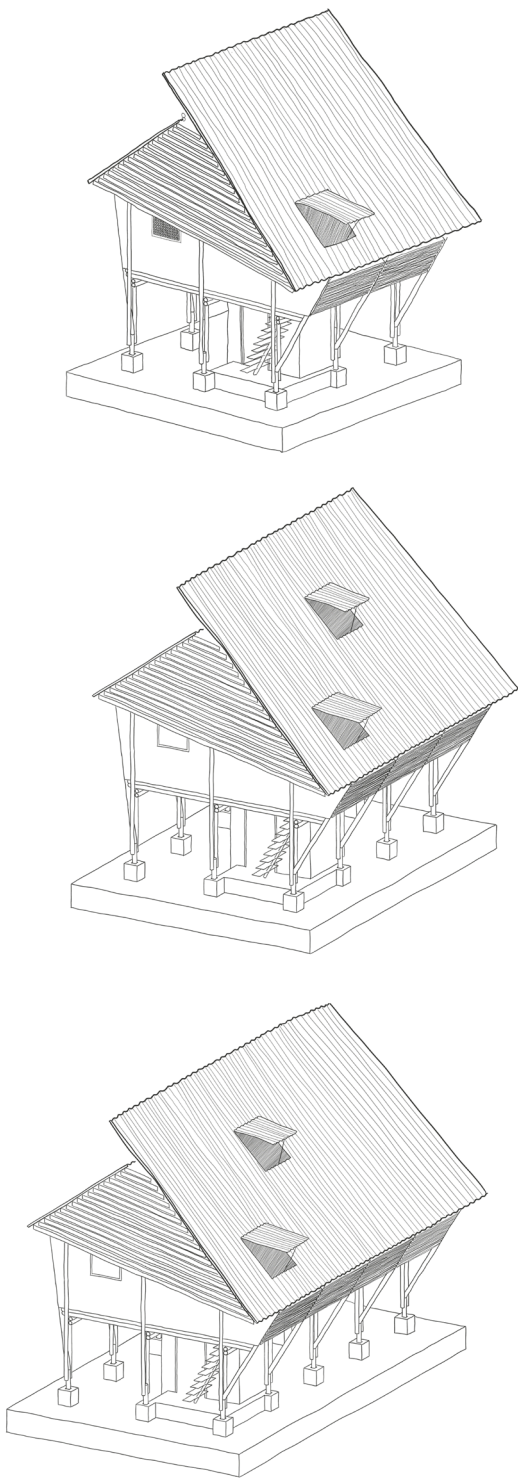


PARTICIPATION STRATEGY

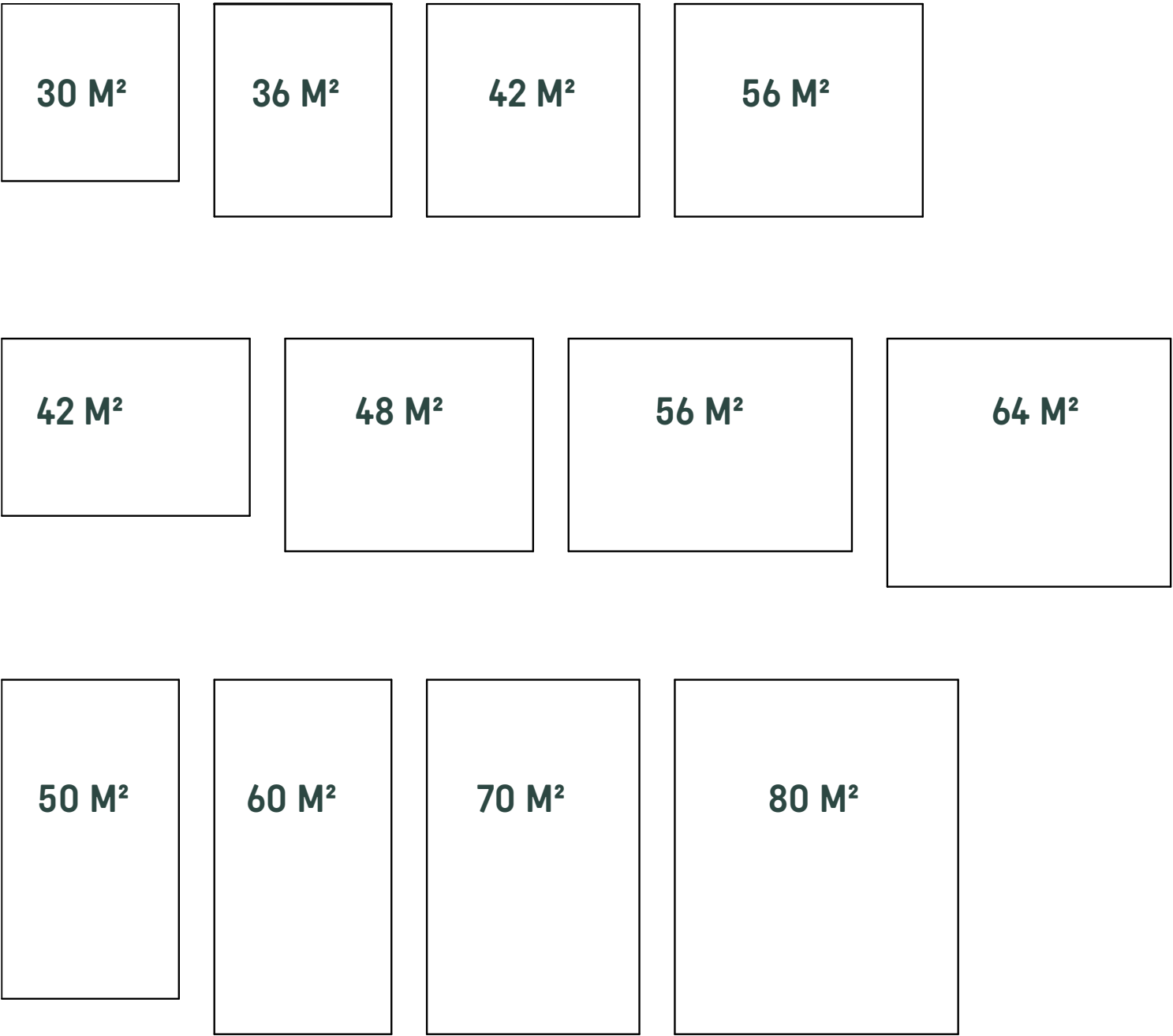




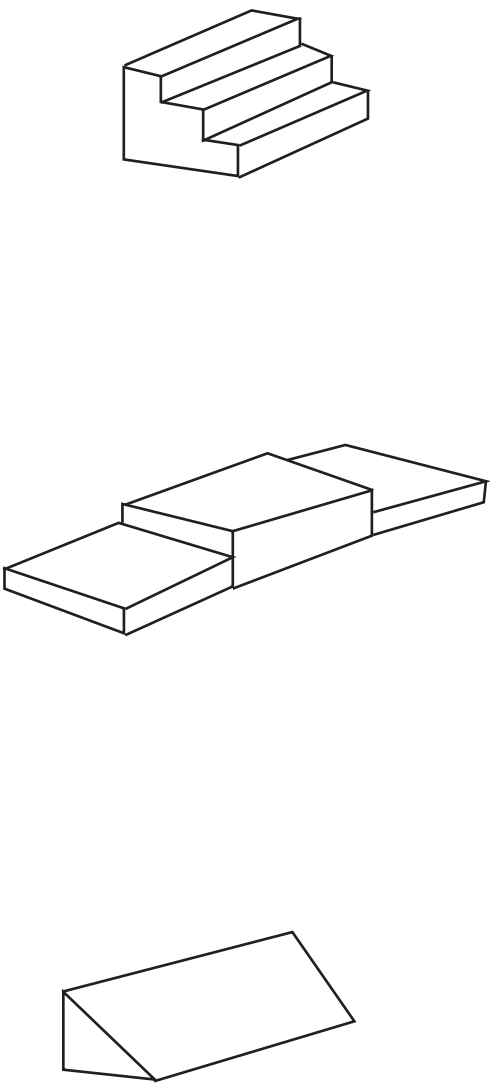
STEP 01



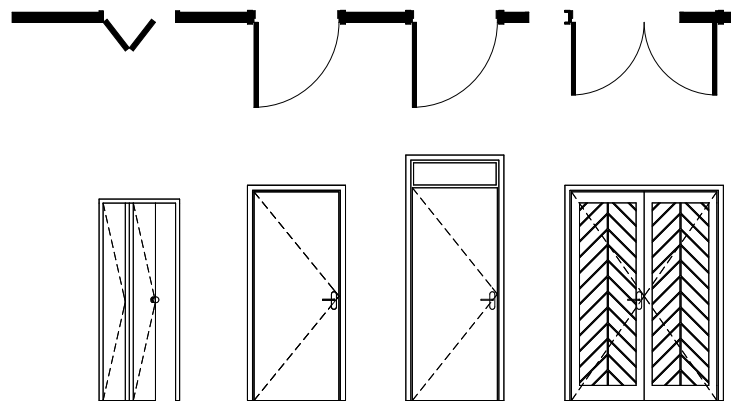
STEP 02



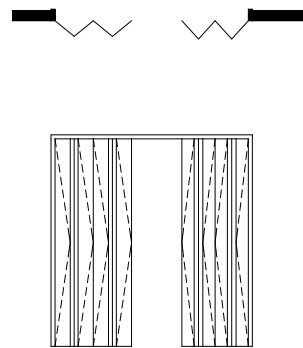
STEP 03



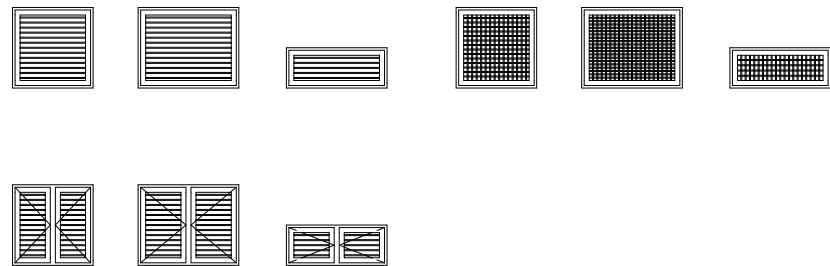
DOORS



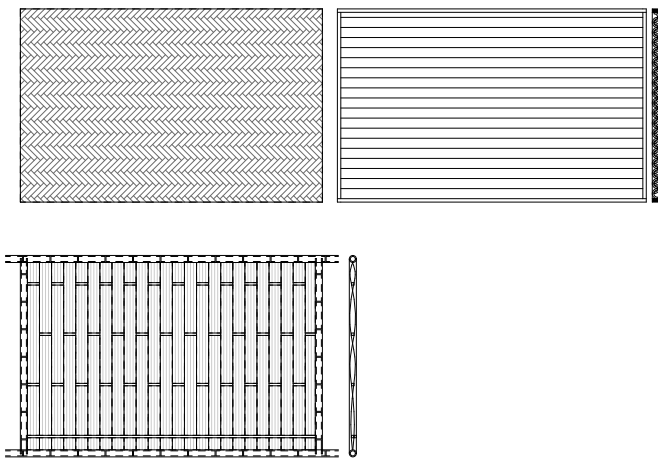
inner walls

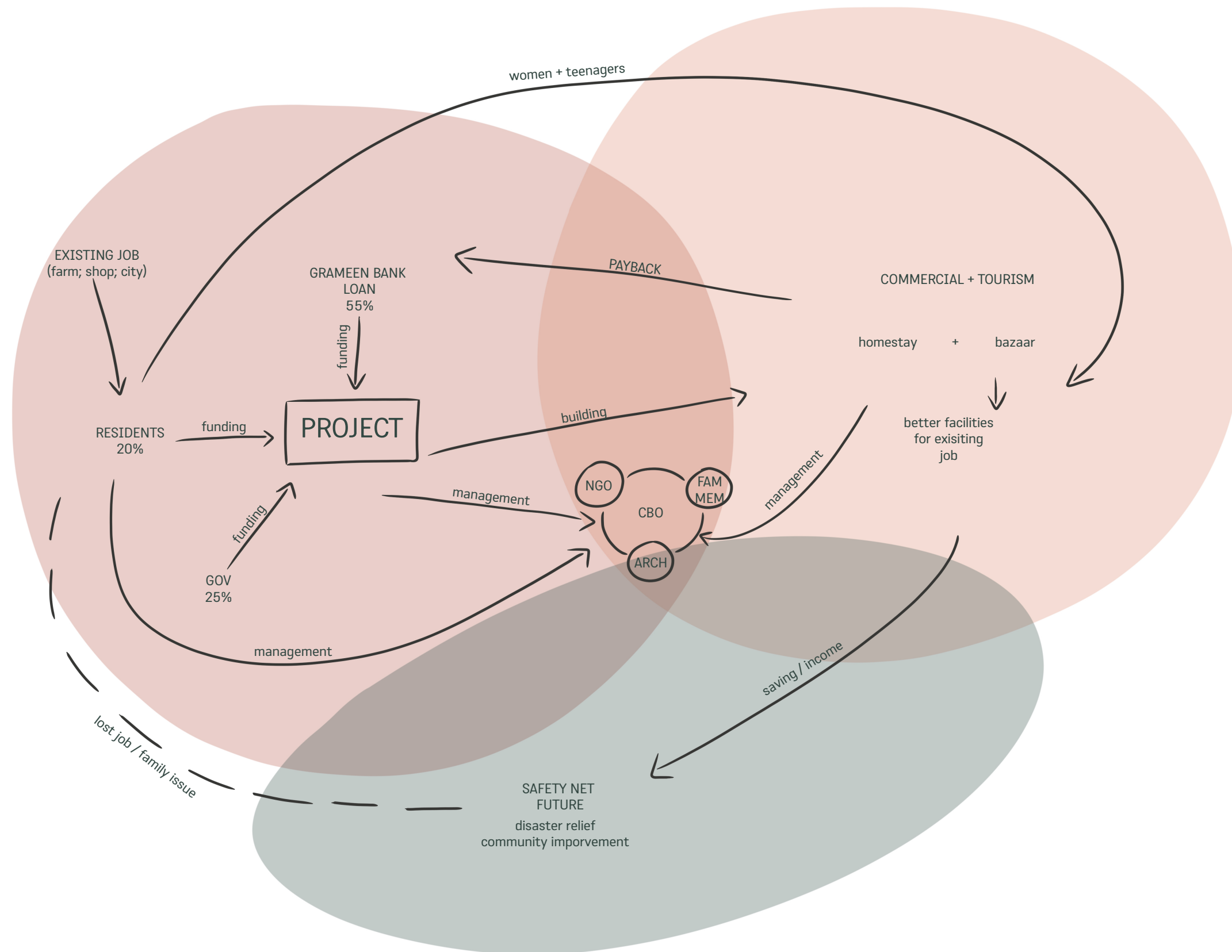


openings



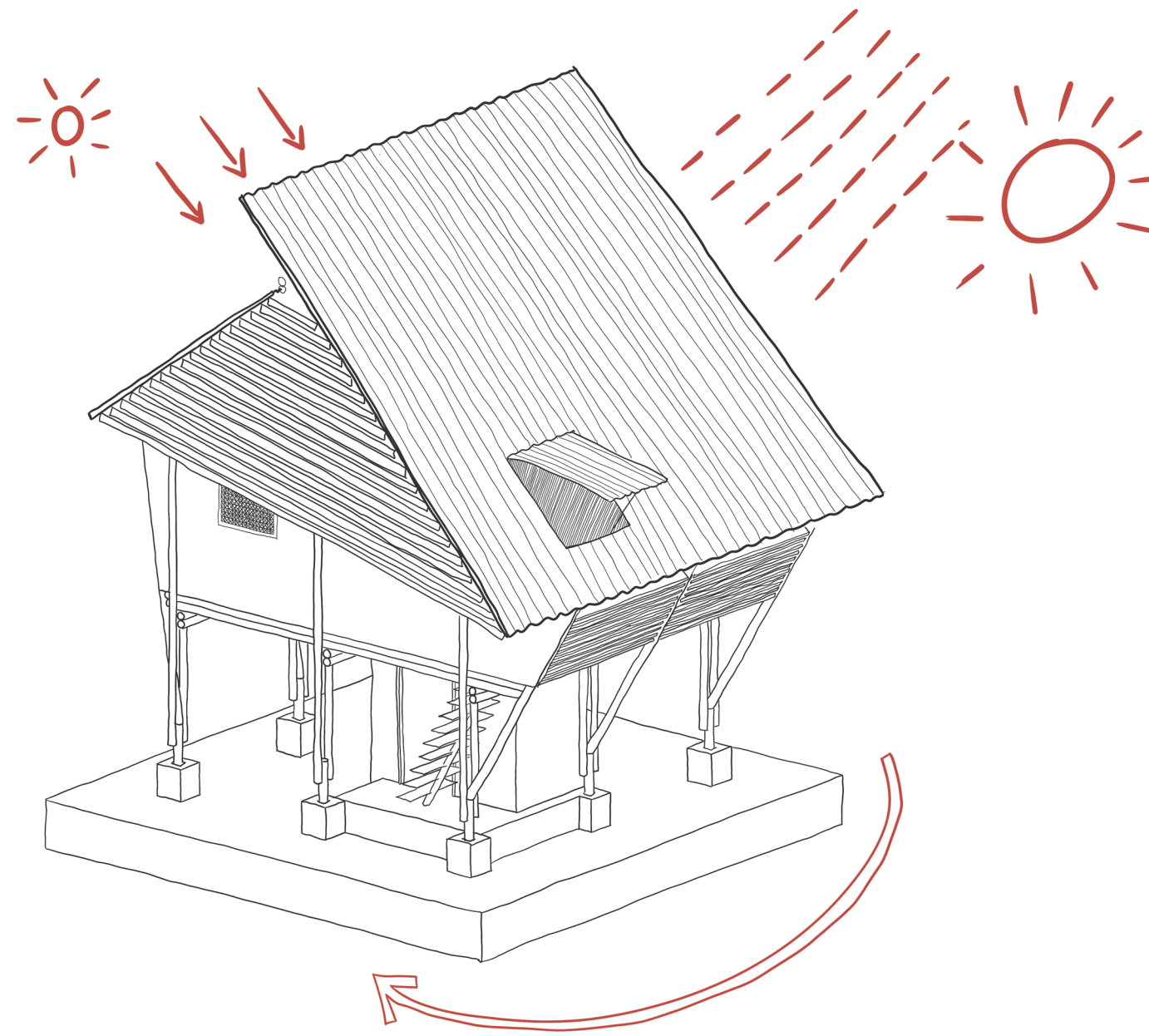
facade



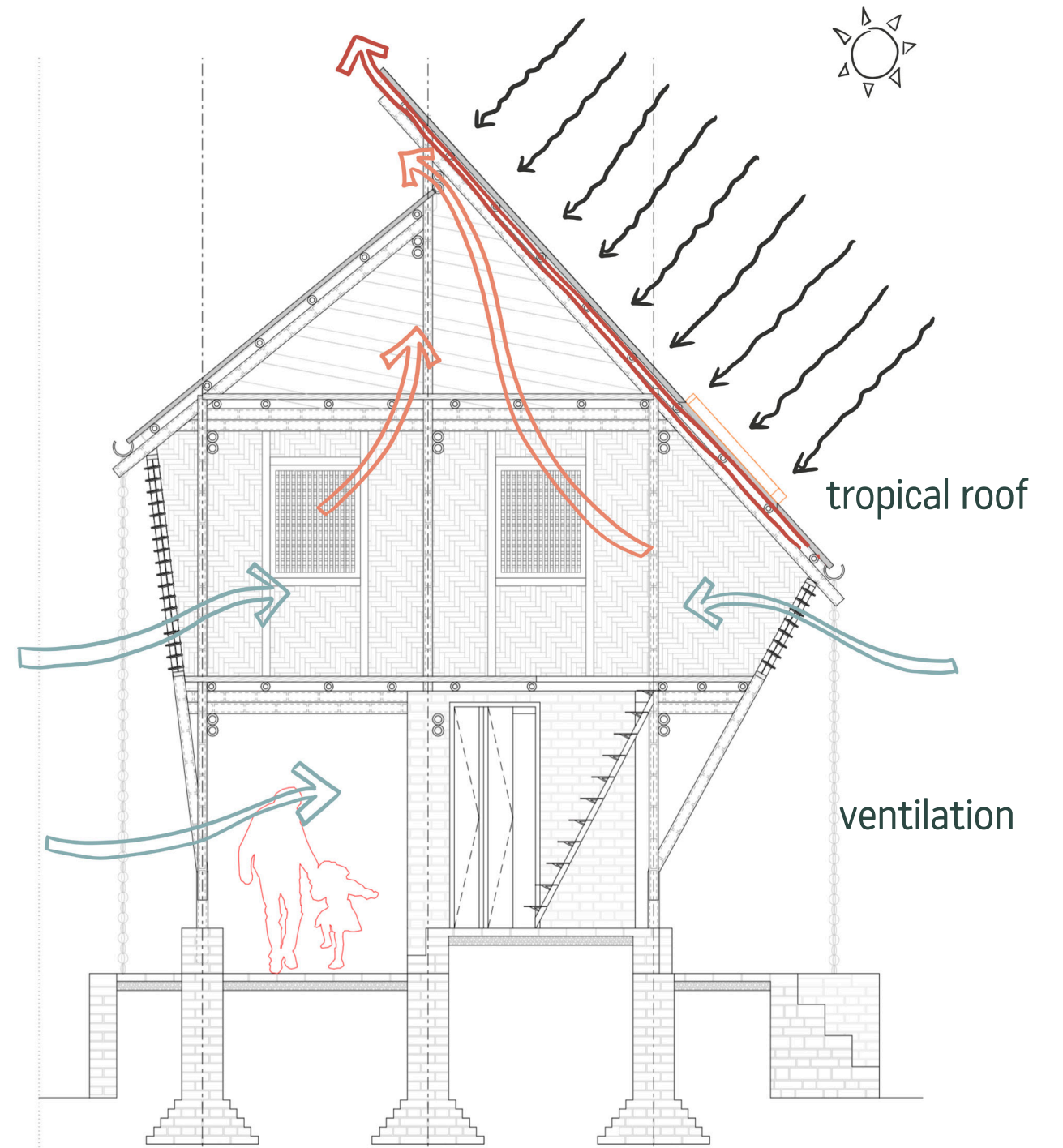
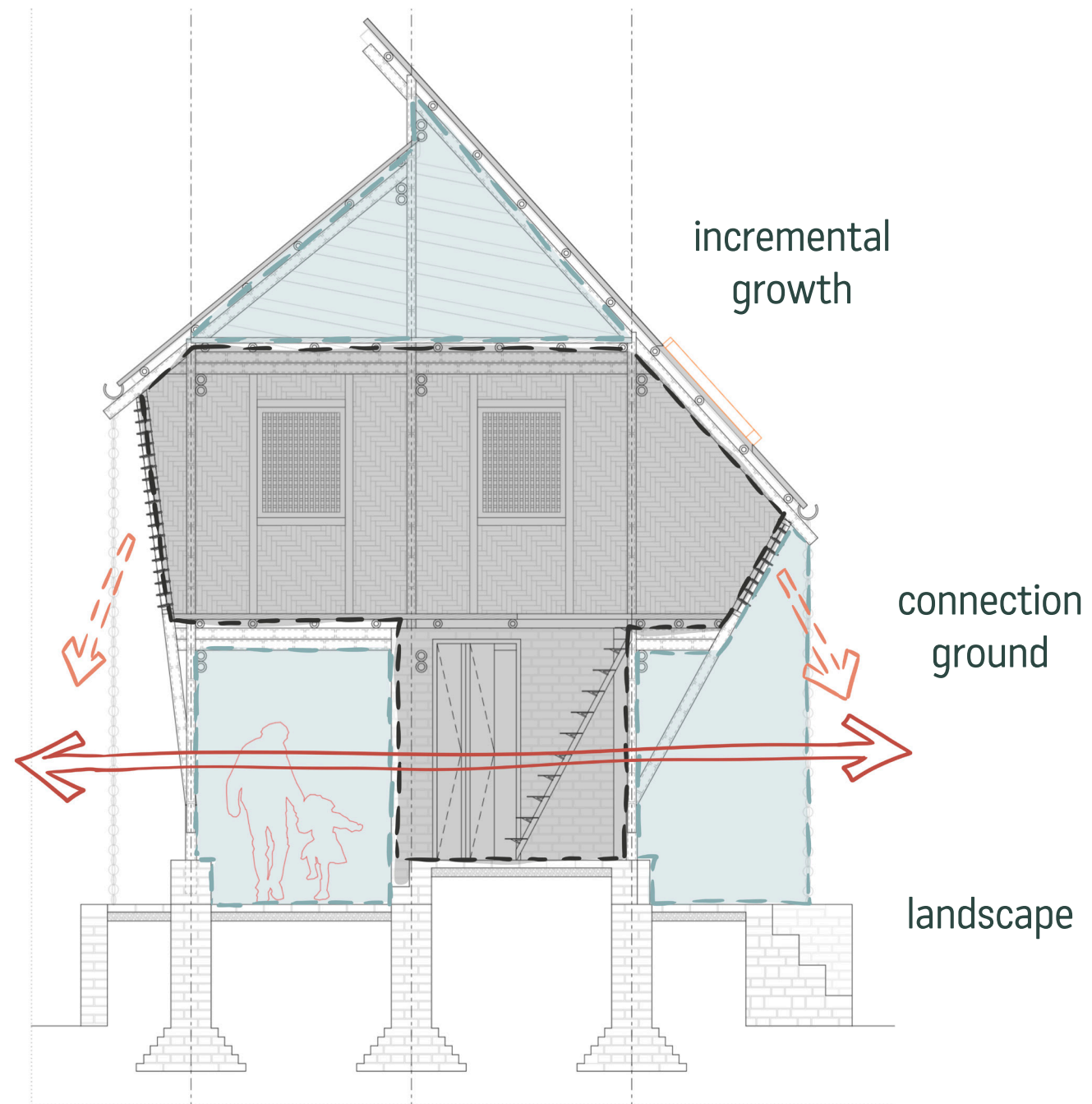


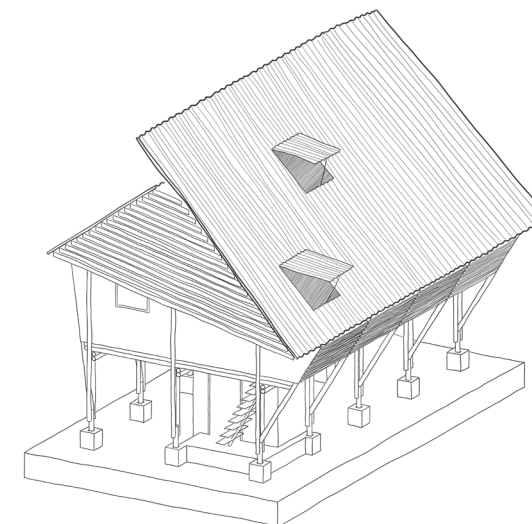
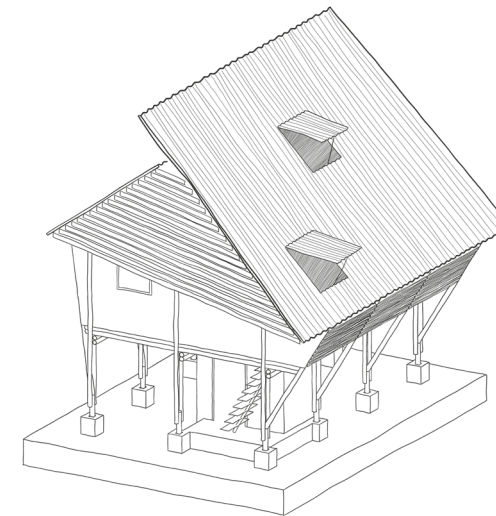
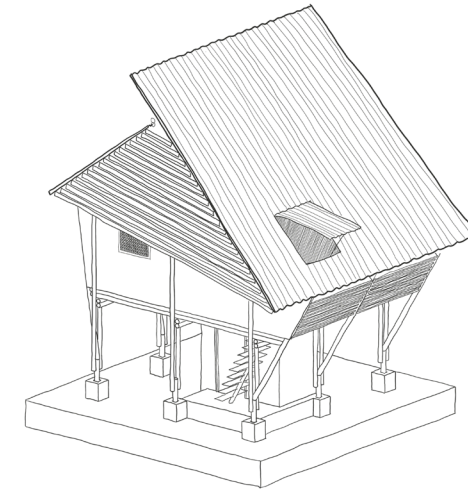
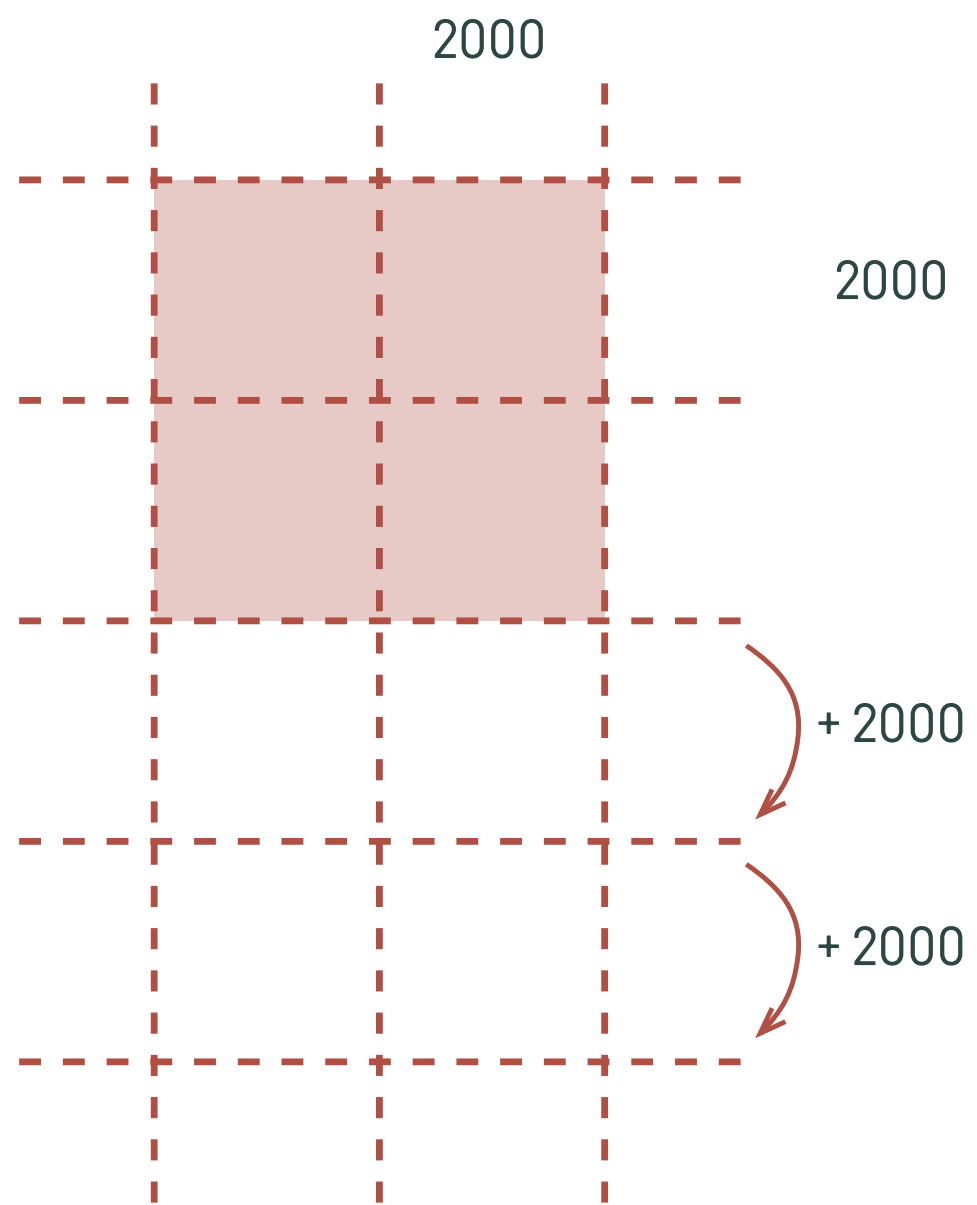


UNIT STRATEGY

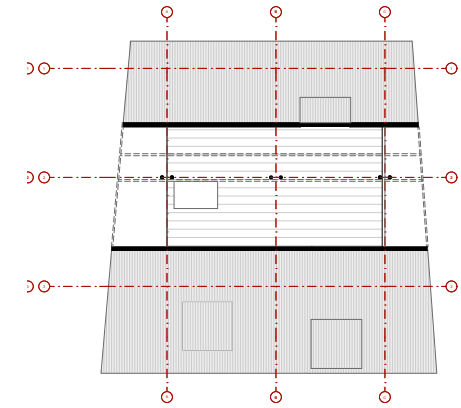
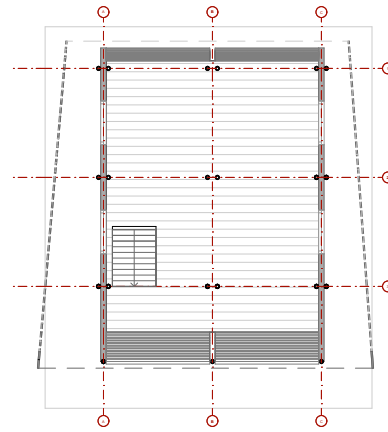
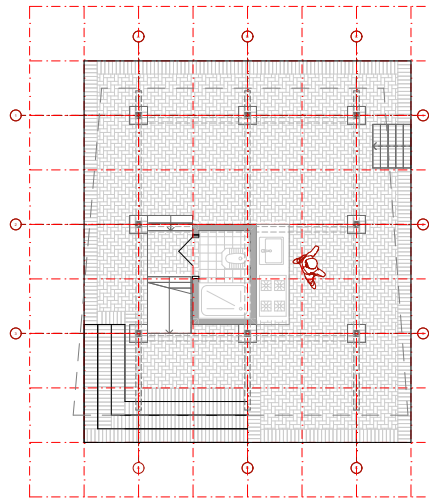


Shade &
ventilation

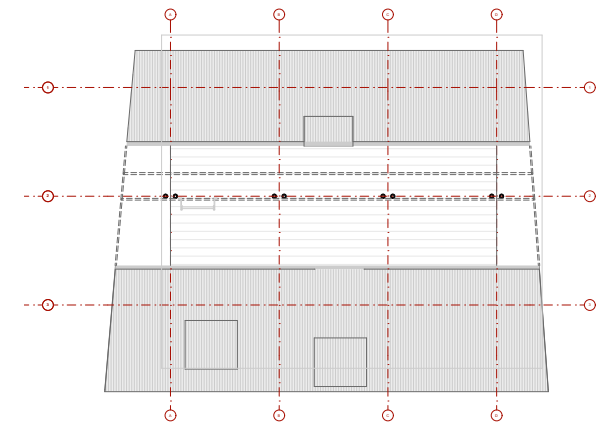
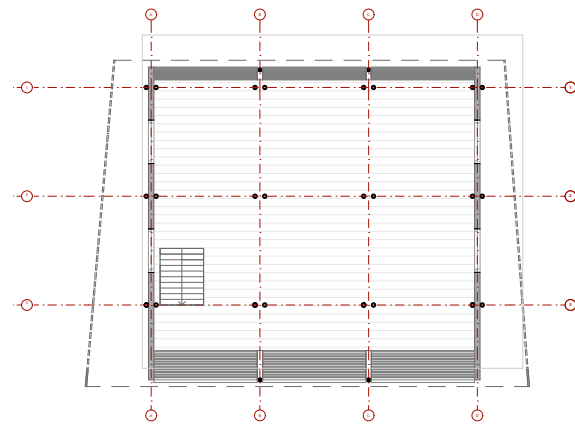
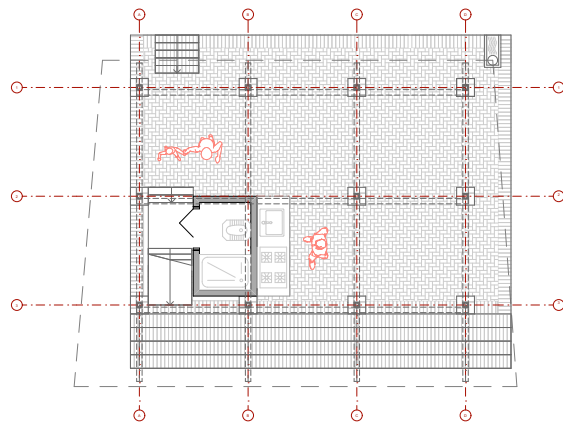




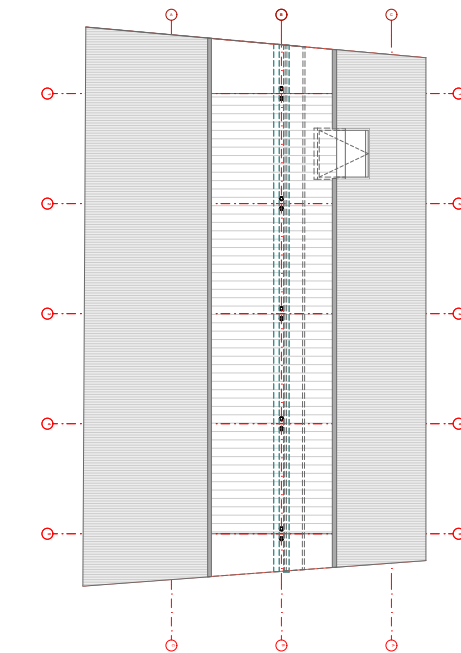
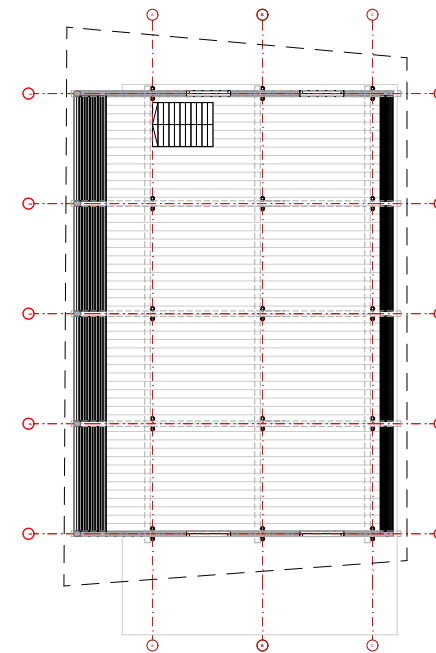
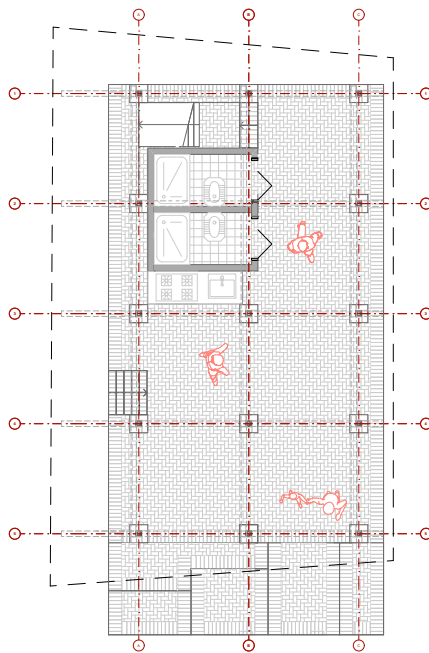
type A

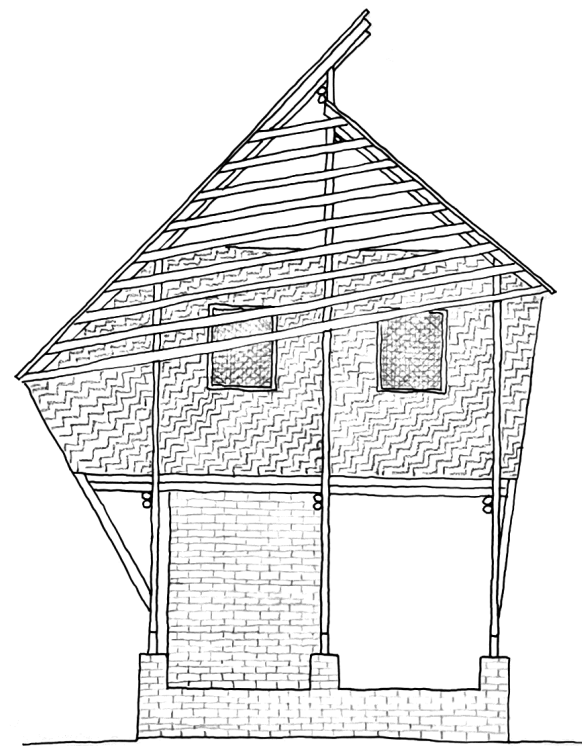


type B

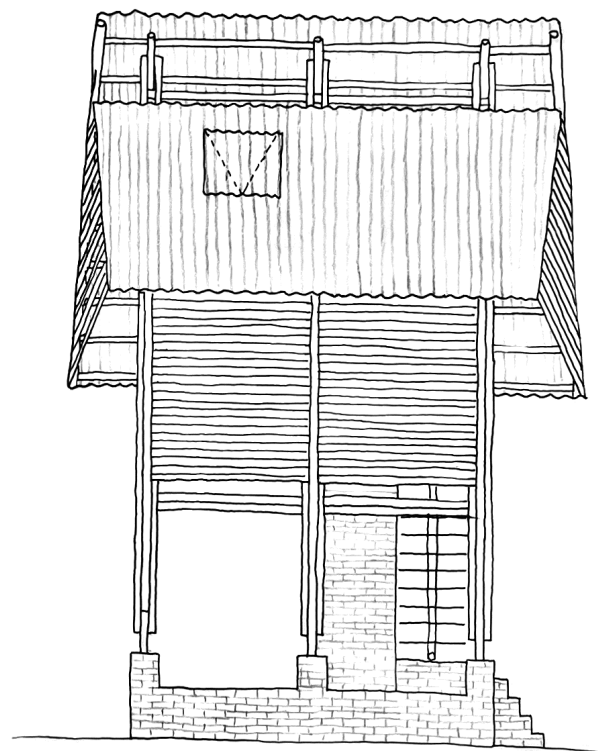


type C

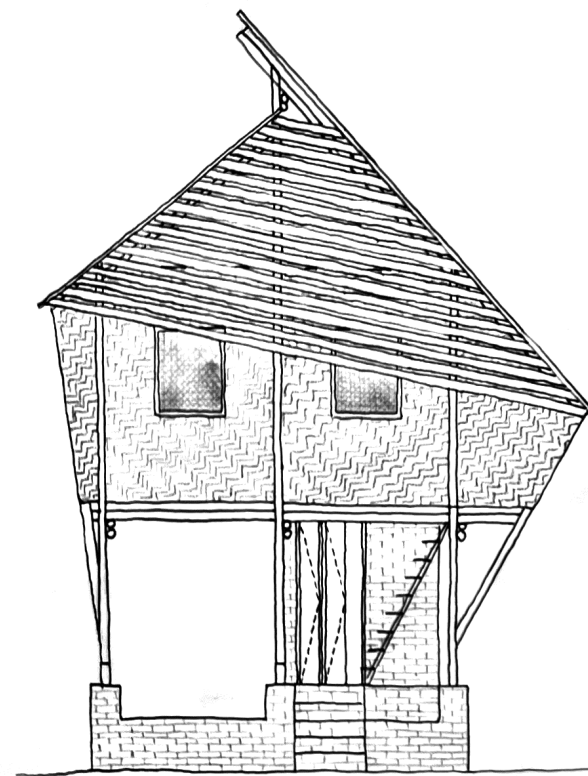




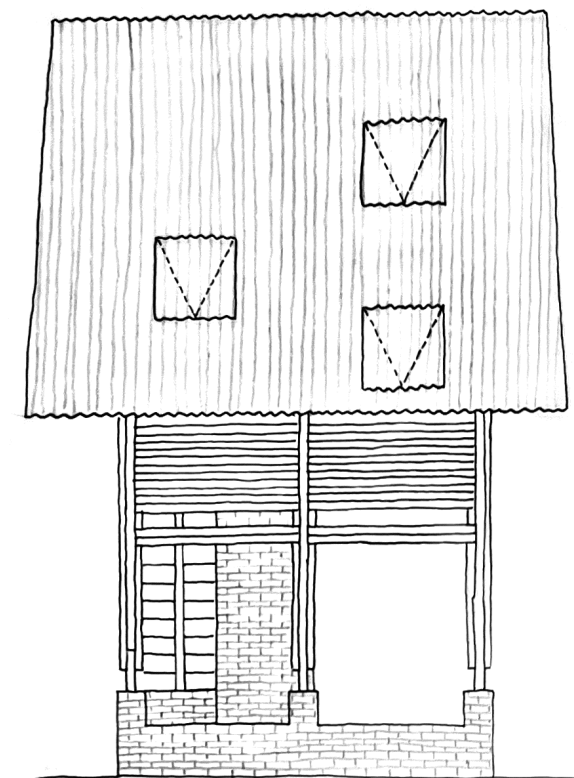
EAST



NORTH.



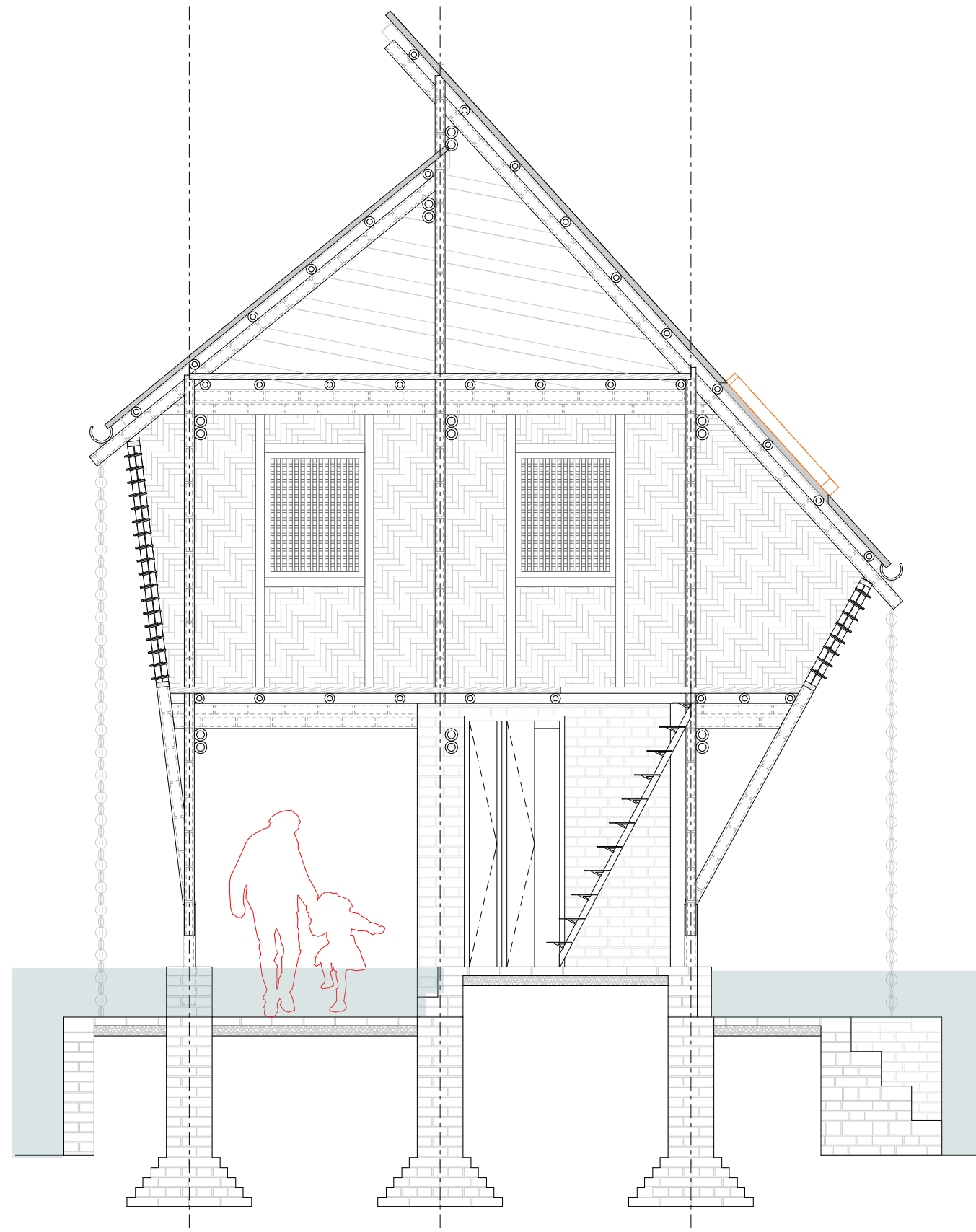
WEST



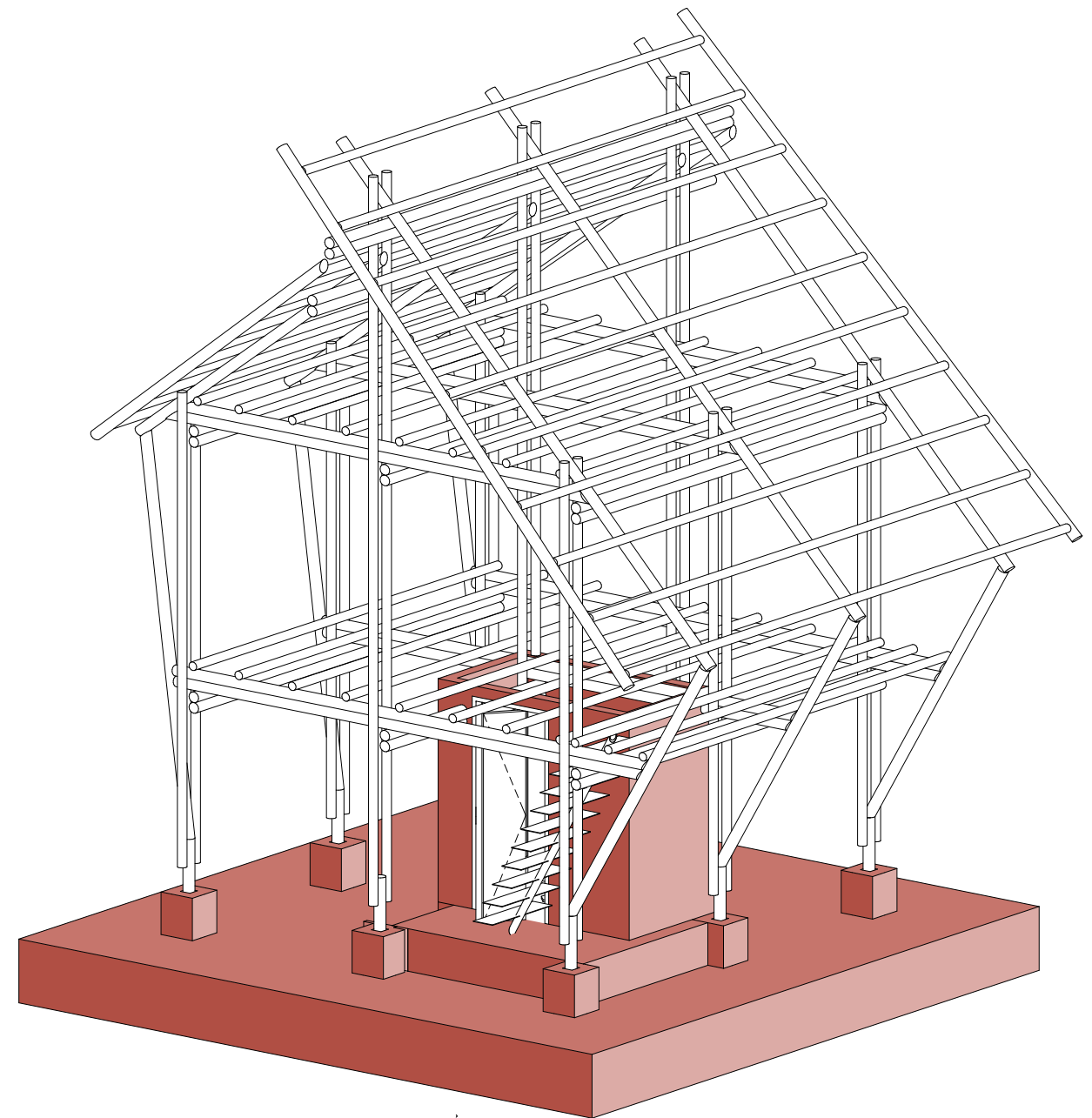
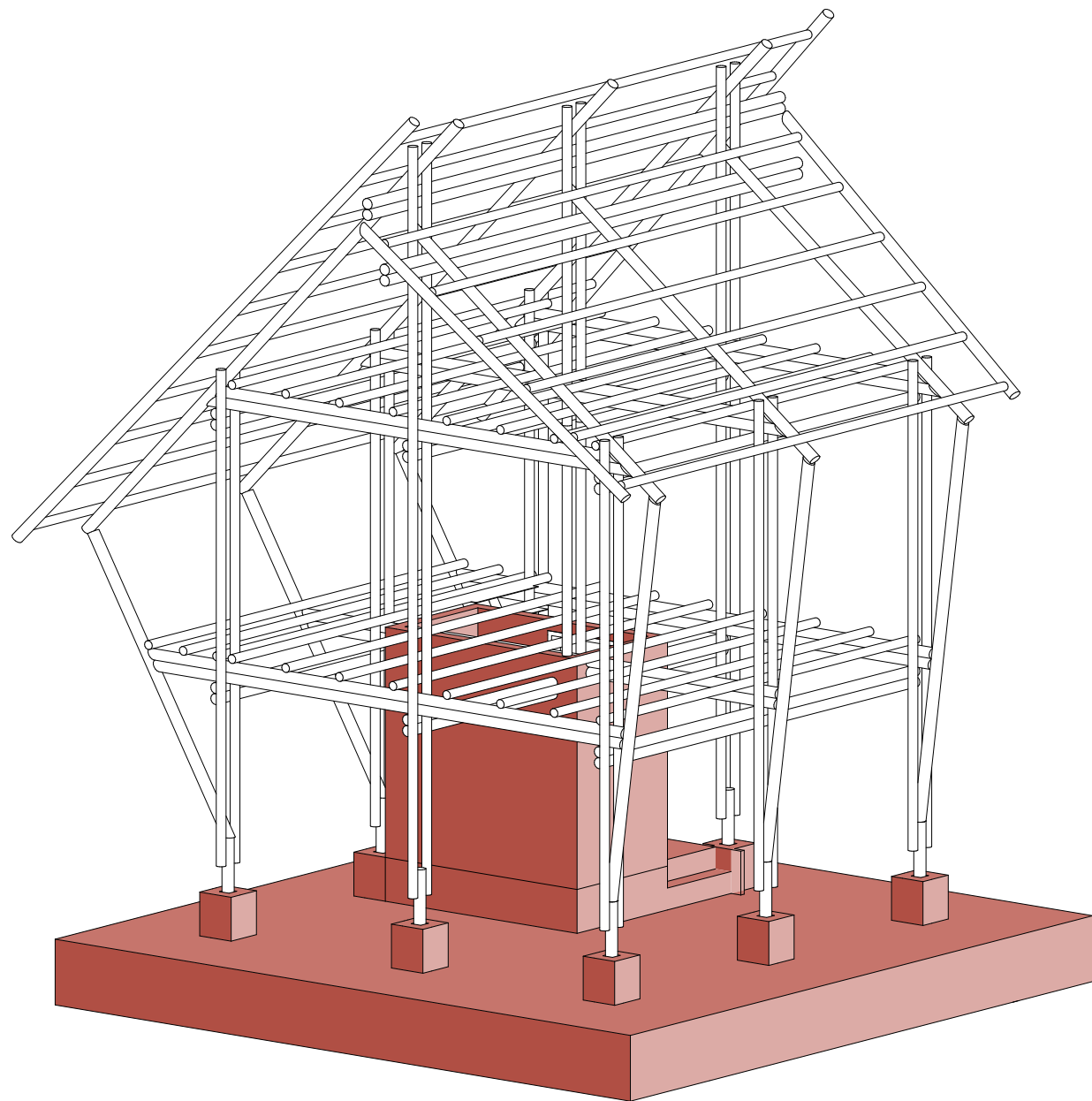
SOUTH

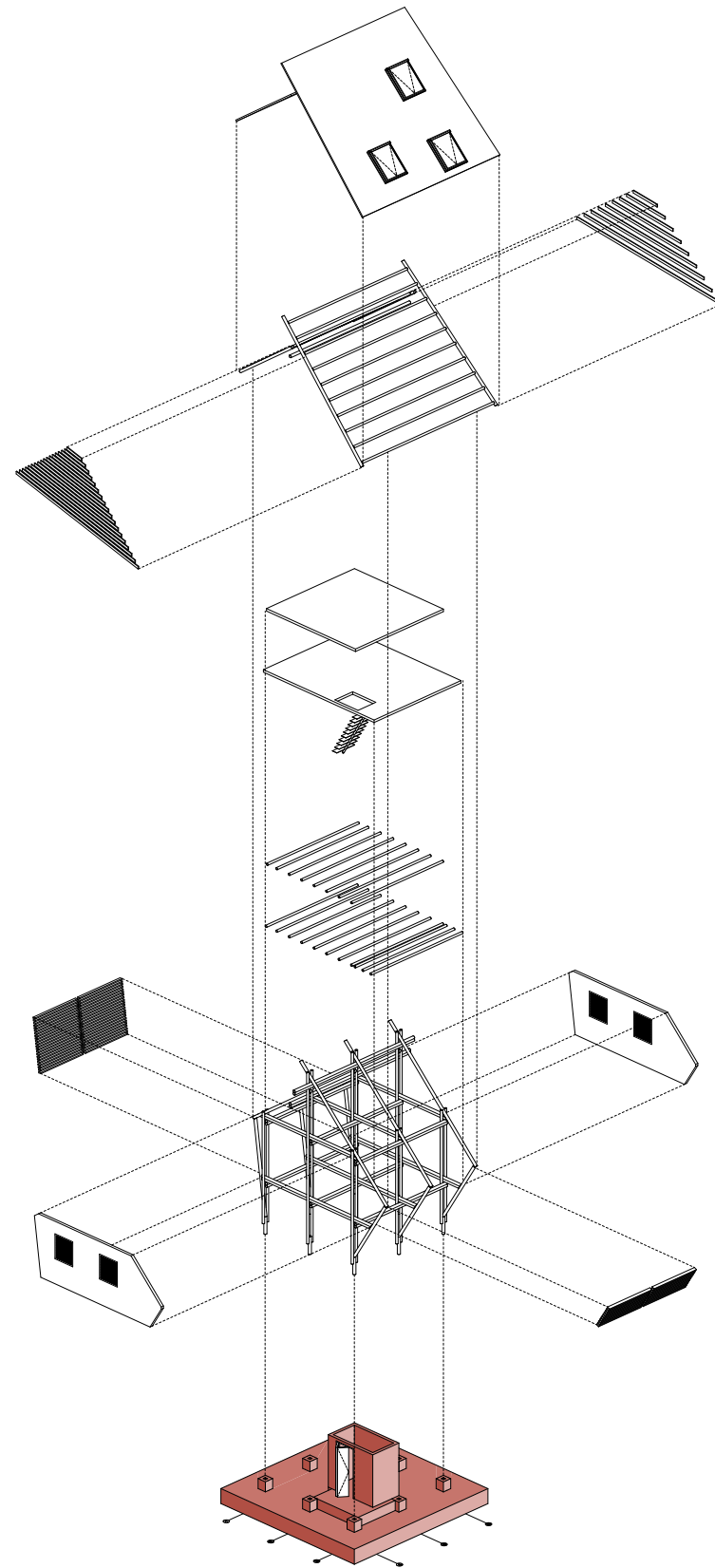
UNIT STRATEGY

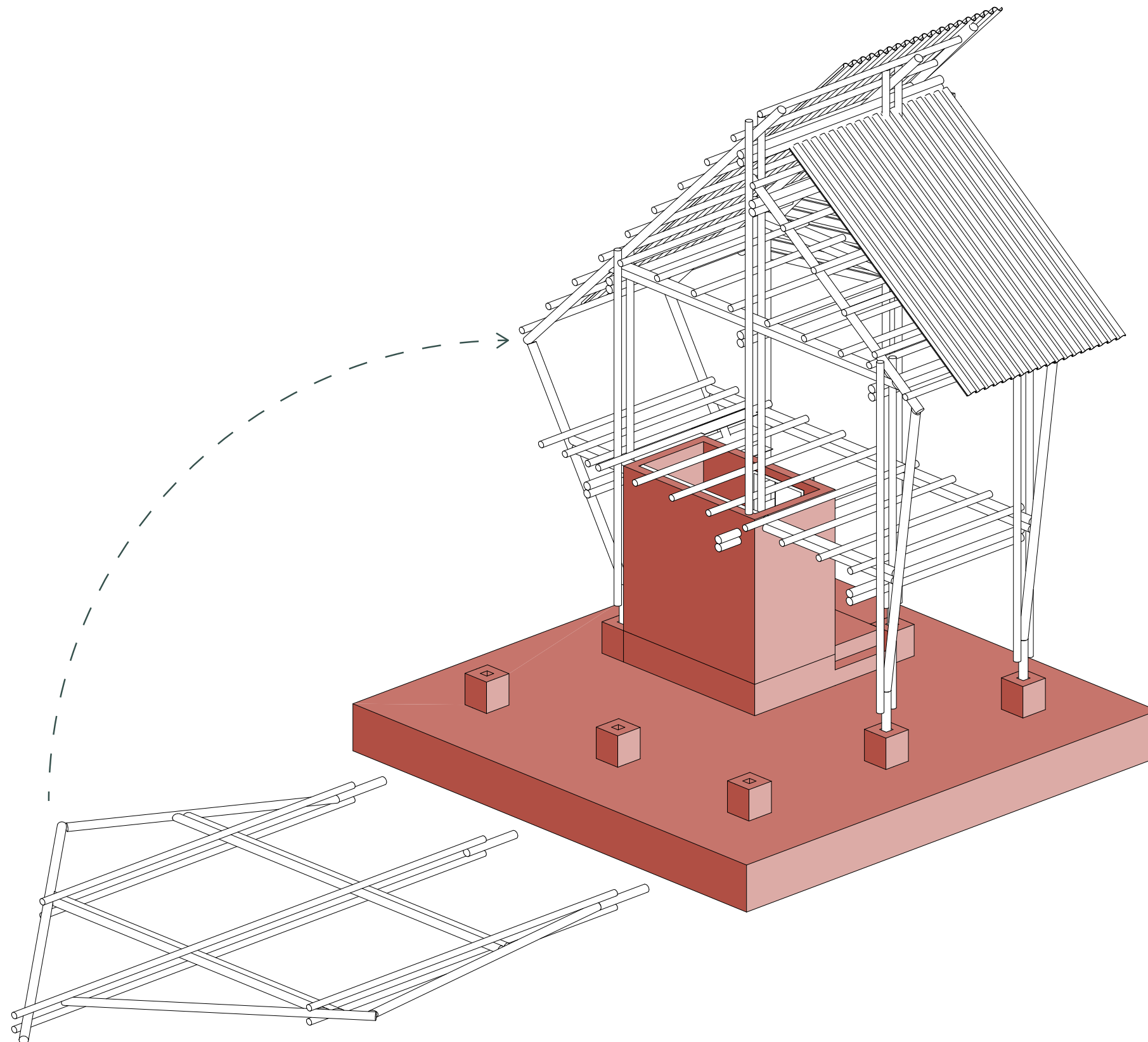
ELEVATIONS - START SCENARIO



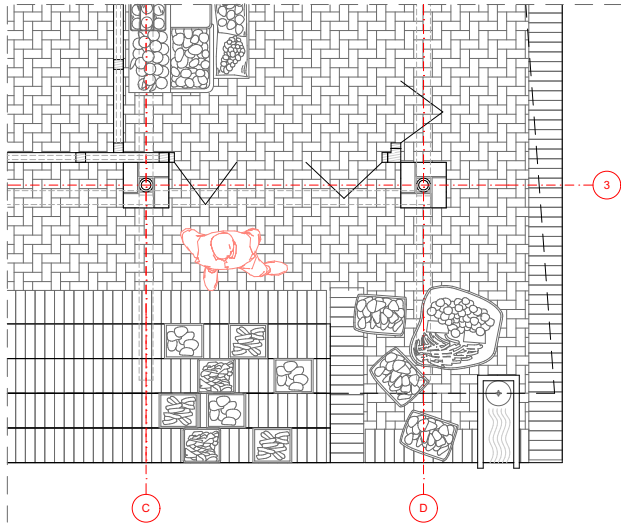
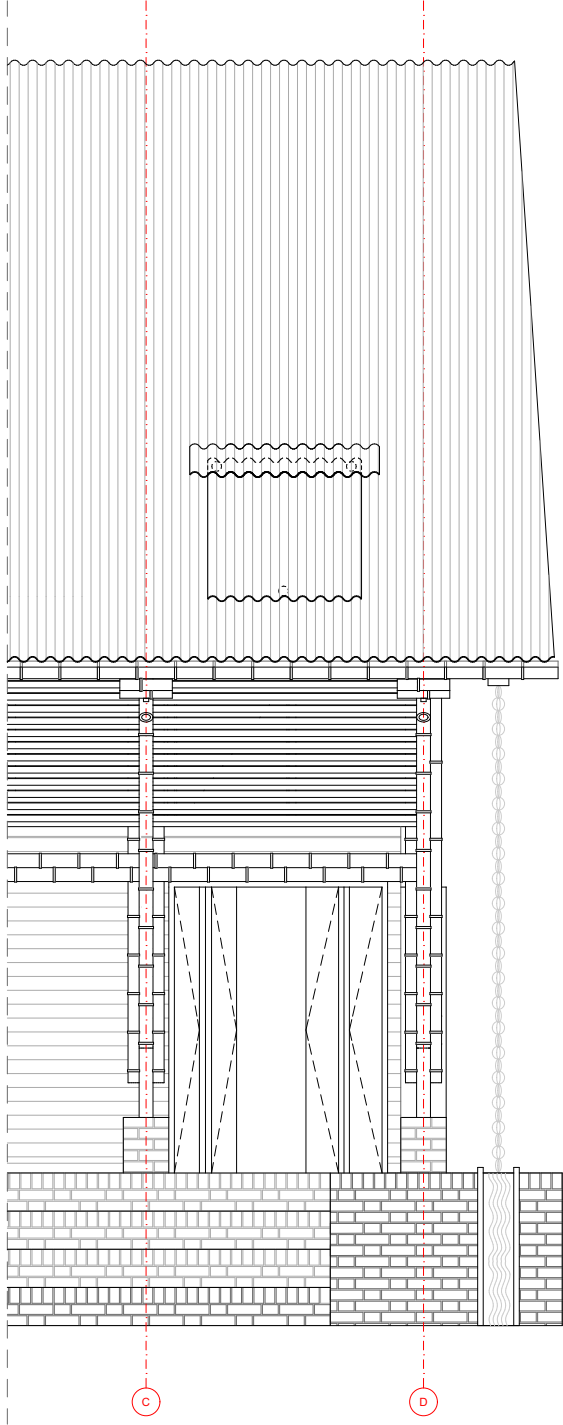
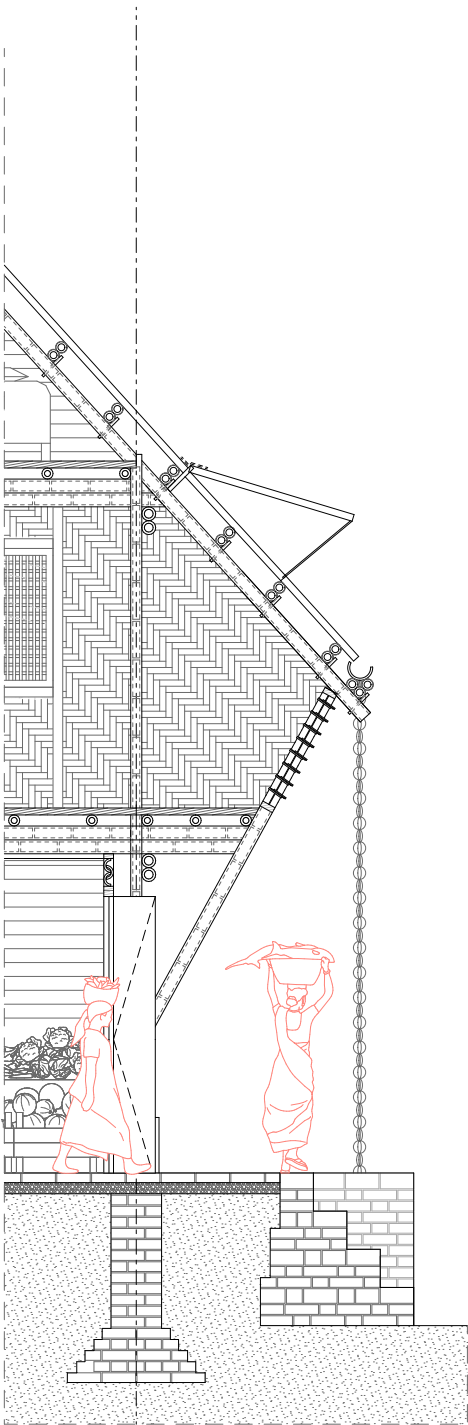
UNIT STRATEGY
USE DURING FLOODS

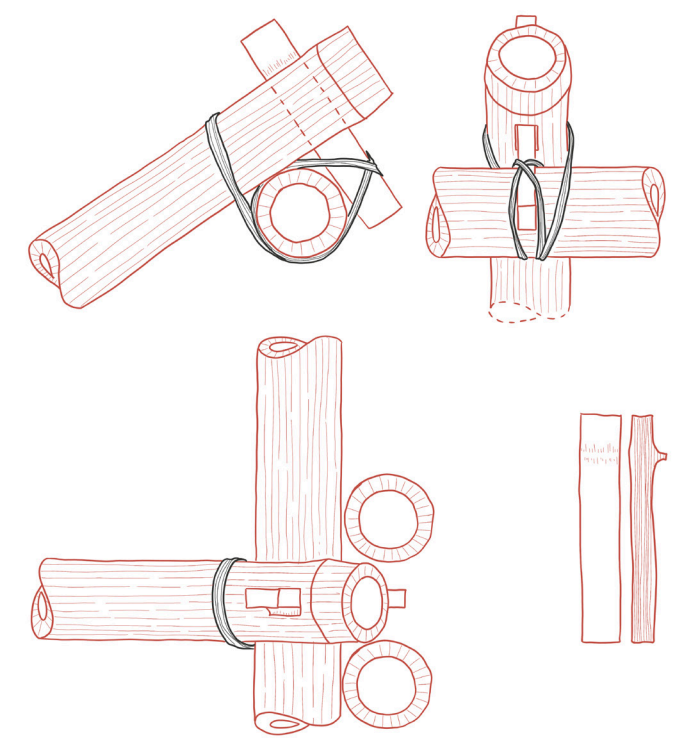
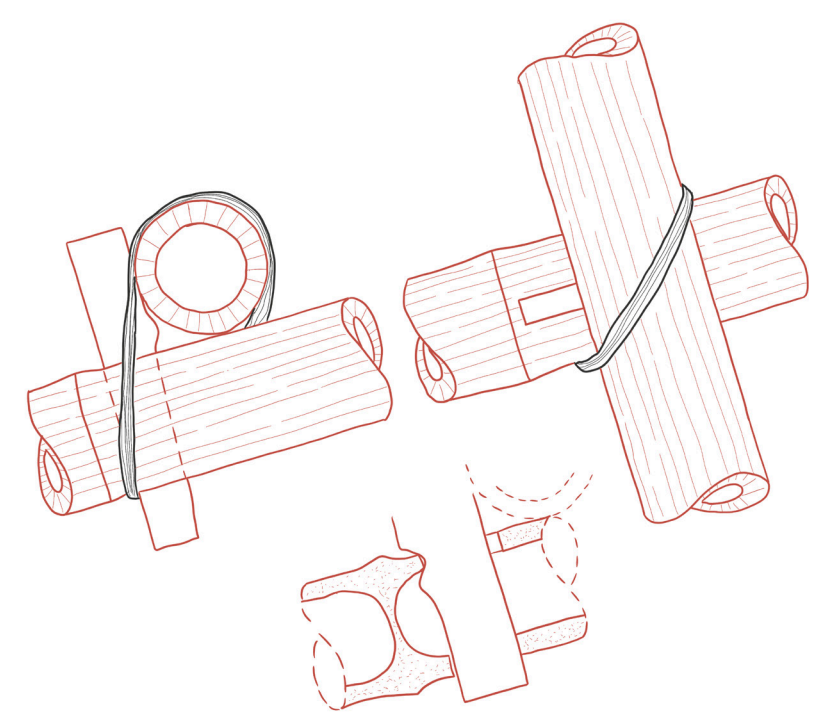
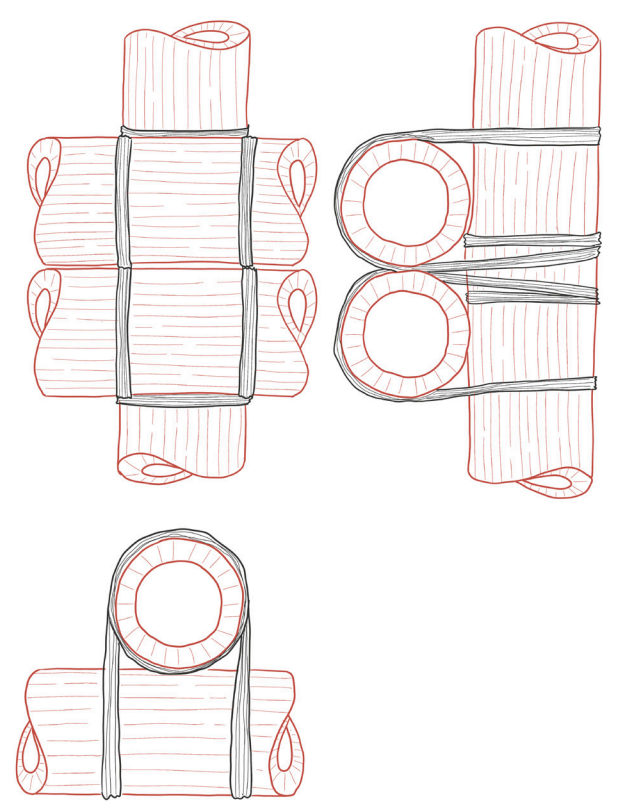
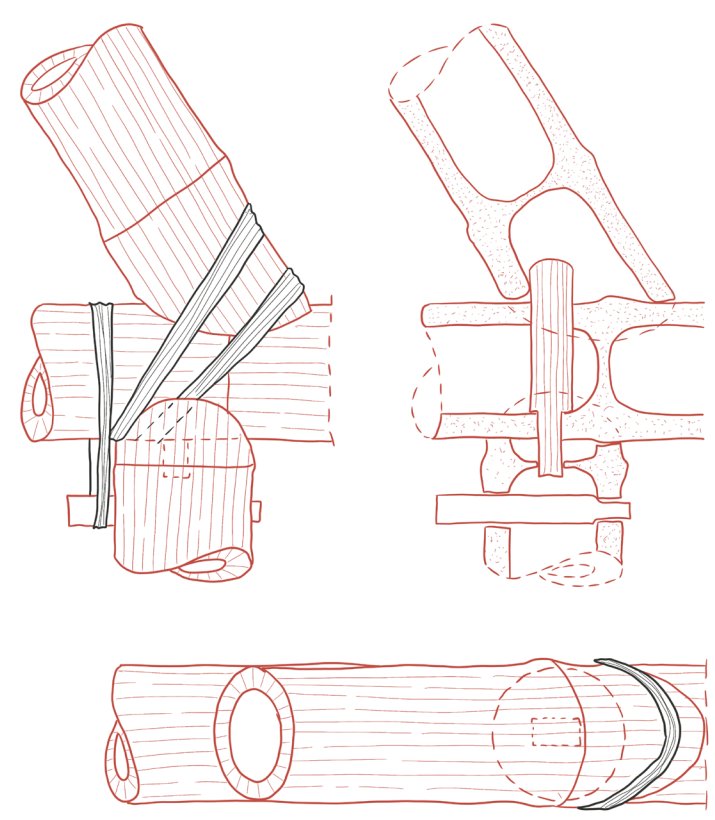
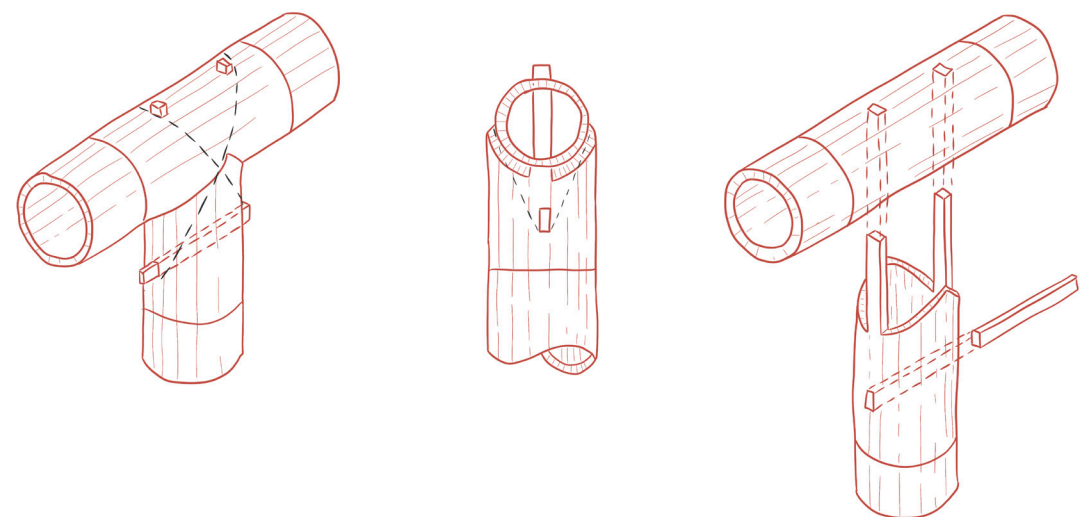


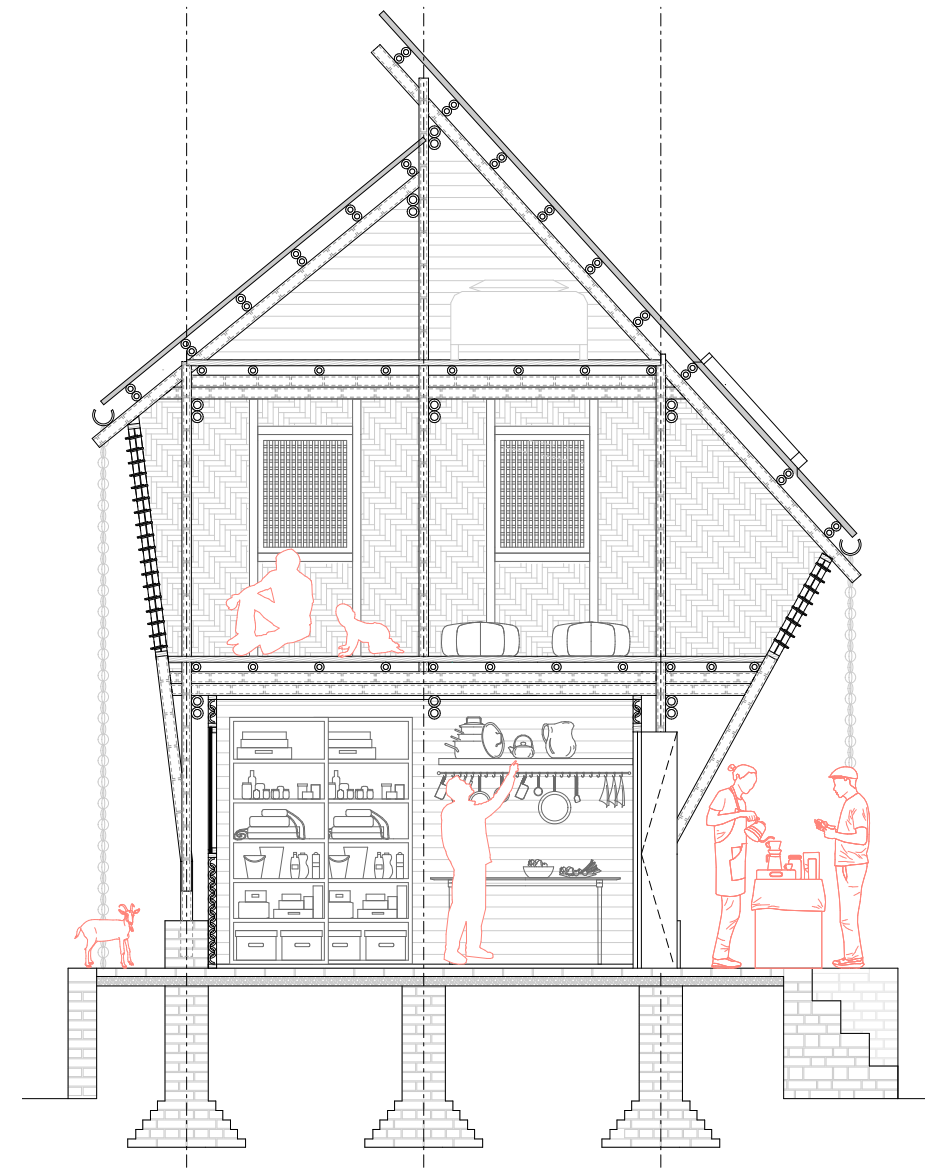
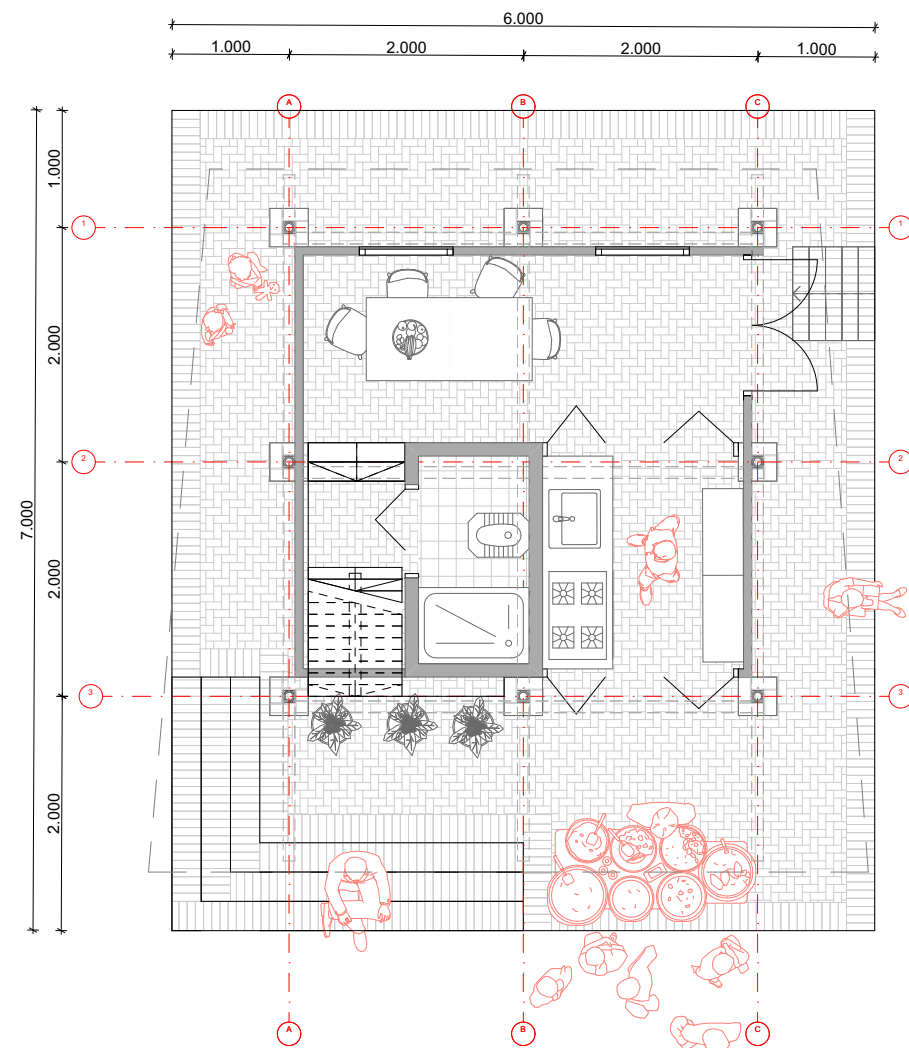




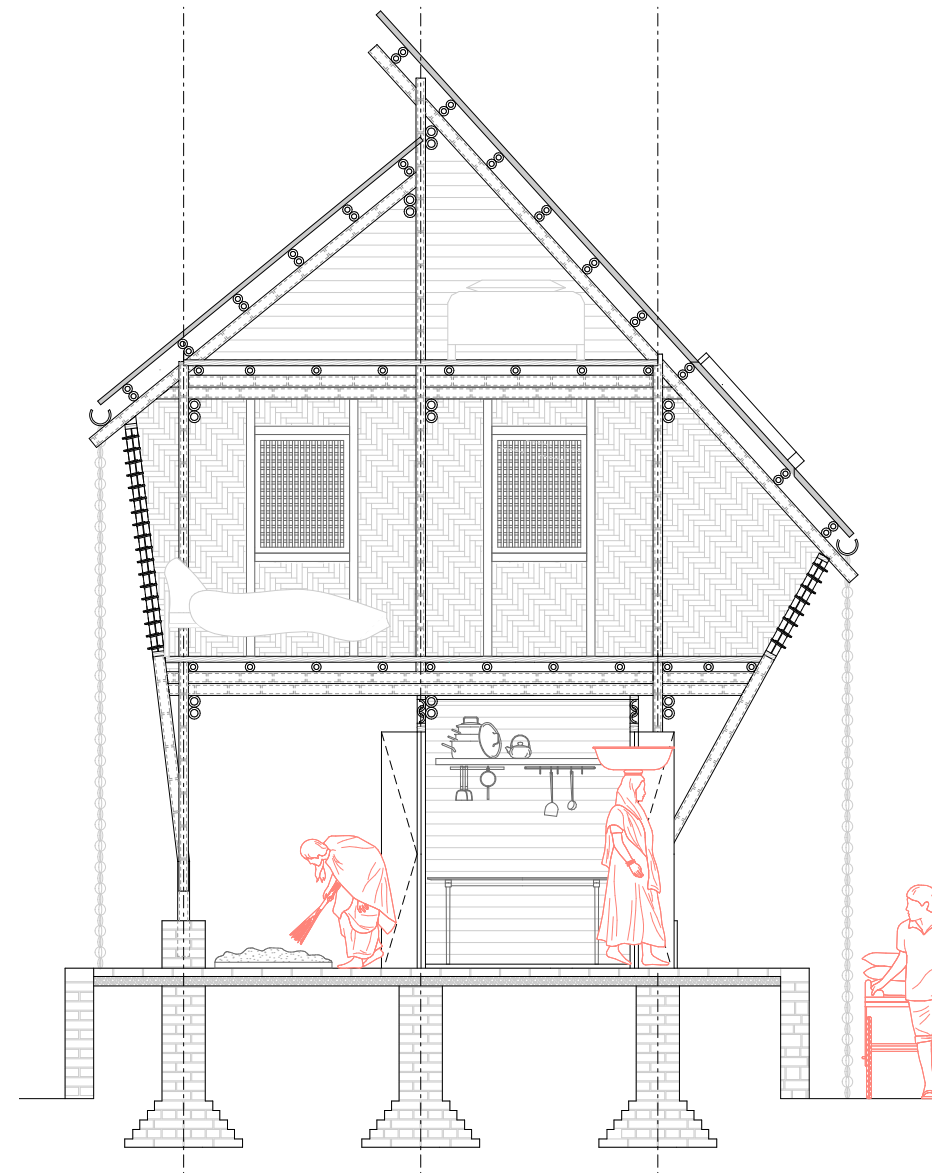
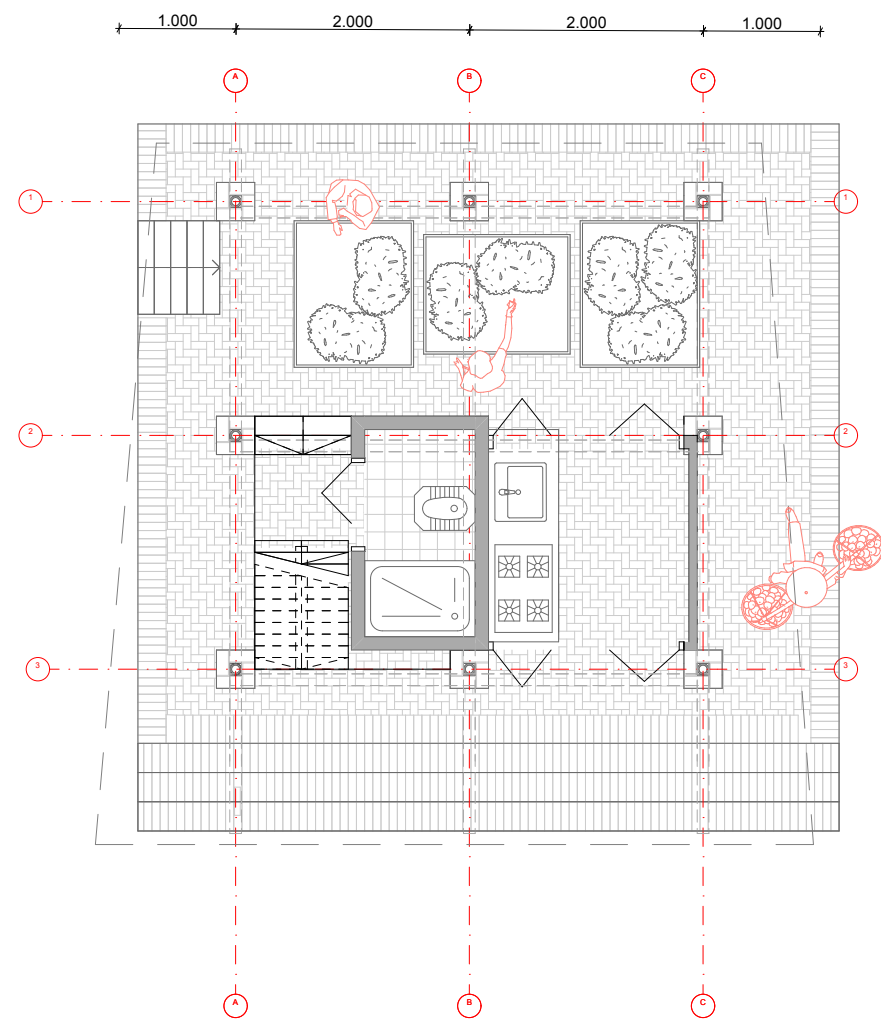
UNIT STRATEGY
BUILDING METHOD

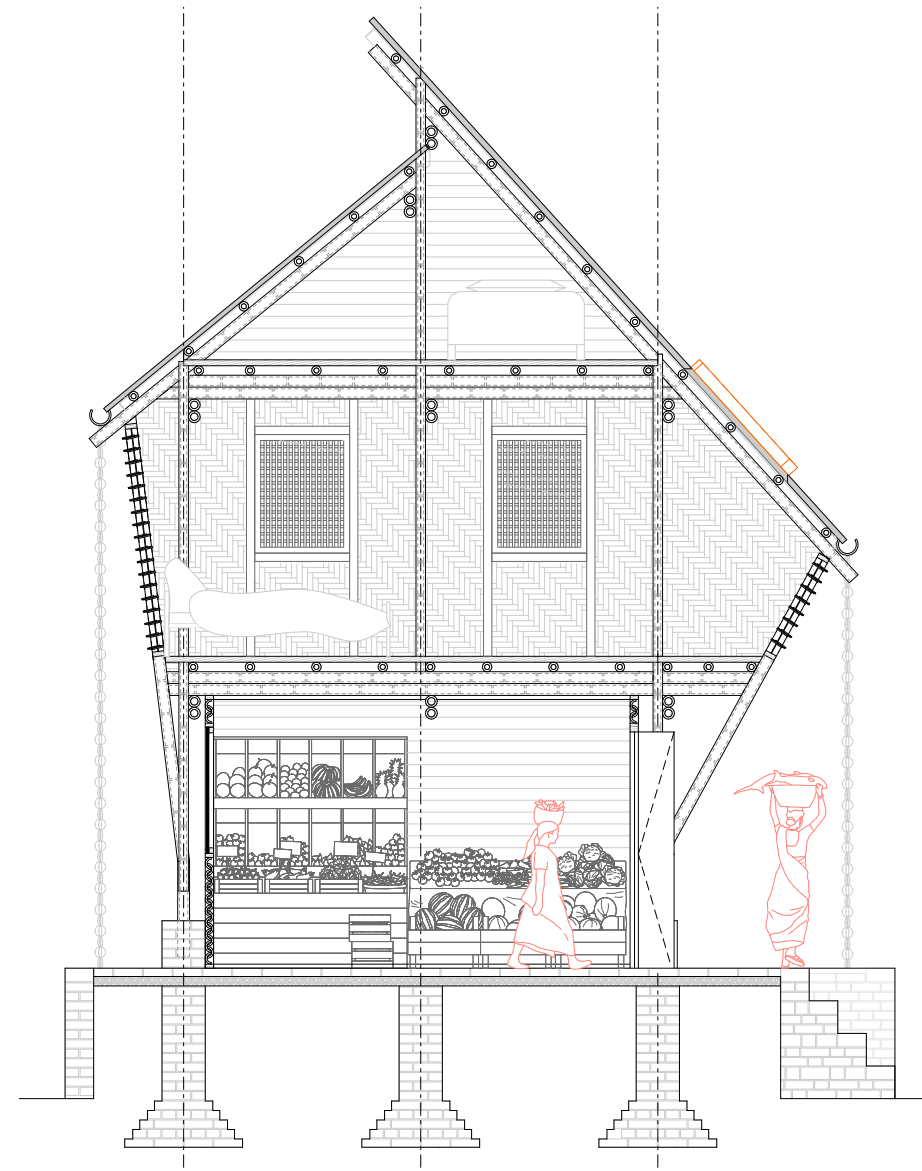
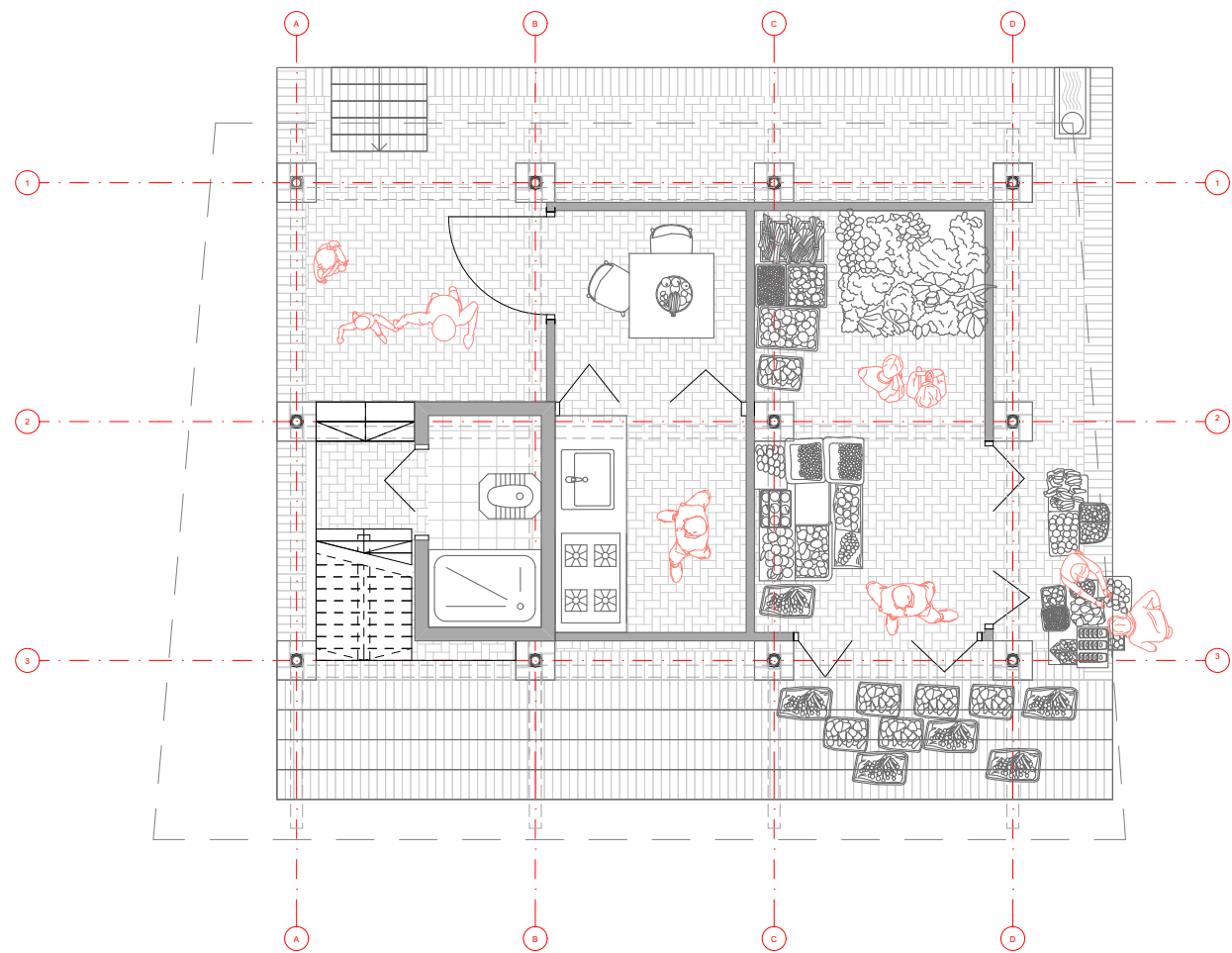




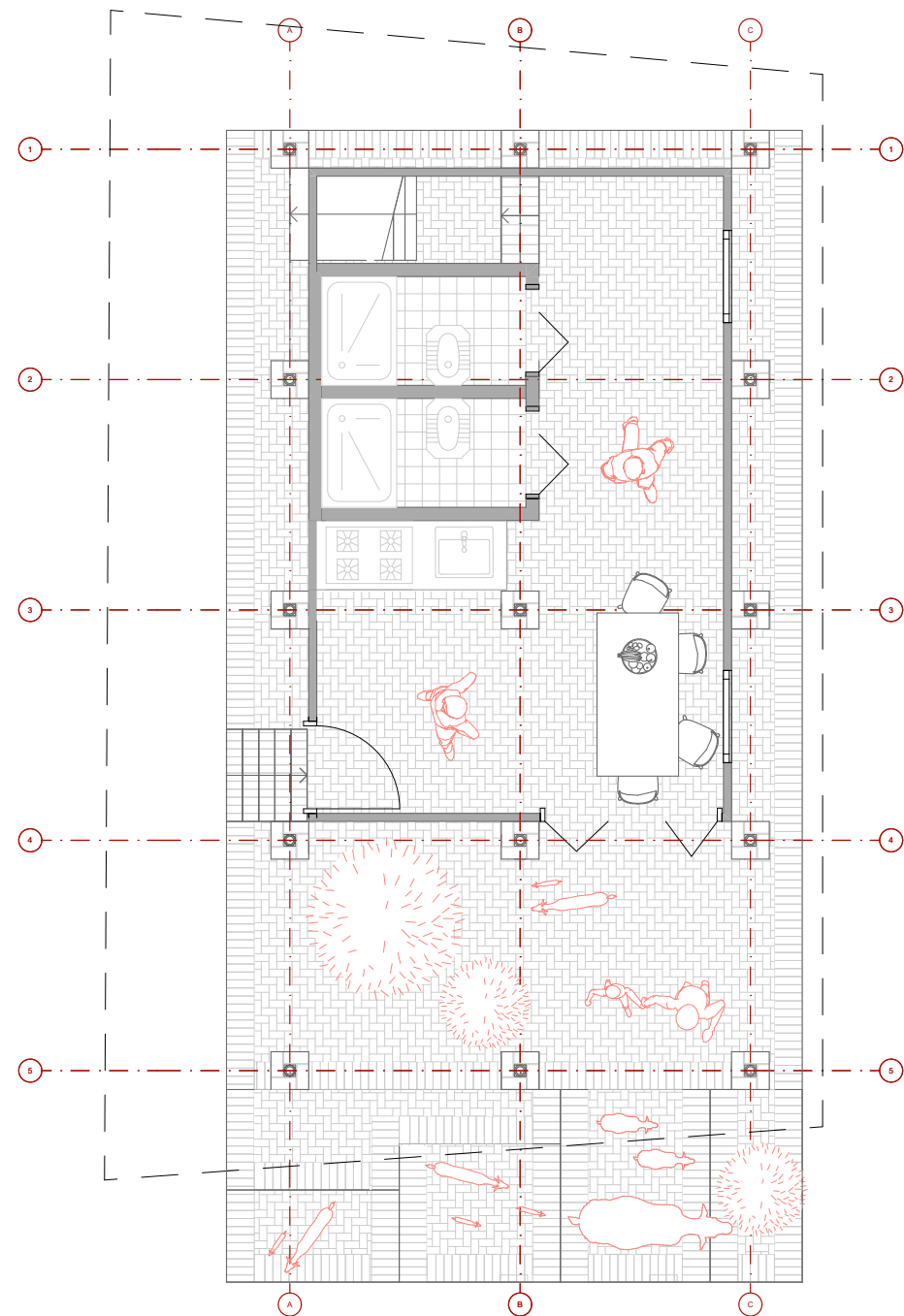


UNIT STRATEGY
TYPE A - FOOD SHOP





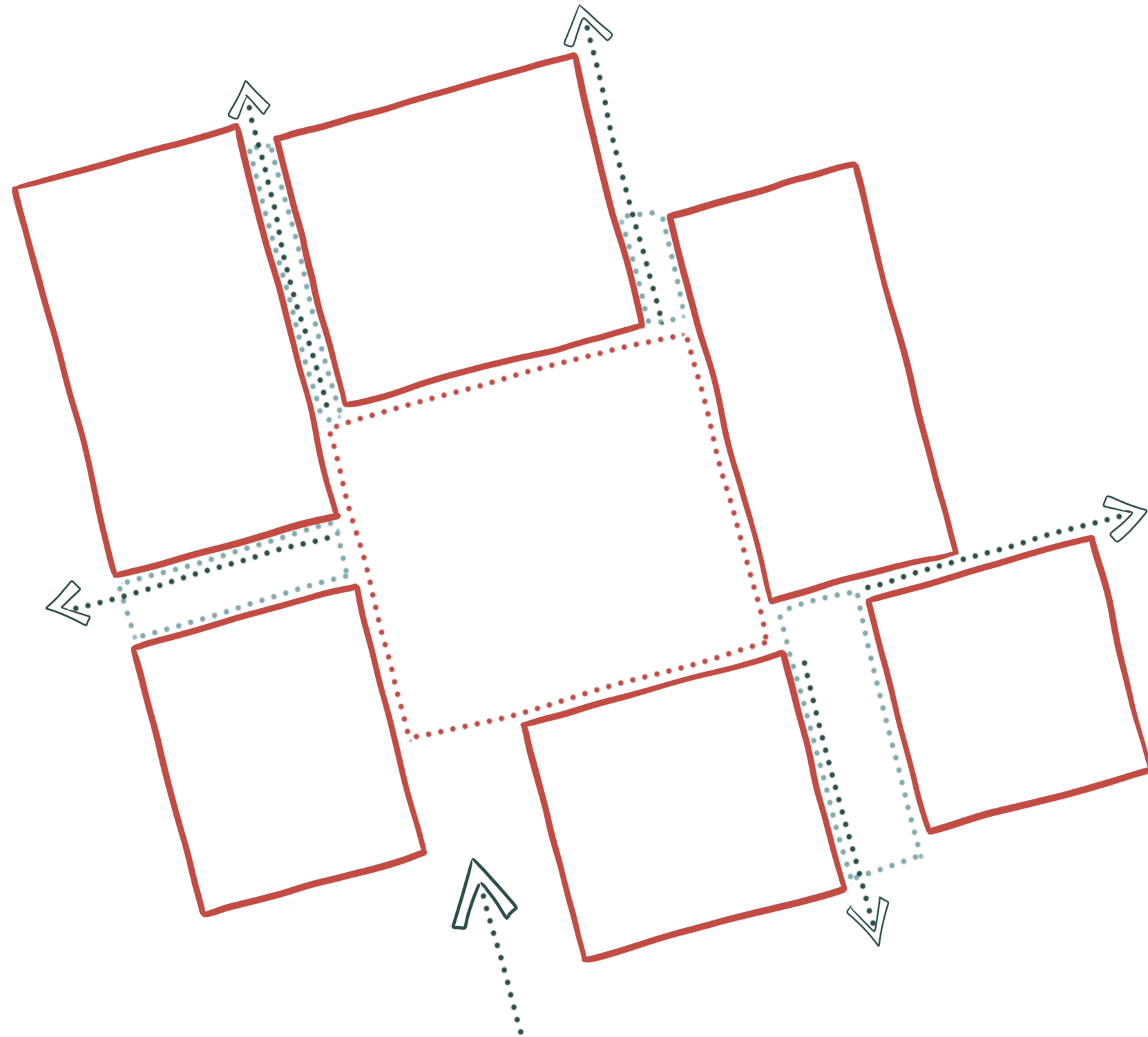
UNIT STRATEGY
TYPE B - FRUIT SHOP



UNIT STRATEGY
TYPE C - CATTLE FARMER



CLUSTER STRATEGY





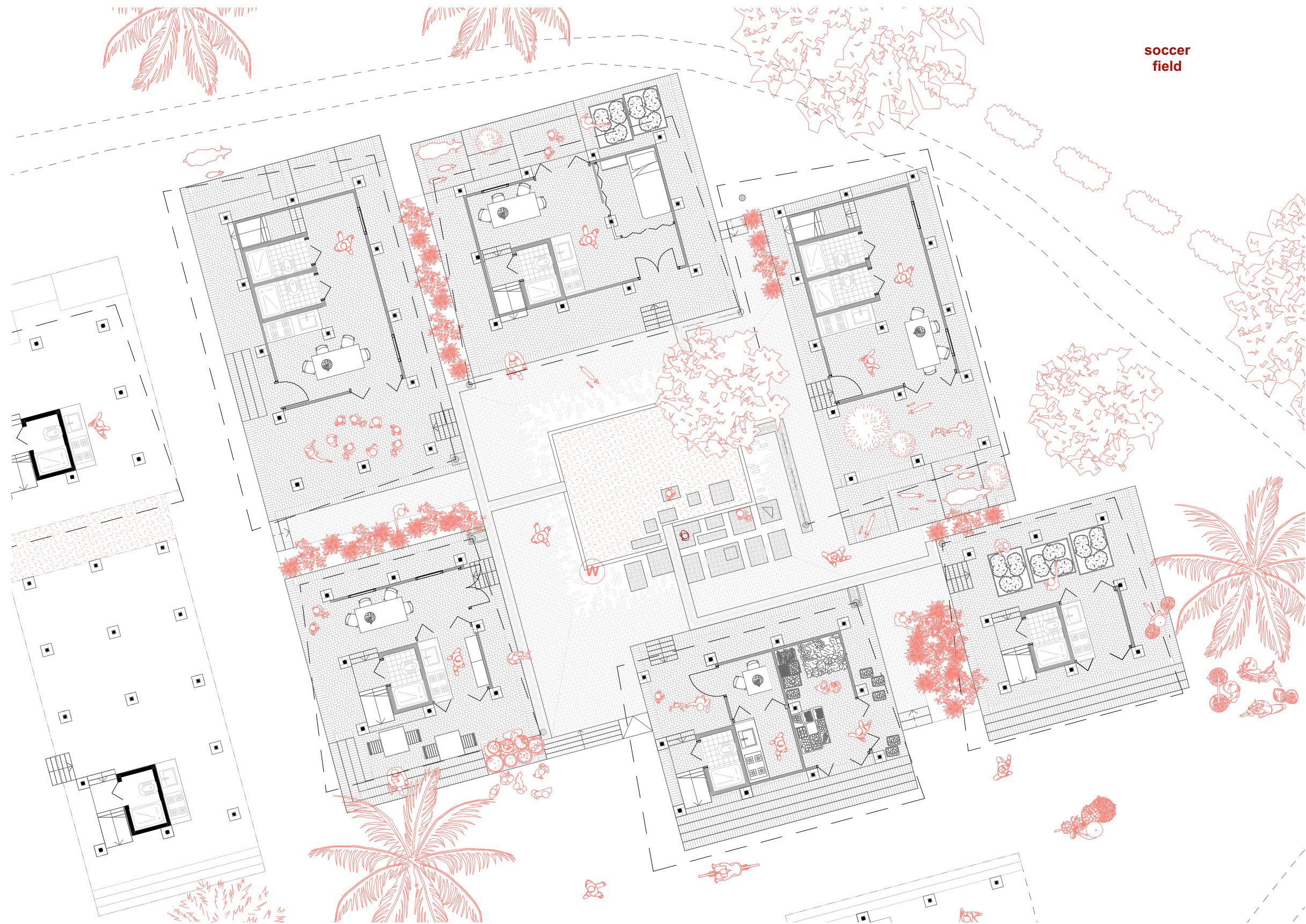
CLUSTER STRATEGY

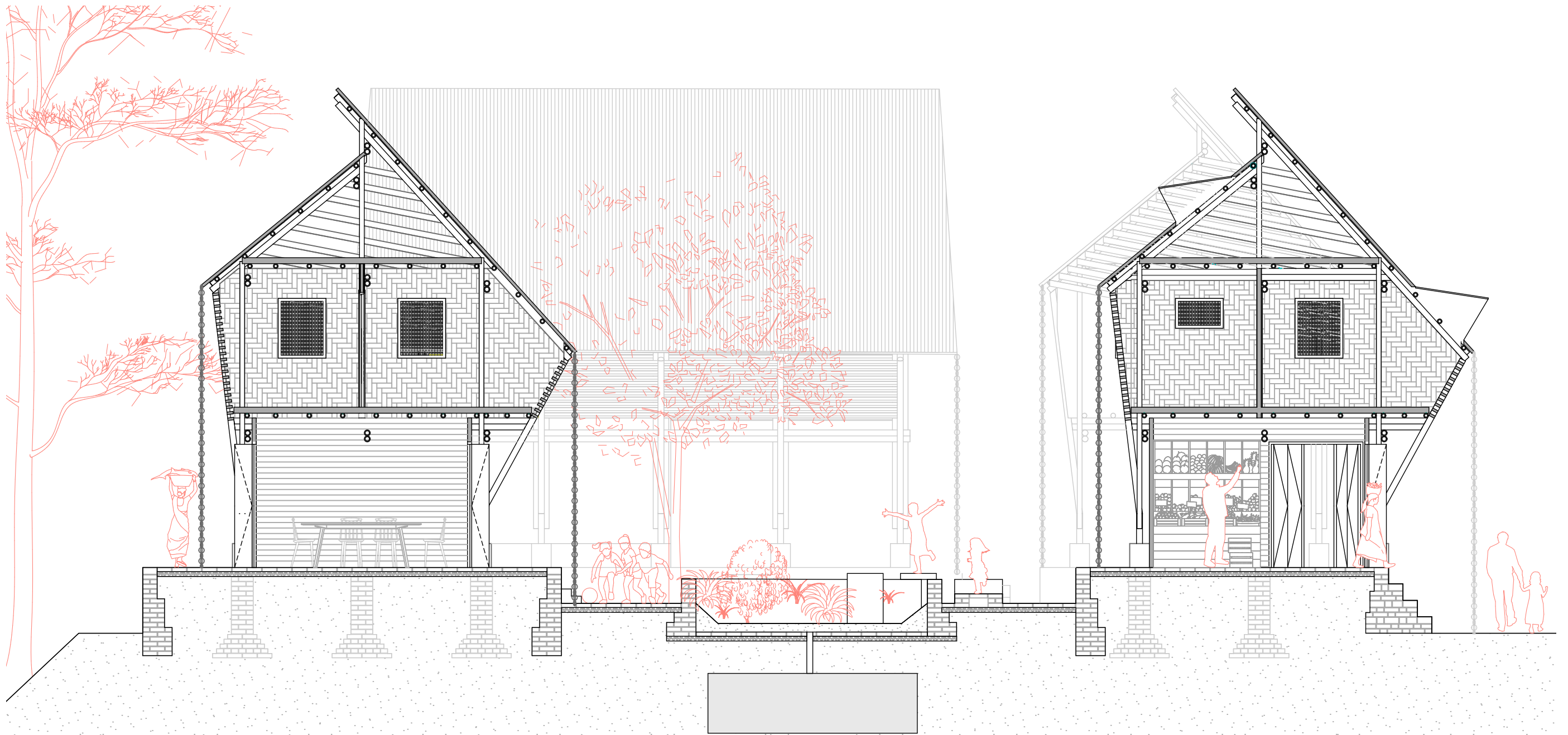
CLUSTER PRINCIPLES

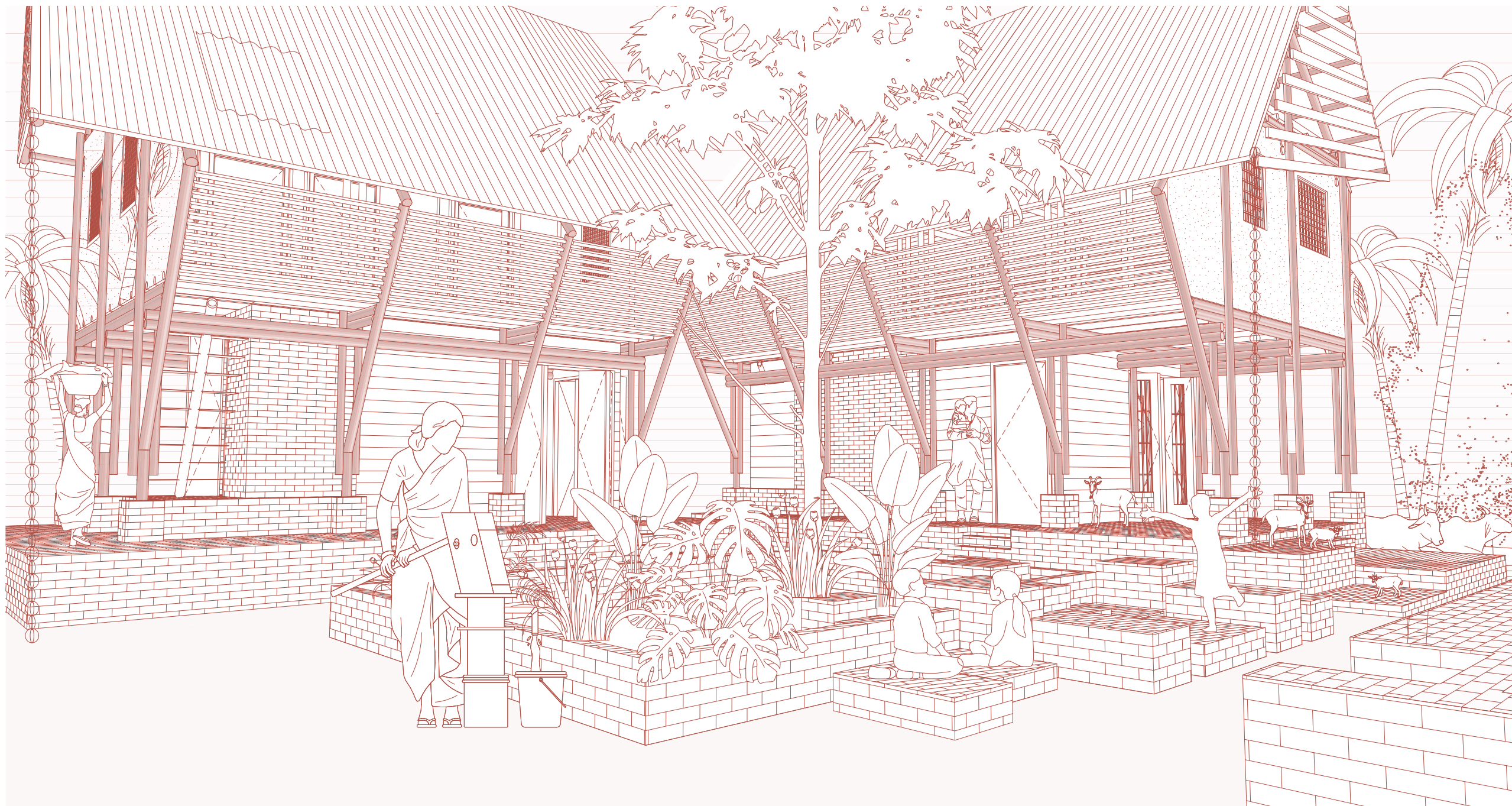


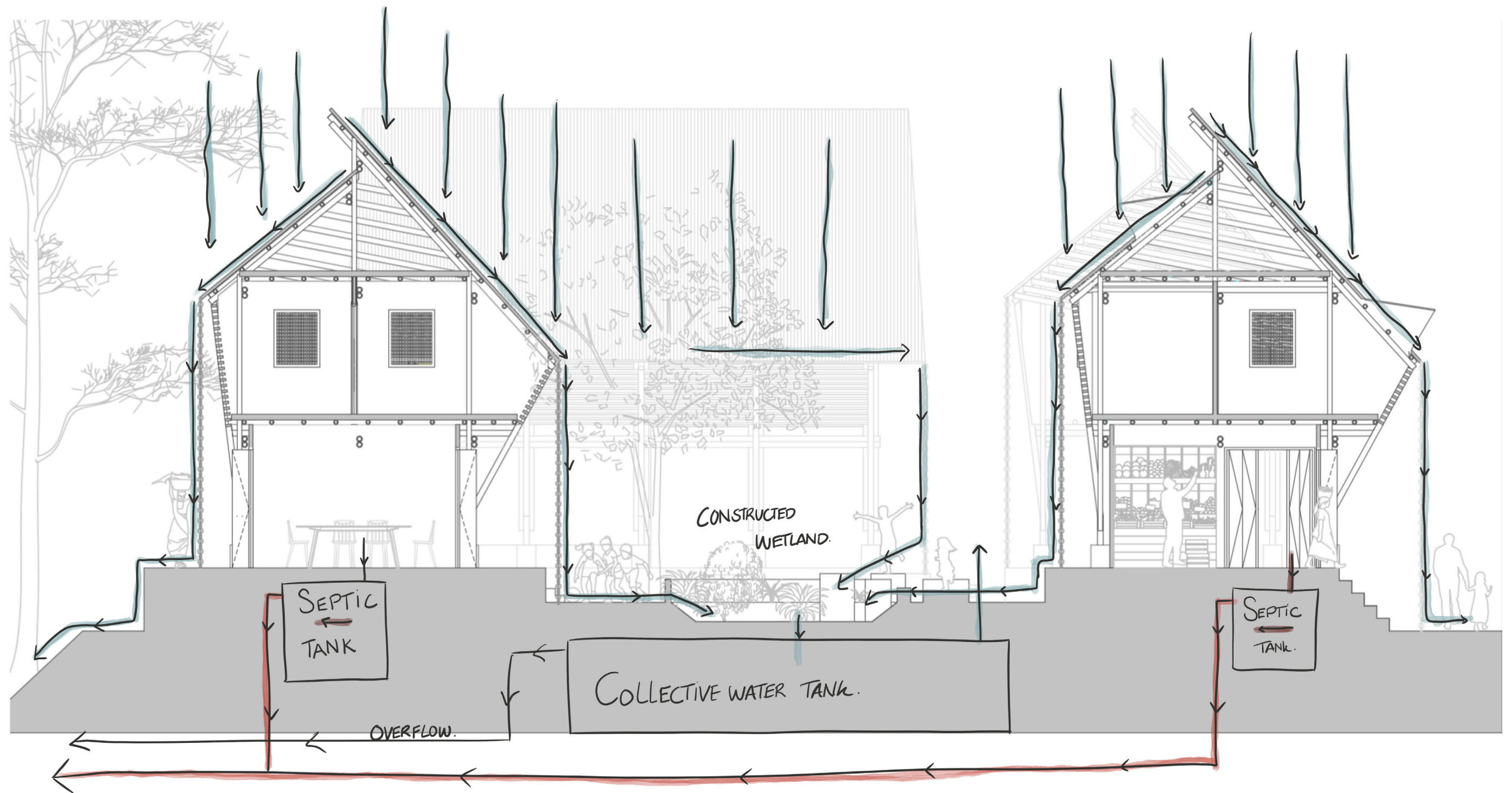
soccer
field

CLUSTER STRATEGY
START SCENARIO





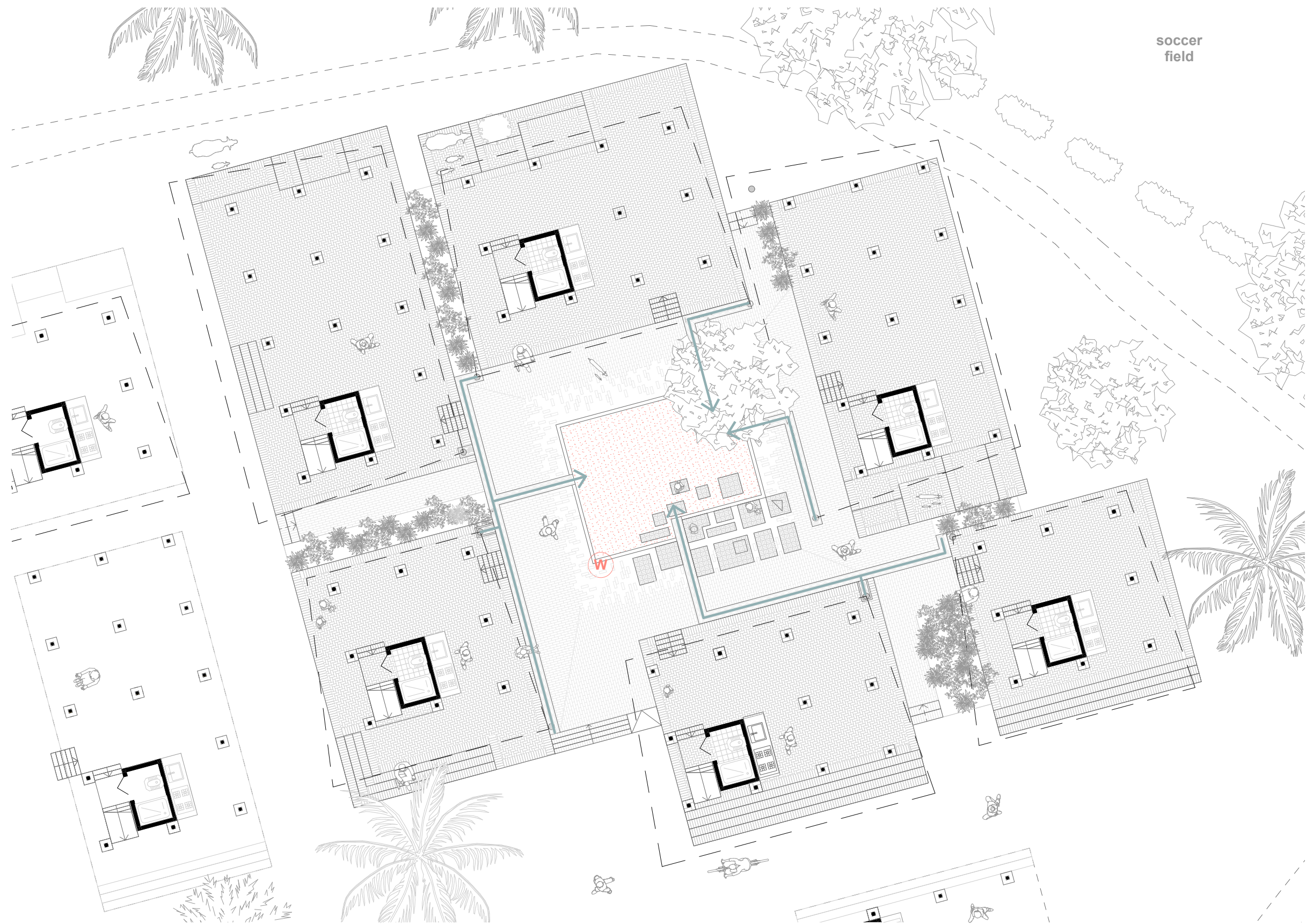


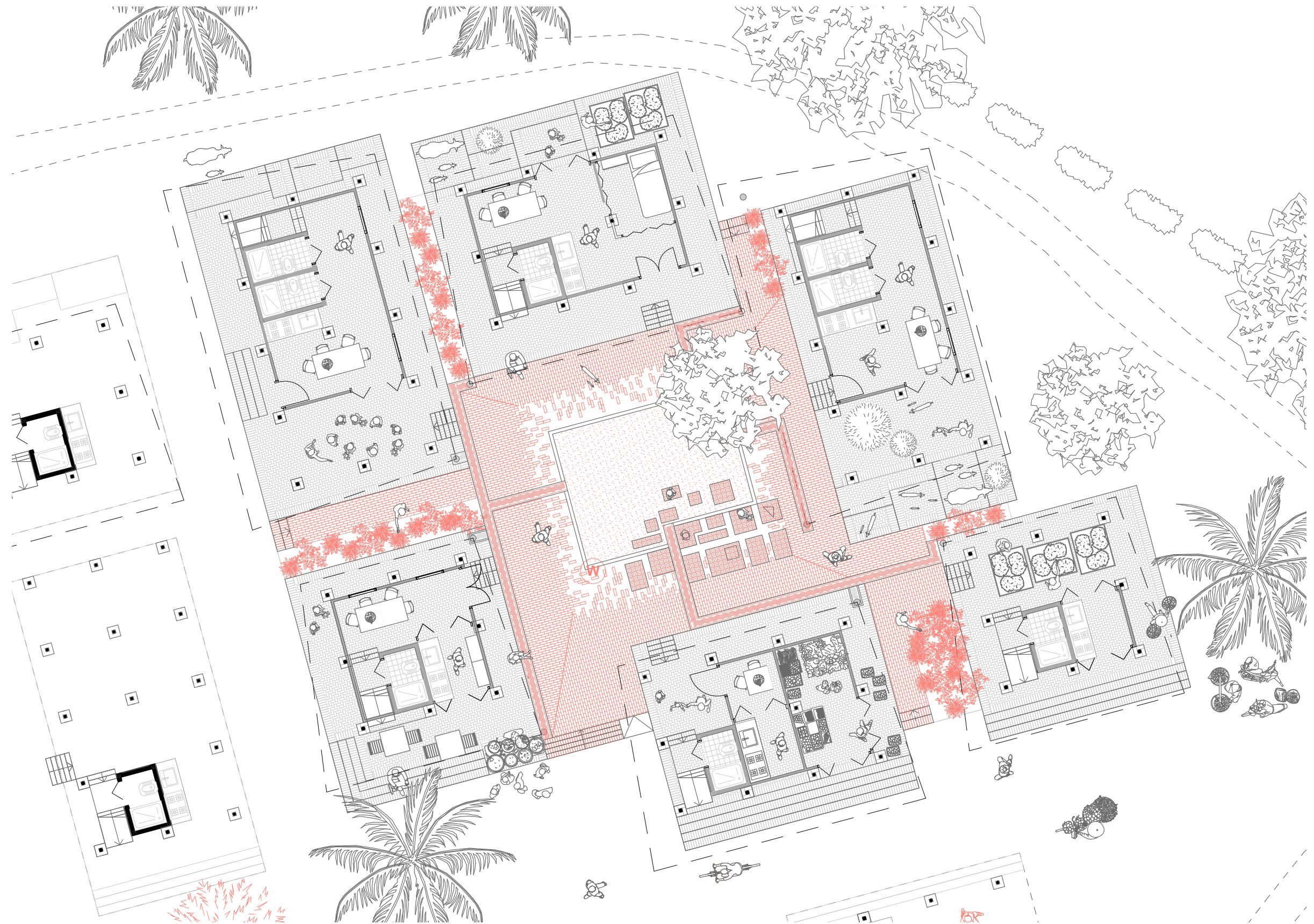


CLUSTER STRATEGY
WATER MANAGEMENT



CLUSTER STRATEGY
CONSTRUCTED WETLAND



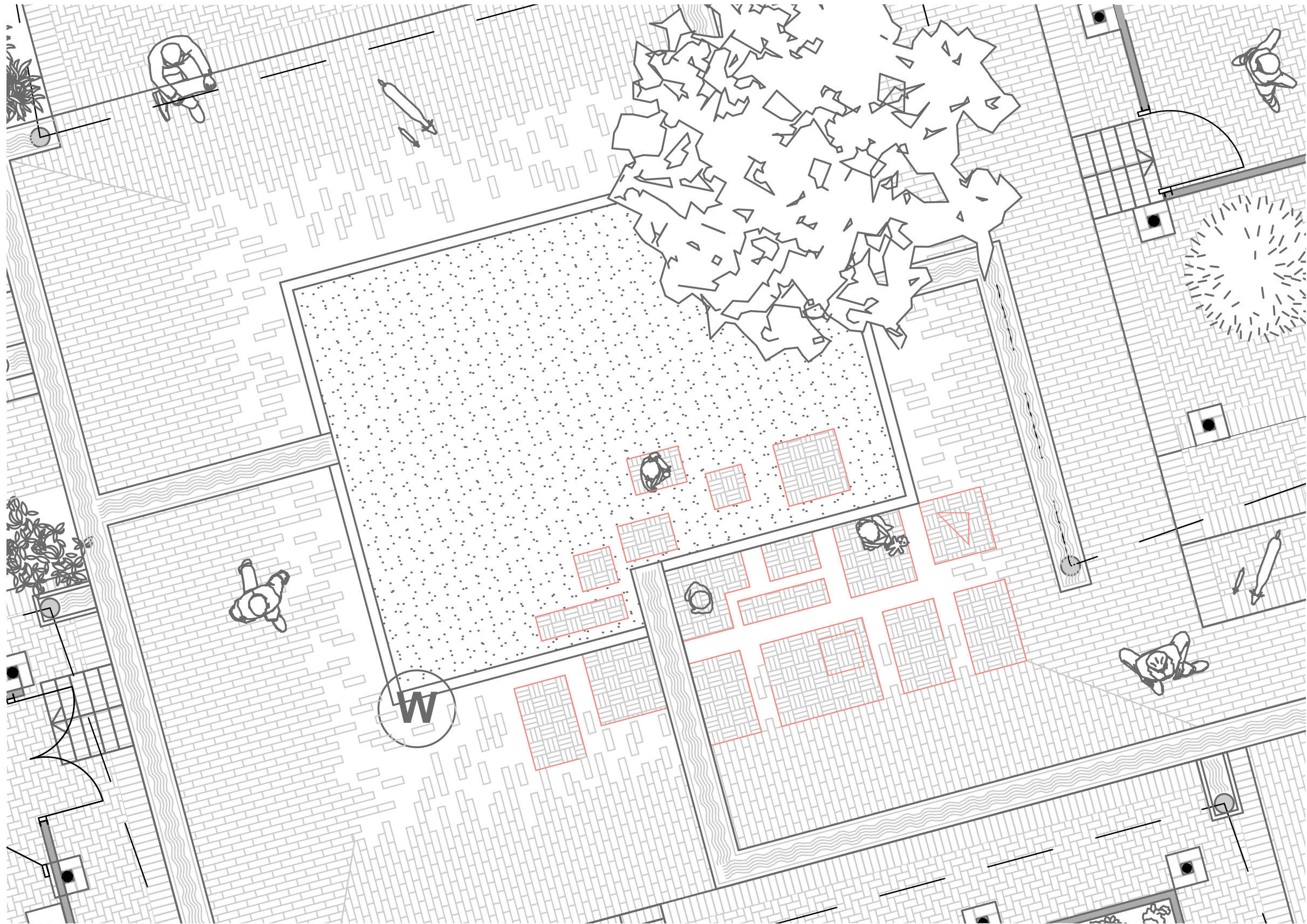




CLUSTER STRATEGY

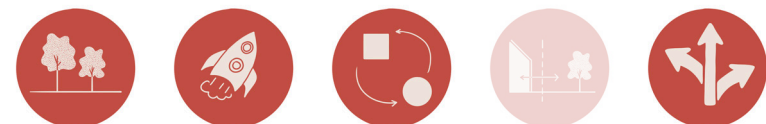
CLUSTER AS THE PLAYGROUND





CLUSTER STRATEGY

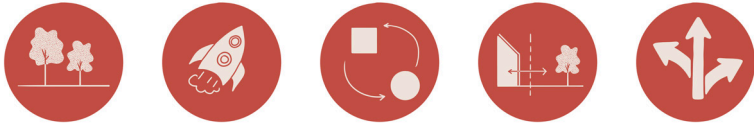
CLUSTER AS THE PLAYGROUND





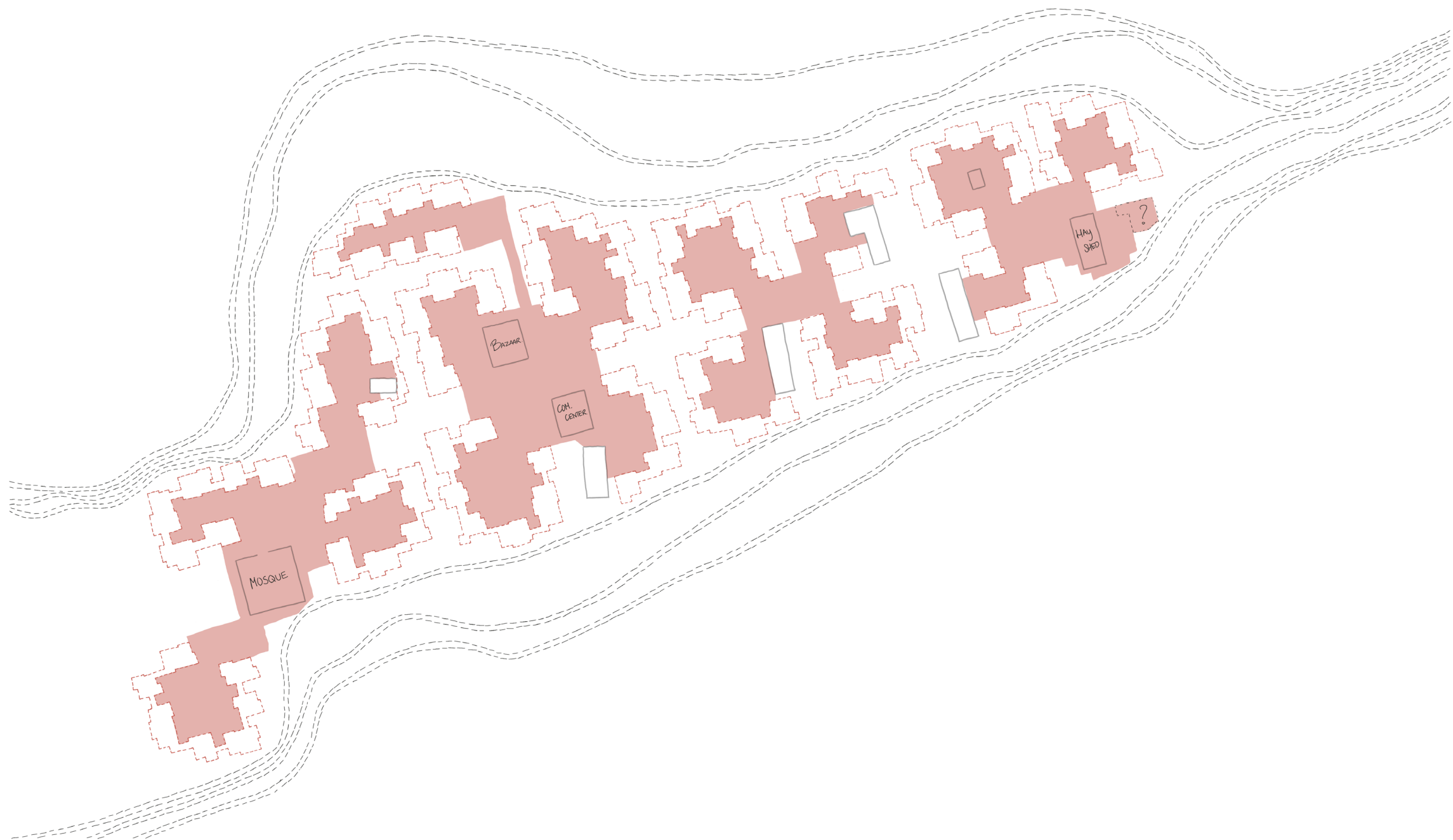
CLUSTER STRATEGY

CLUSTER AS THE PLAYGROUND



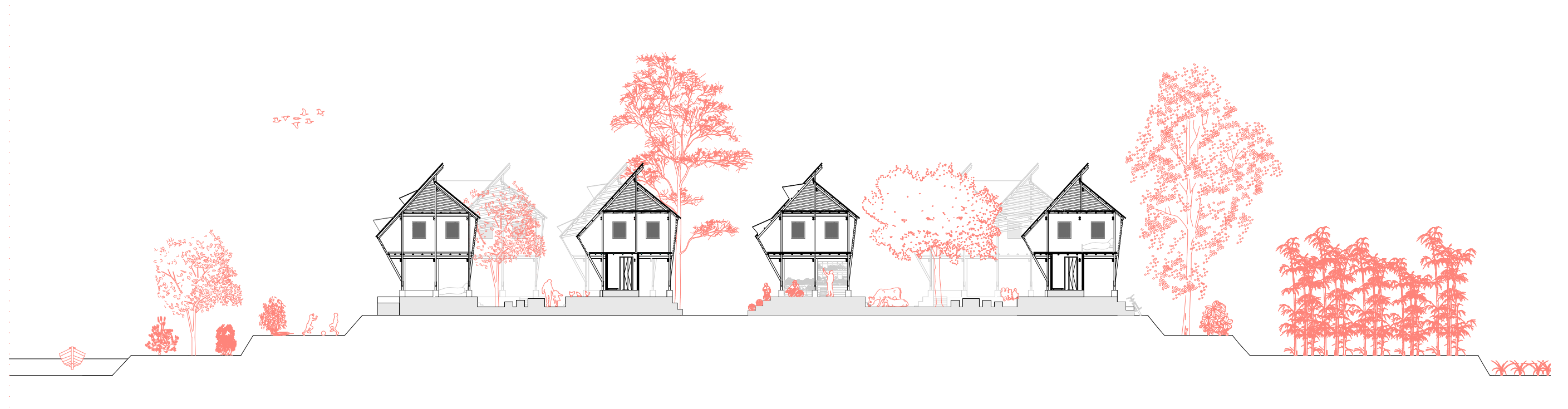


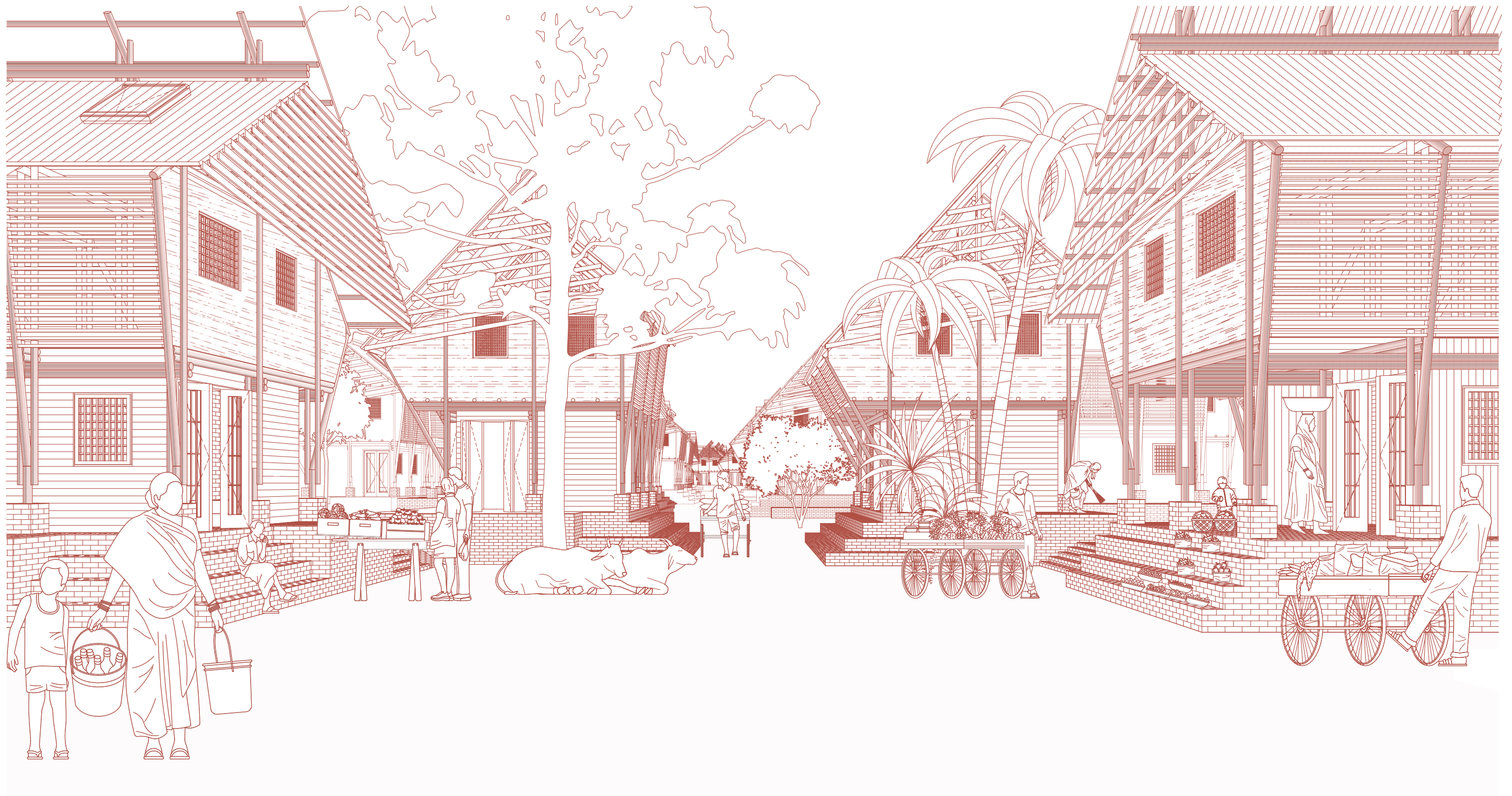
VILLAGE STRATEGY

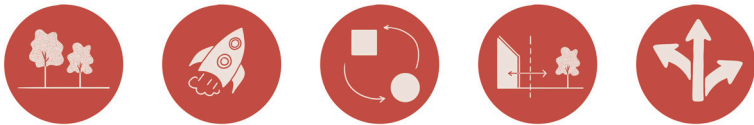














PLOT SIZE
11.329 m²

RESIDENTS
600

GSI
0,372

FSI
0,374

SPACE
5,2 m² per person



PLOT SIZE
11.329 m²

RESIDENTS
600

GSI
0,655

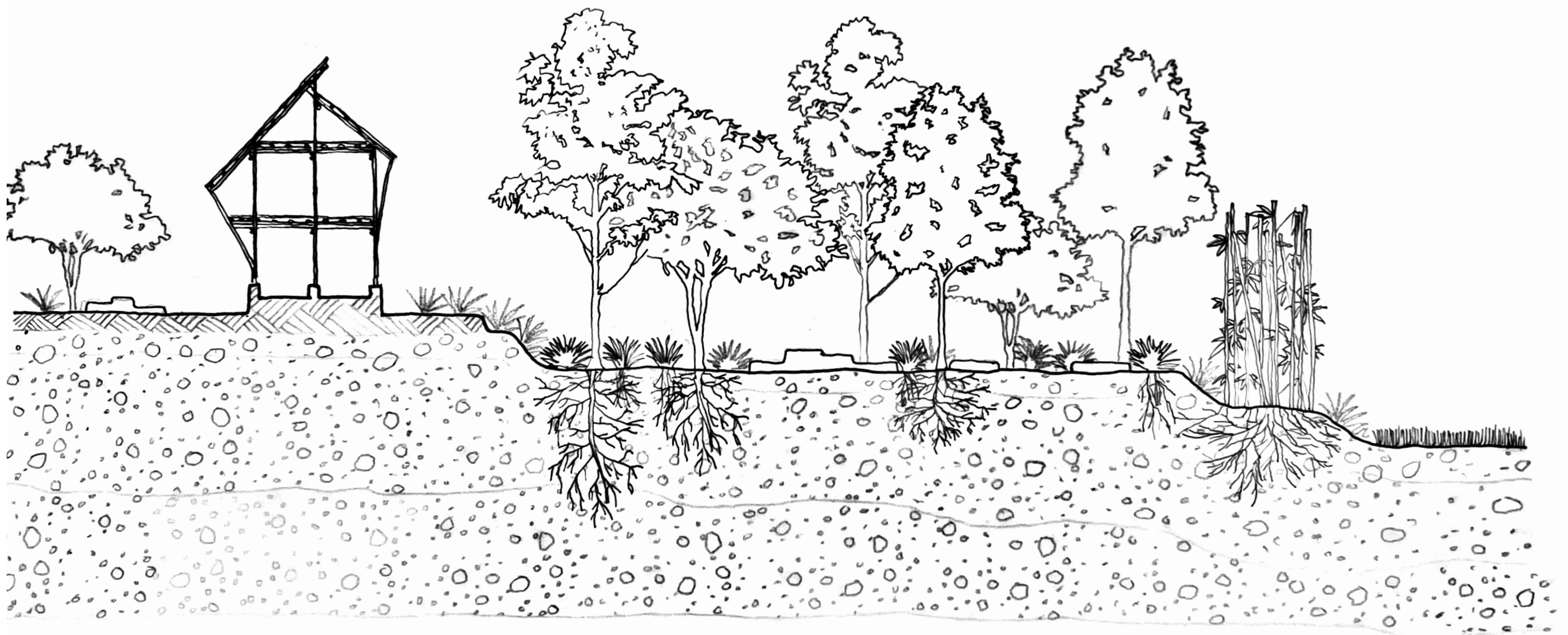
FSI-start
0,89

FSI-future
1,08

SPACE
10 m² per person



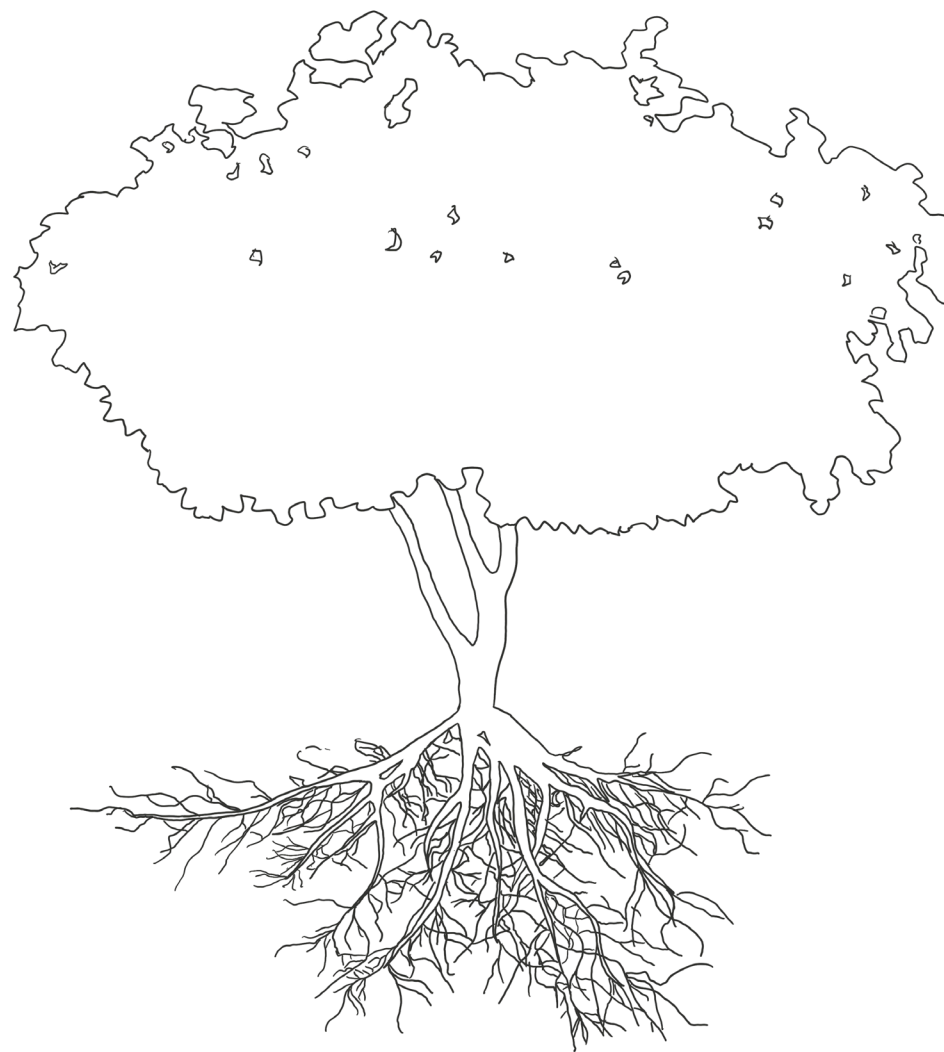
LANDSCAPE STRATEGY



LANDSCAPE STRATEGY

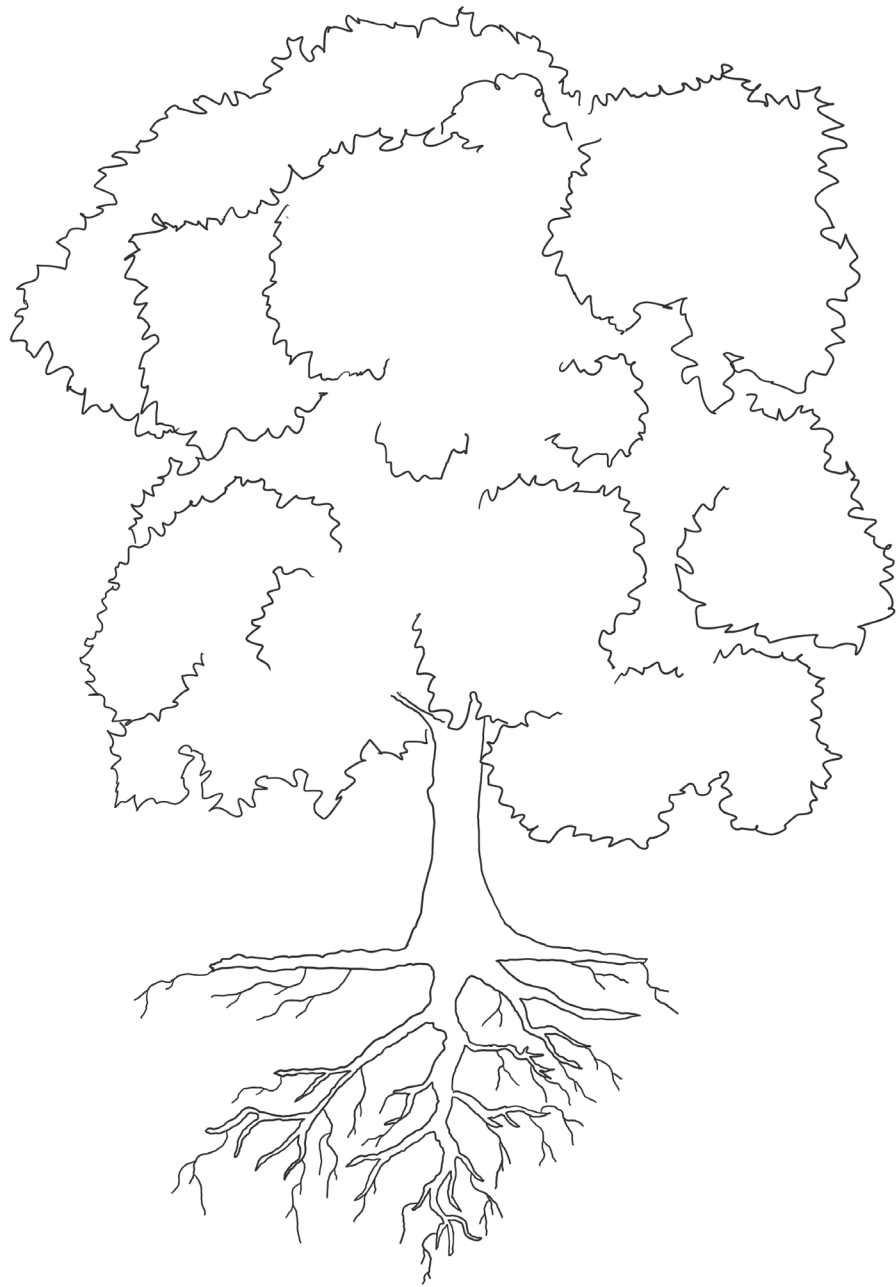
SOFT EMBANKMENT

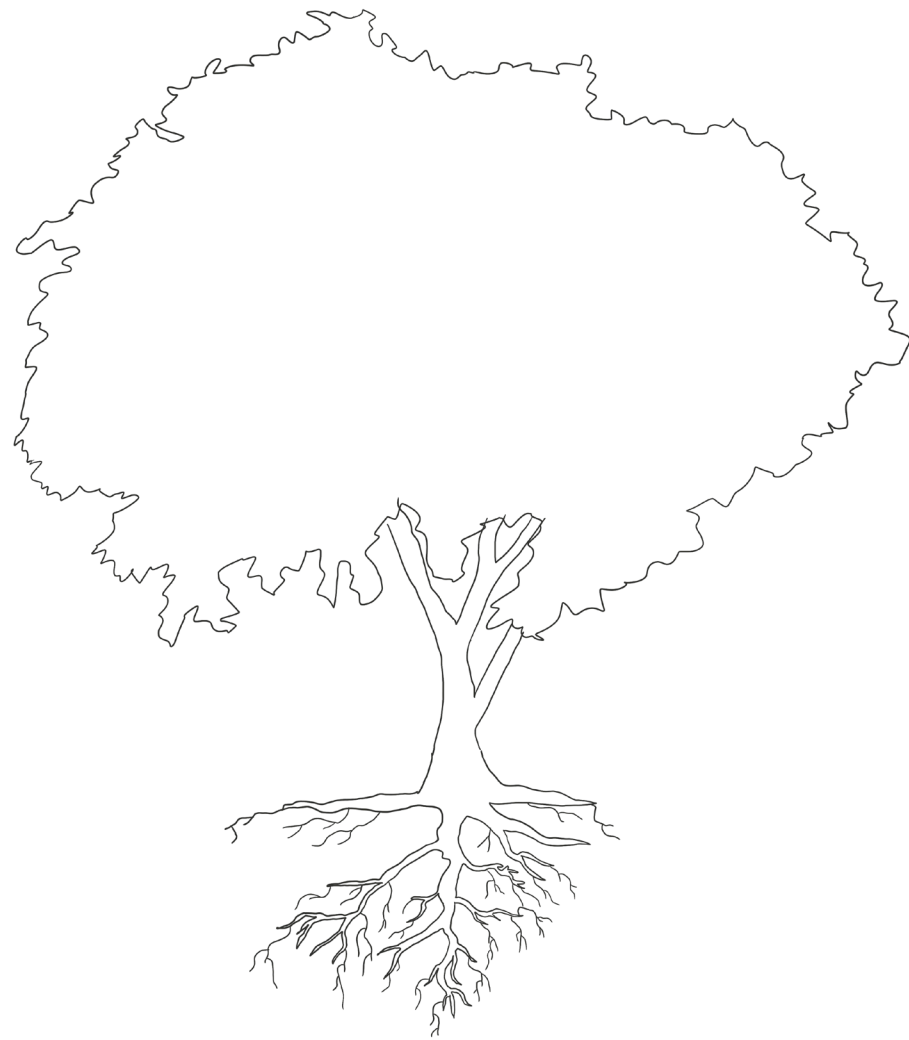




LANDSCAPE STRATEGY

VEGETATION - PONGAMIA PINNATTA

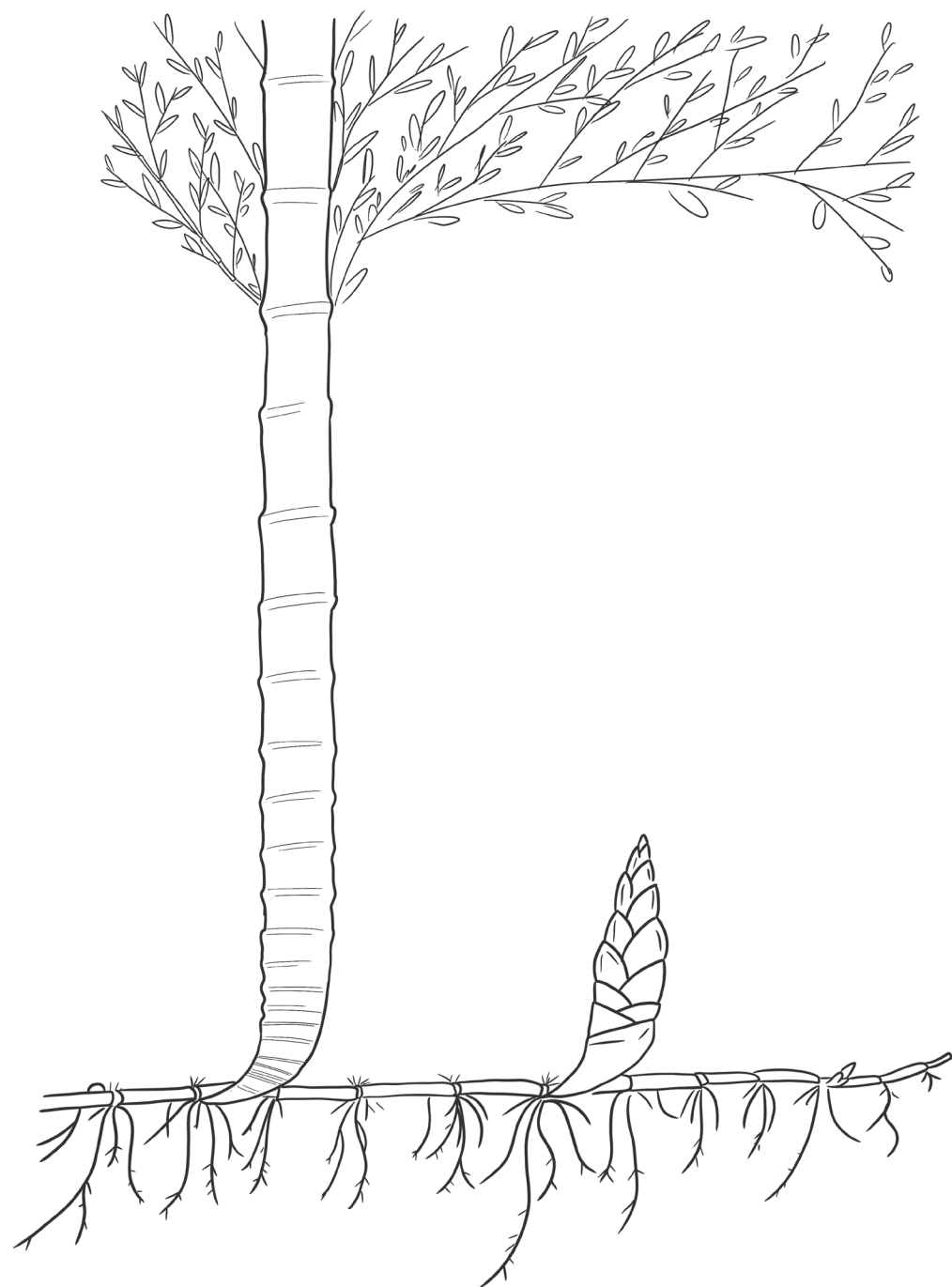






LANDSCAPE STRATEGY

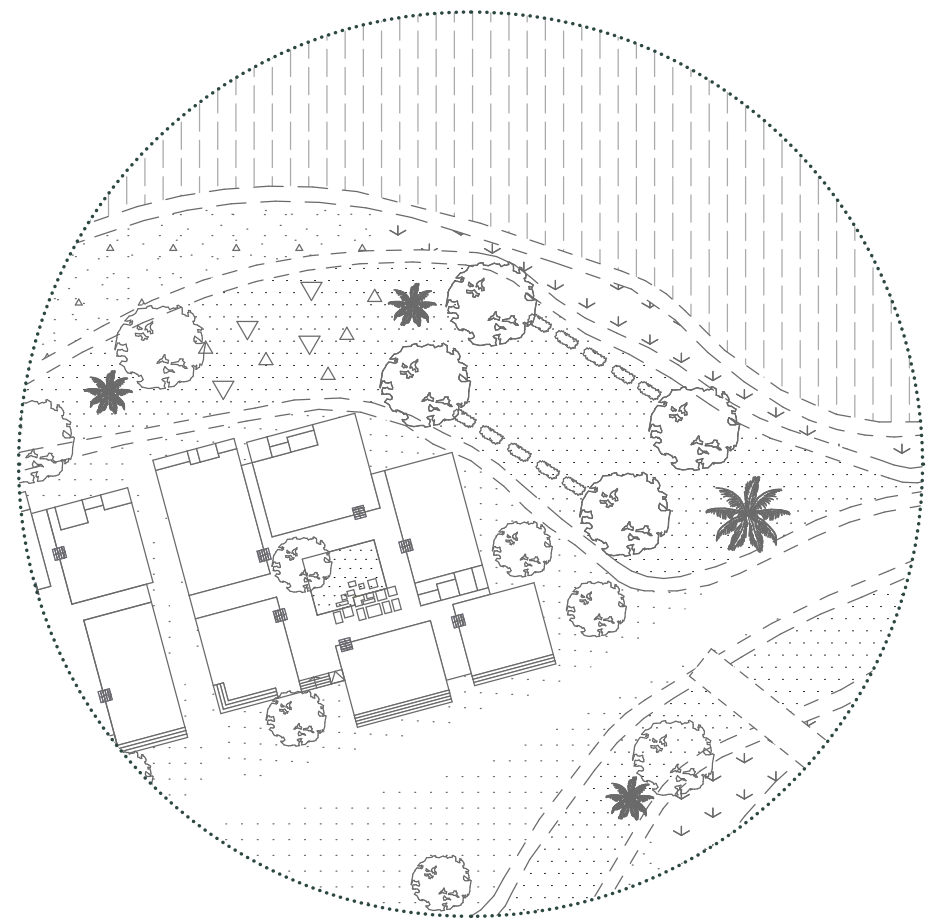
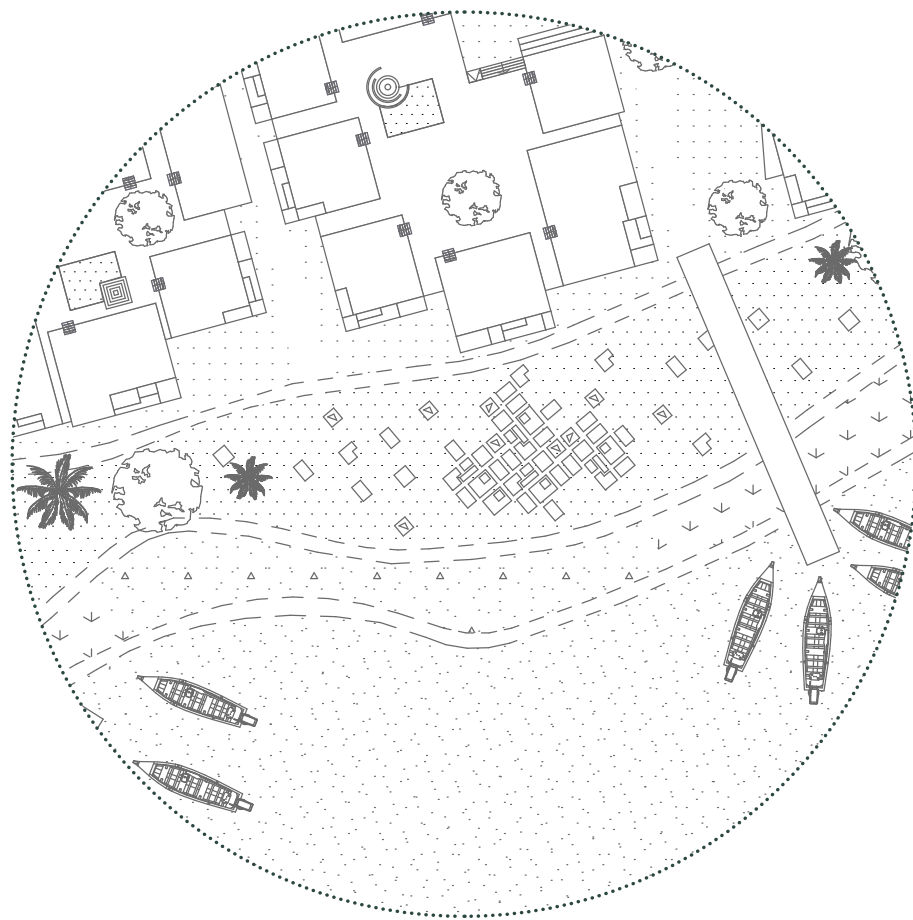
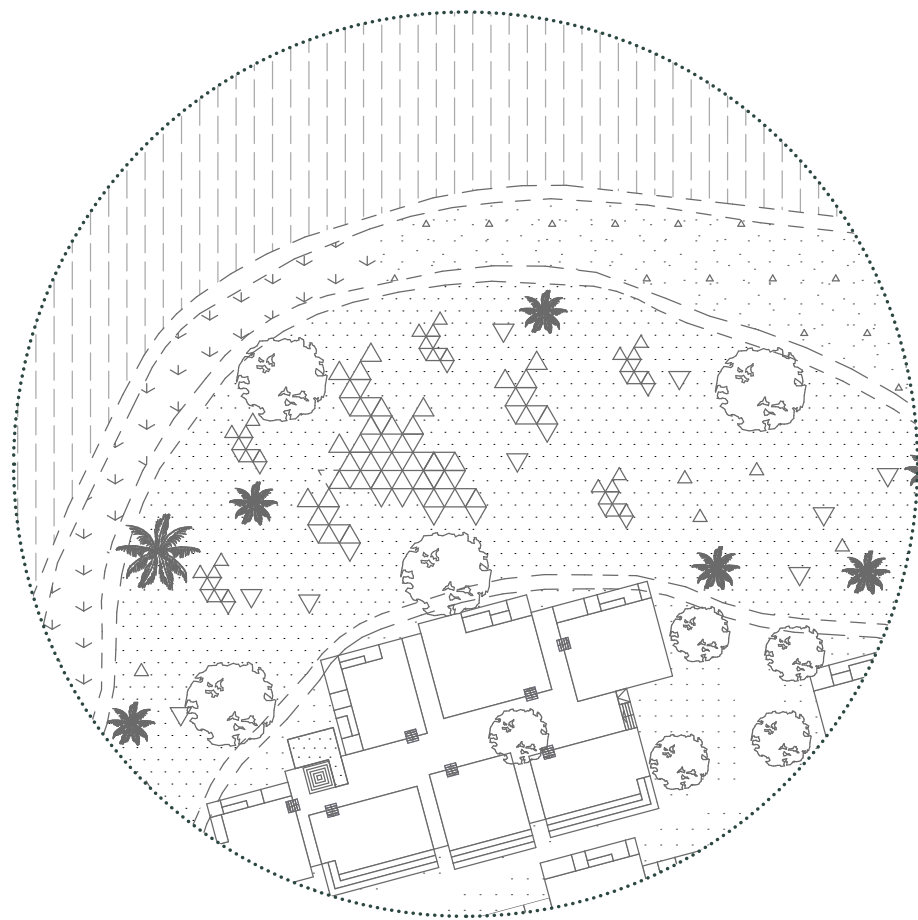
VEGETATION - VETIVER GRASS

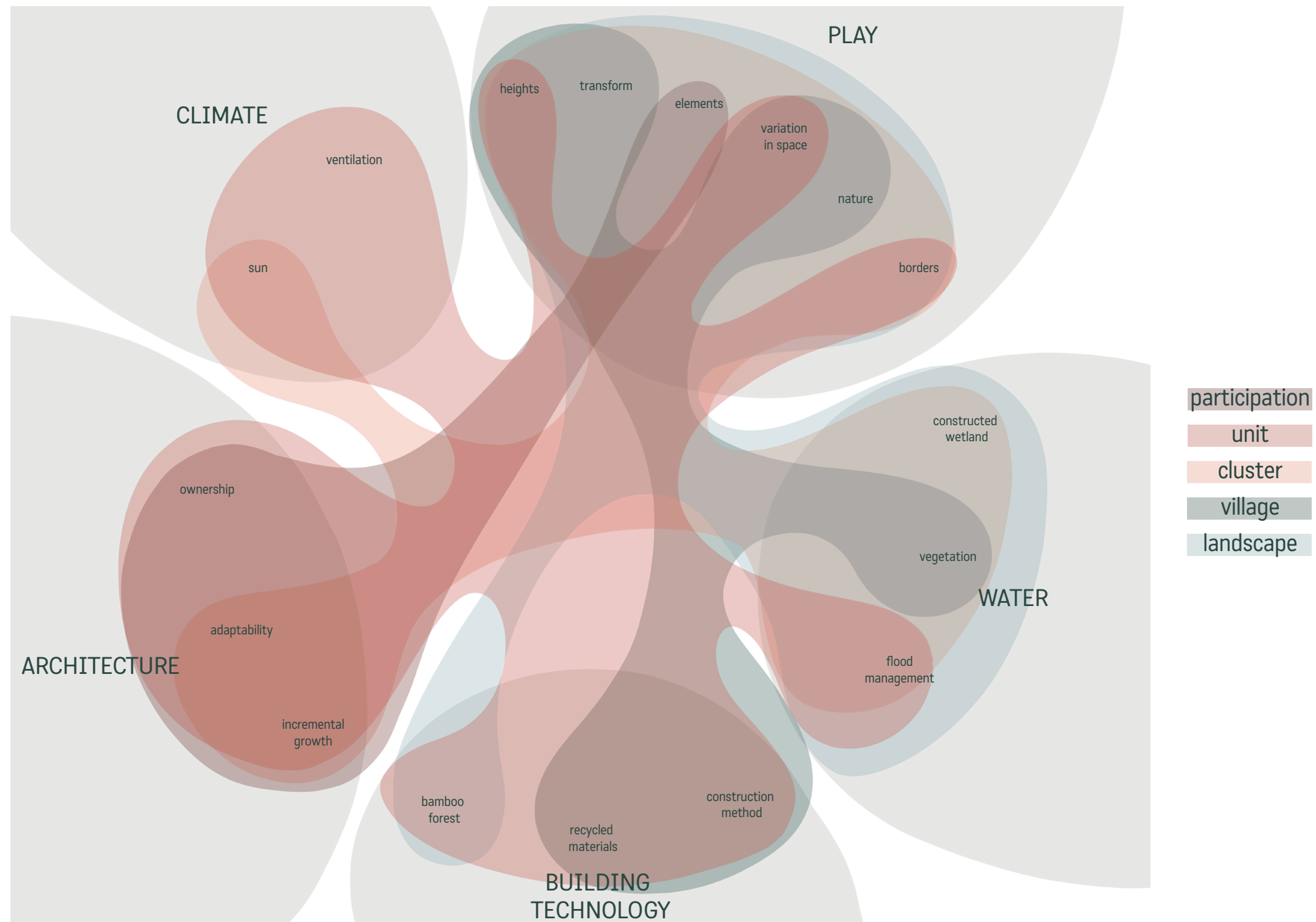


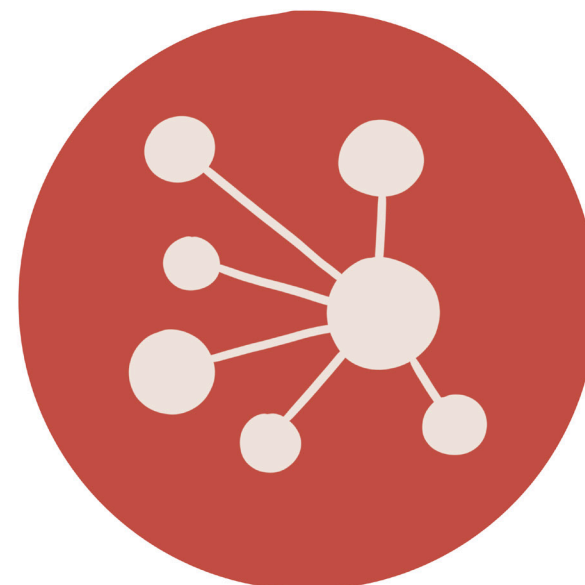
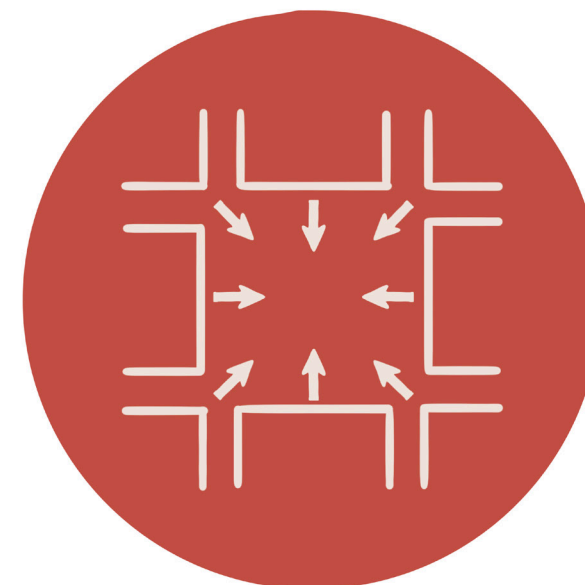
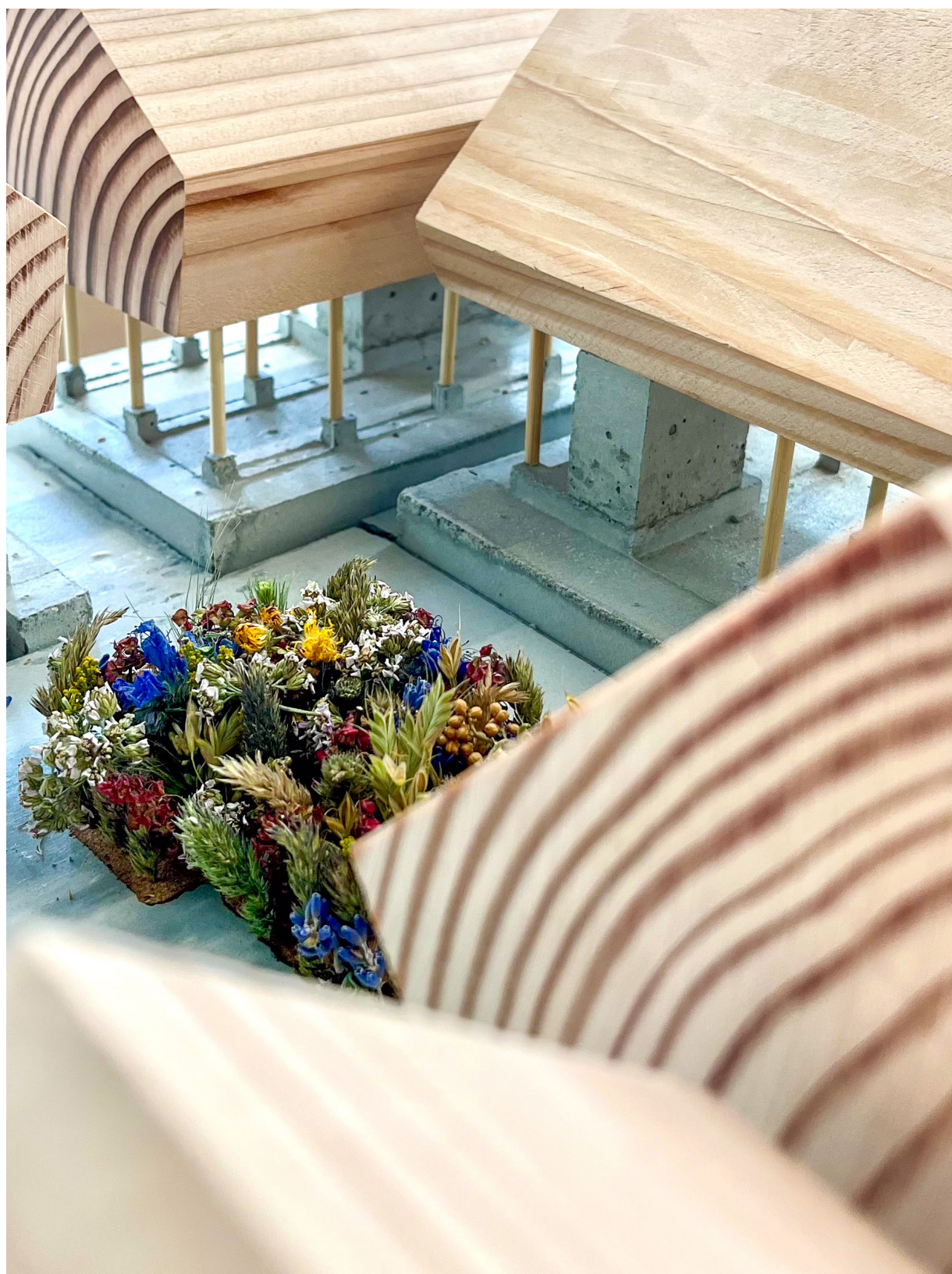


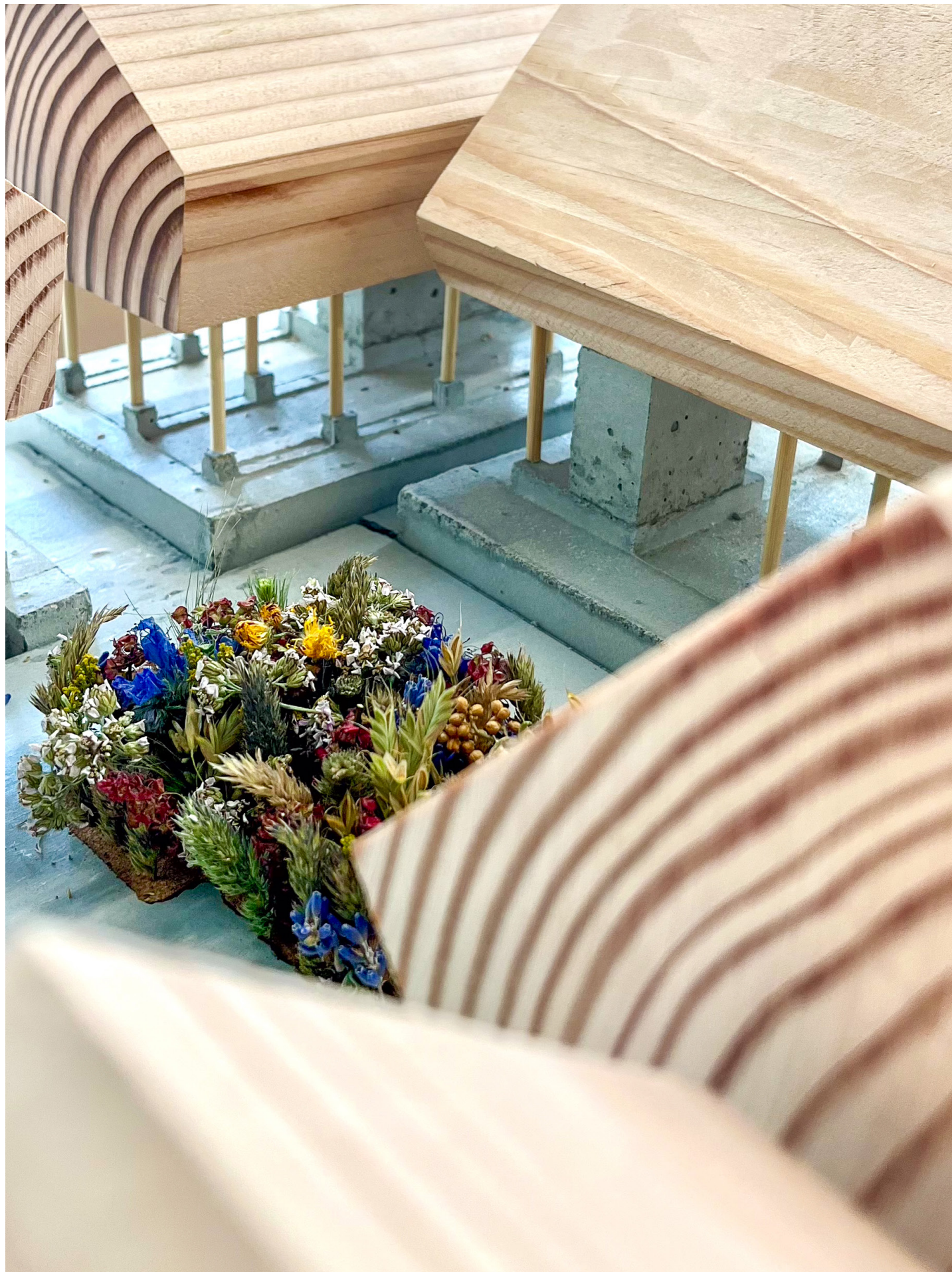
LANDSCAPE STRATEGY
LANDSCAPE PLAN











BEYOND THE RIPPLE

SASCHA ALBADA JELGERSMA

A holistic approach to flood-resilient, trauma-healing, and low-cost housing design