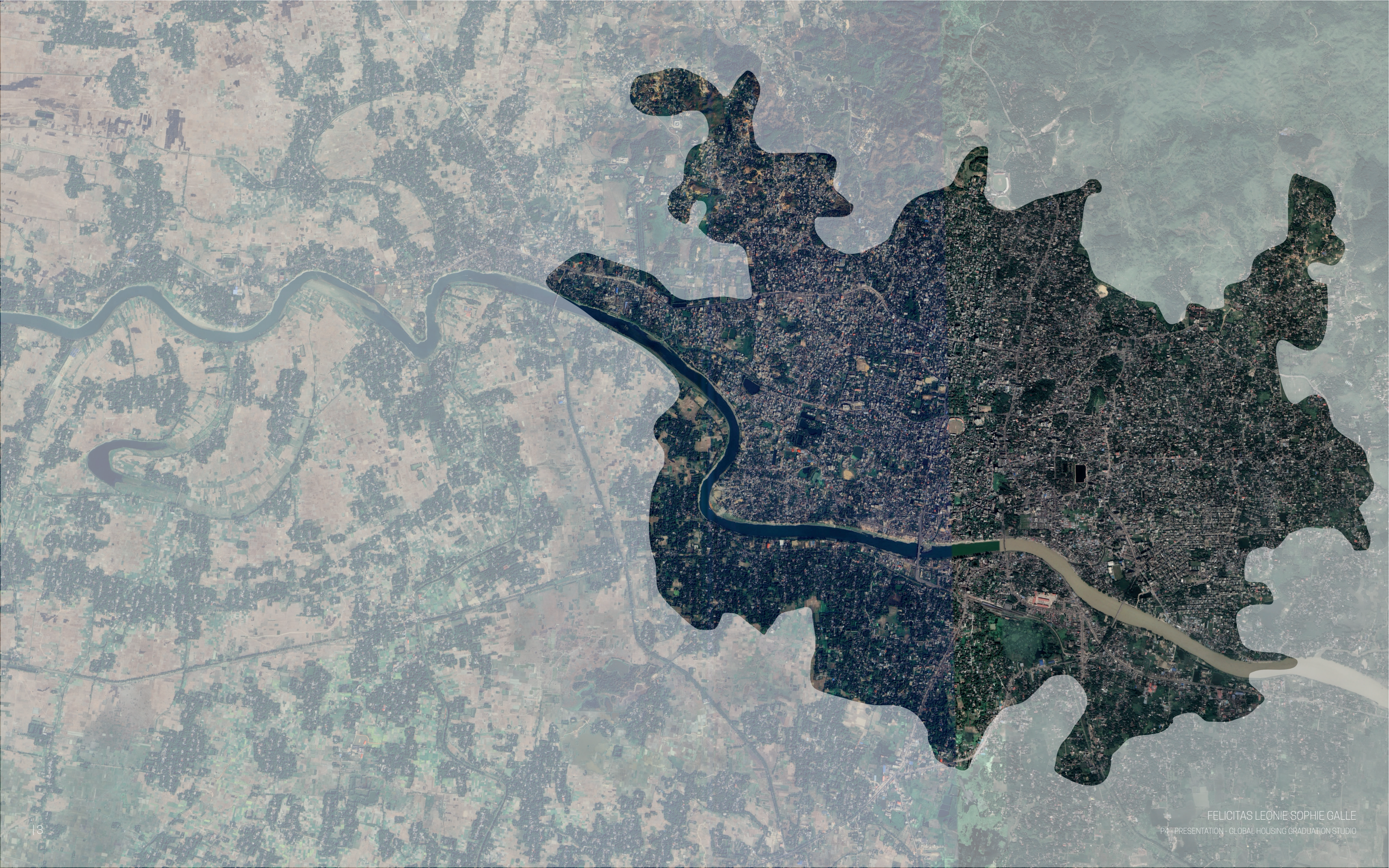


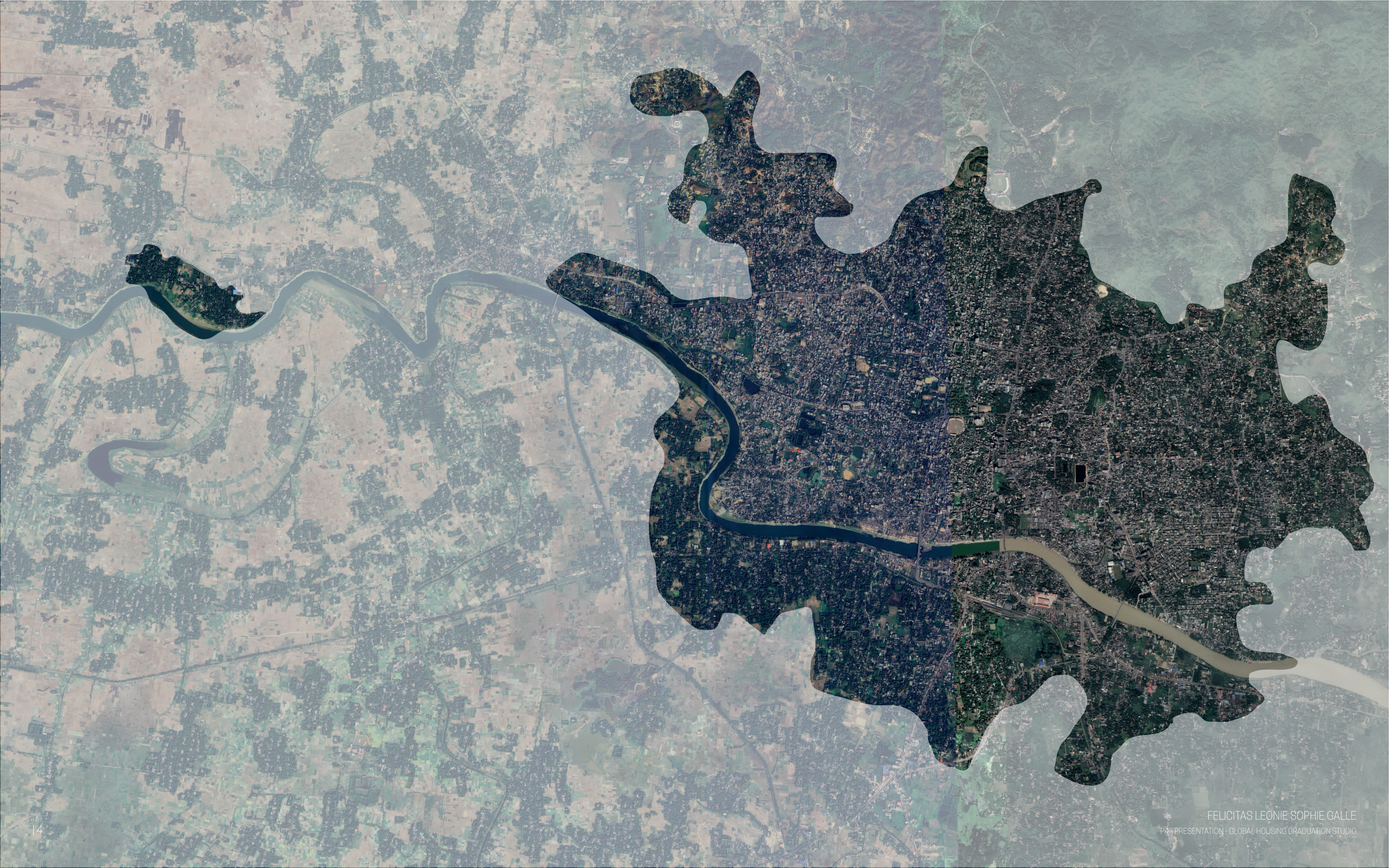


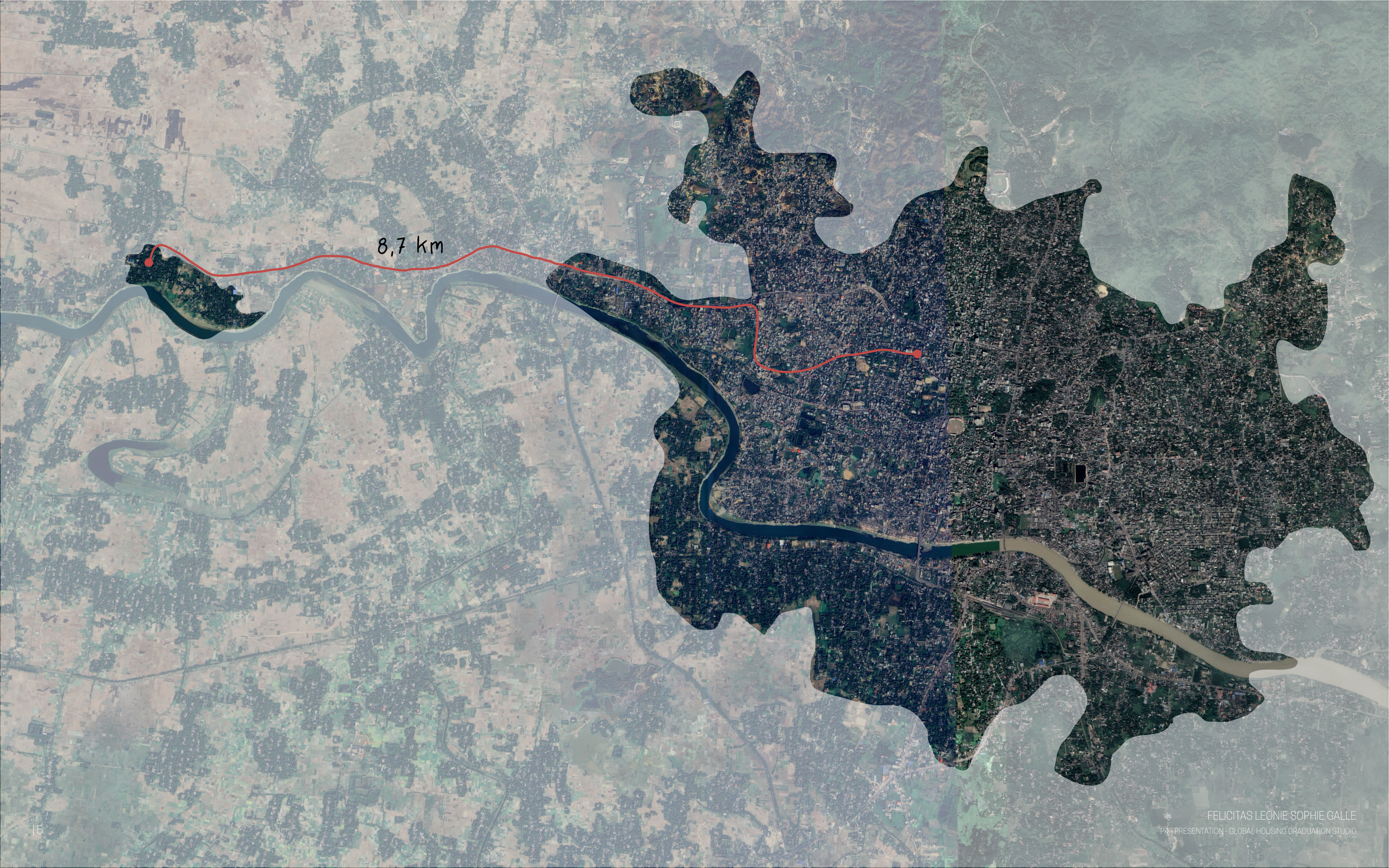
TRANSITION

a sustainable blueprint for Bolawaras urban evolution









8,7 km













FARMERS



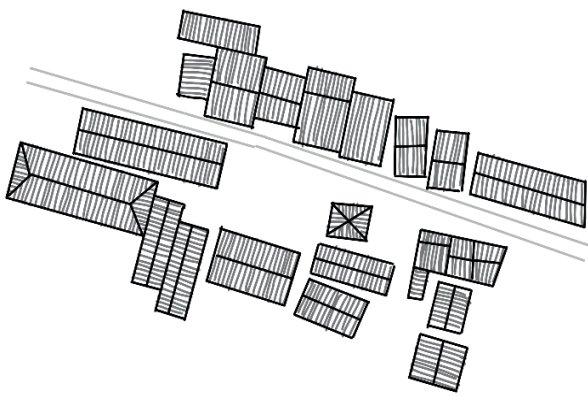
CHILDREN



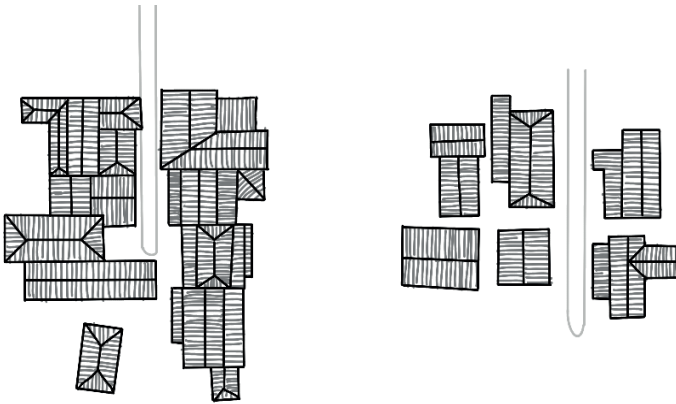
SMALL BUSINESS OWNERS



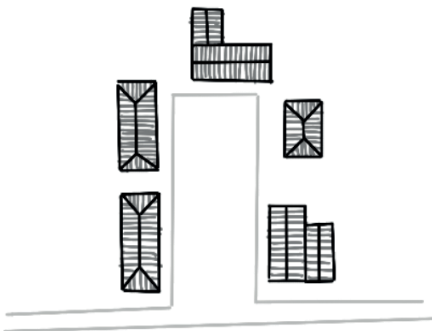
WOMEN



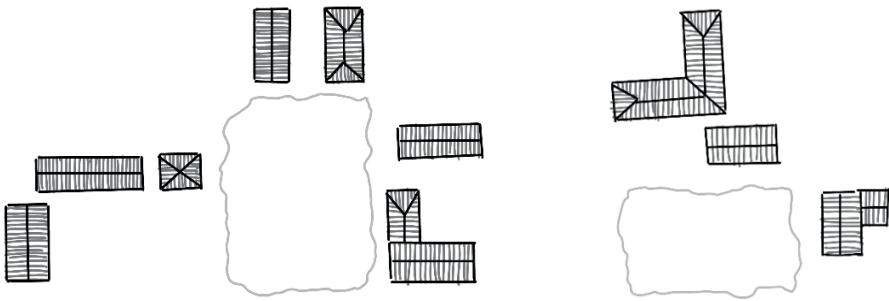
STREET



DEAD END



COURTYARD



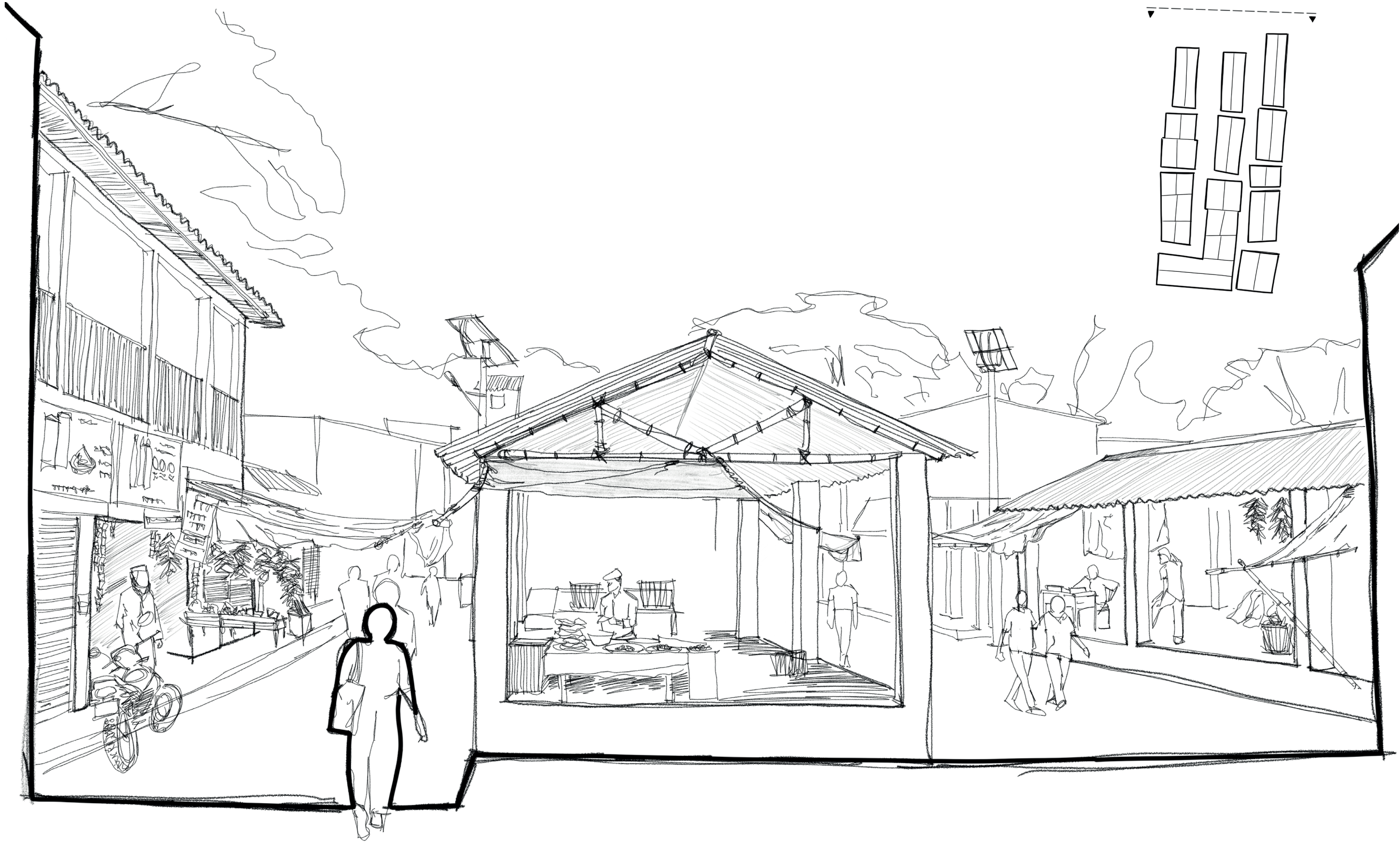
POND















PALM LEAVES



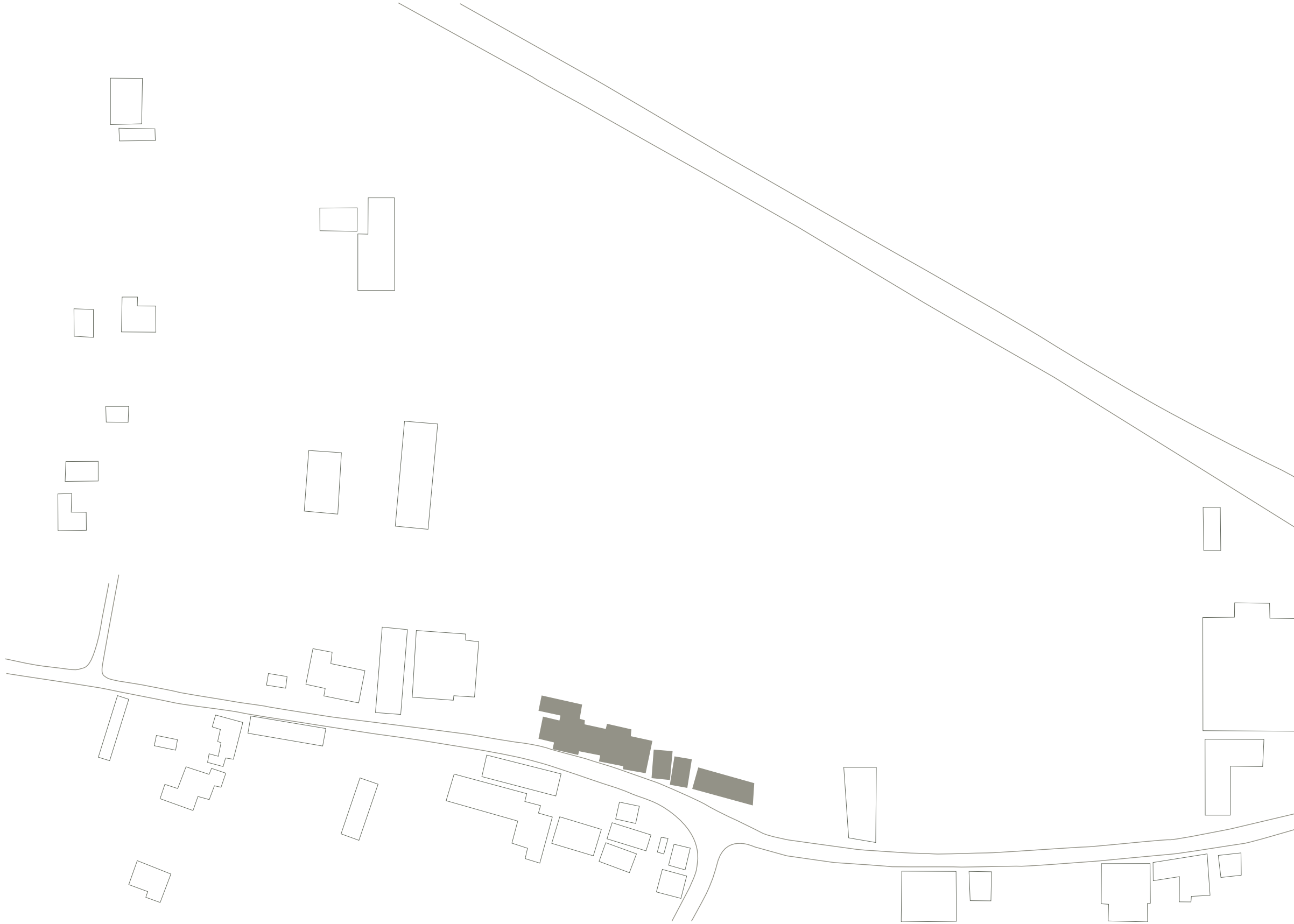
PLASTIC SHEETS

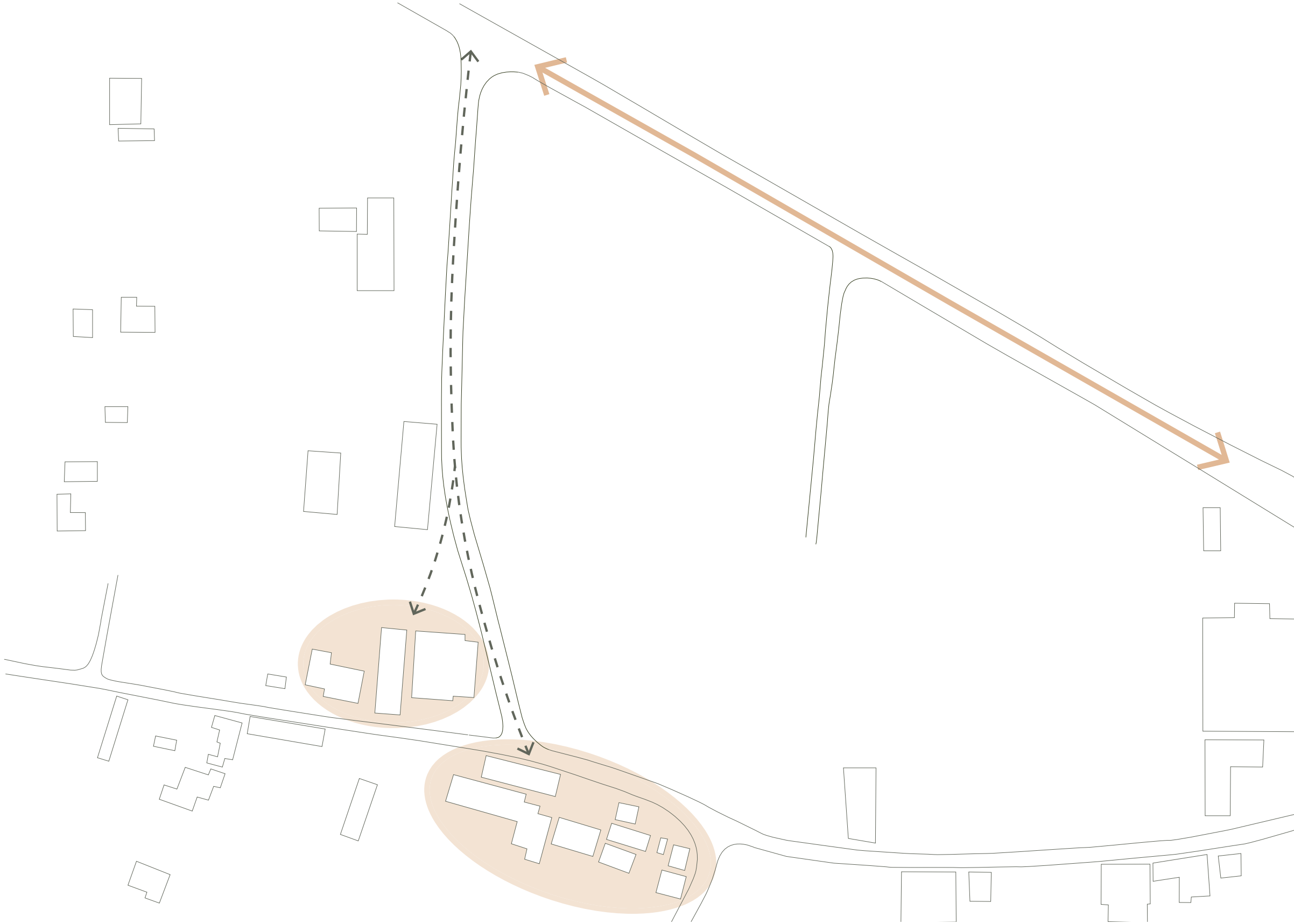


TEXTILES







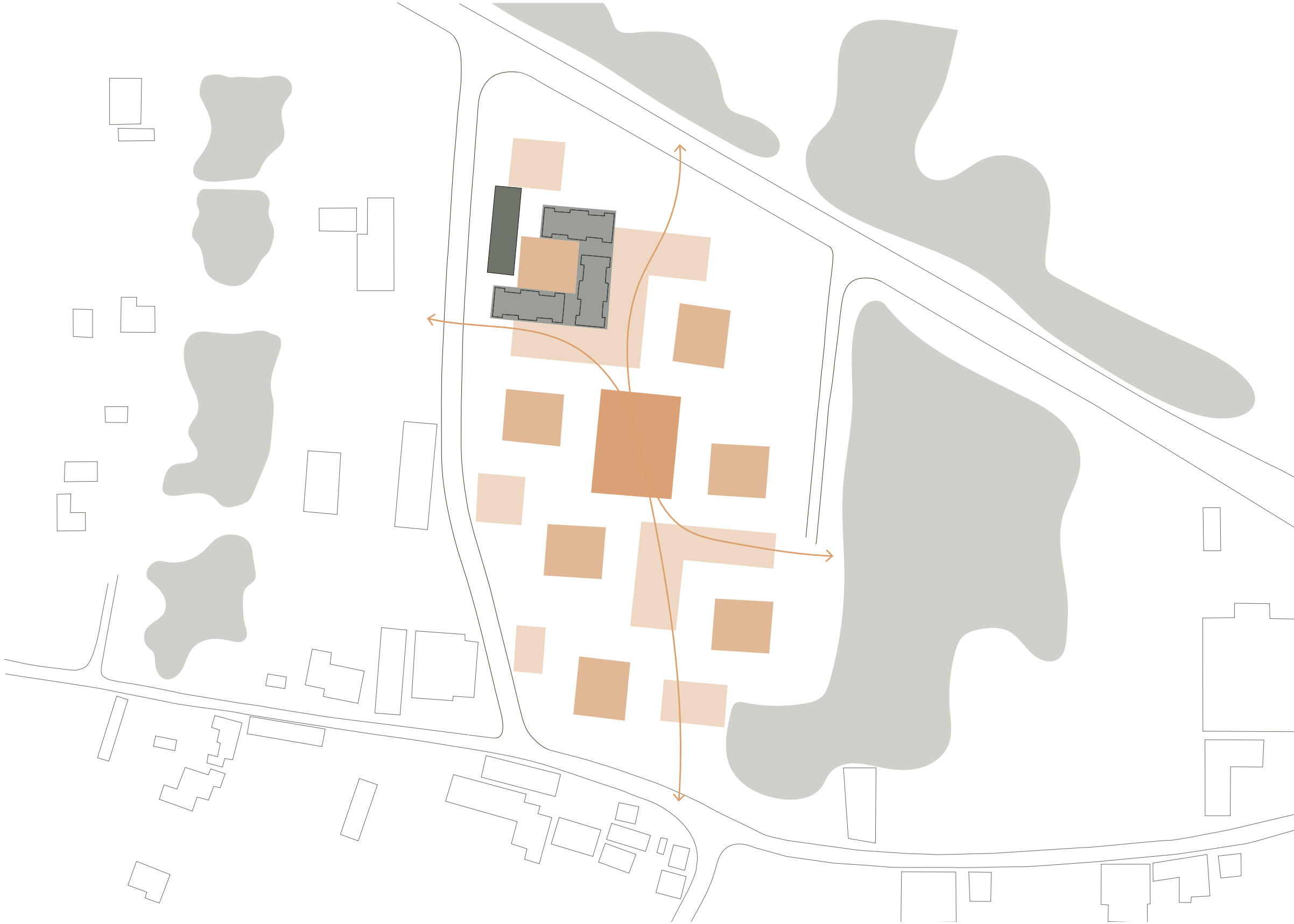


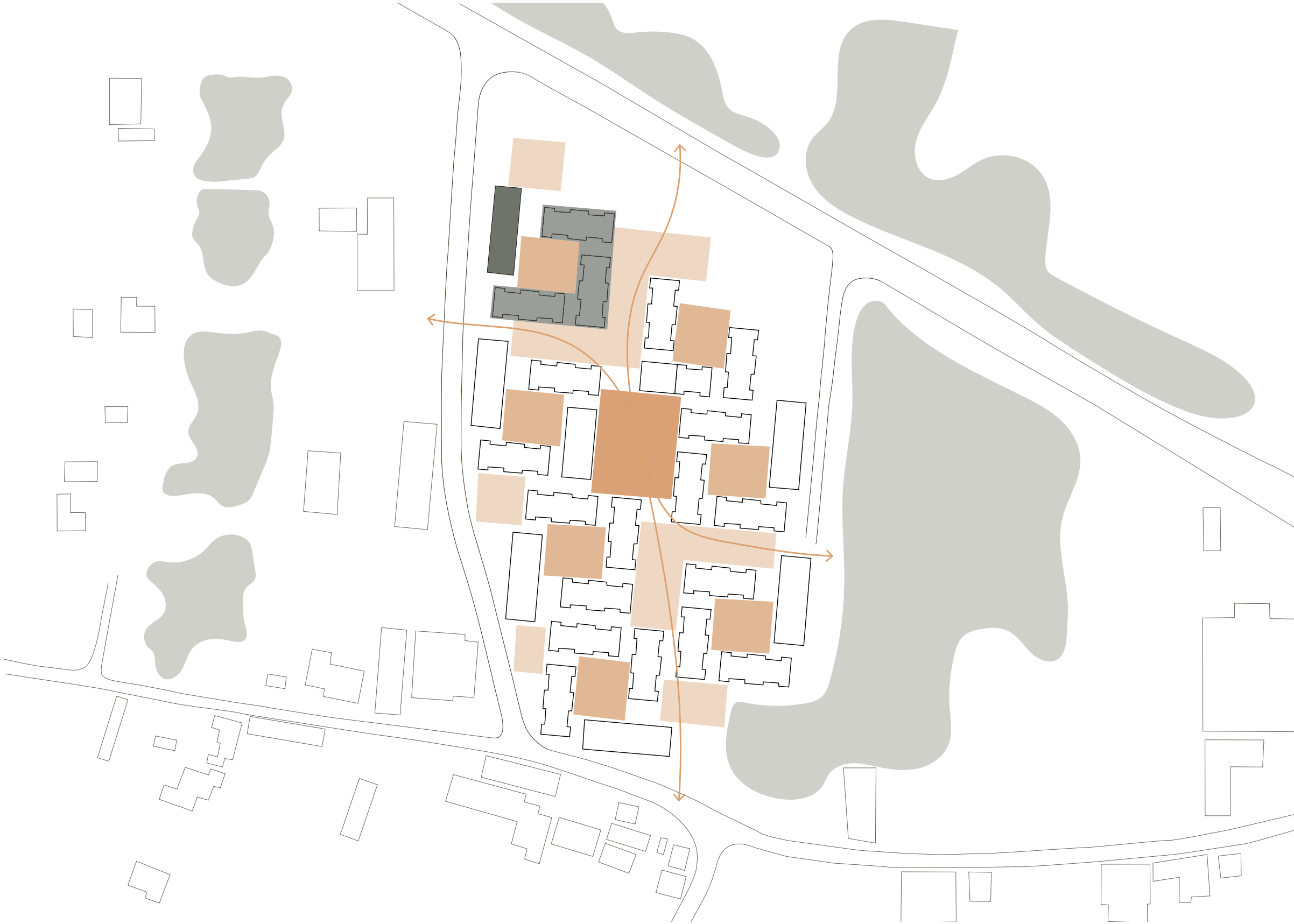




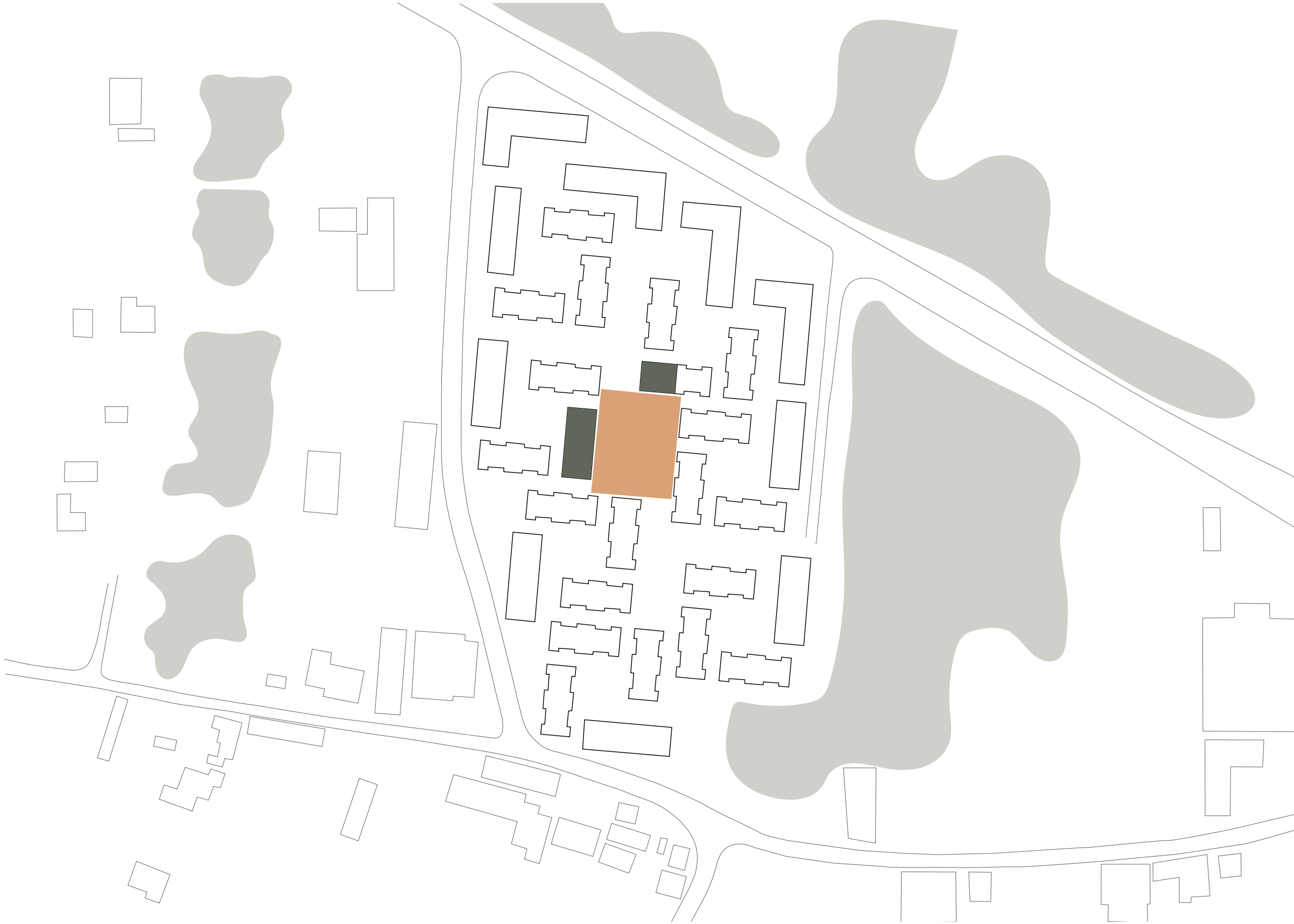




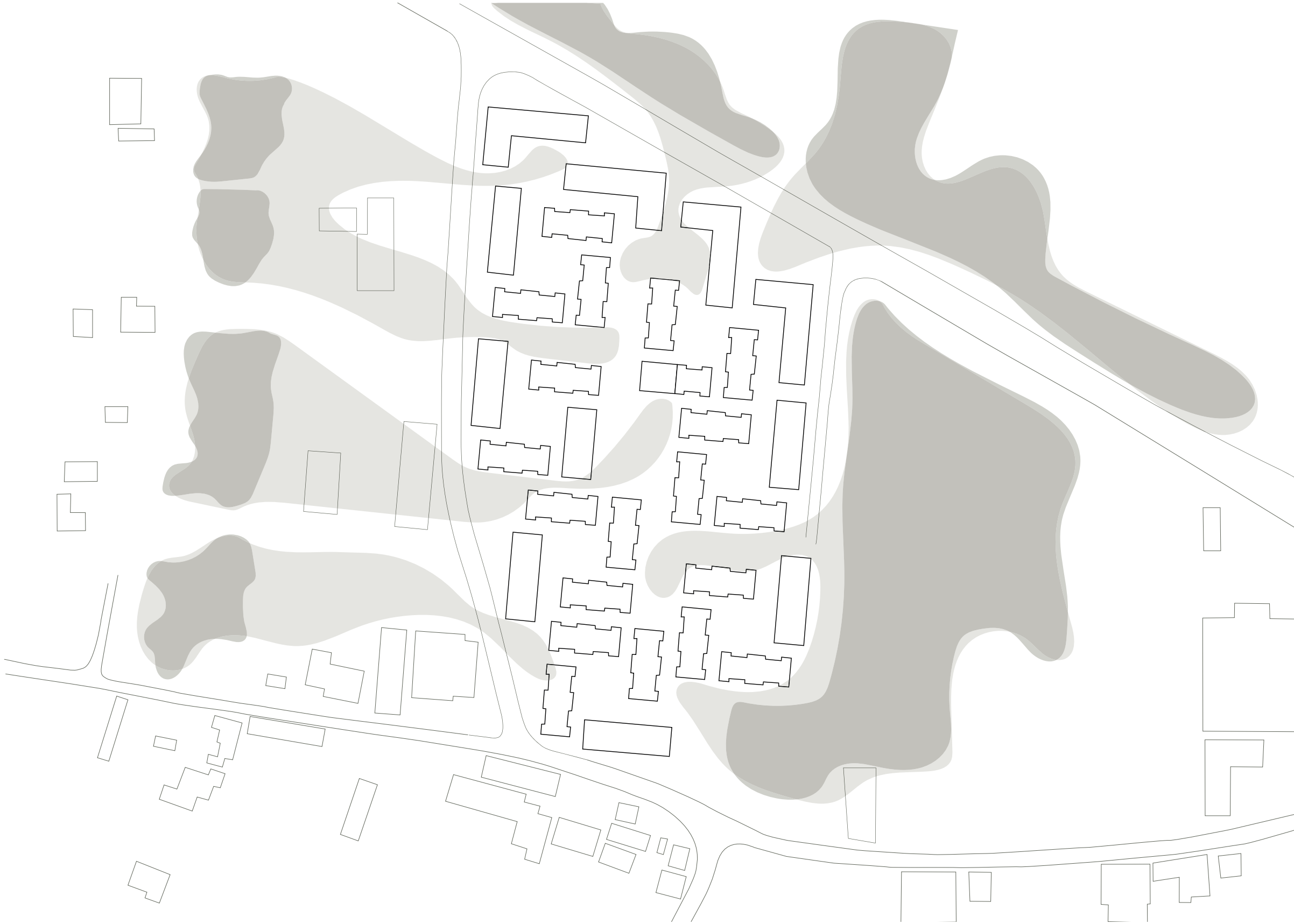






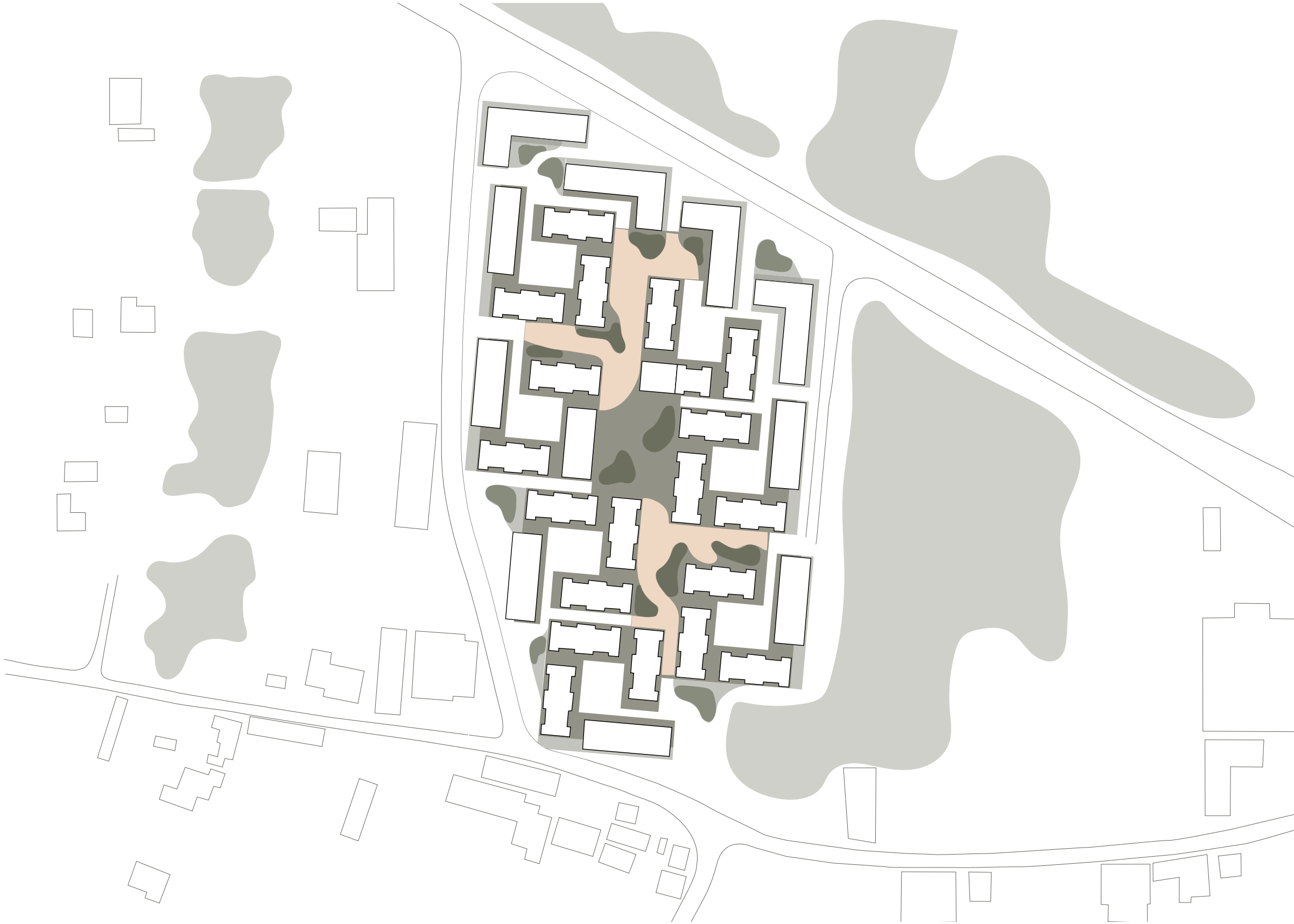




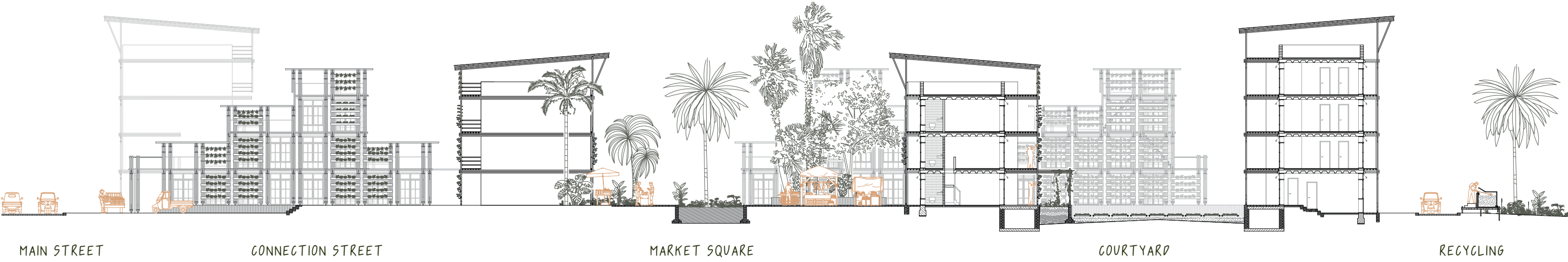






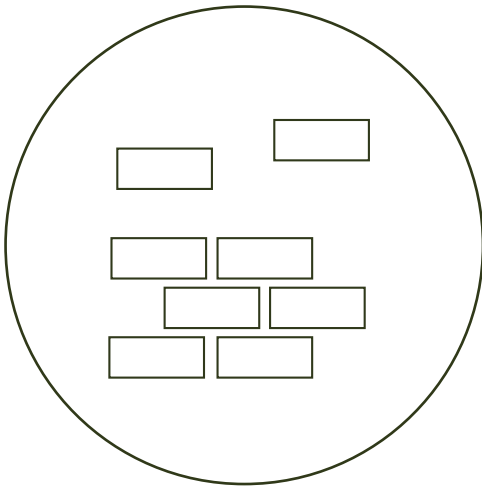






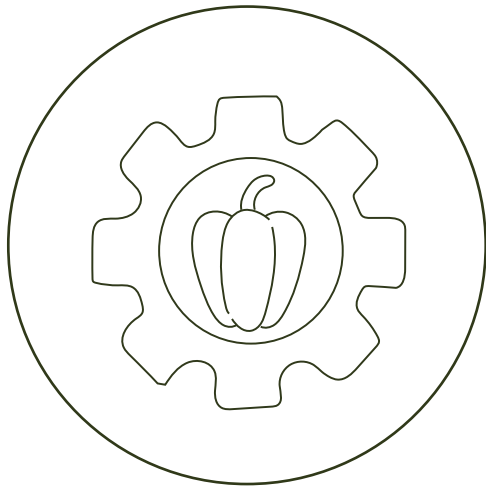


INCREMENTALITY



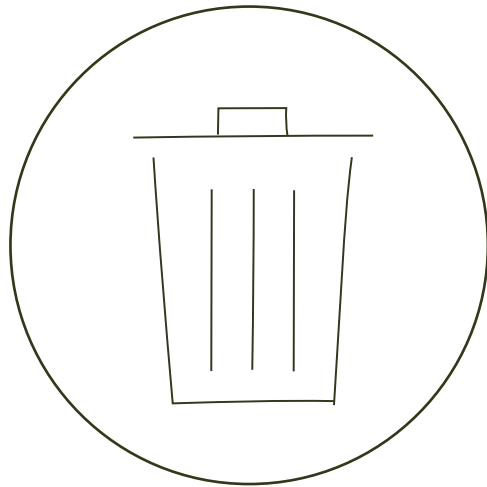
GROWTH

FOOD PRODUCTION



FLOATING FARMS
VERTICAL FARMS

WASTE MANAGEMENT

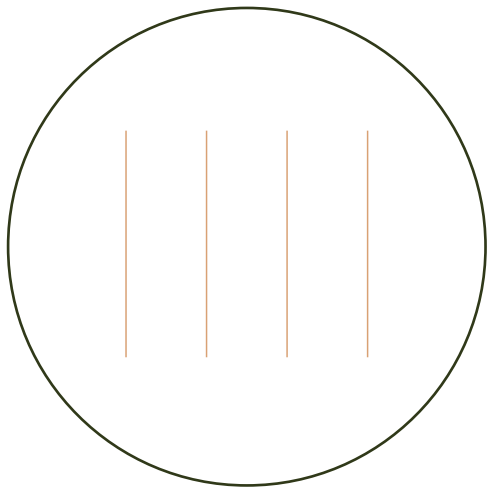


COMPOSTING
RECYCLING

STRONG CORE - LIGHT SKIN

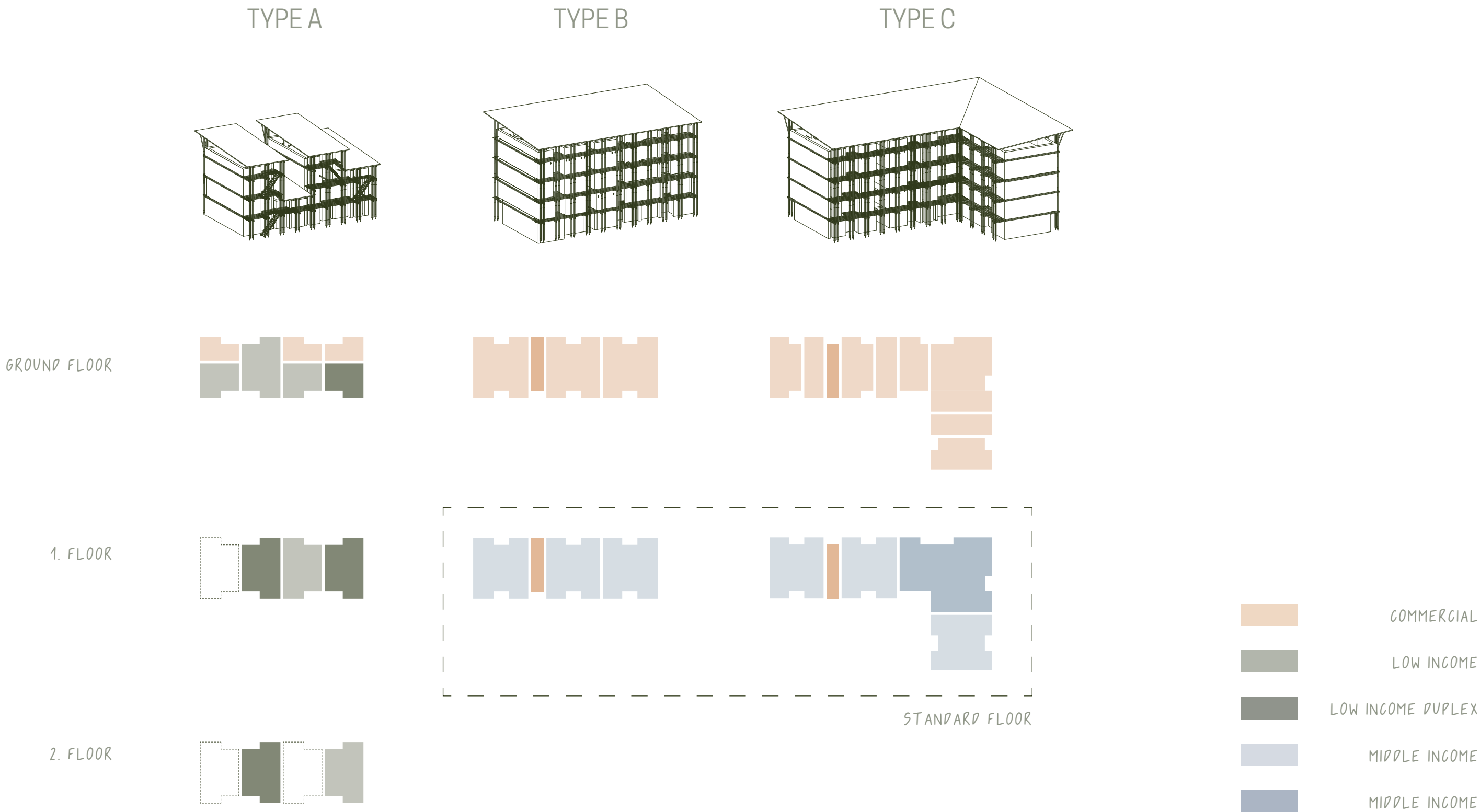


GRID SIZE

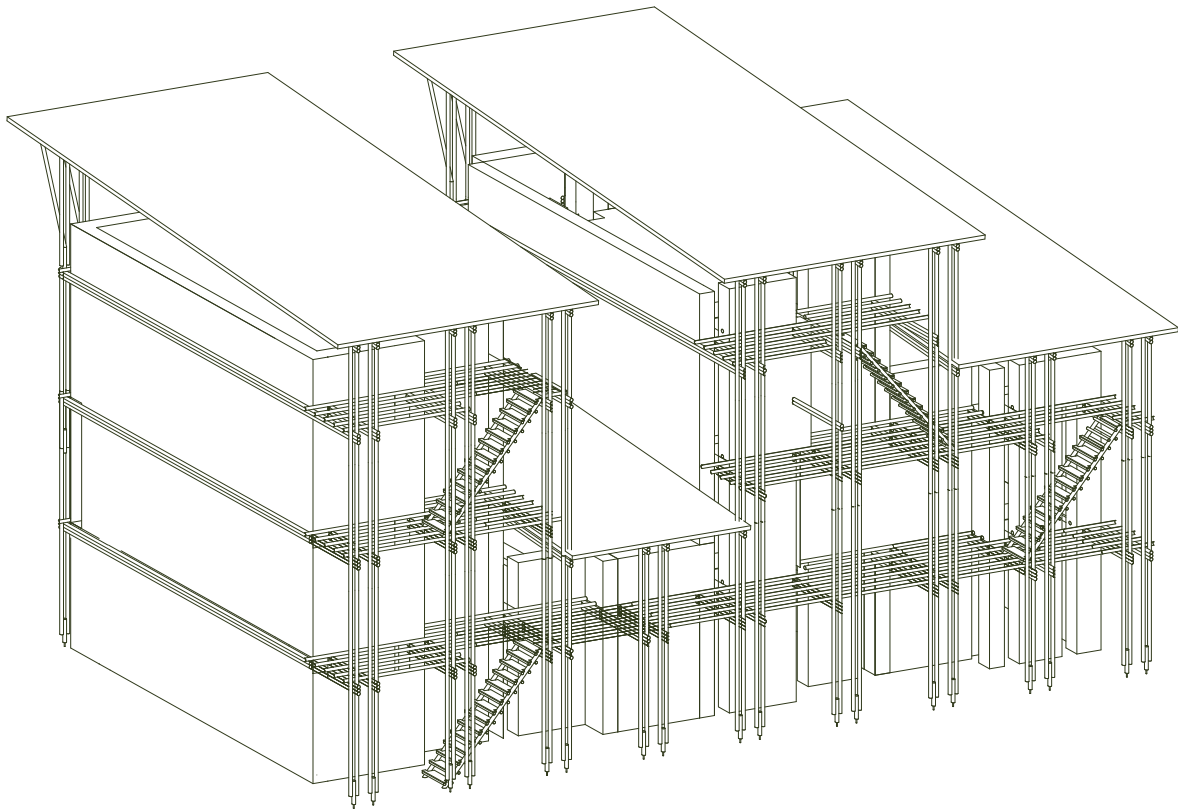


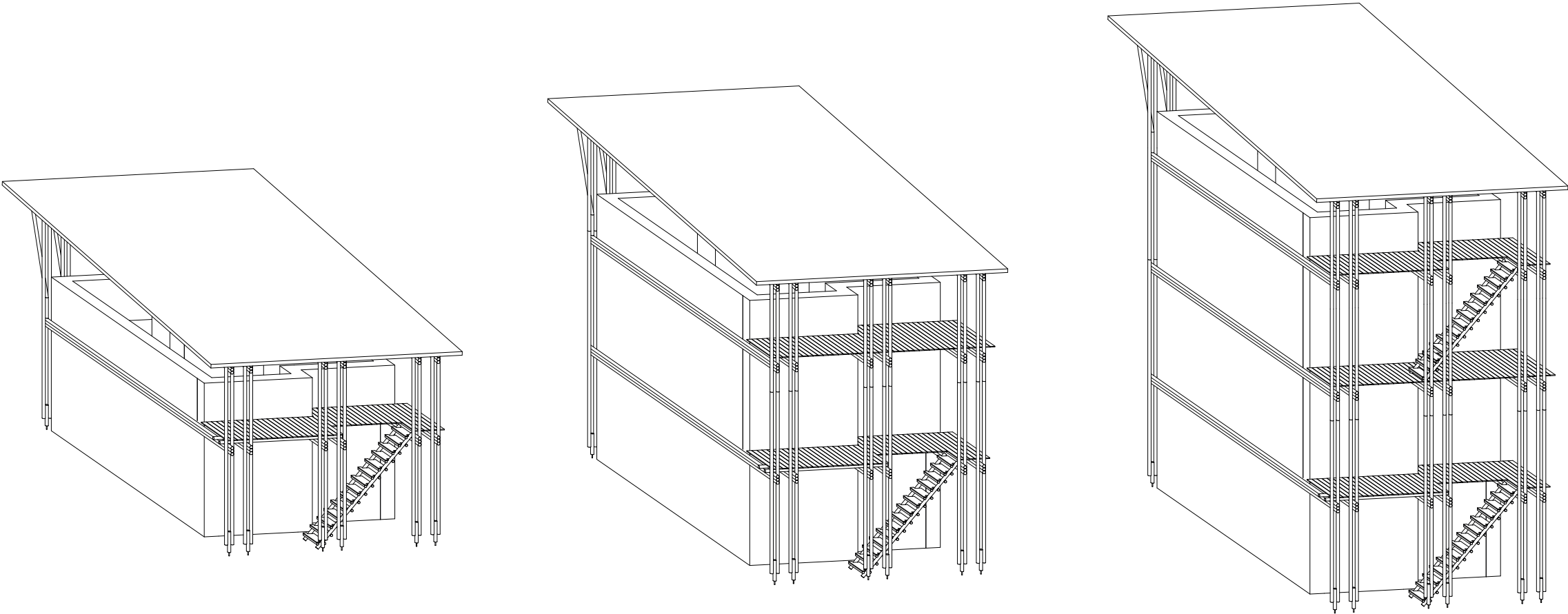
INCOME GENERATION

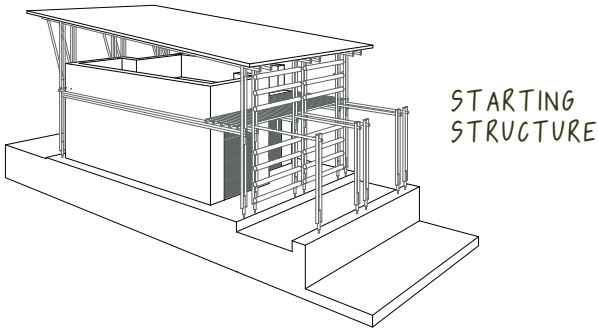




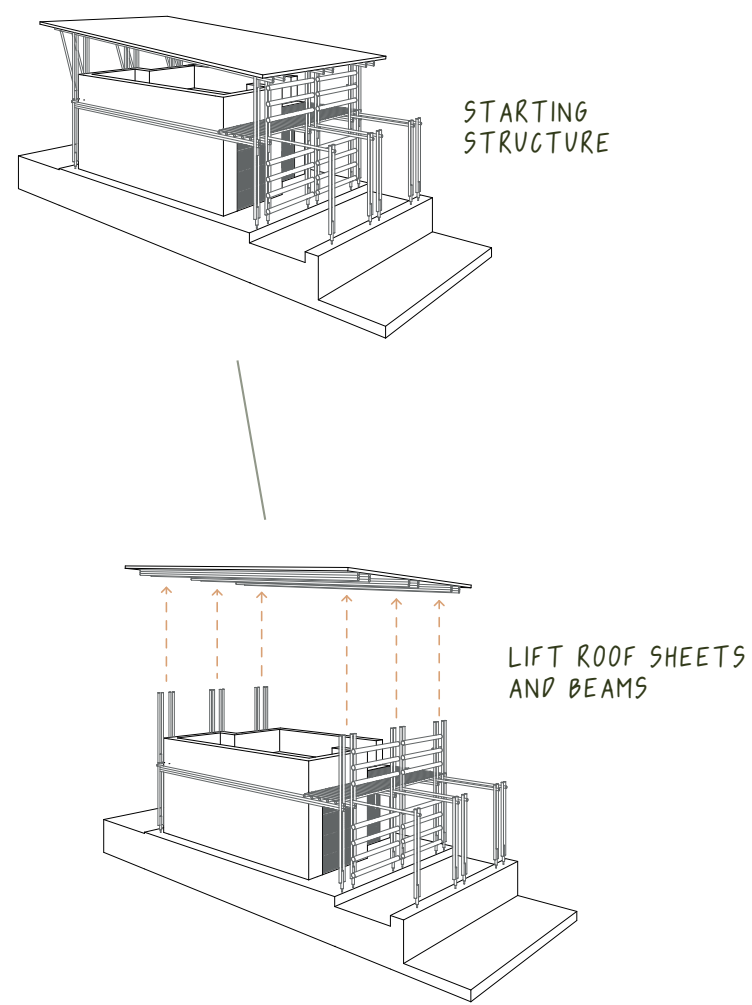
TYPE A

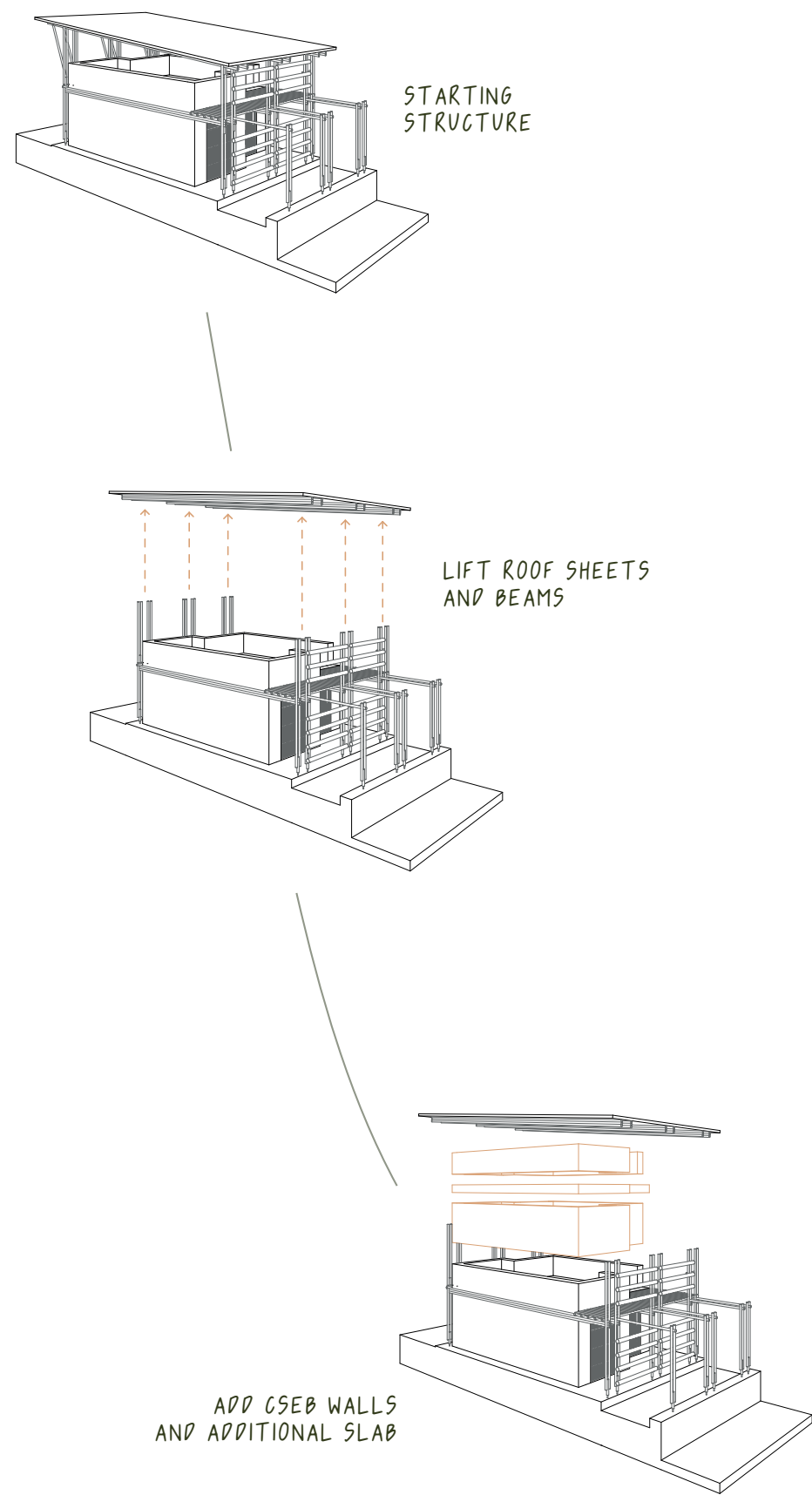


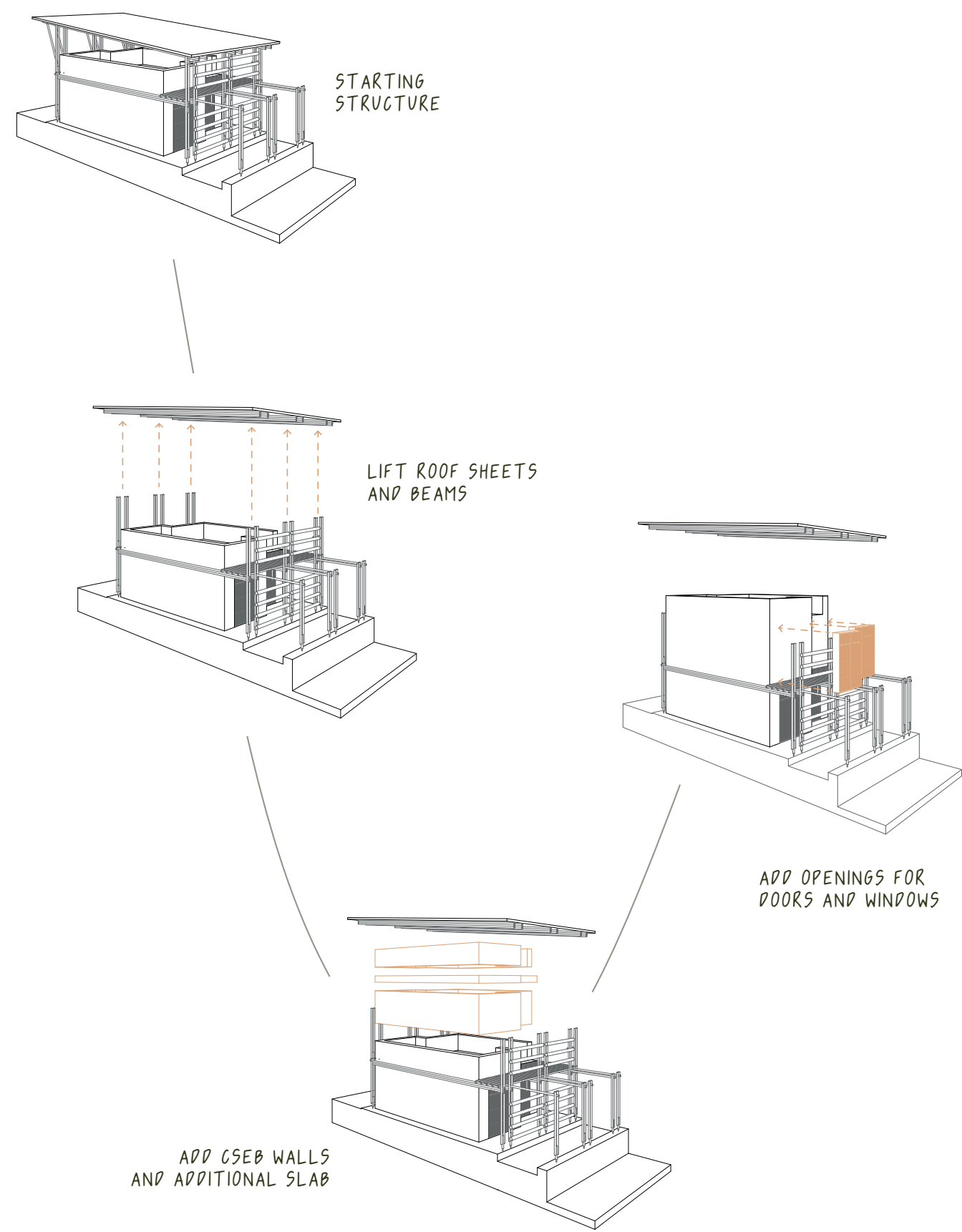


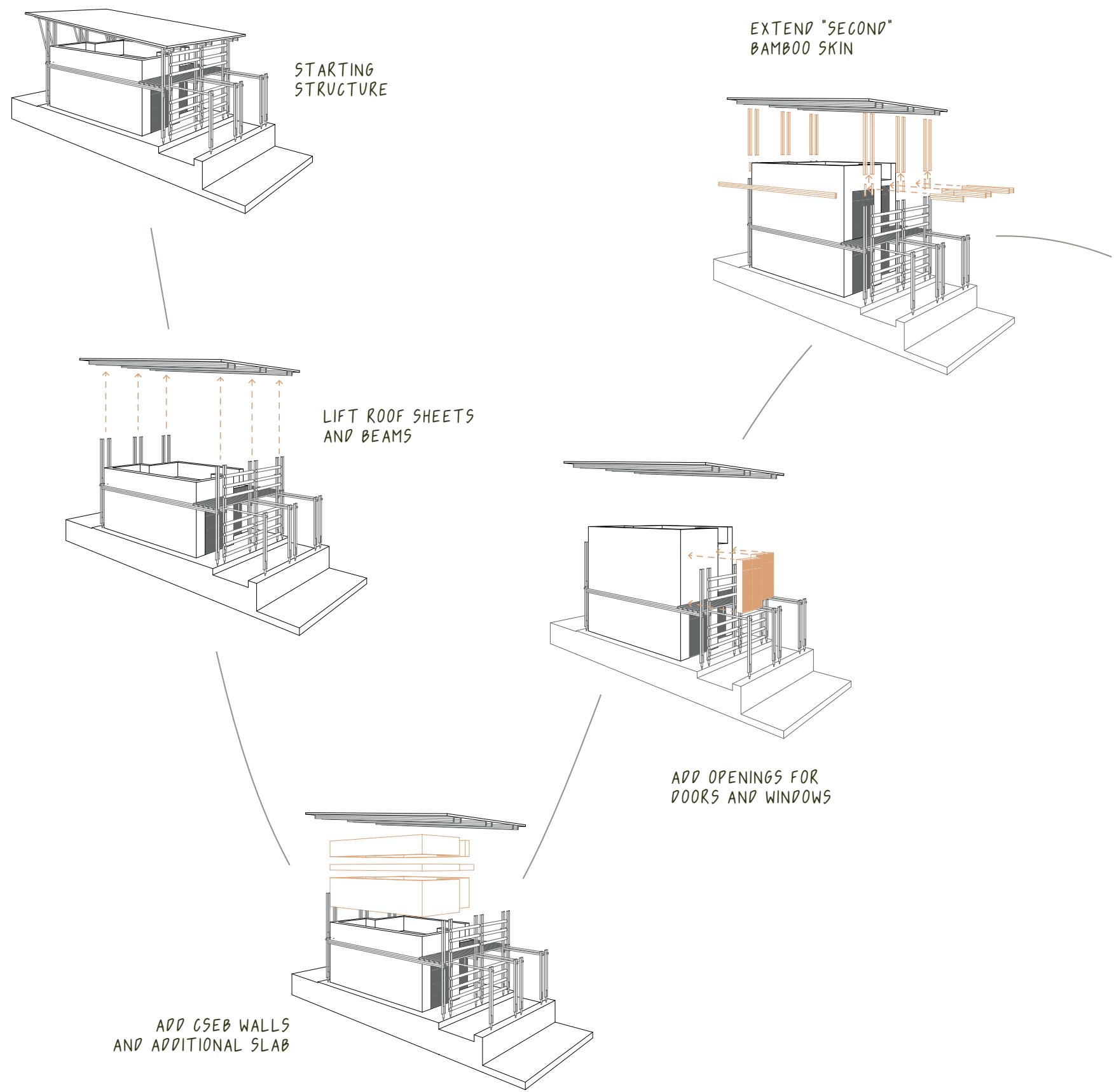


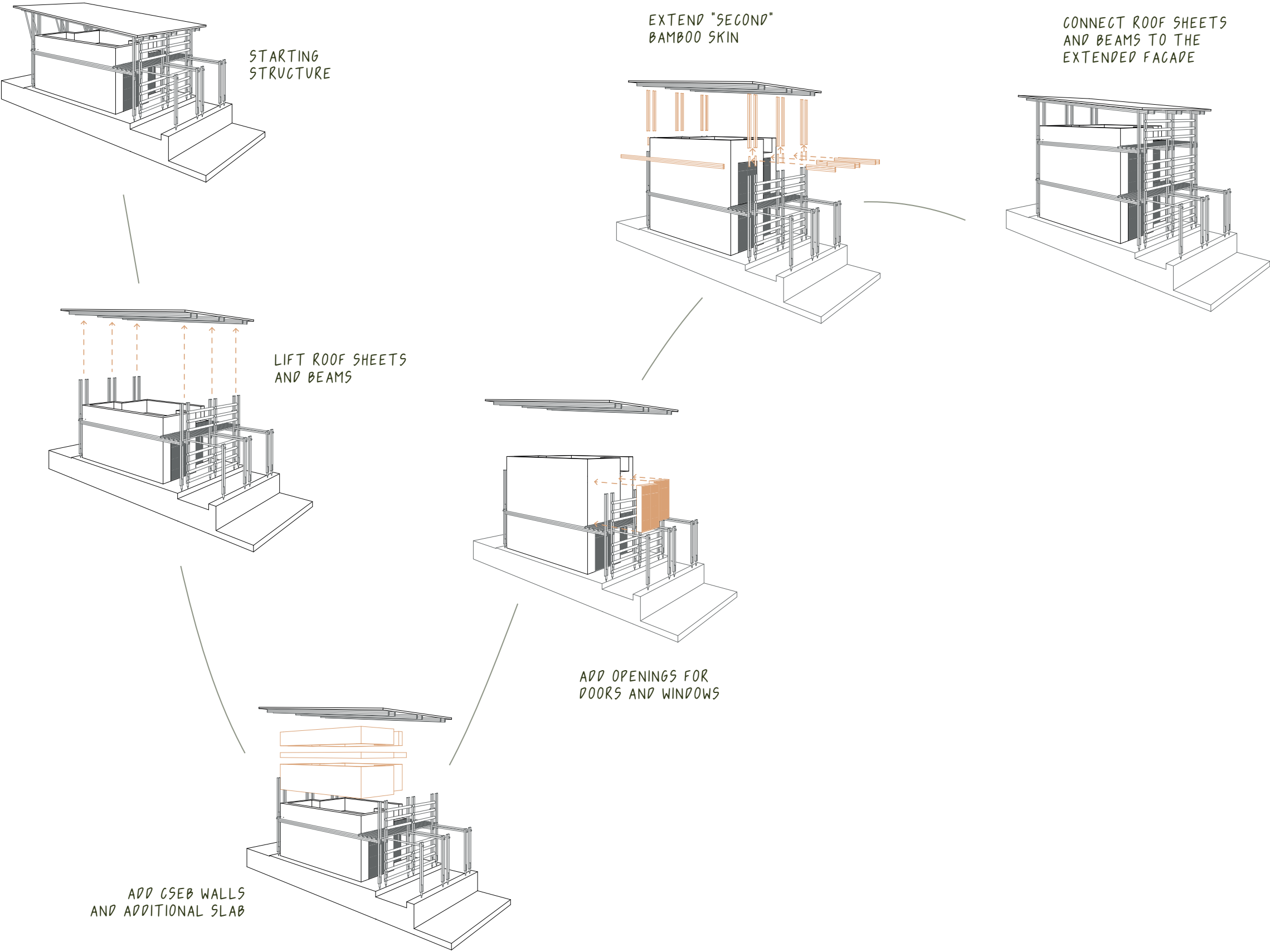
STARTING
STRUCTURE

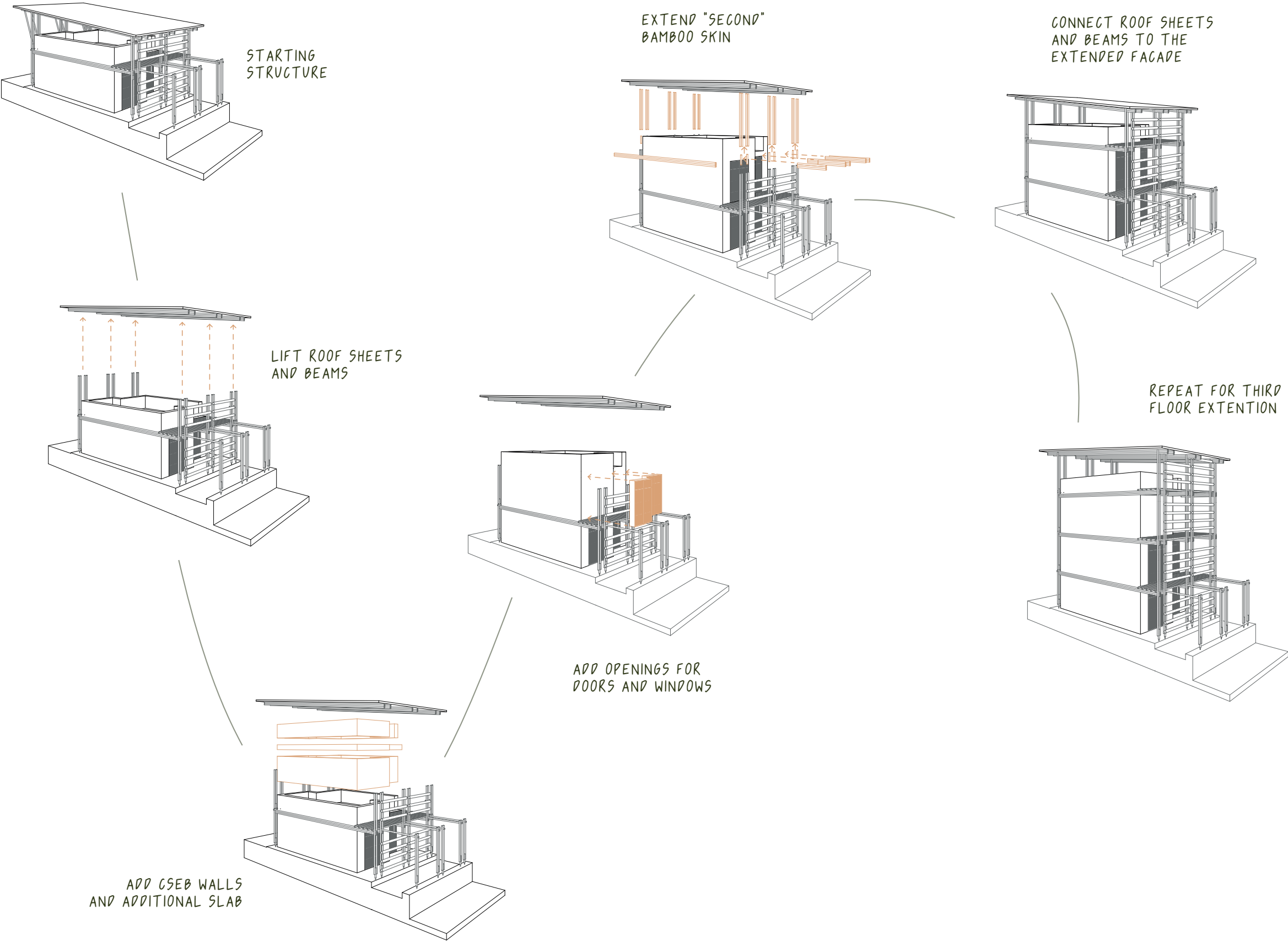




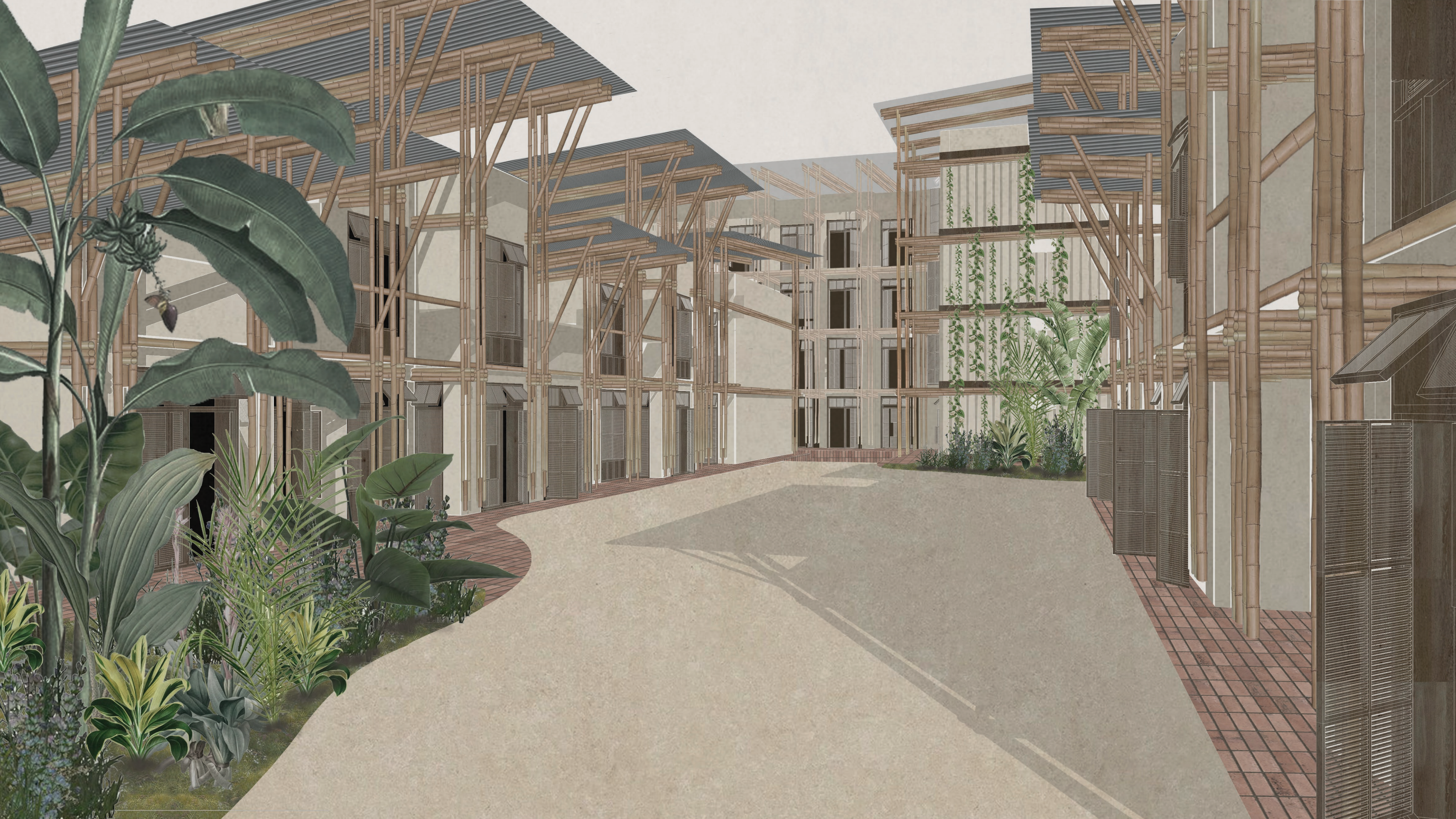








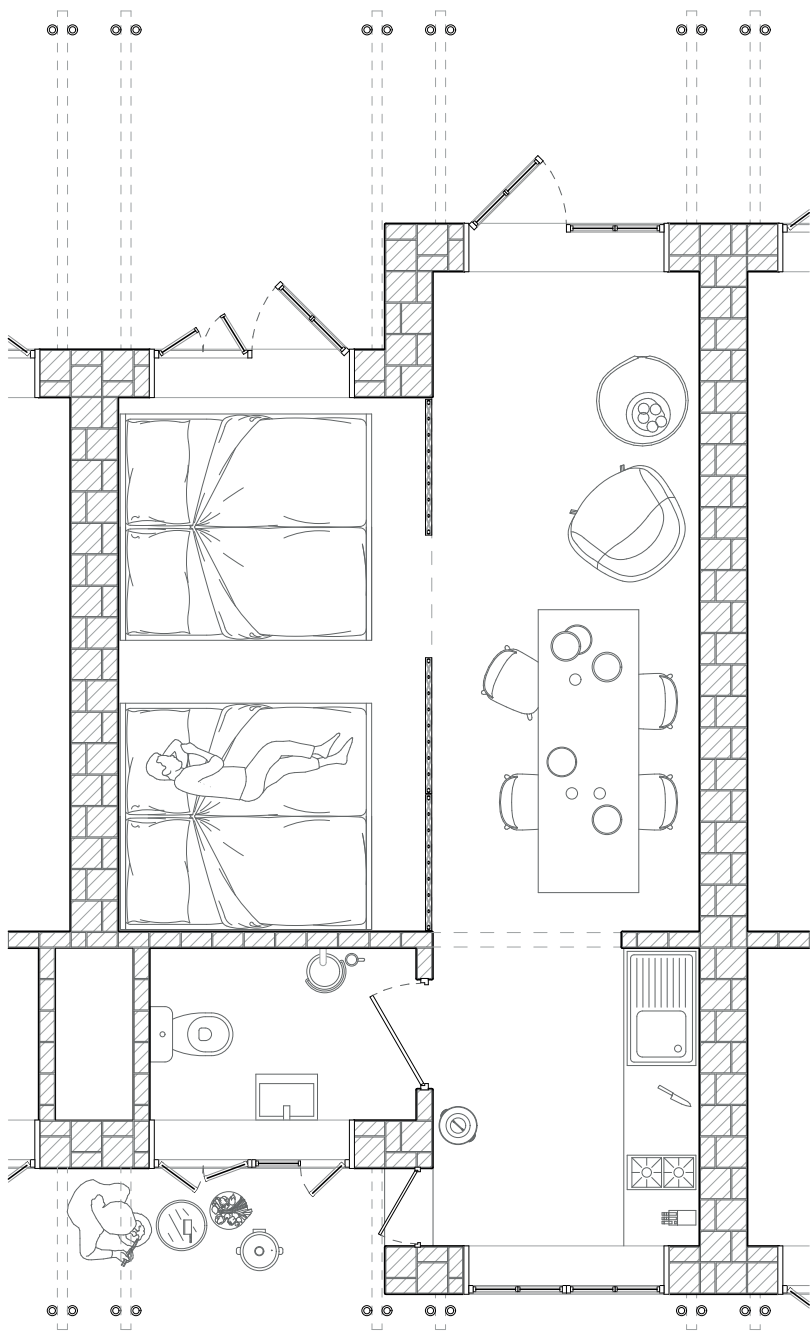


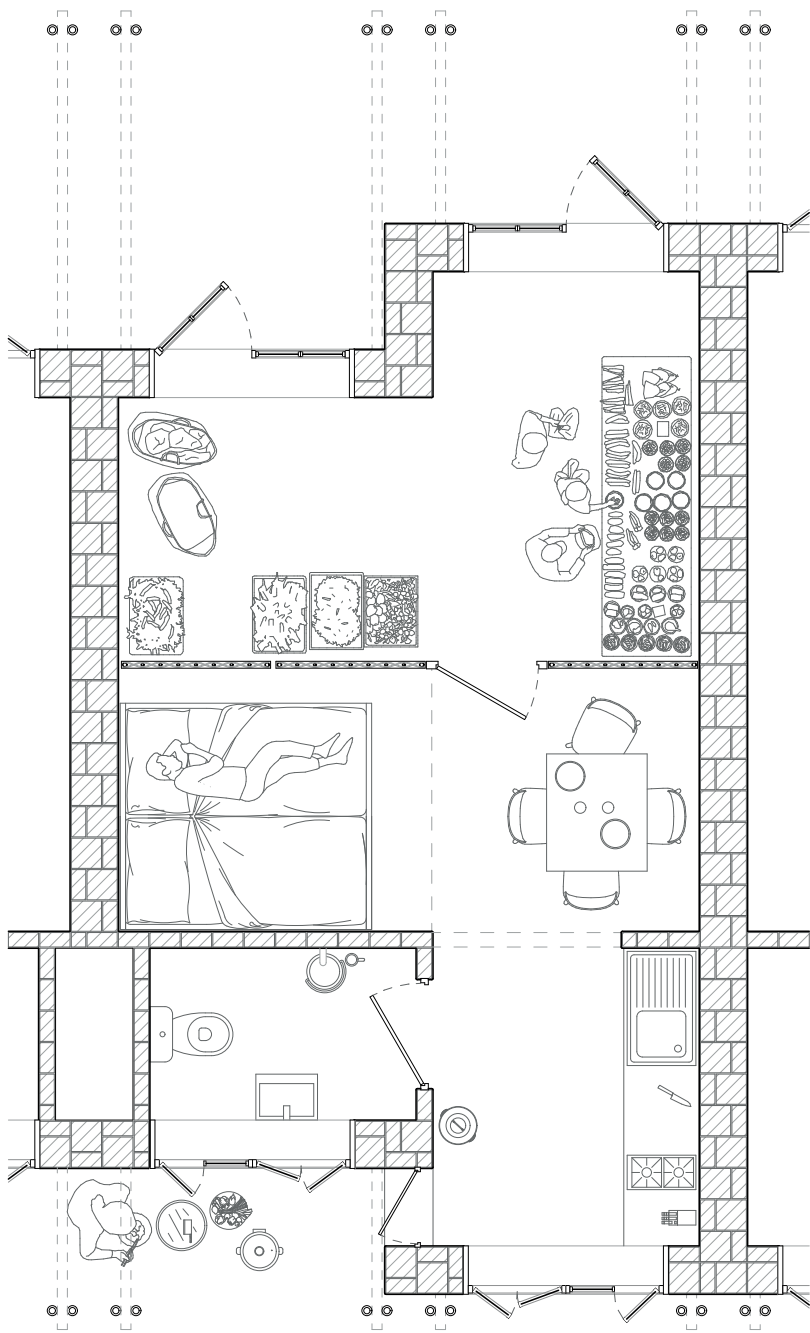


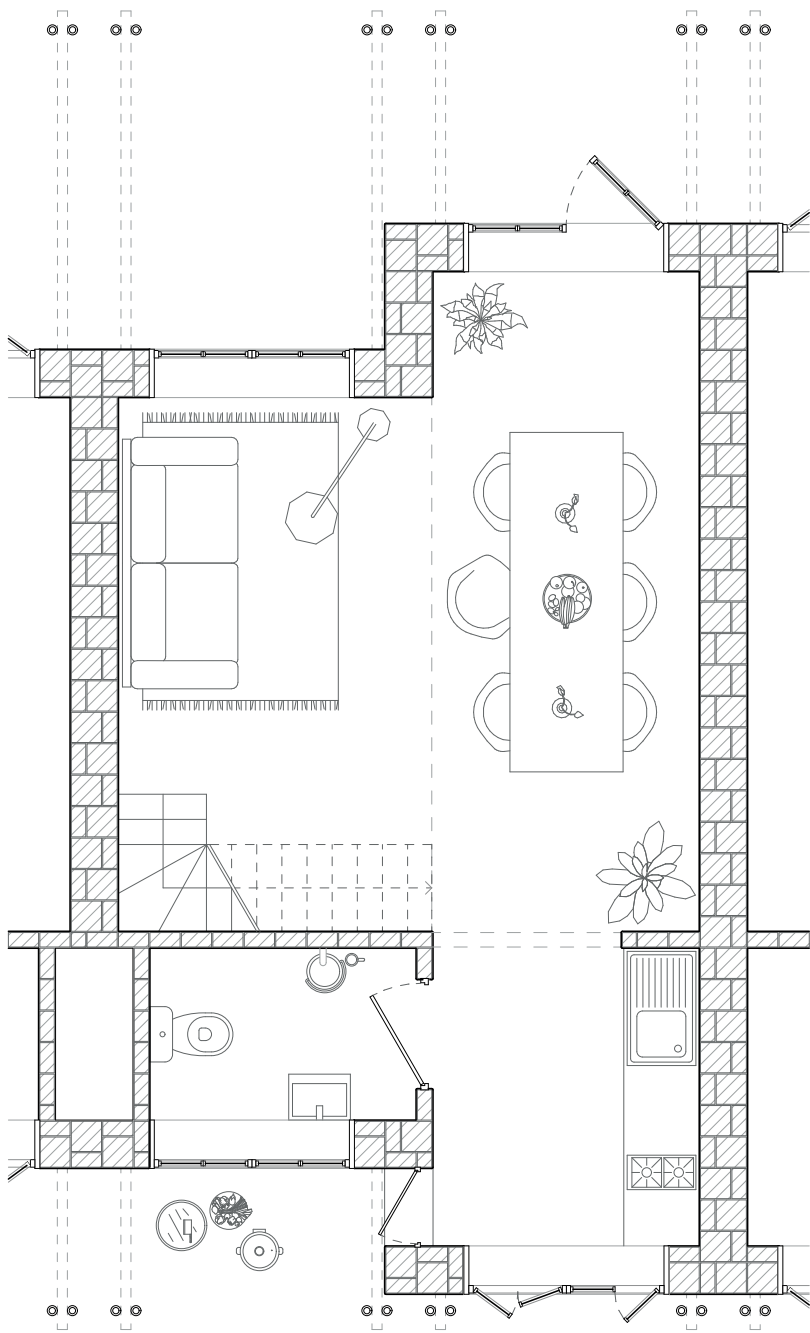


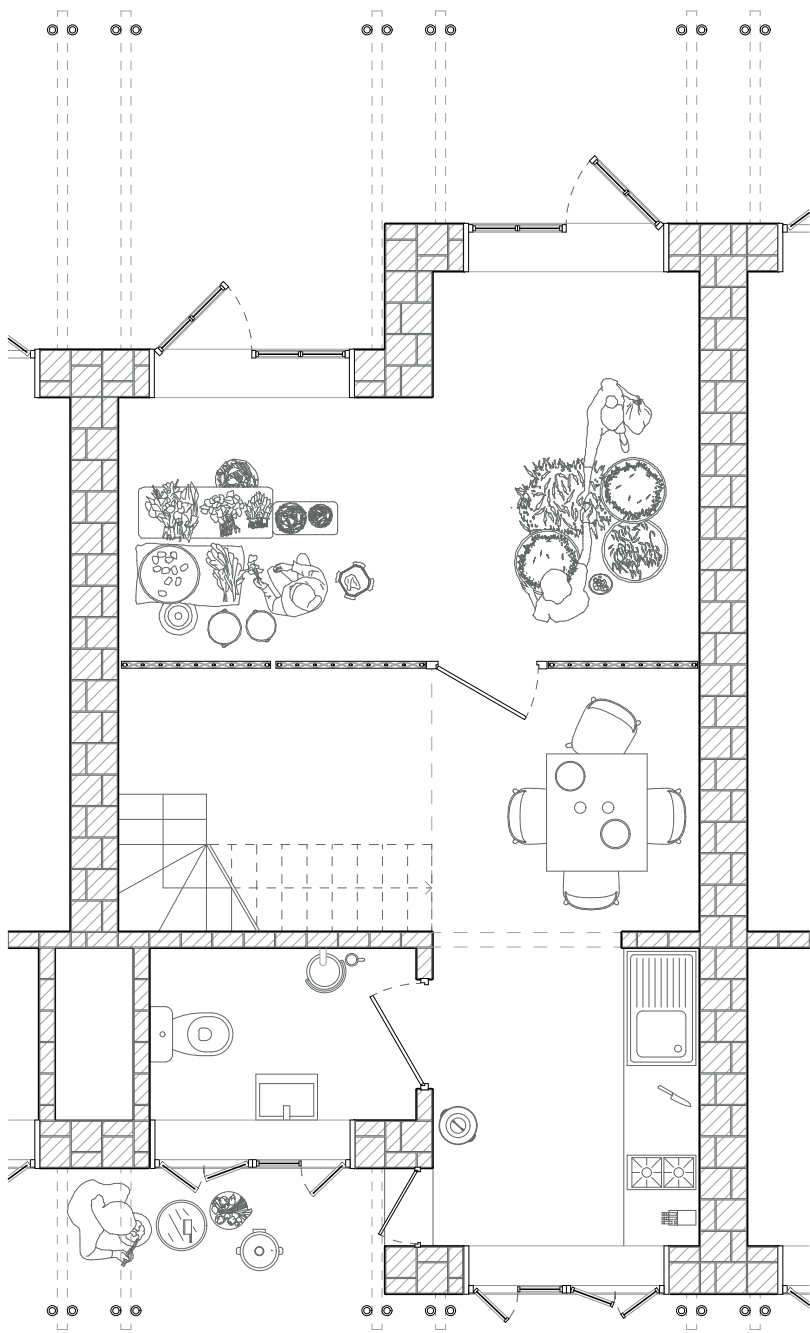


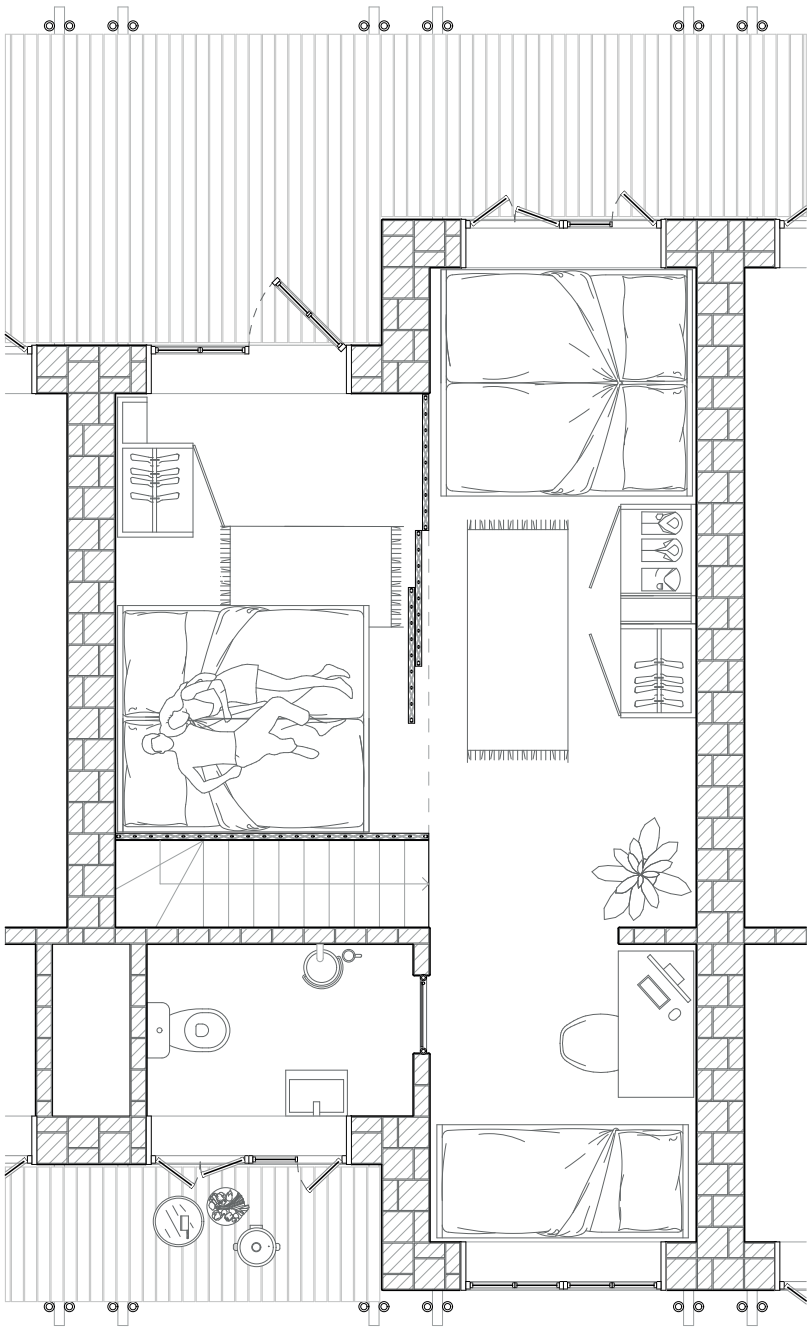






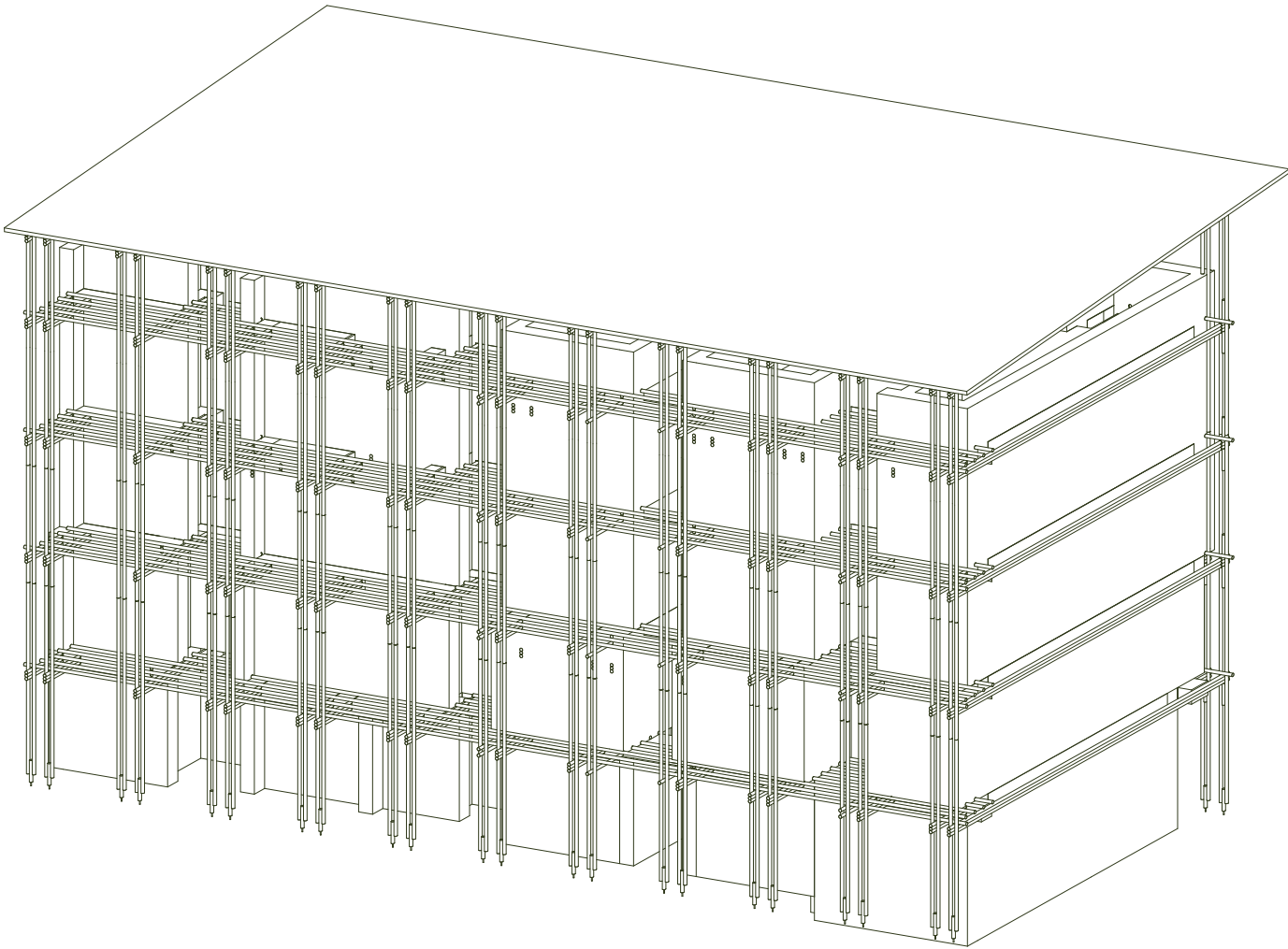


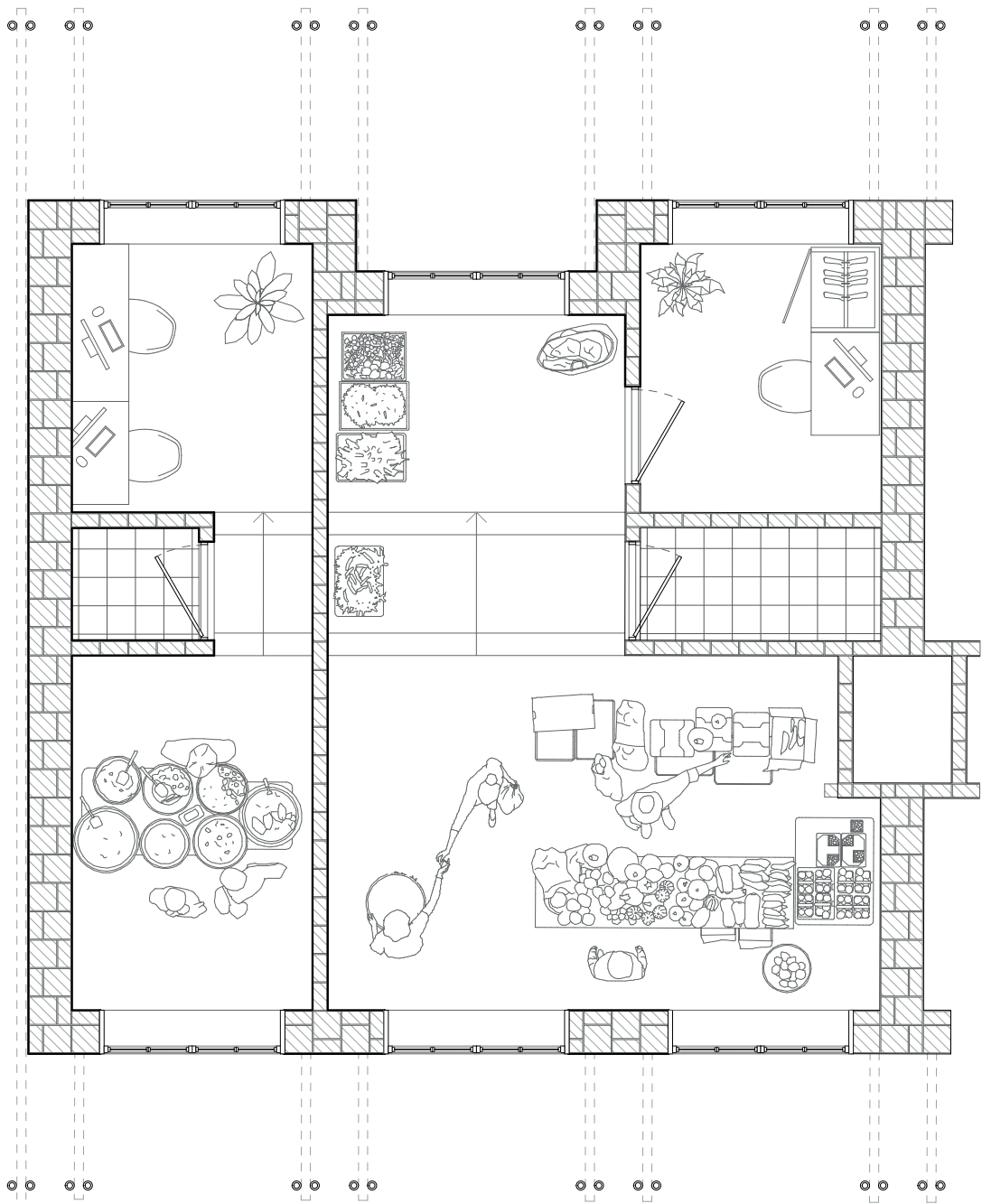


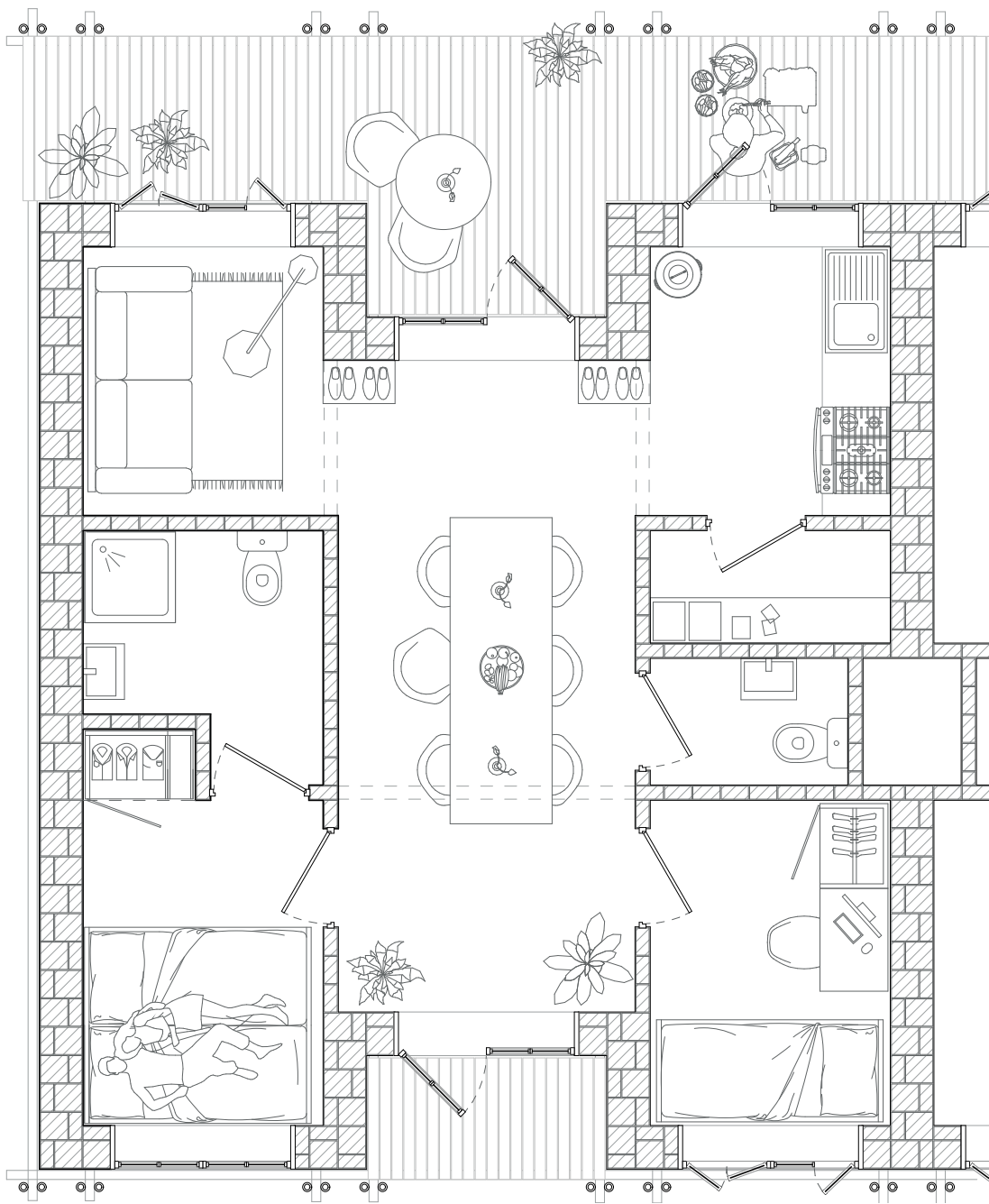




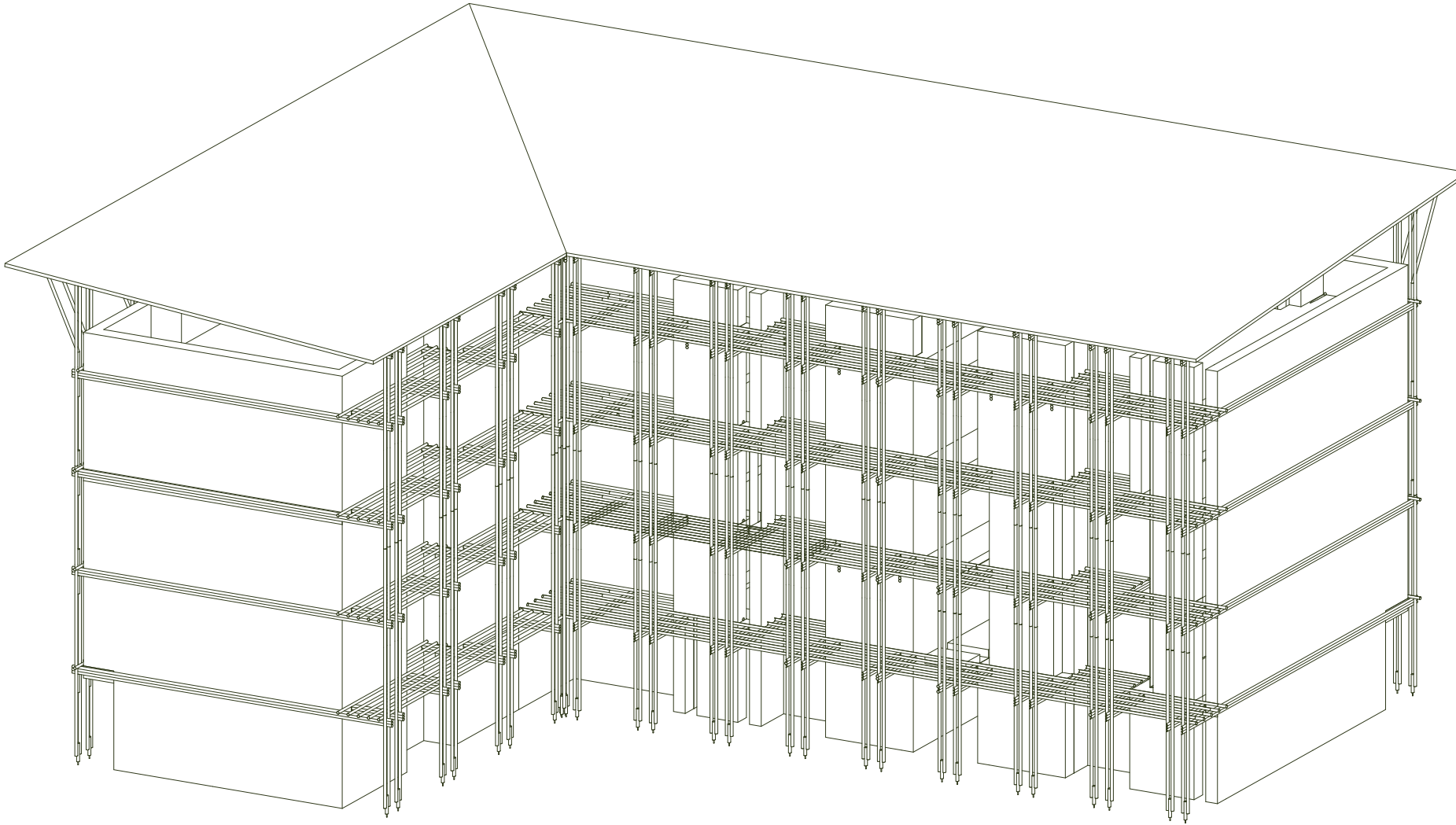
TYPE B

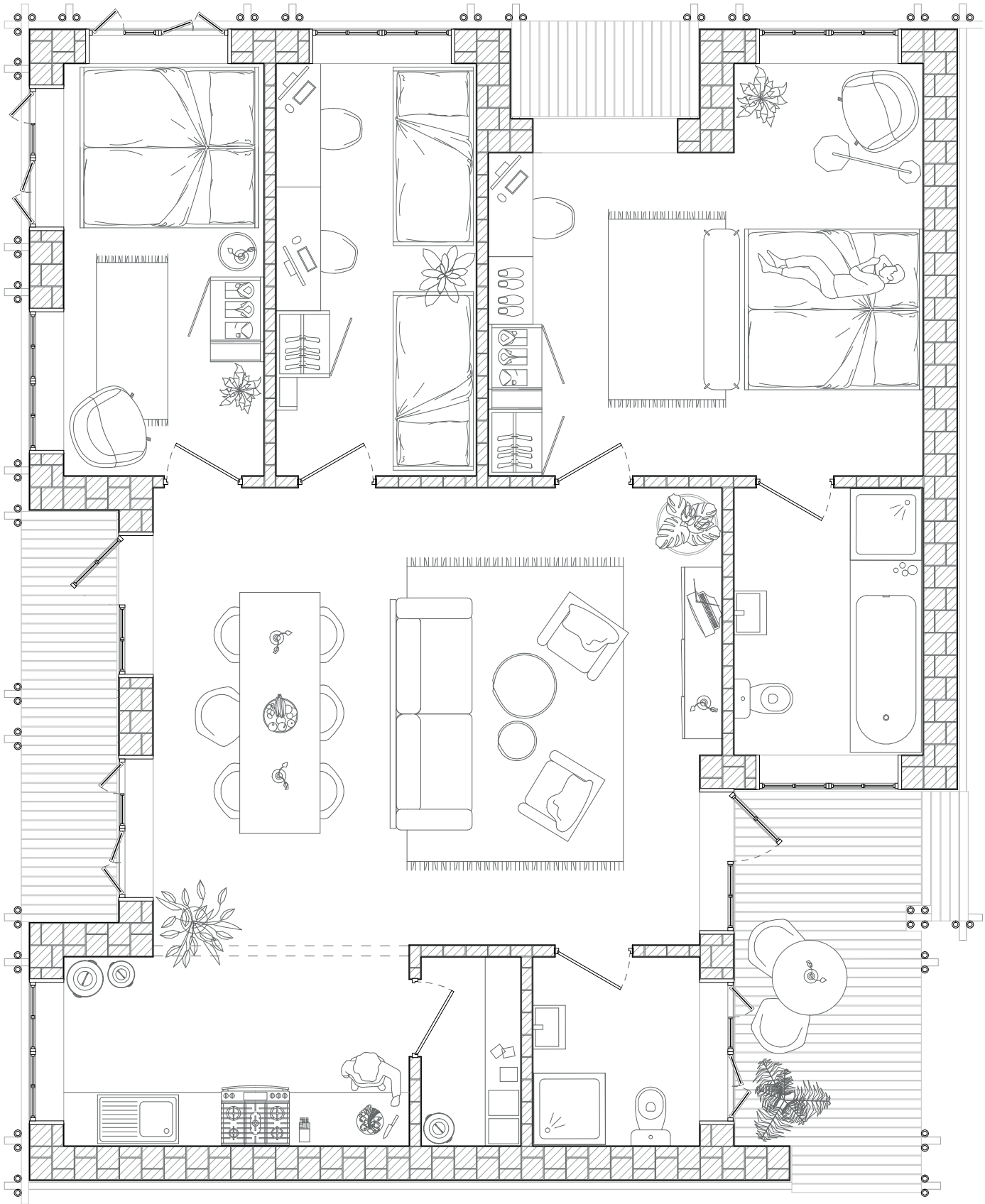
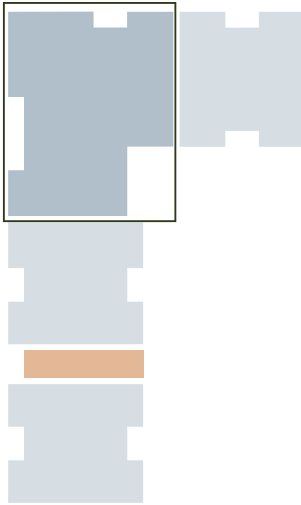


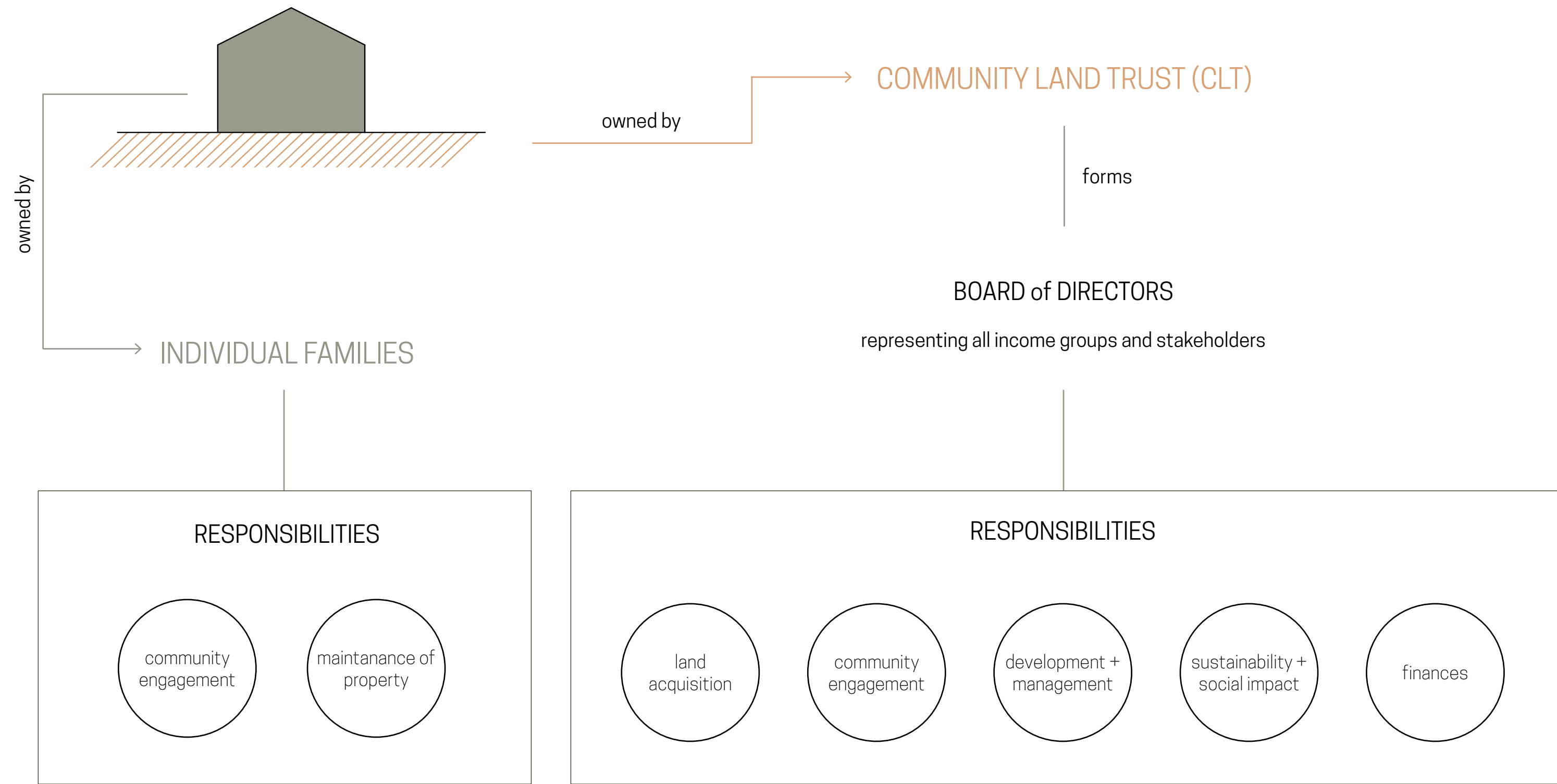


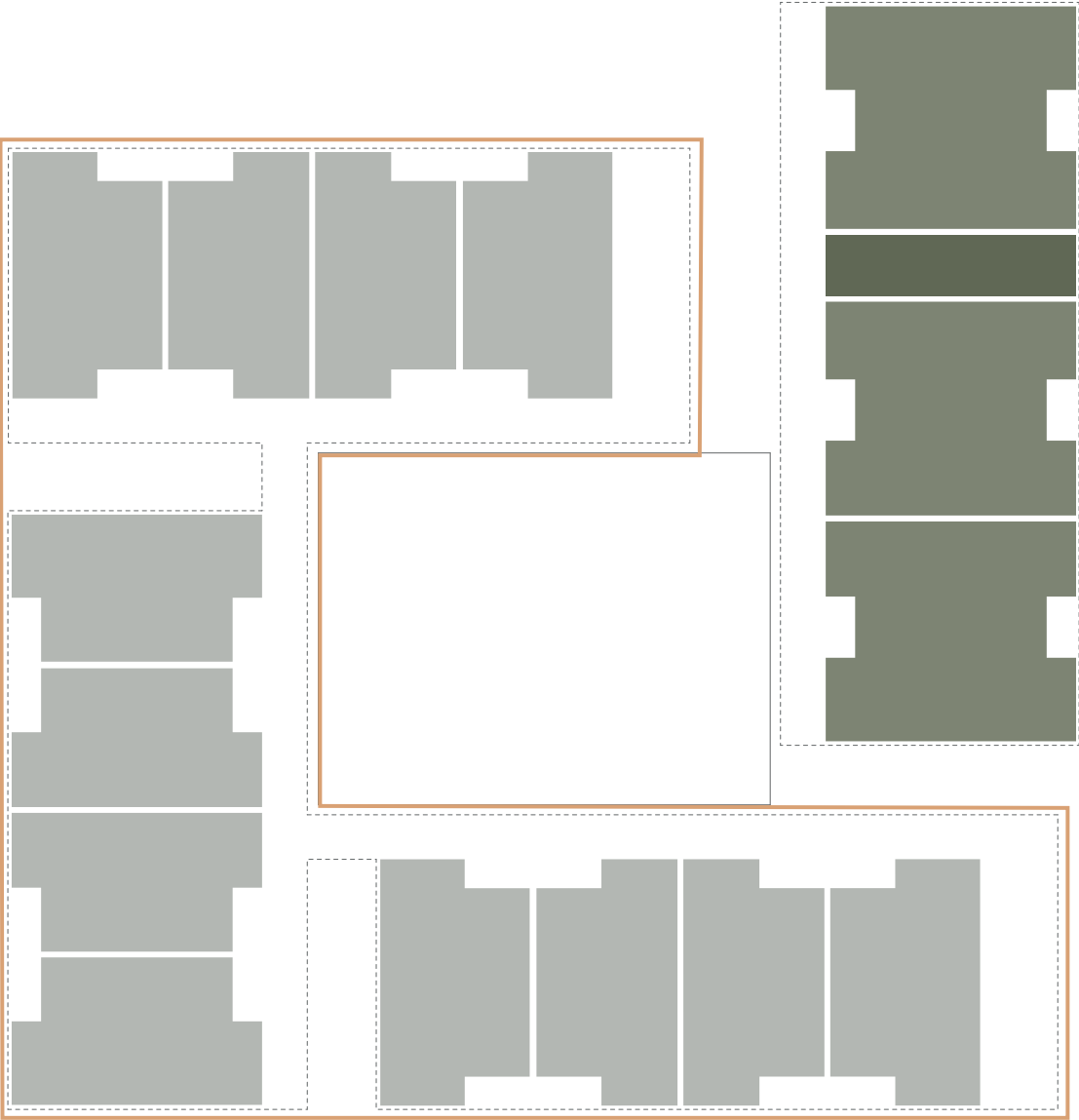


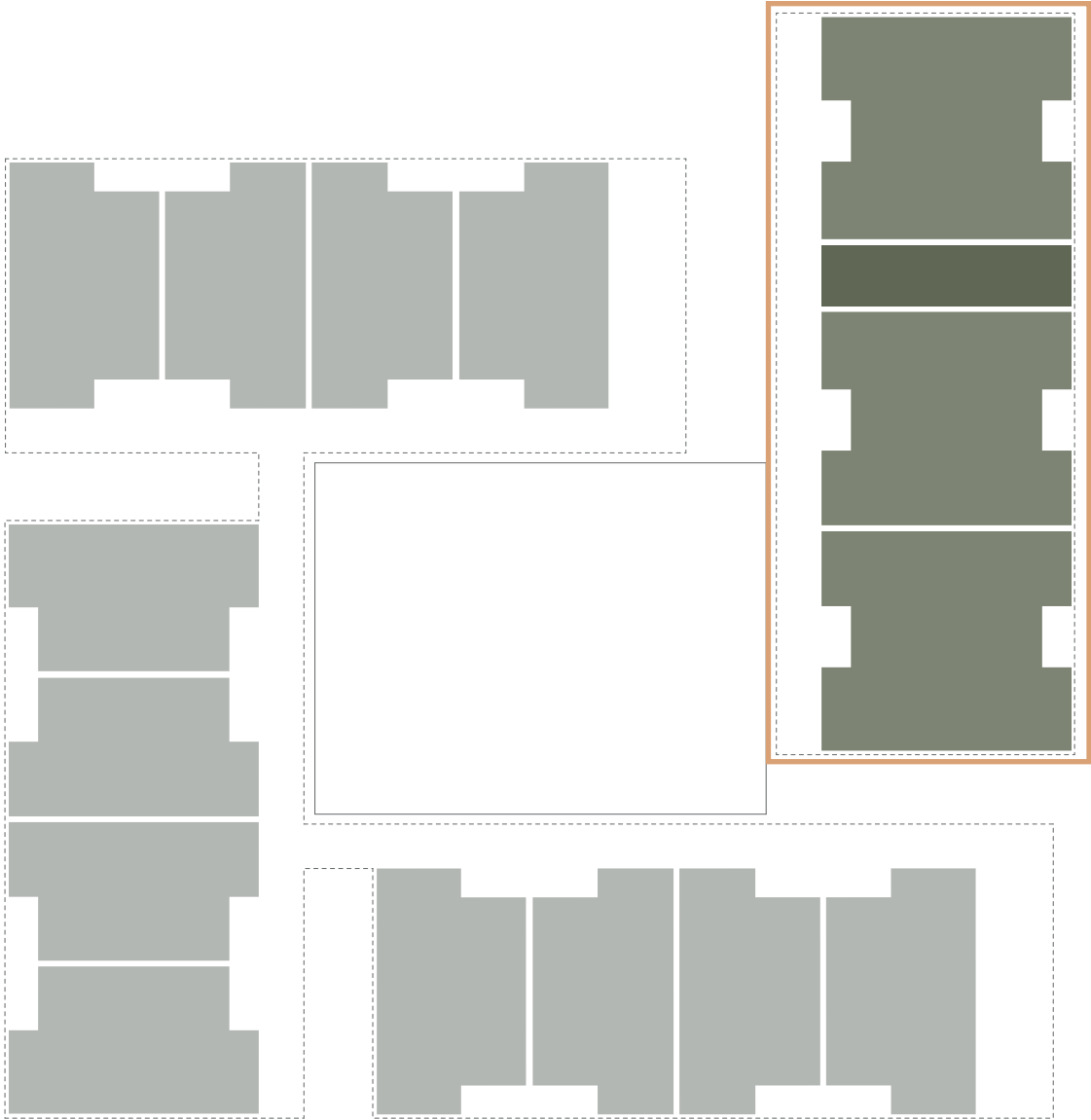
TYPE C

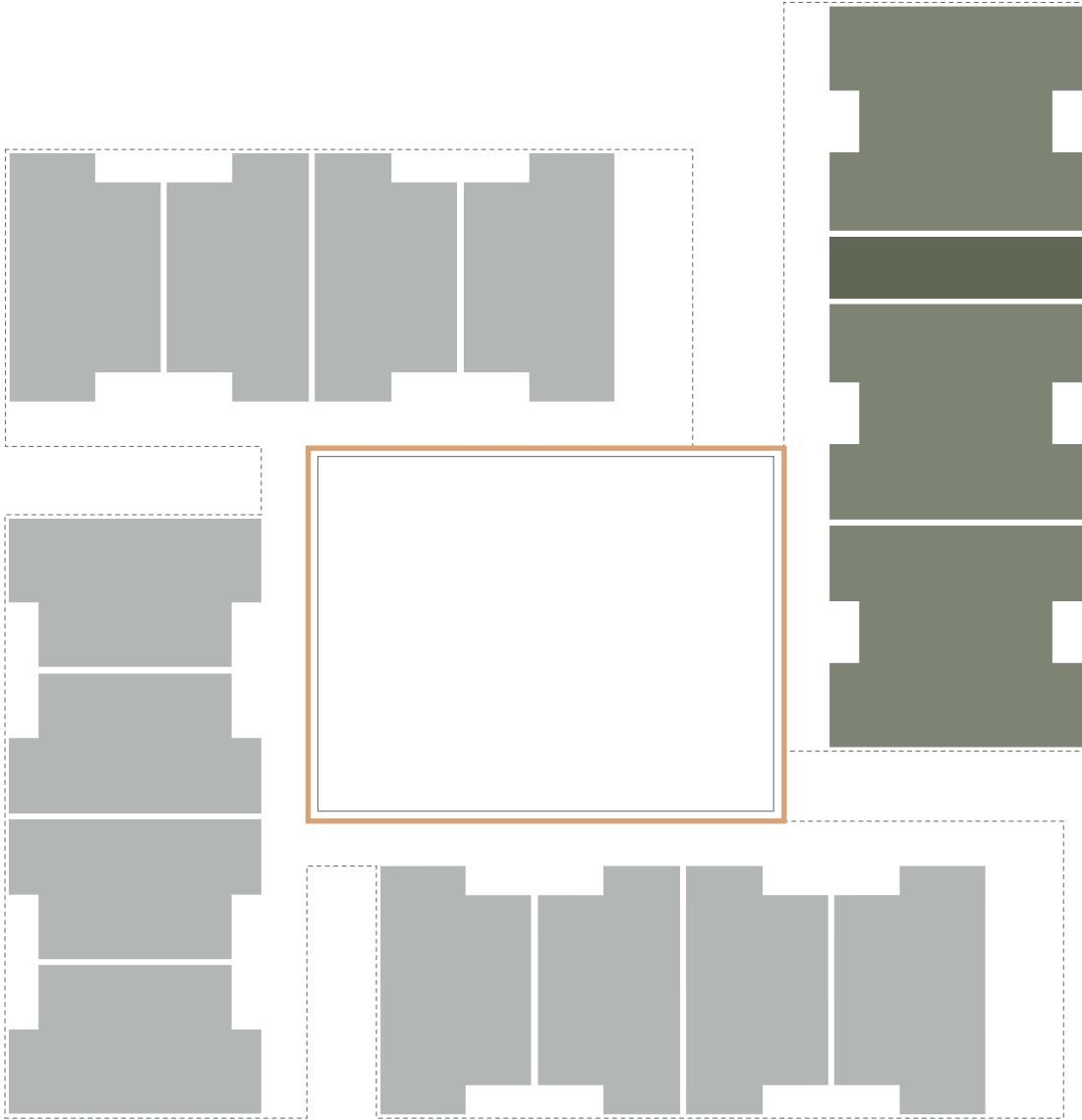


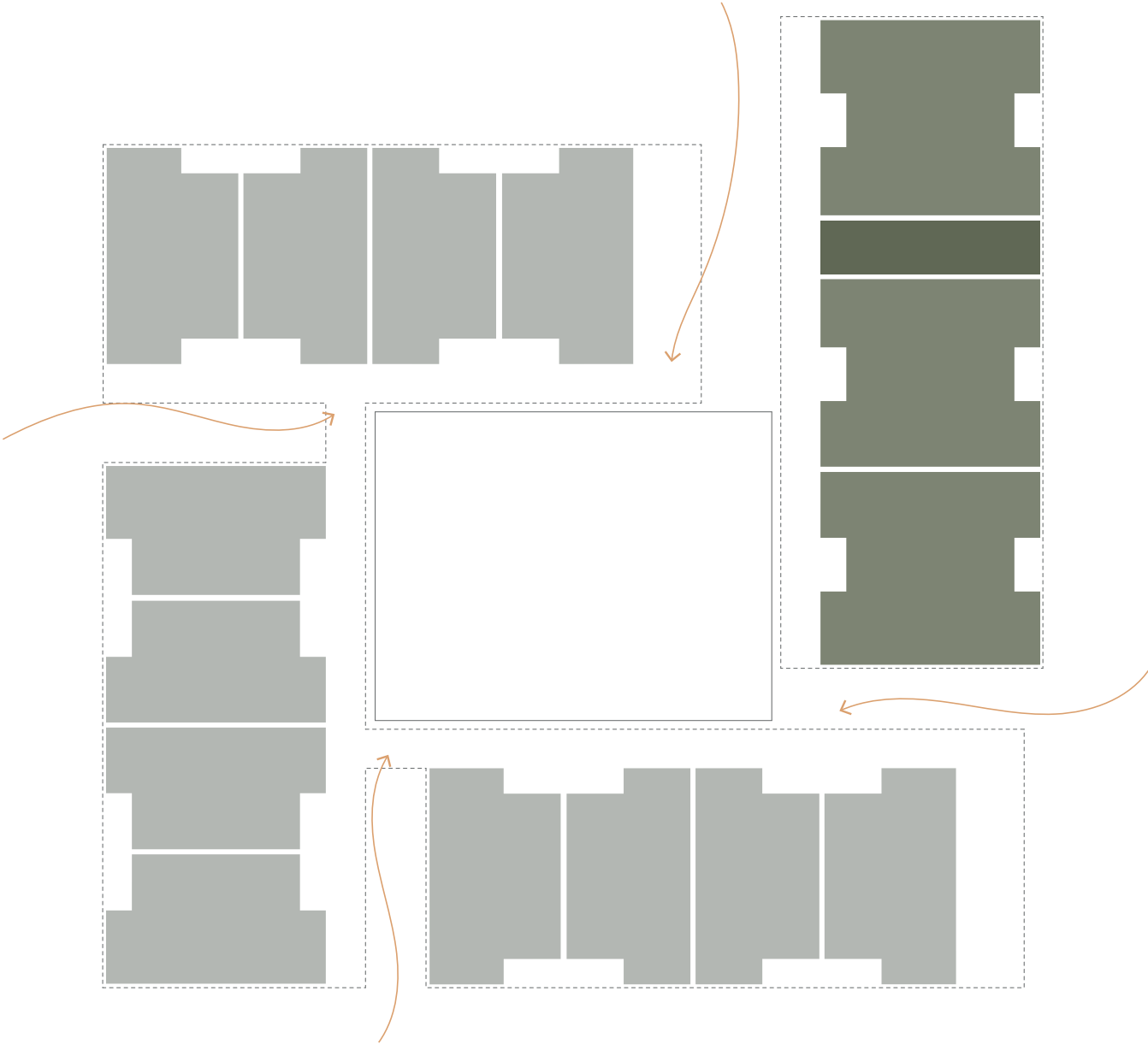




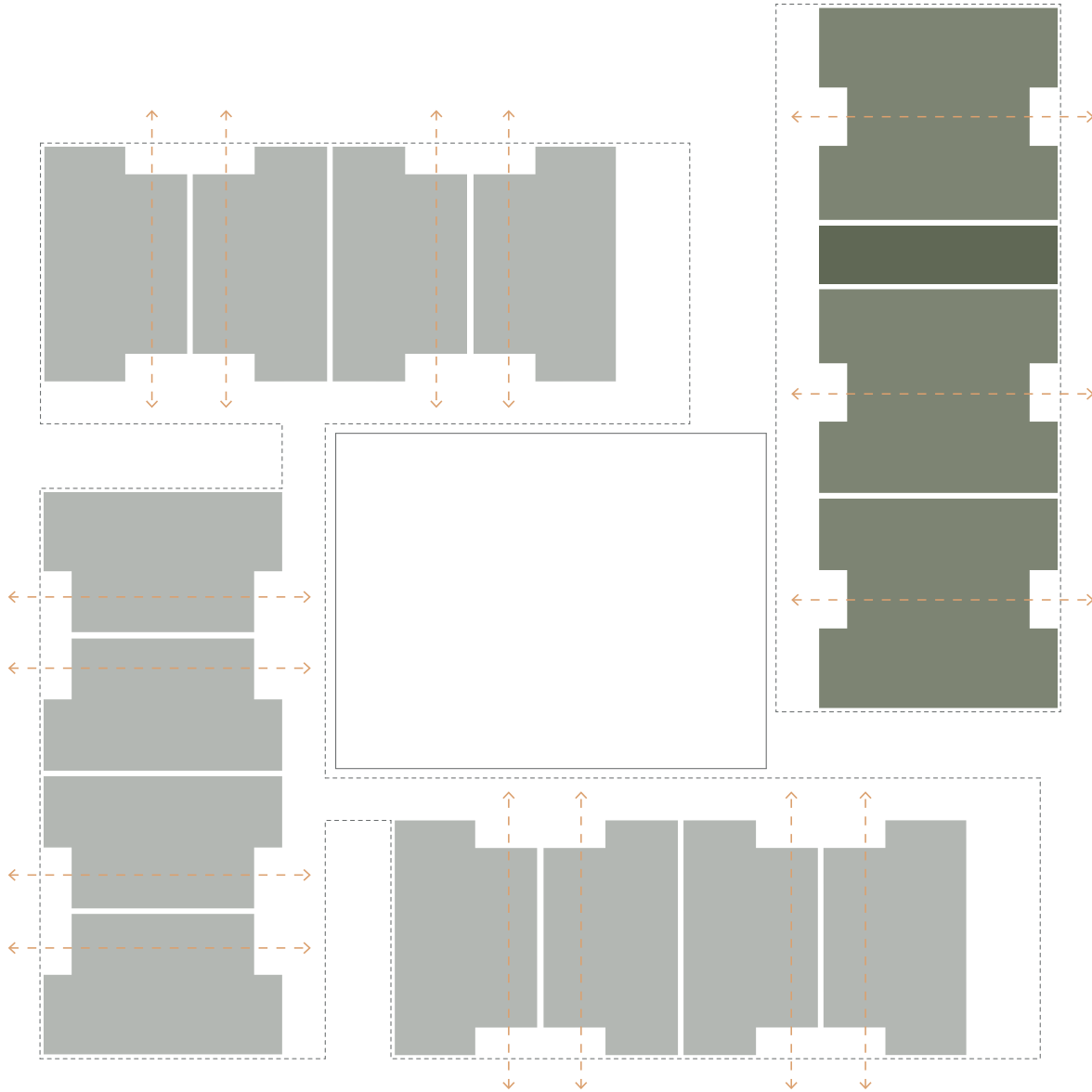


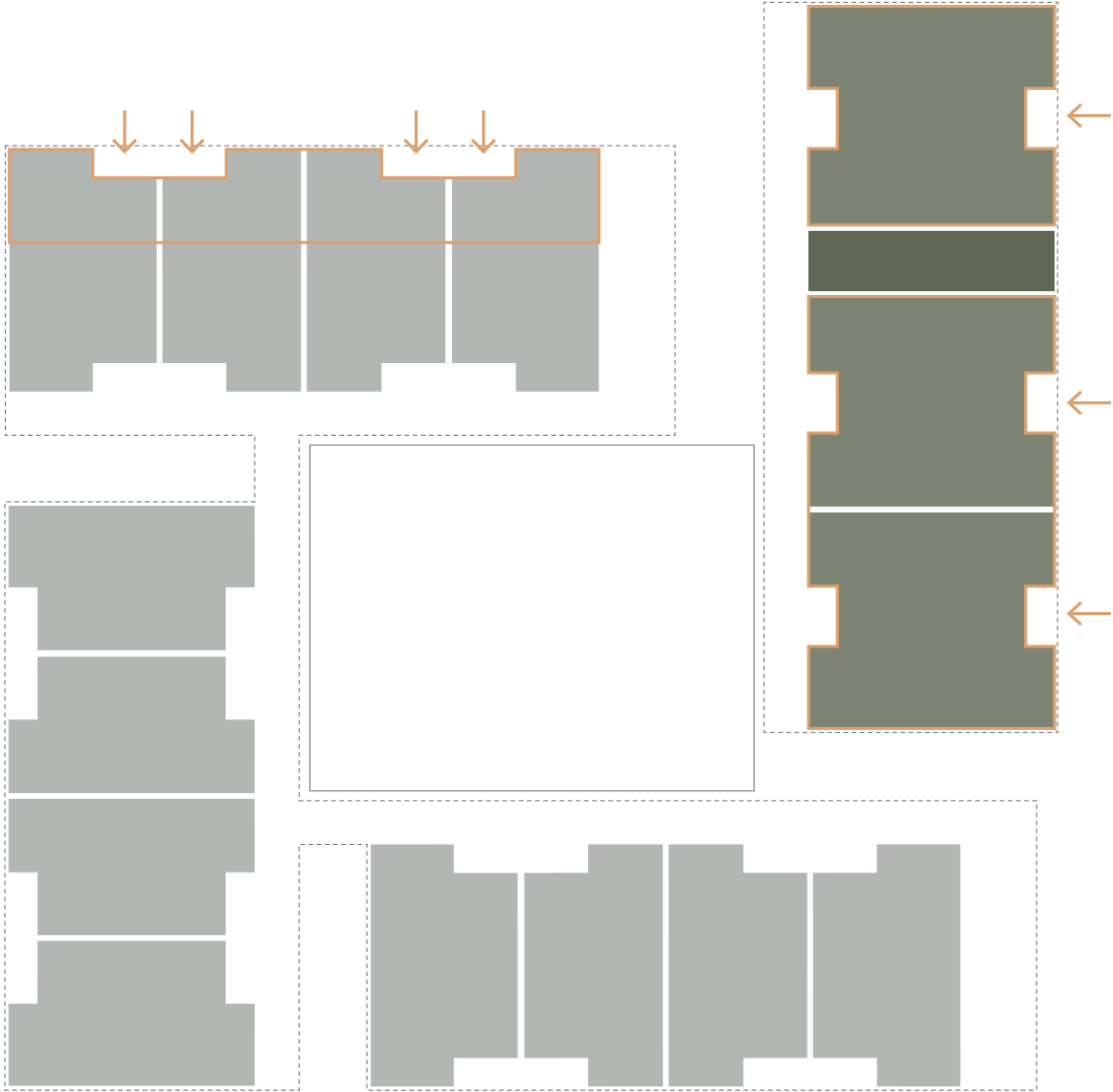








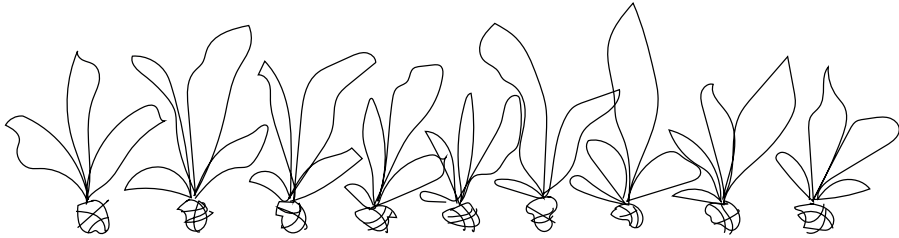








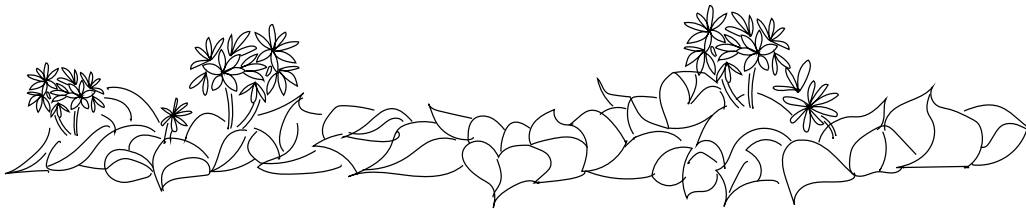




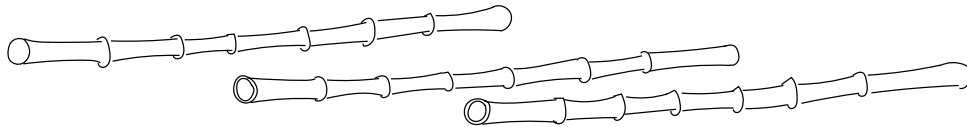
SEEDLINGS IN WATER HYACINTH BALLS



COMPOST + FERTILIZER



WATER HYACINTHS



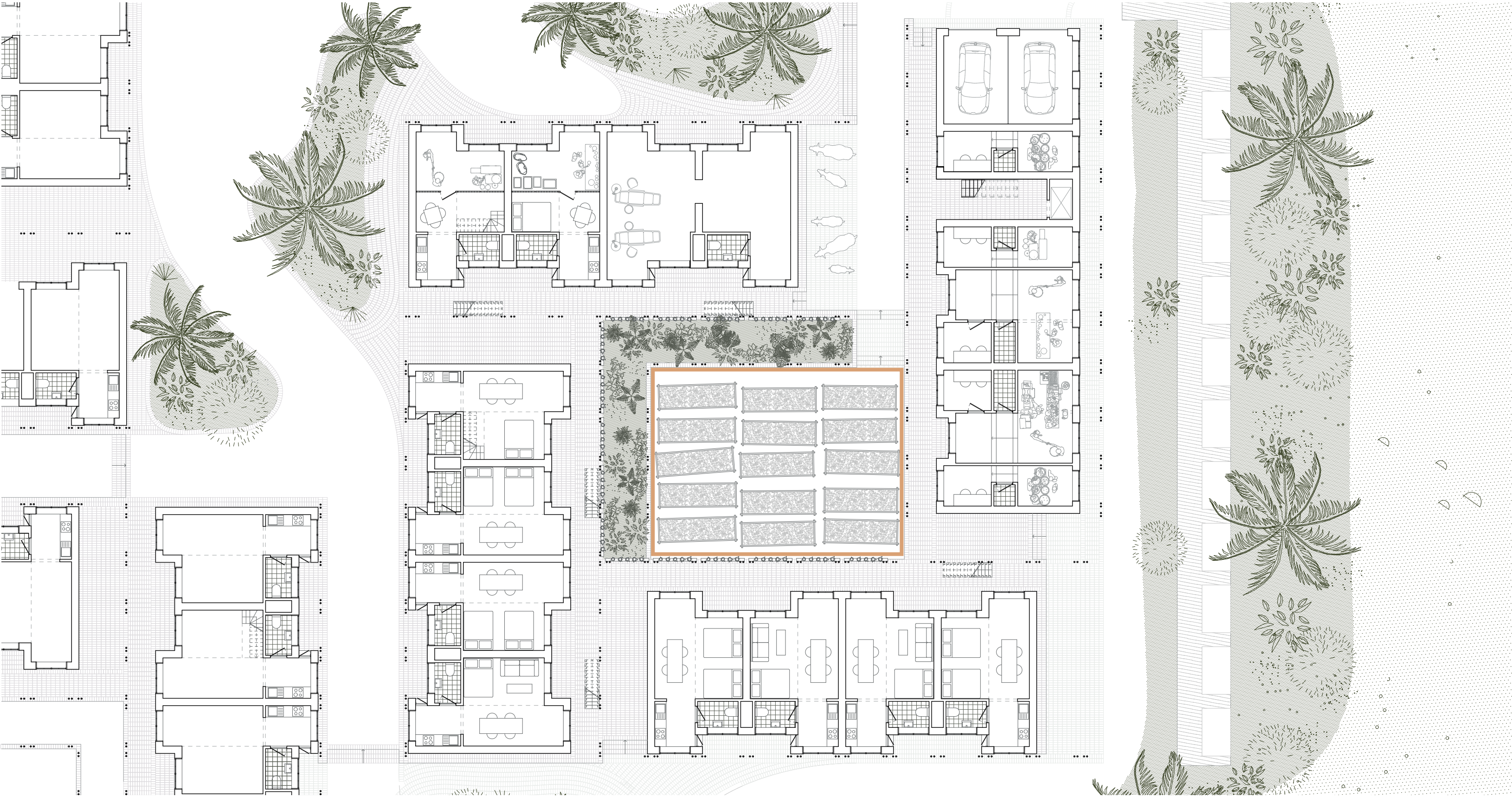
BAMBOO CONSTRUCTION + WIRE FRAME

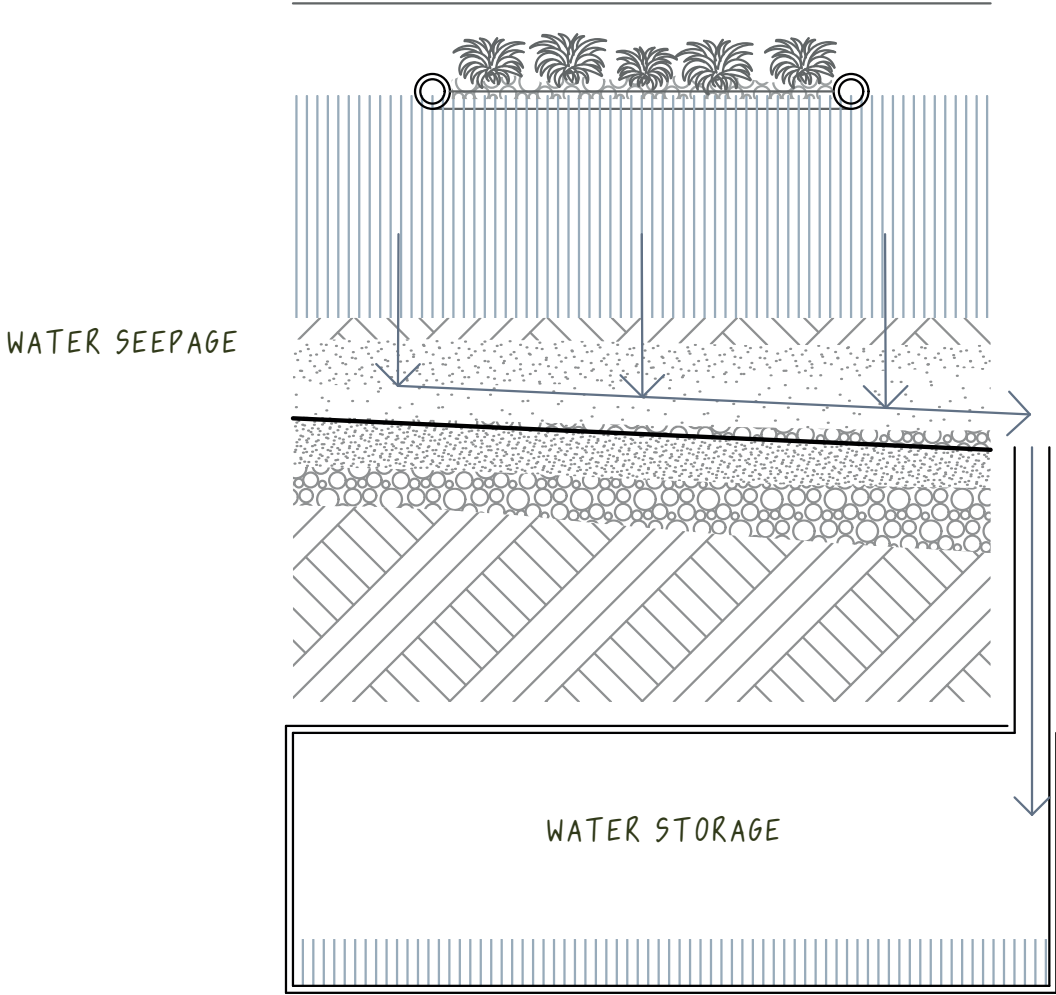


WATER HYACINTHS



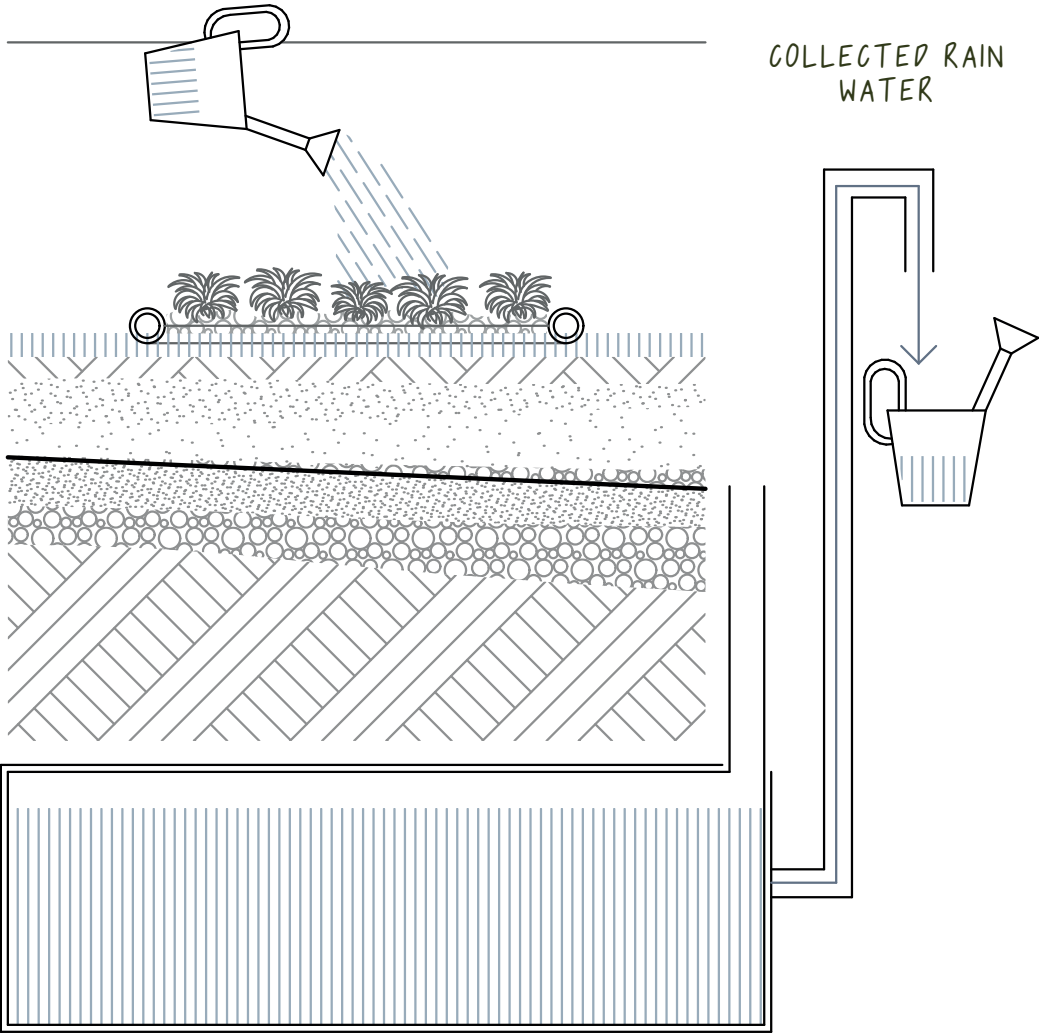
WATER





MONSOON SEASON

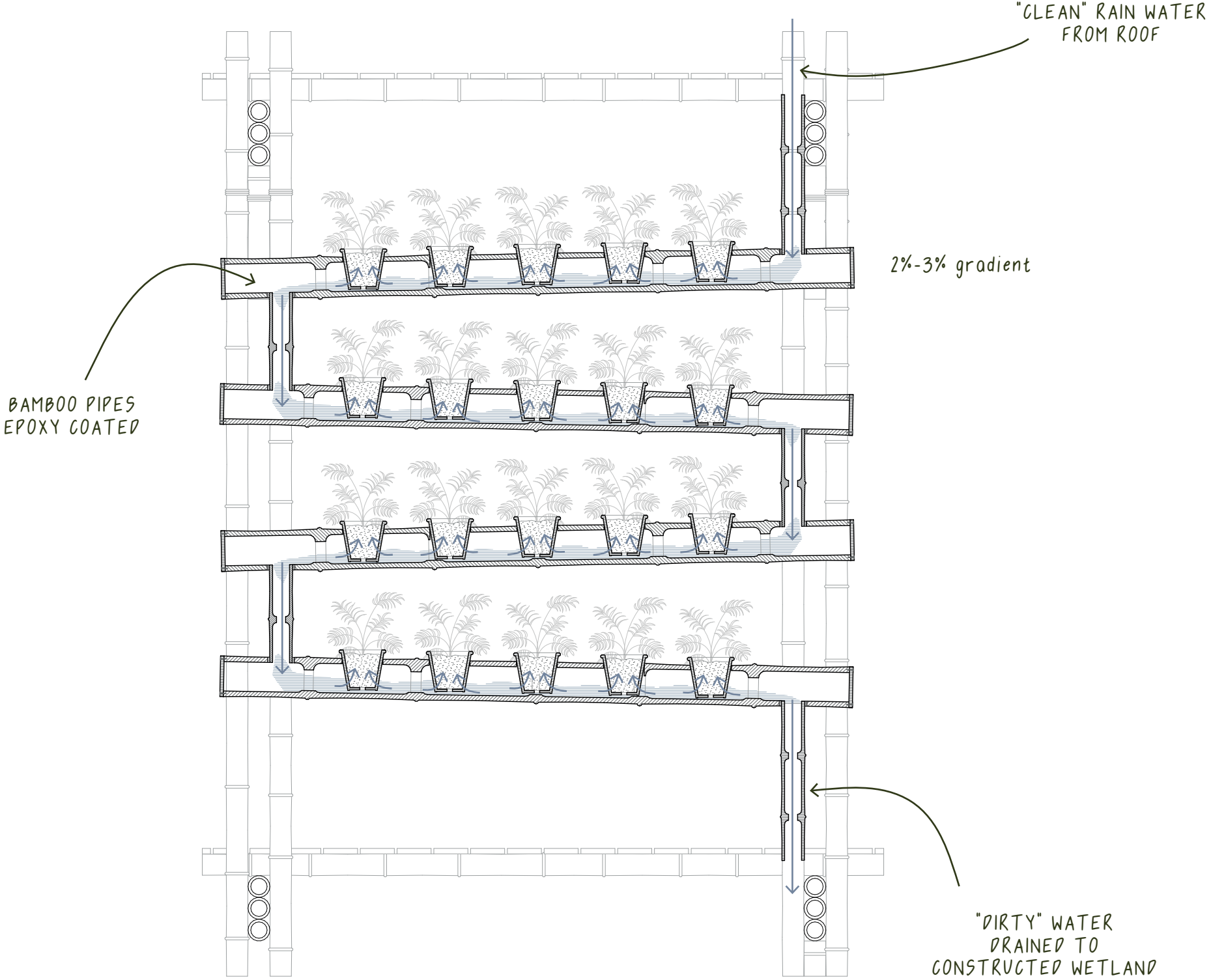
FLOATING ON WATER



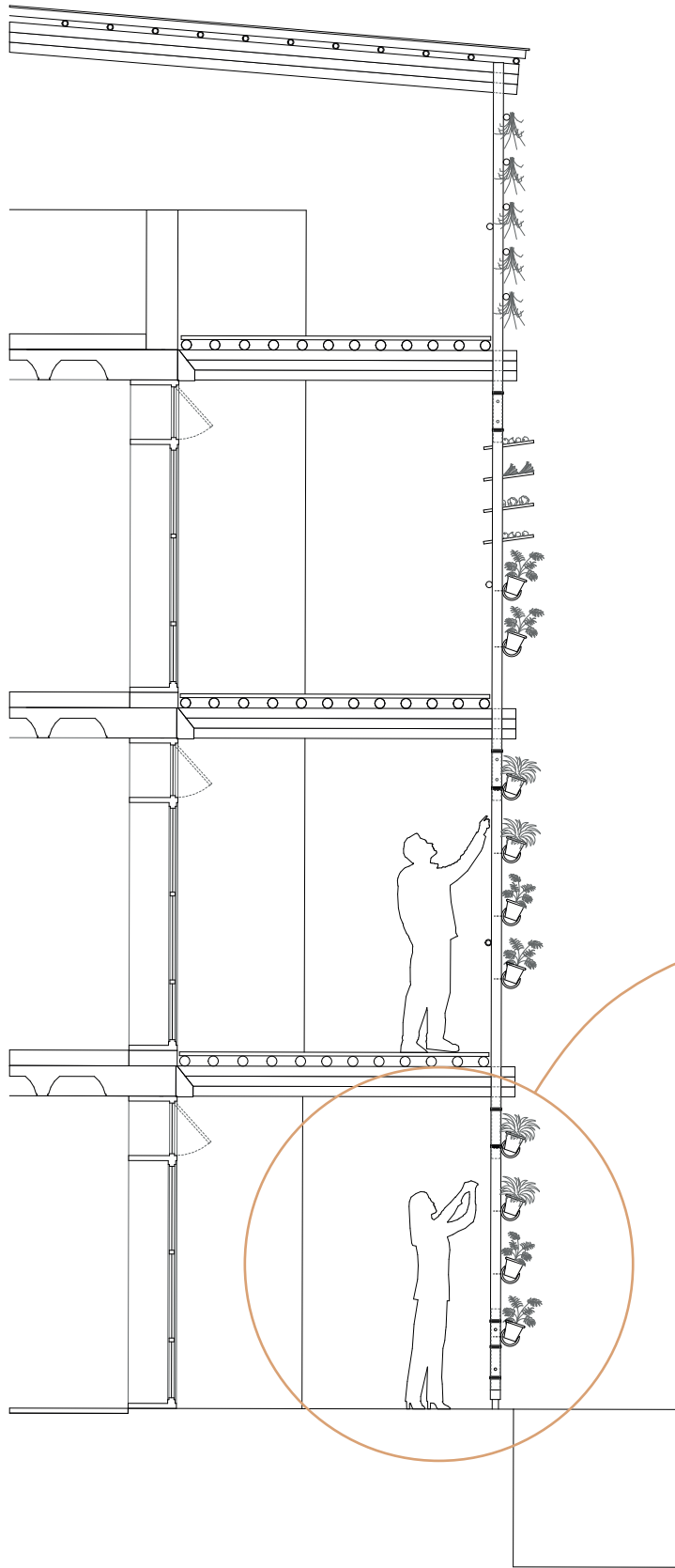
DRY SEASON

CONNECTED TO GROUND

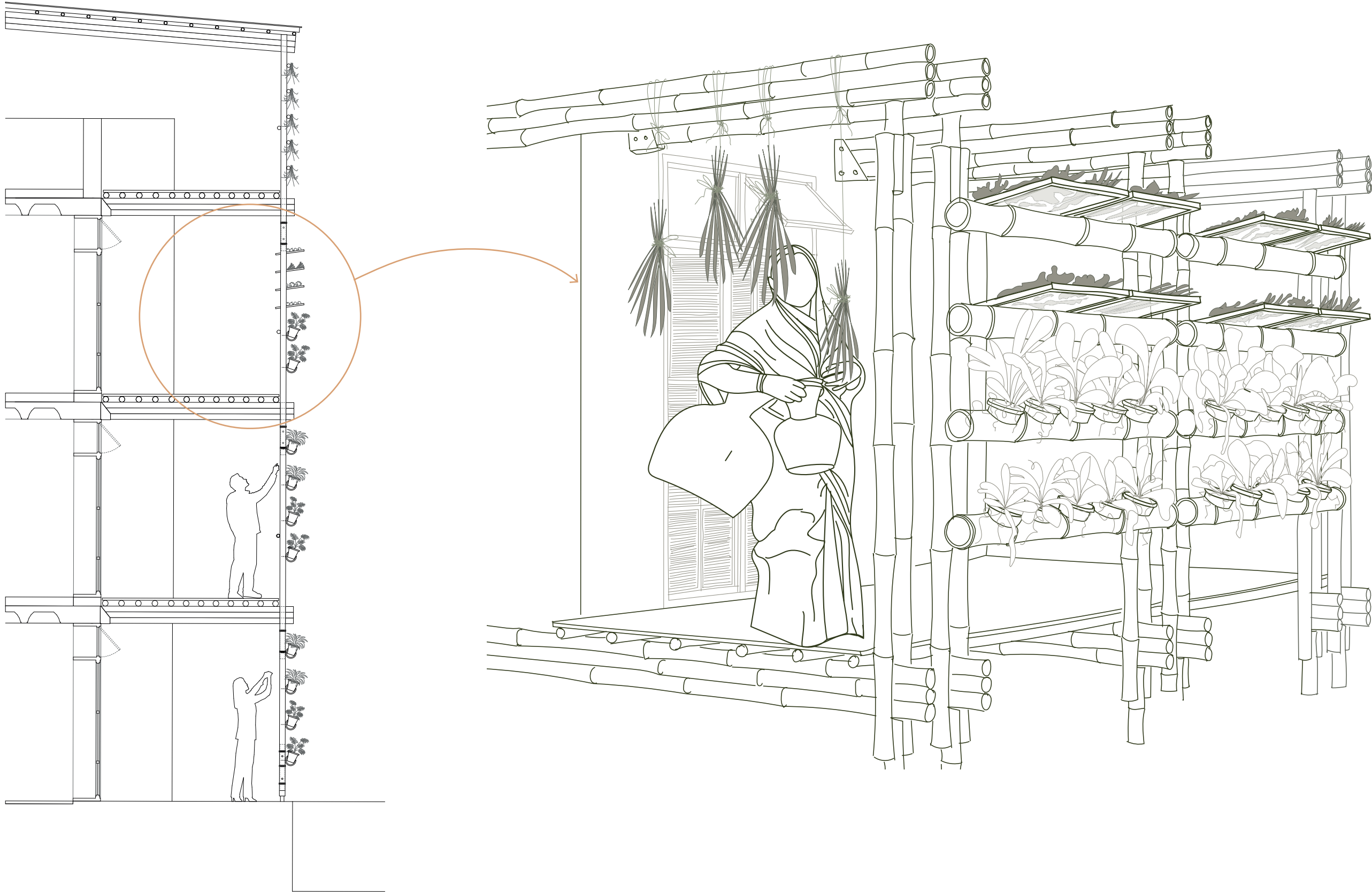




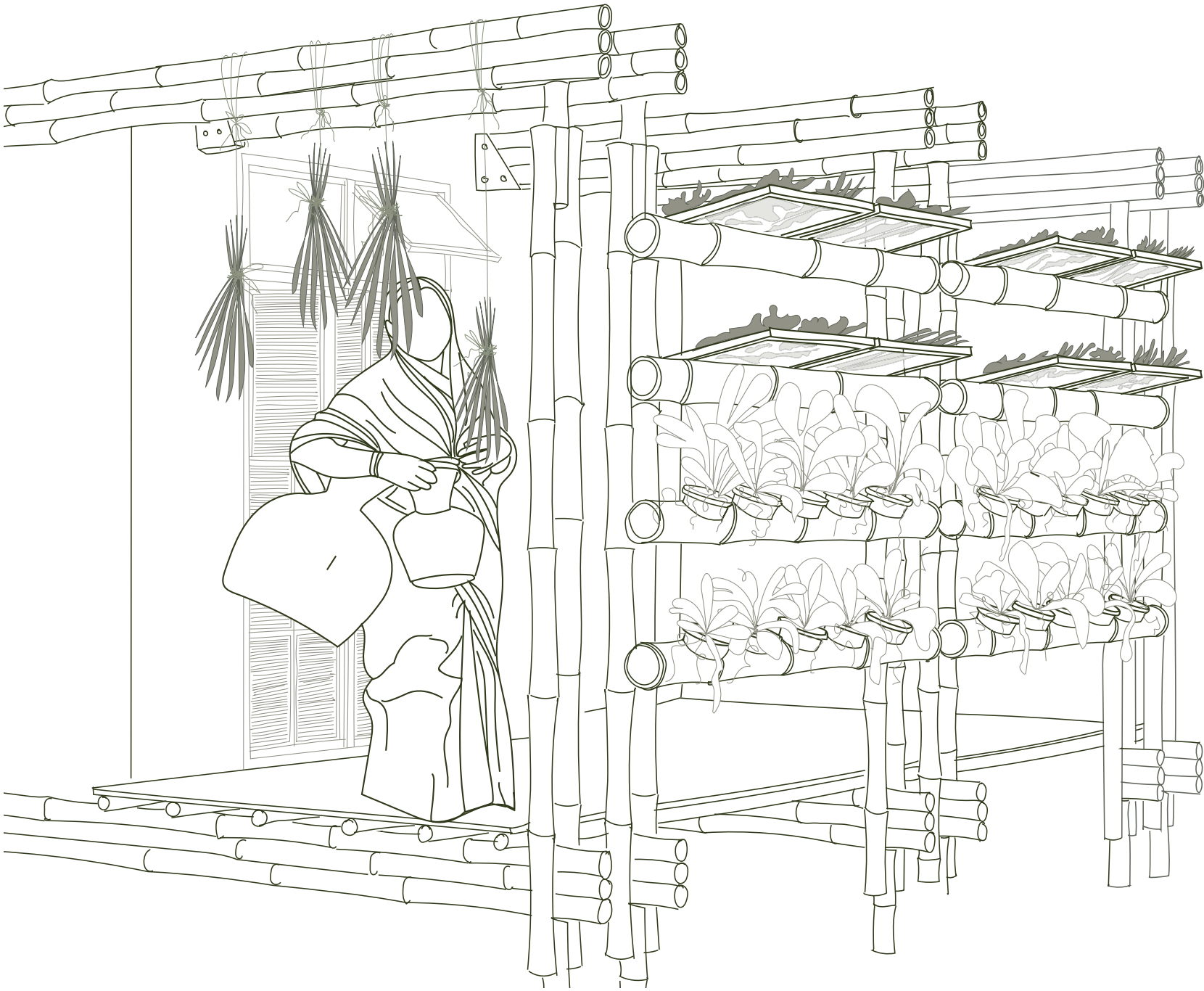
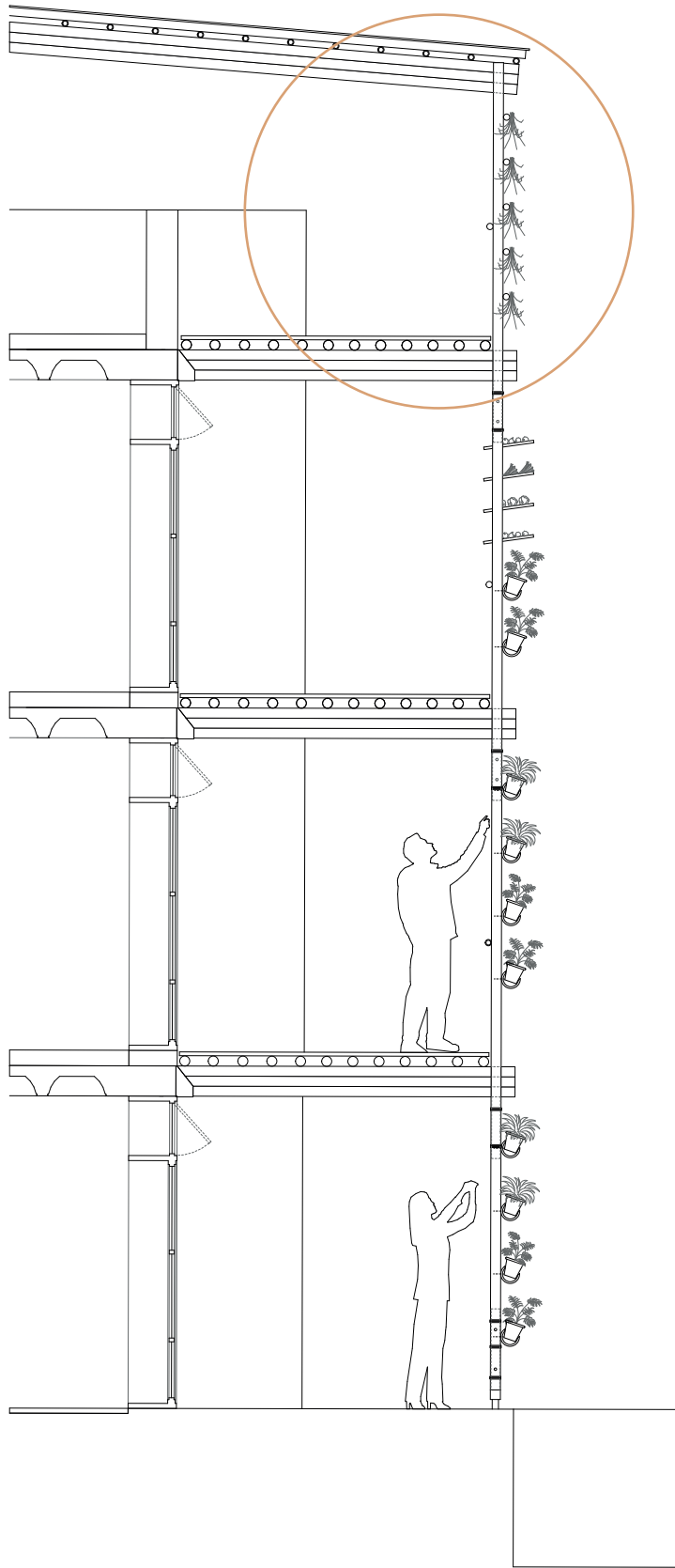
PLANTING | HARVESTING



DRYING

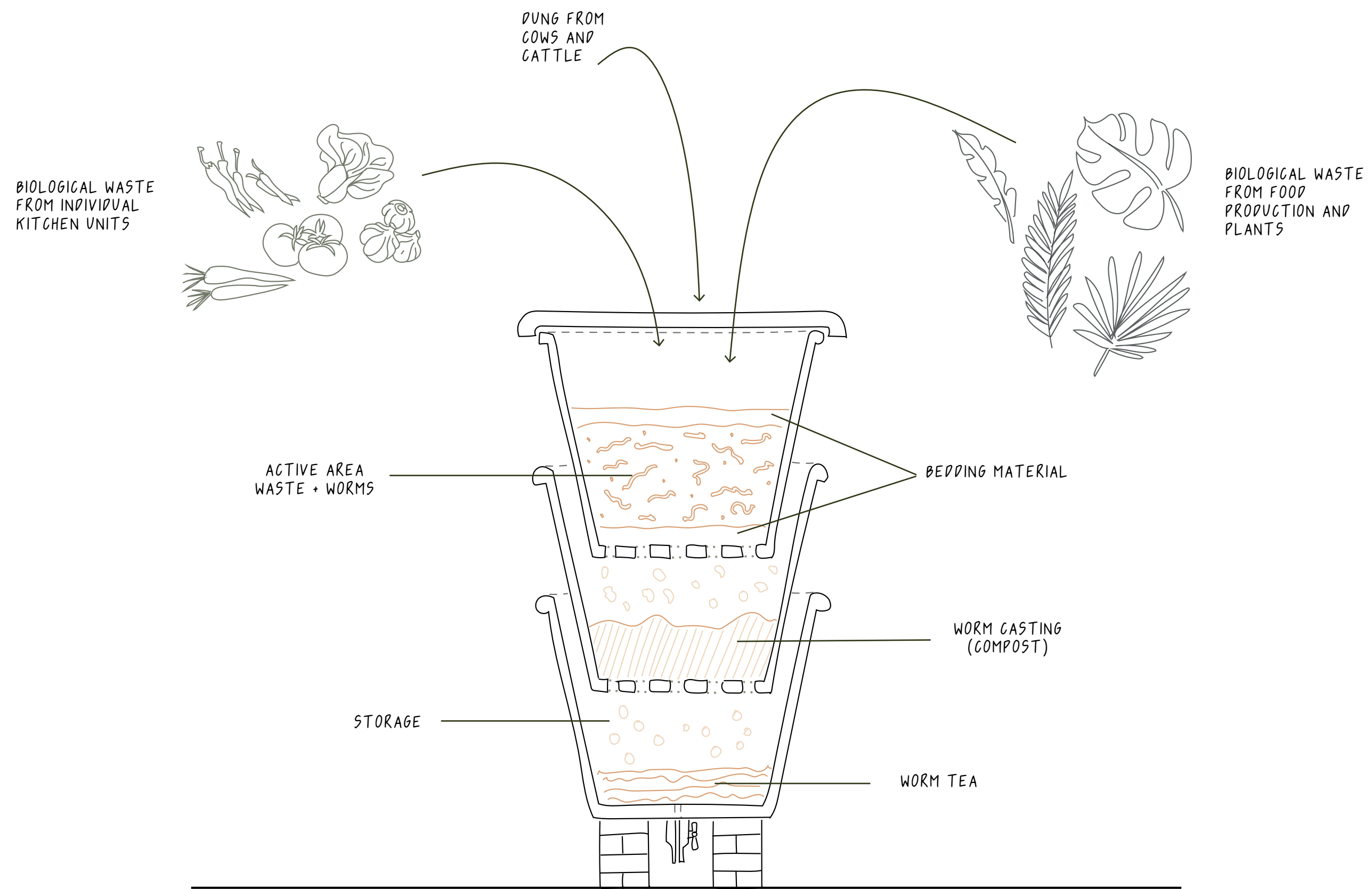


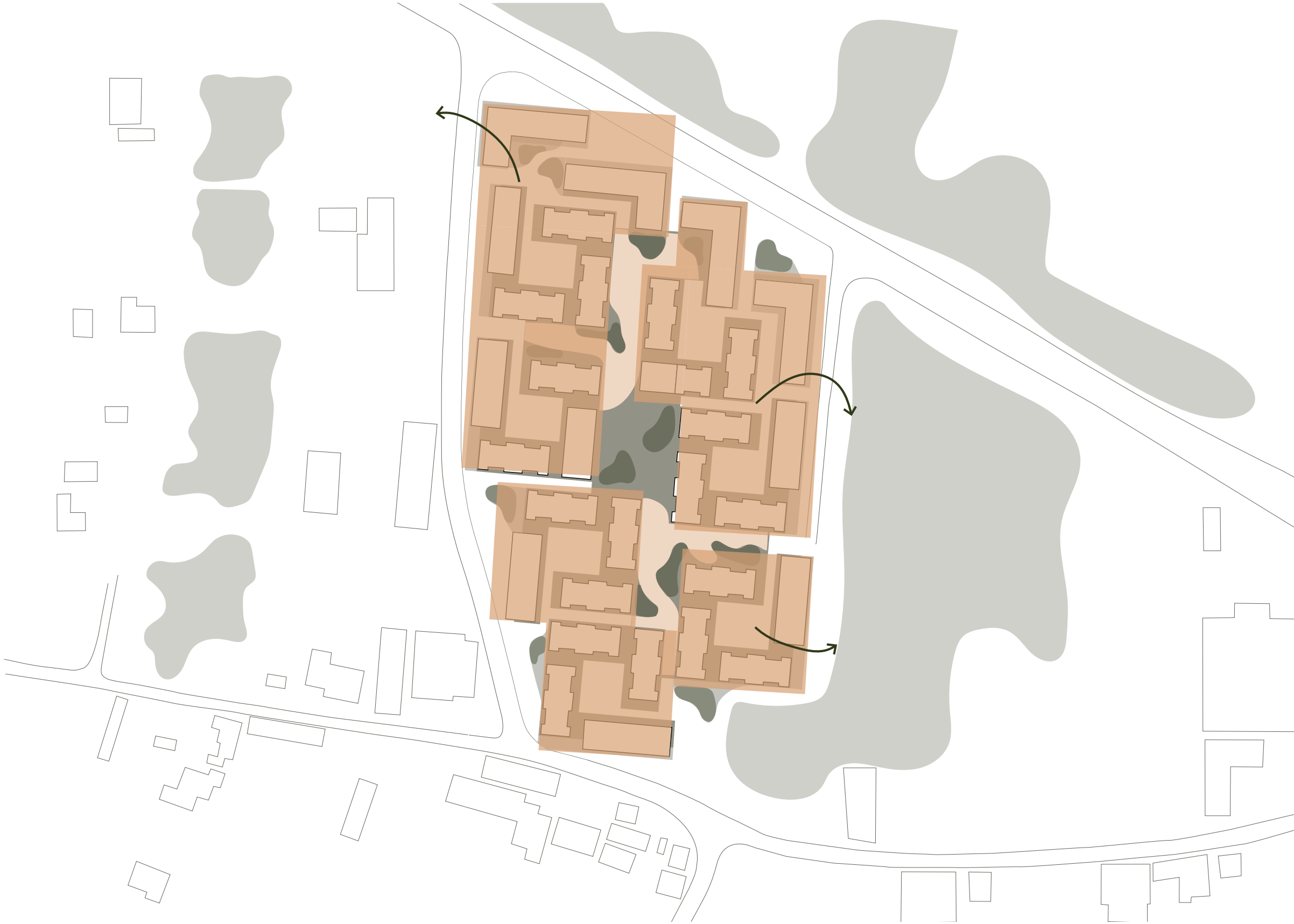
STORING



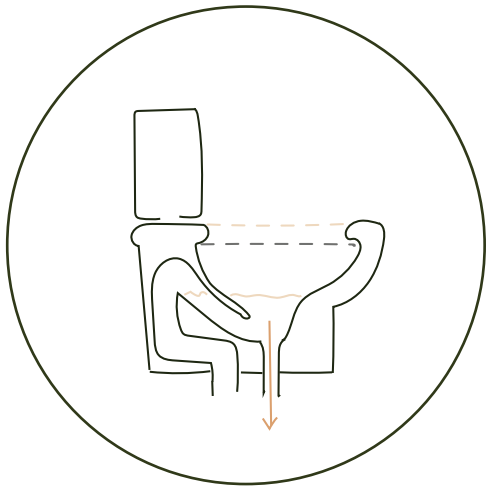








TOILET LIQUIDS



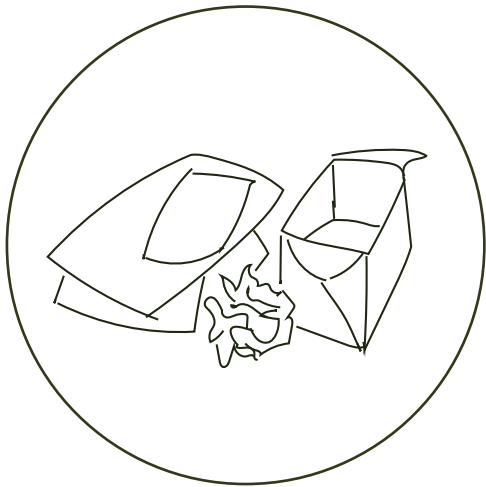
LIQUIDS SEPERATED
IN SEPTIC TANK

NITROGEN

POTASSIUM

PHOSPHORUS

PAPER WASTE



PAPER + CARTON

FIBRES

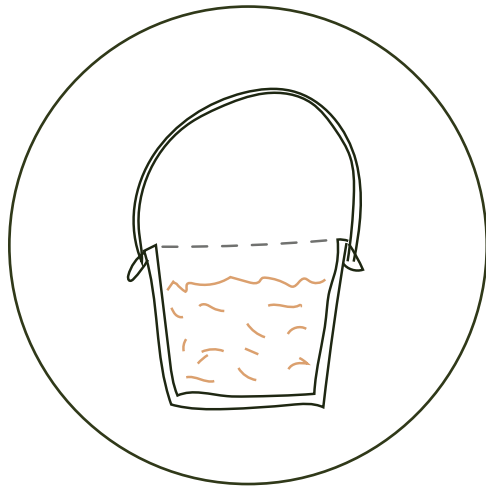
PLANTS | FIBRES



PLANTS + WASTE FROM
RICE PRODUCTION

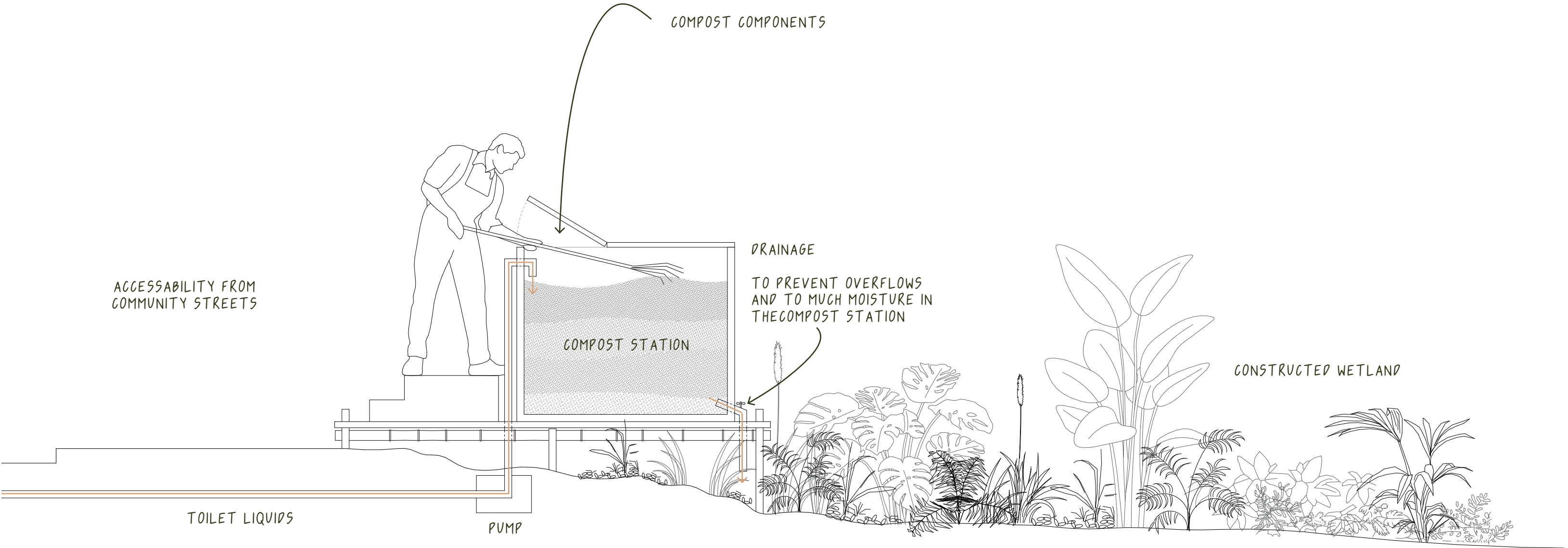
FIBRES

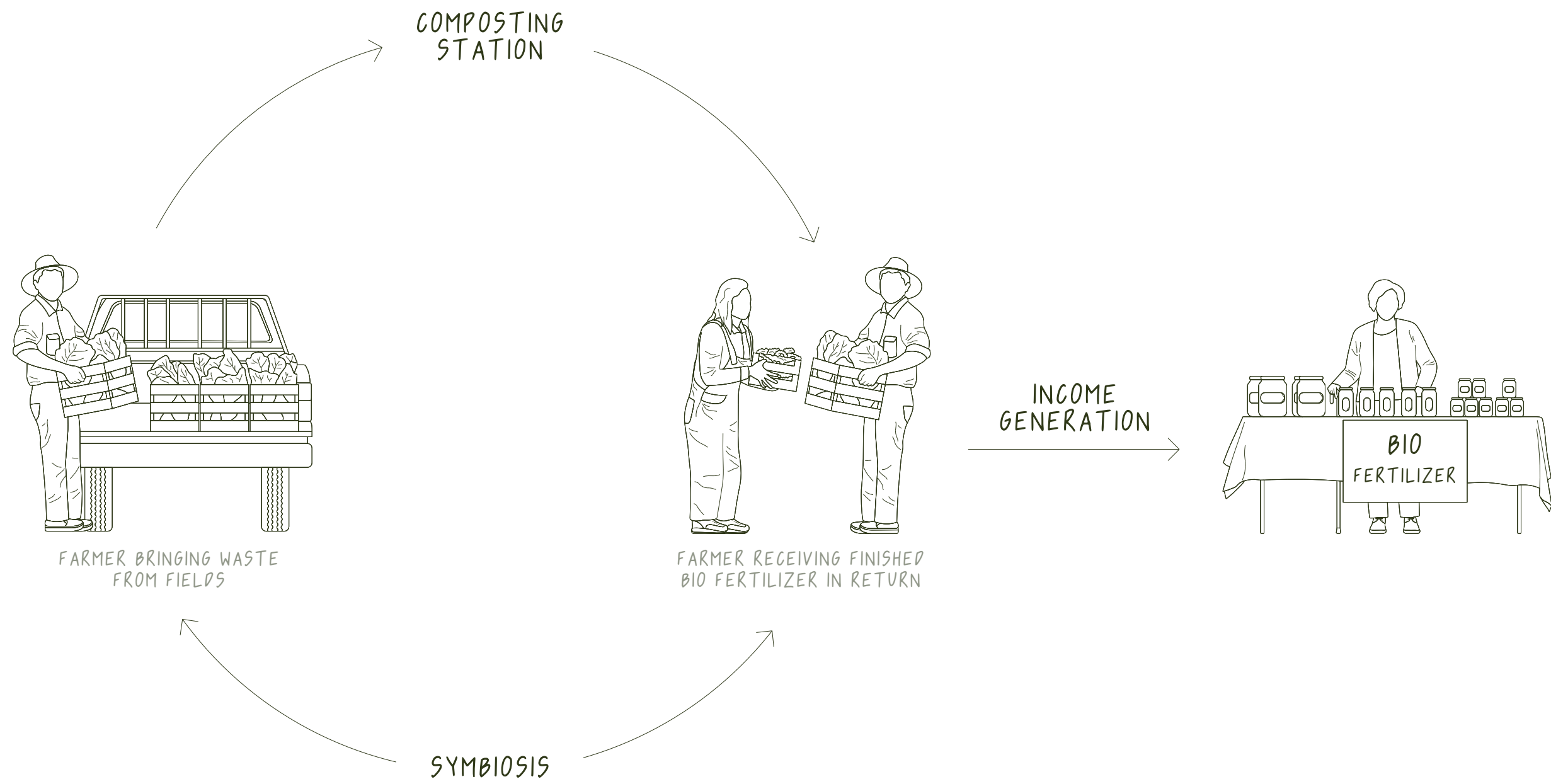
COMPOST



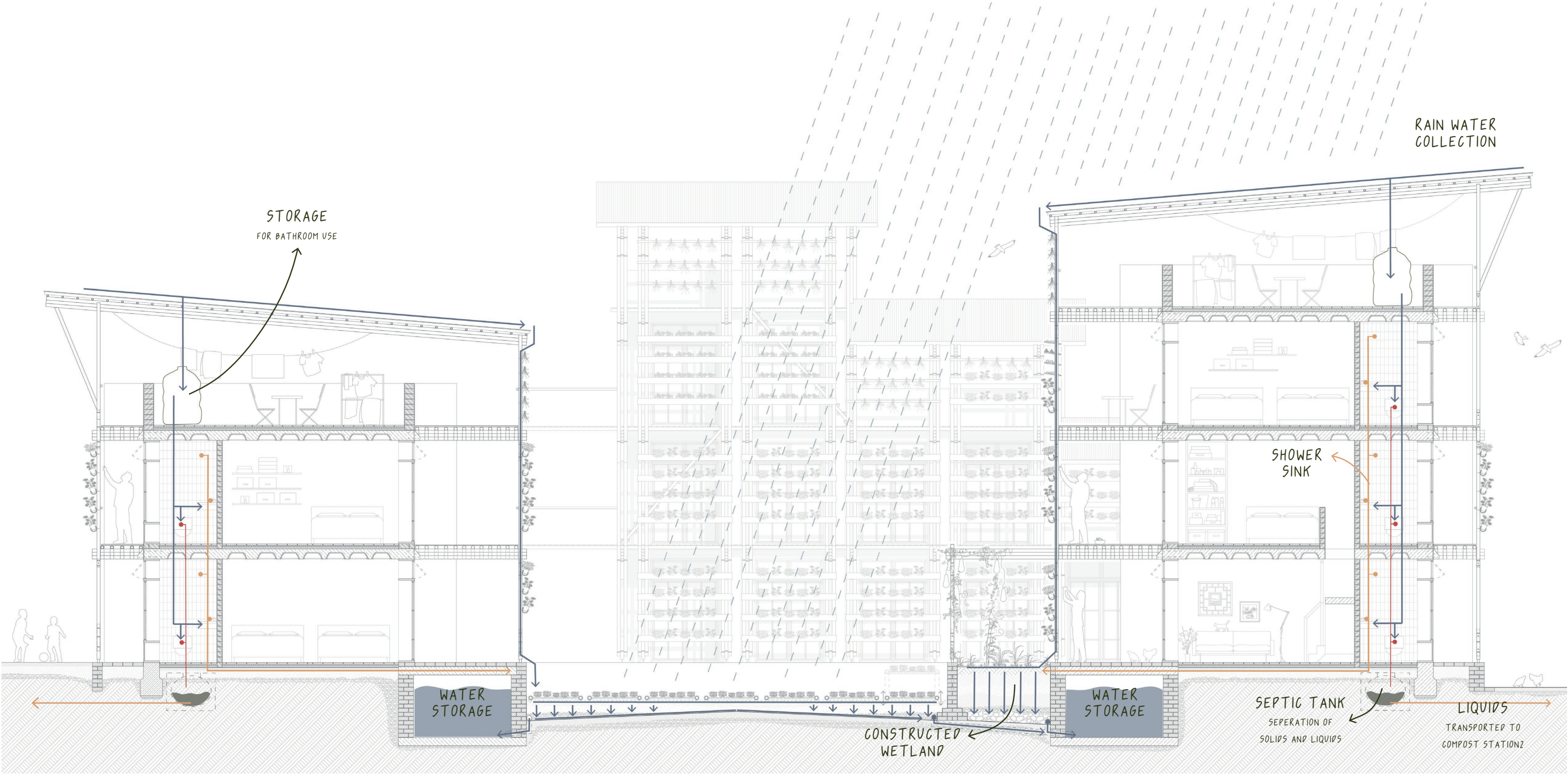
FINISHED COMPOST FROM
CLUSTER STATION

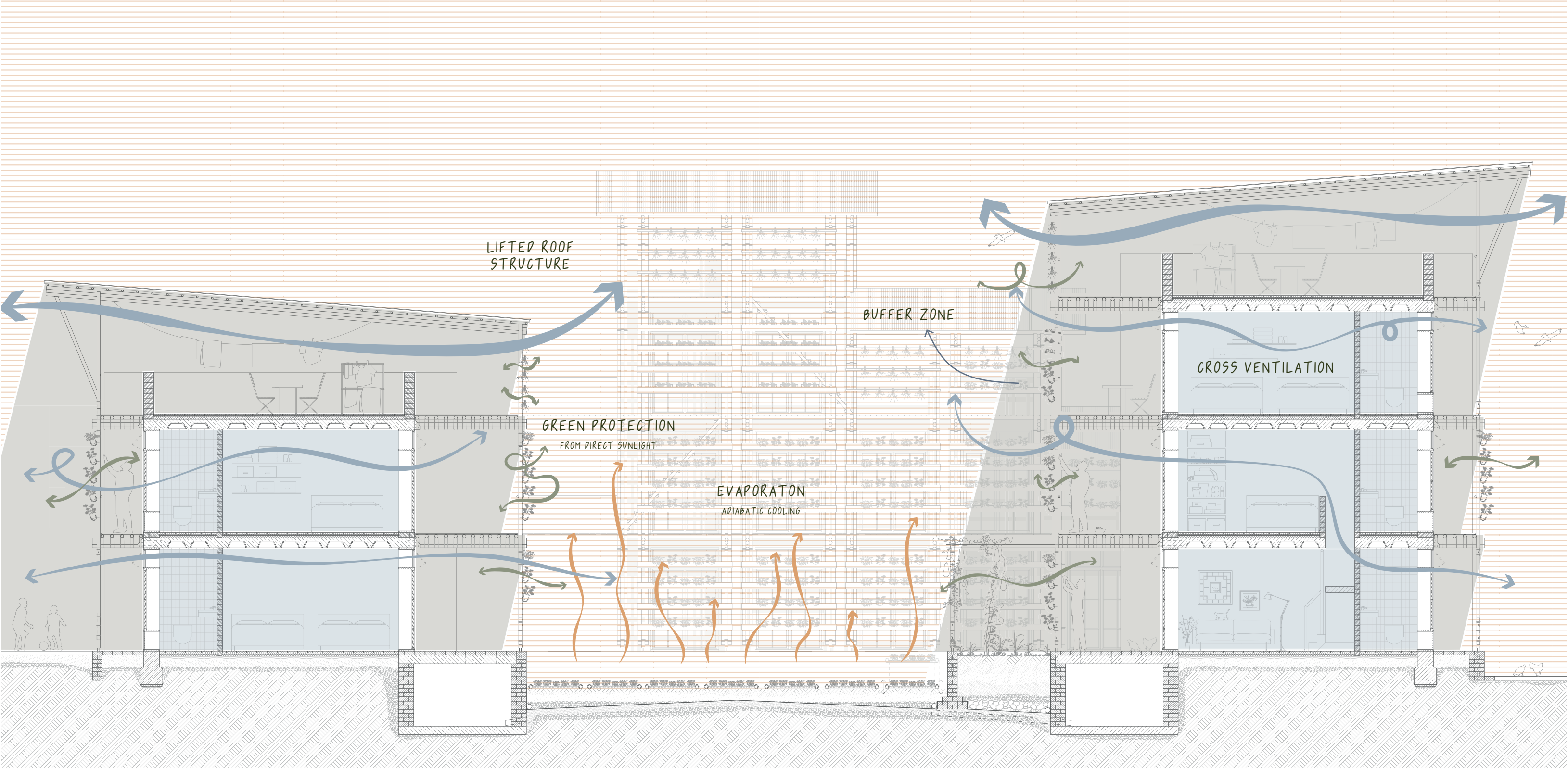
FIBRES

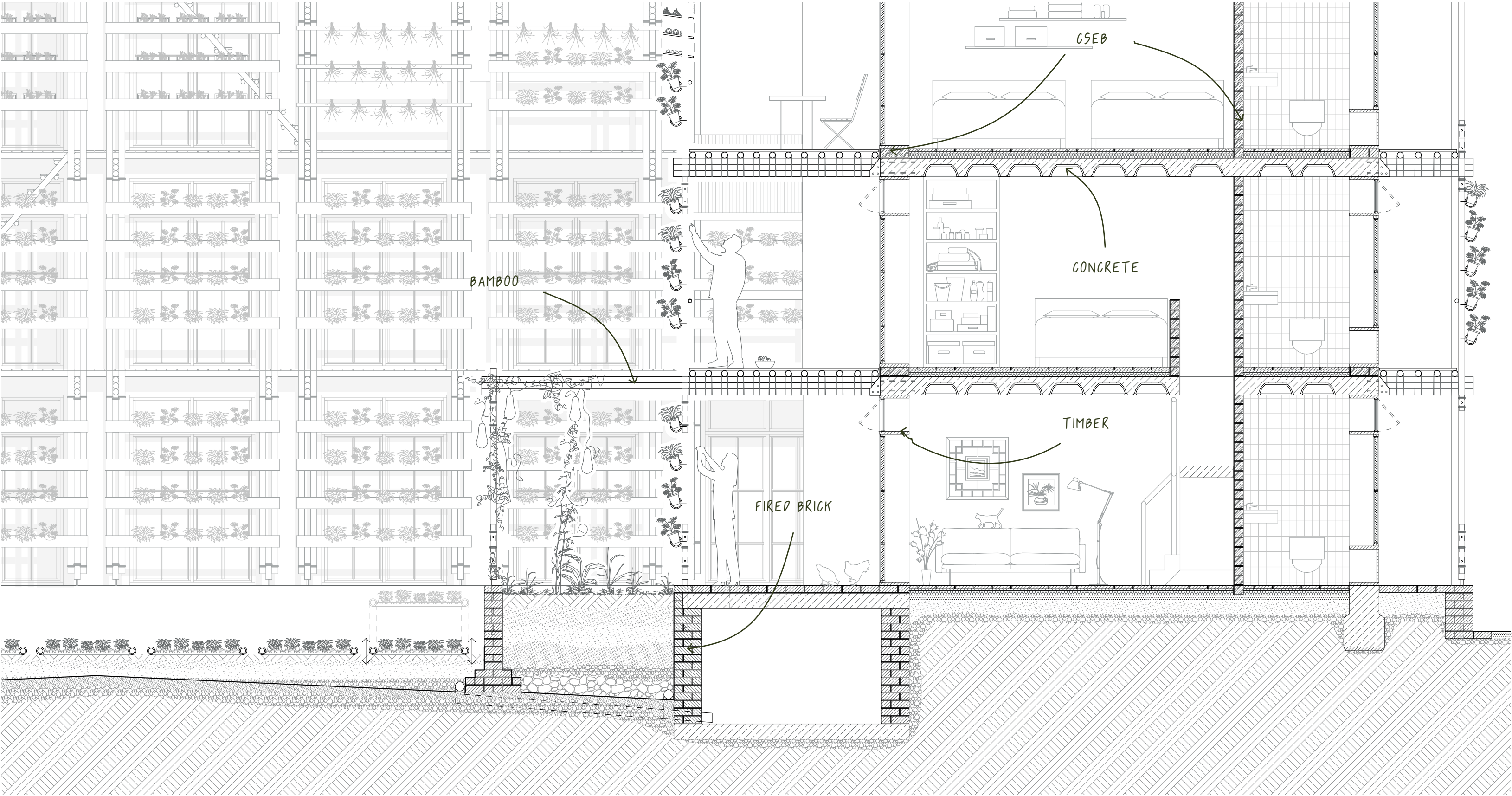










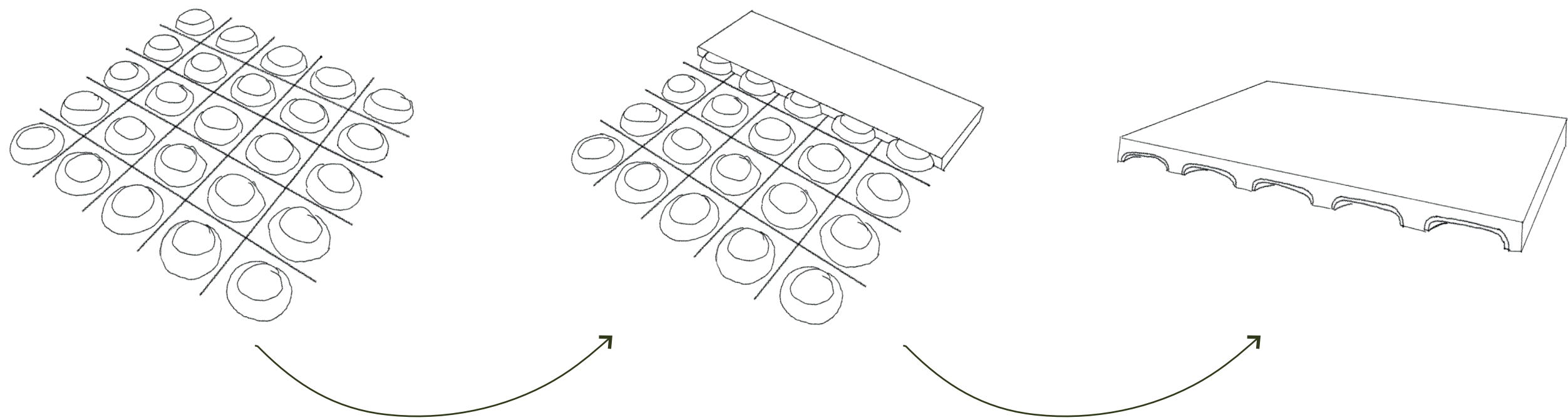


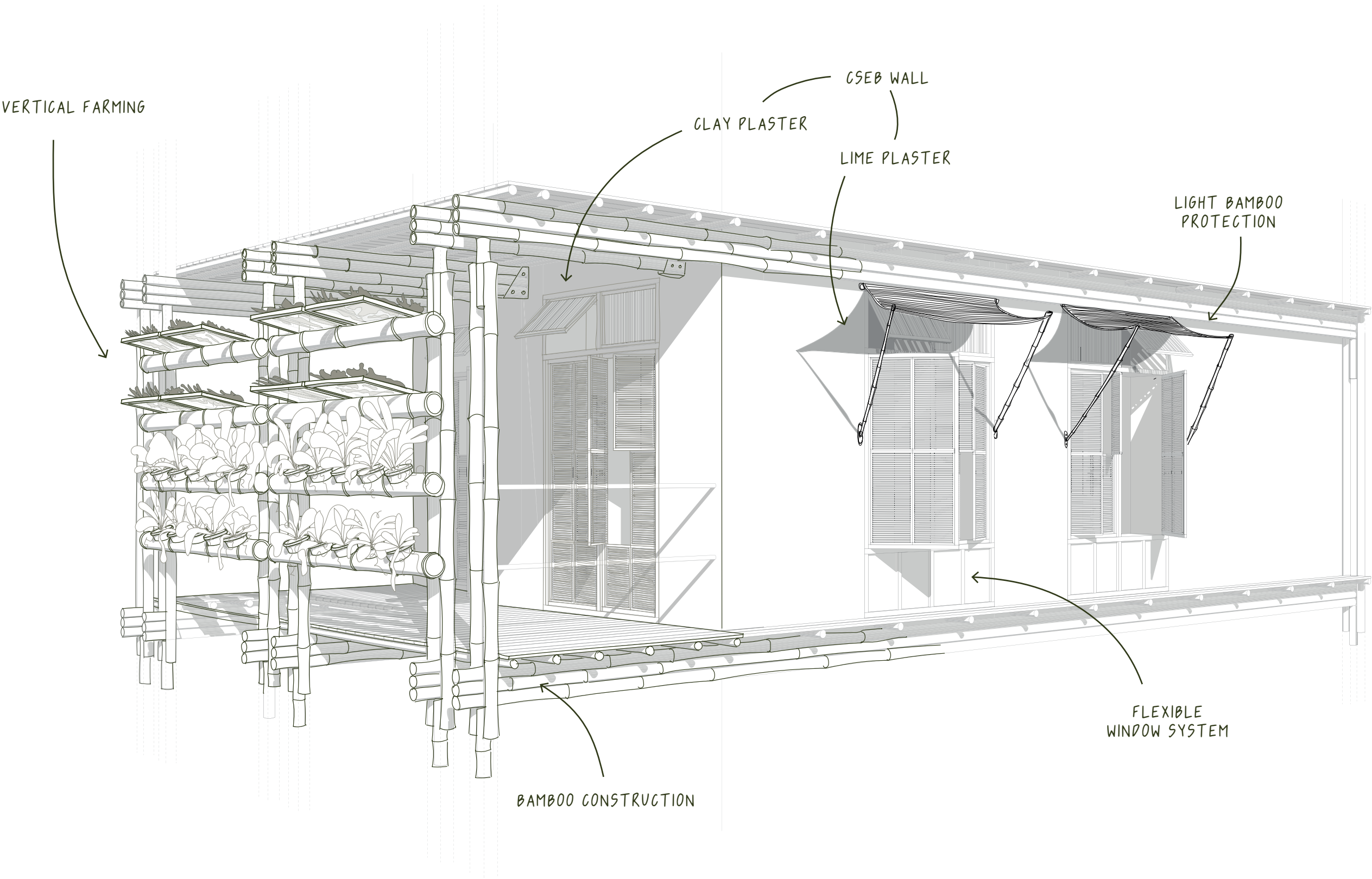
ca. 20%

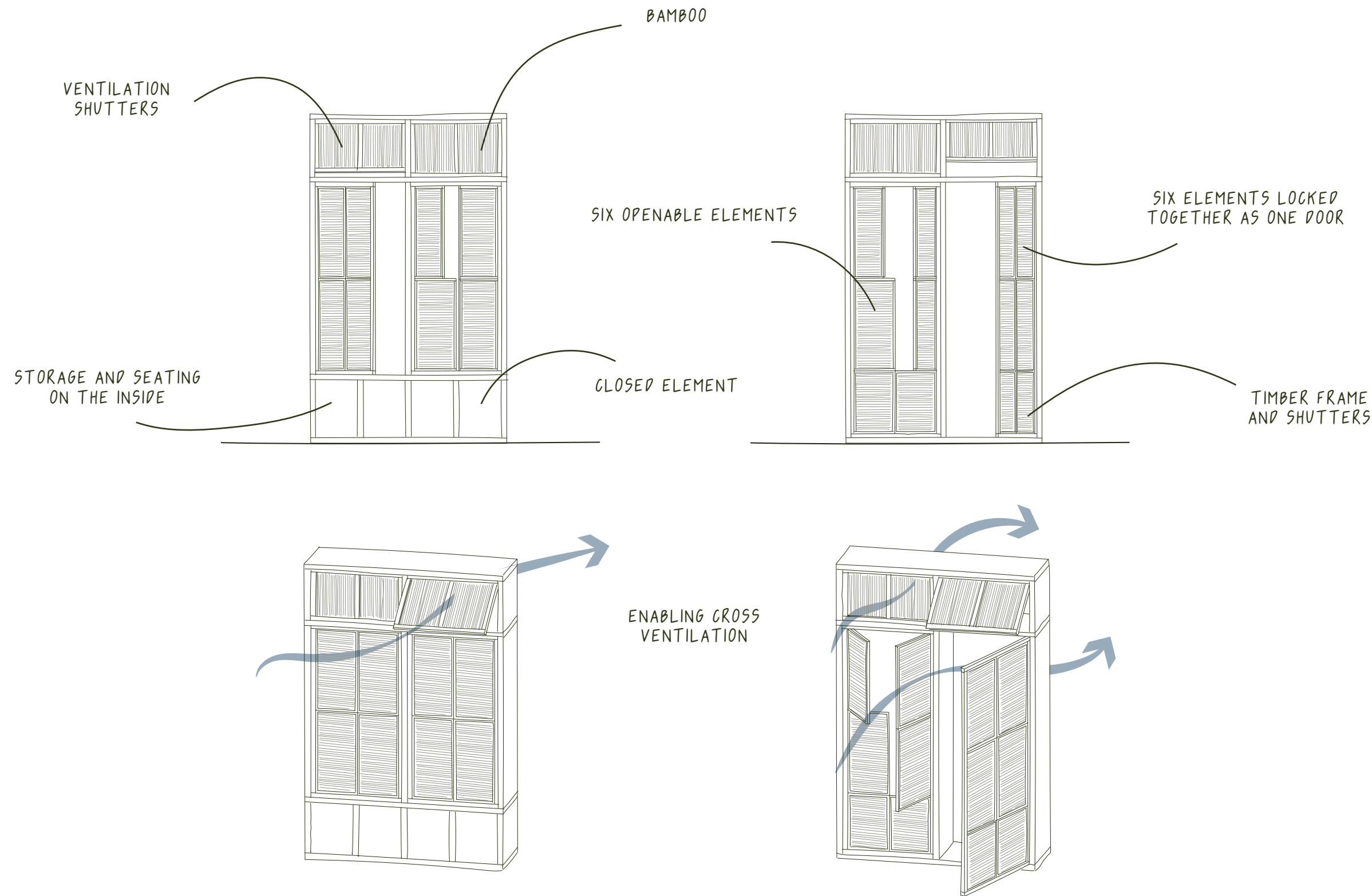
LESS CONCRETE

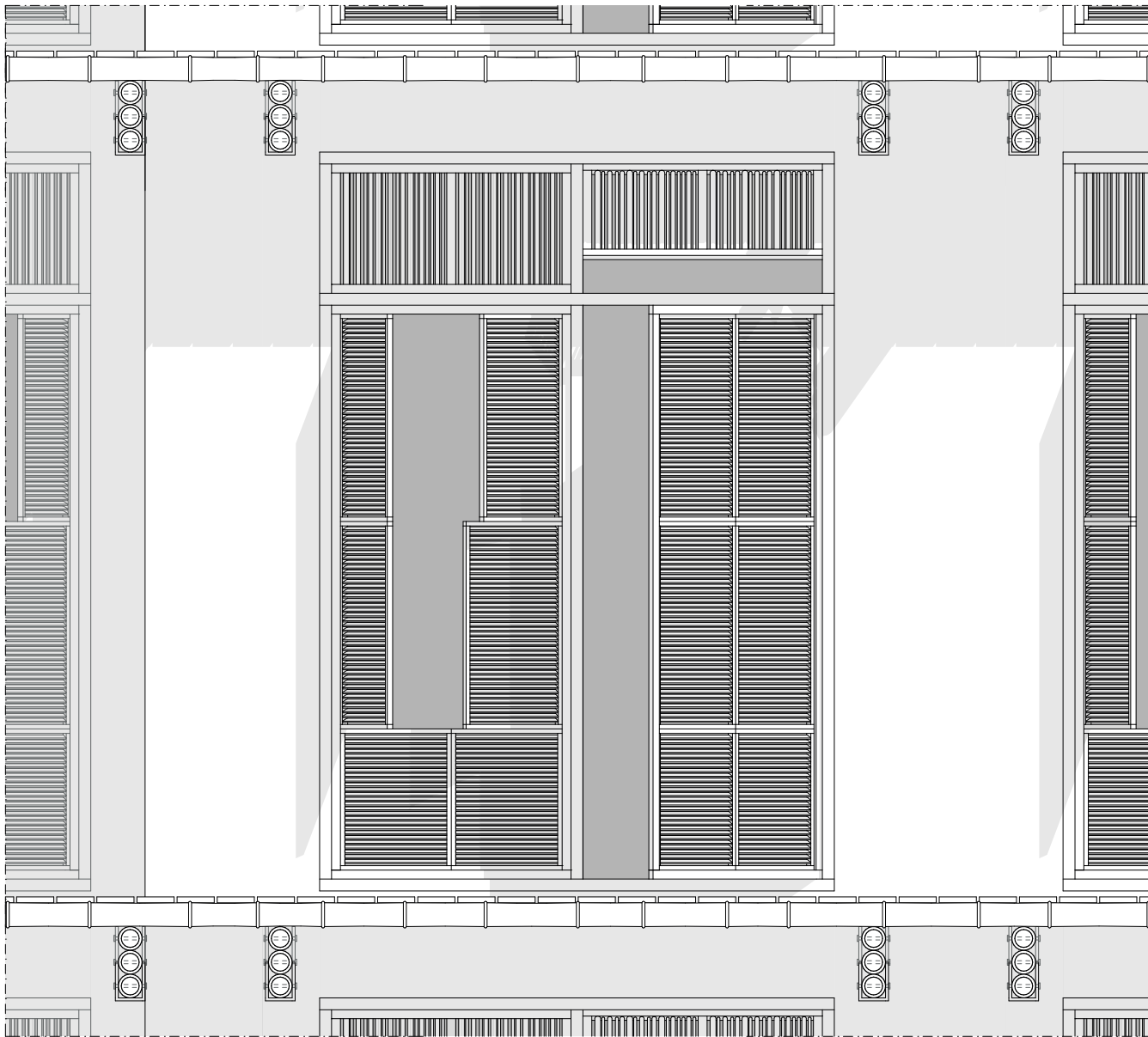
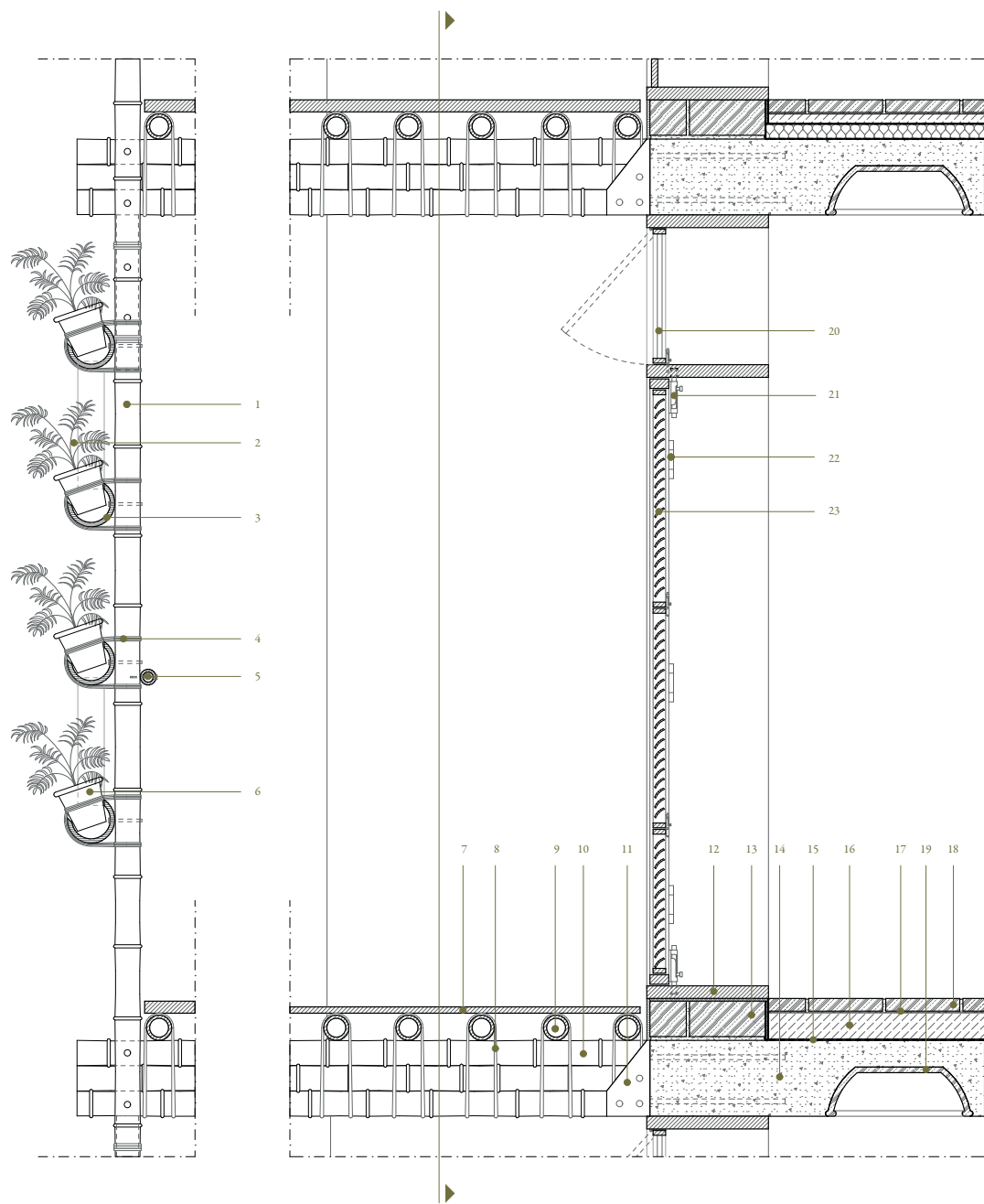
ca. 30%

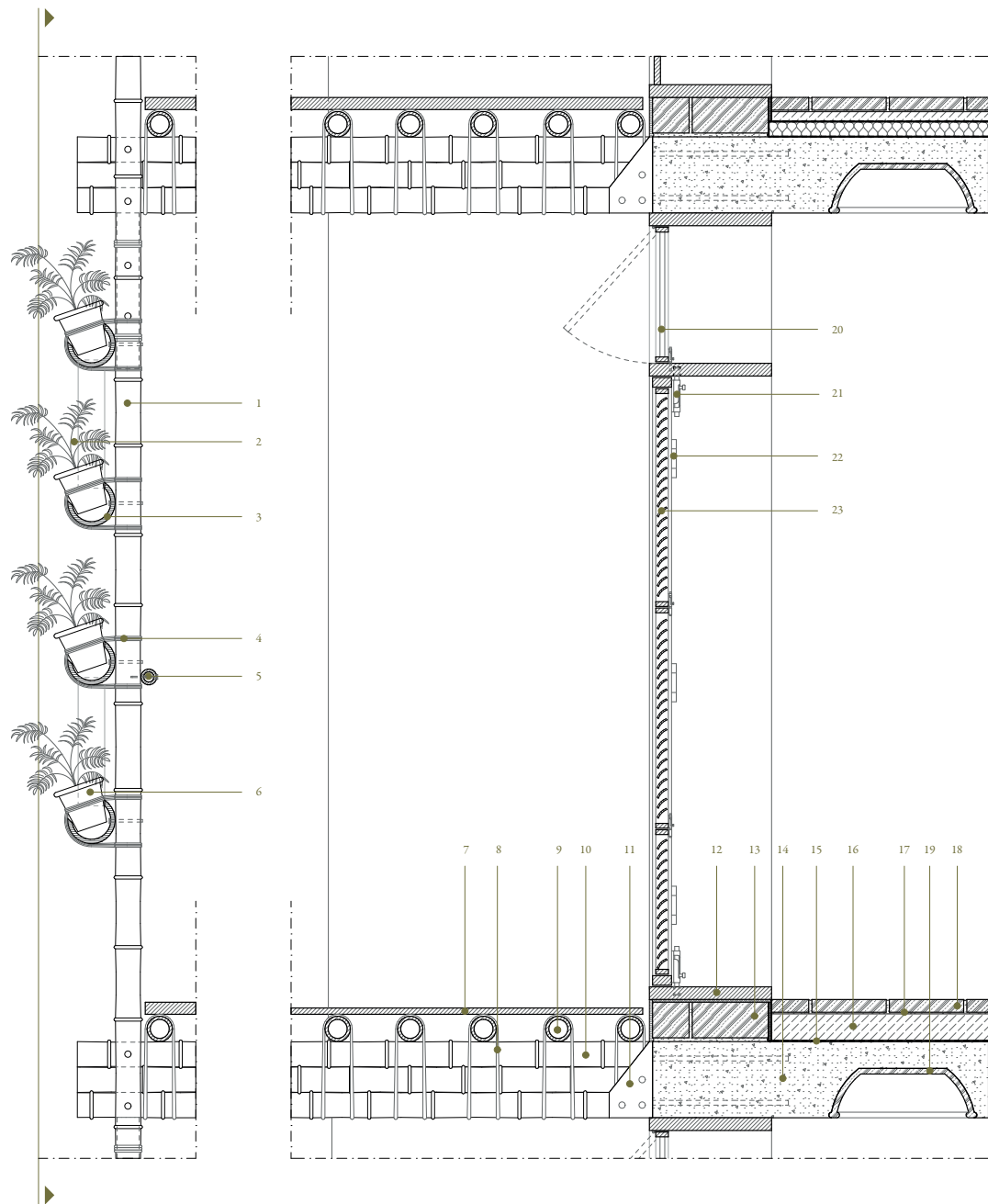
LESS STEEL REINFORCEMENT

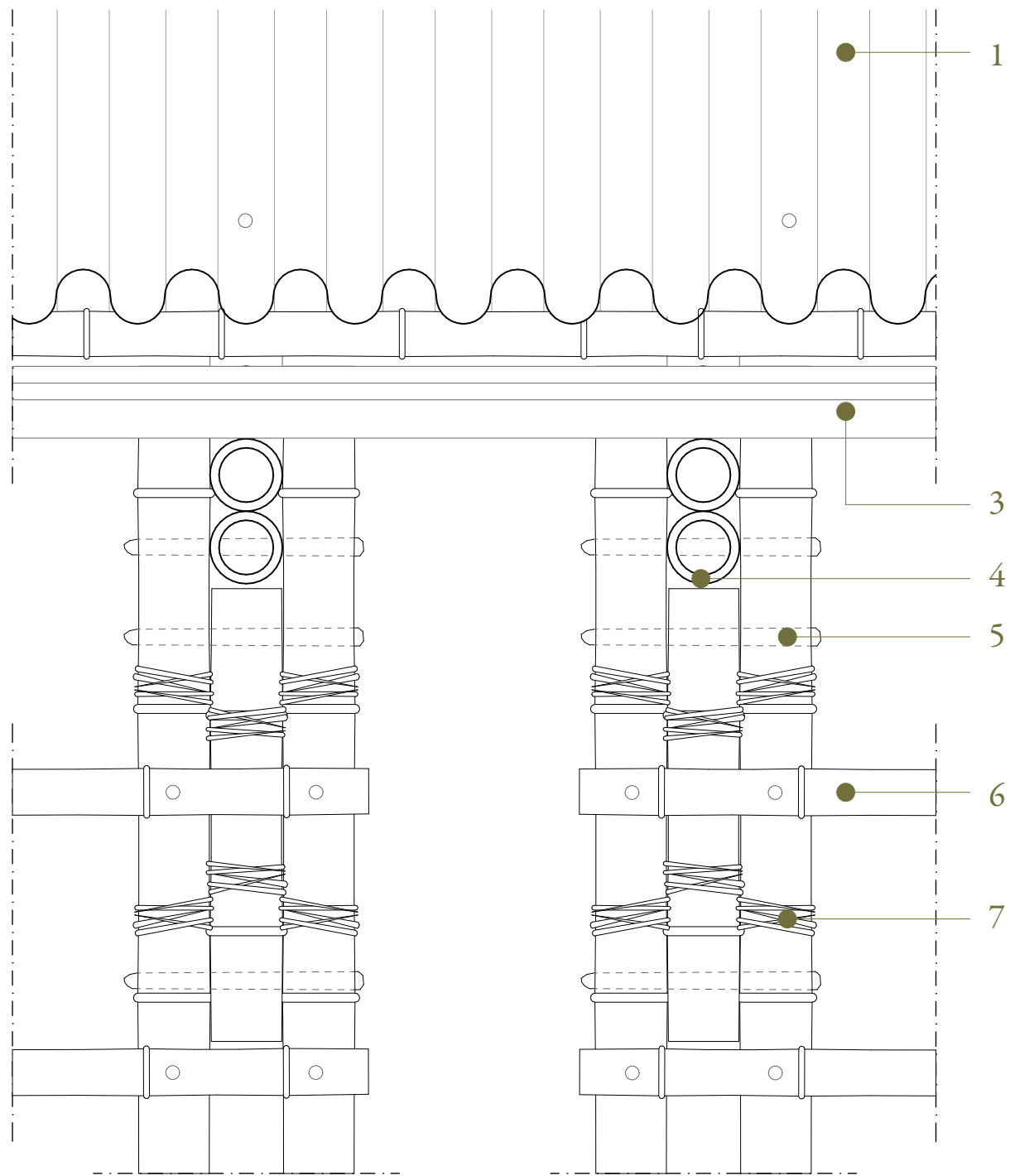




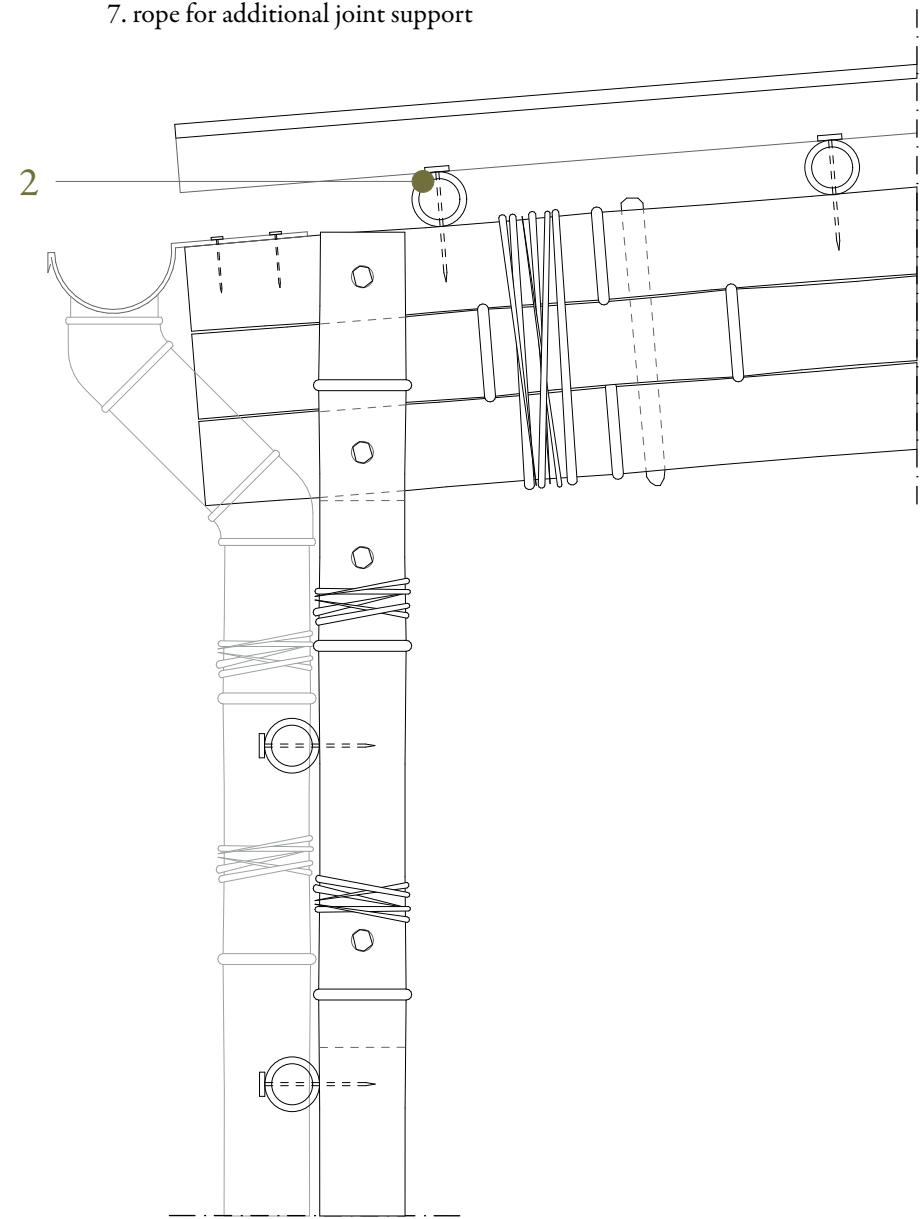


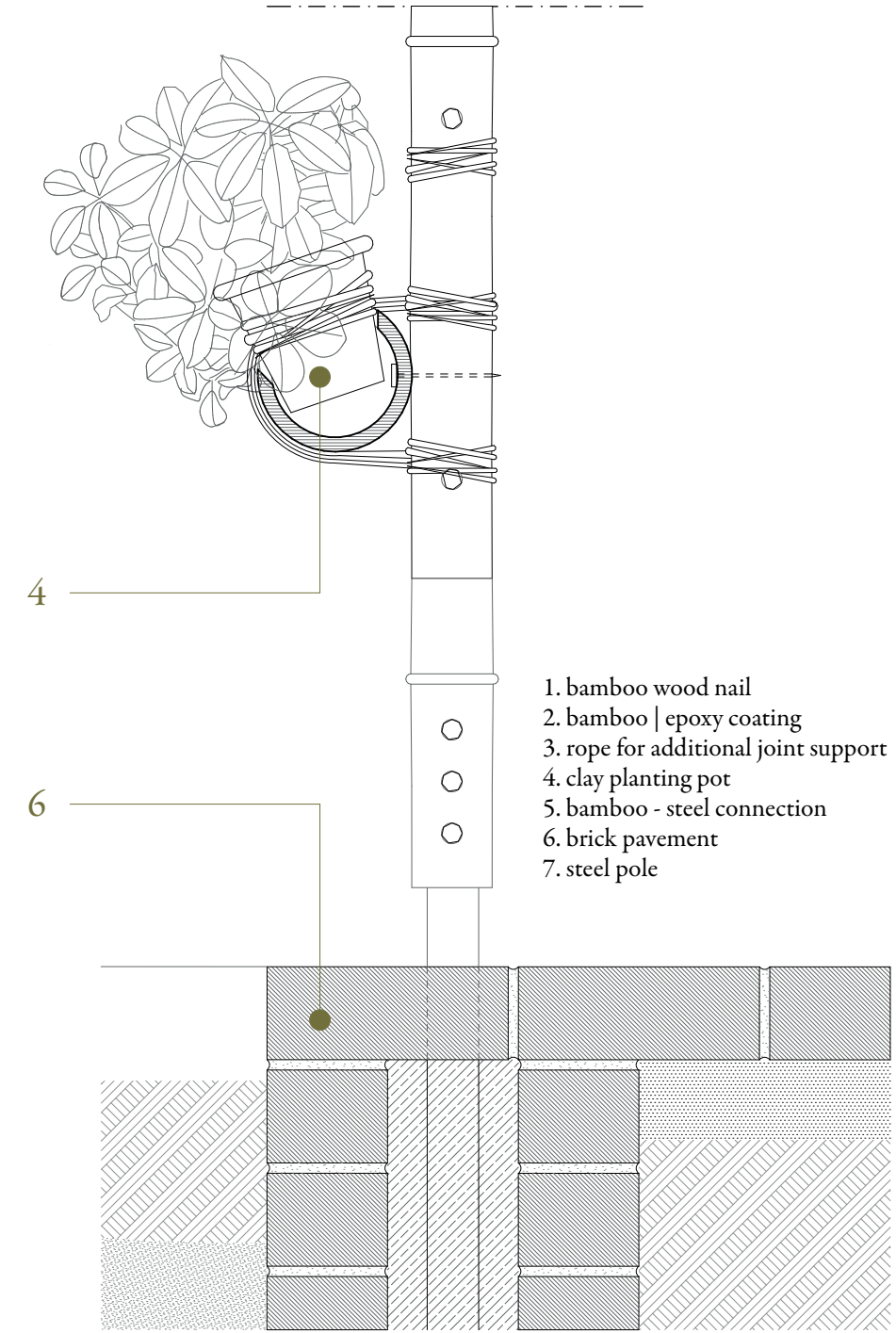
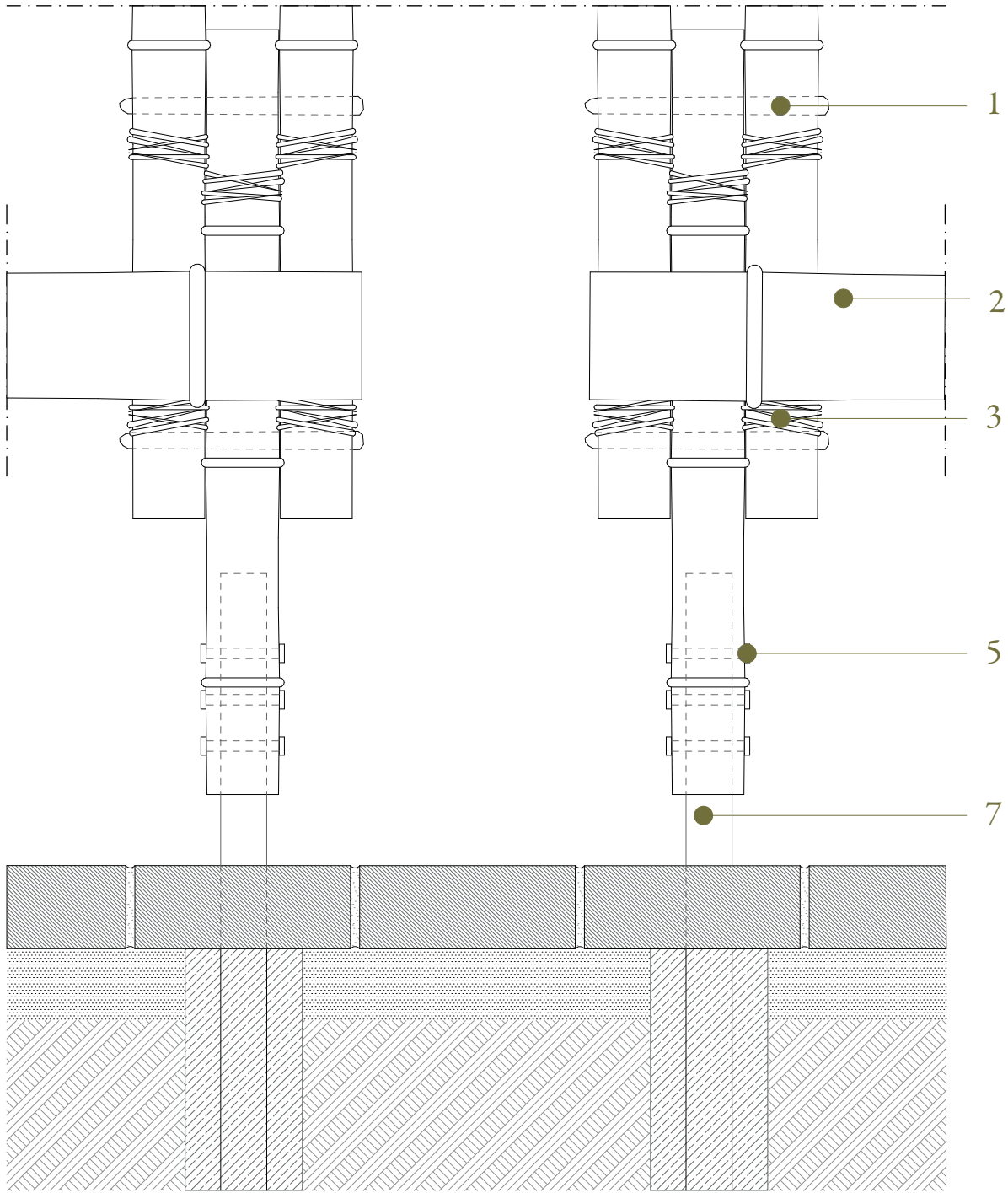






- 1. corrugated iron sheet 3 x ø 8 cm
- 2. bamboo ø 5 cm
- 3. rain gutter
- 4. bamboo beam - 3 connected bamboo poles 3 x ø 8 cm = 24 cm x 8 cm
- 5. bamboo wood nail
- 6. horizontal bamboo (drying support) ø 6 cm
- 7. rope for additional joint support





- 1. bamboo wood nail
- 2. bamboo | epoxy coating
- 3. rope for additional joint support
- 4. clay planting pot
- 5. bamboo - steel connection
- 6. brick pavement
- 7. steel pole

