

P5

BACK TO THE ROOTS

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30 - 06 - 2022

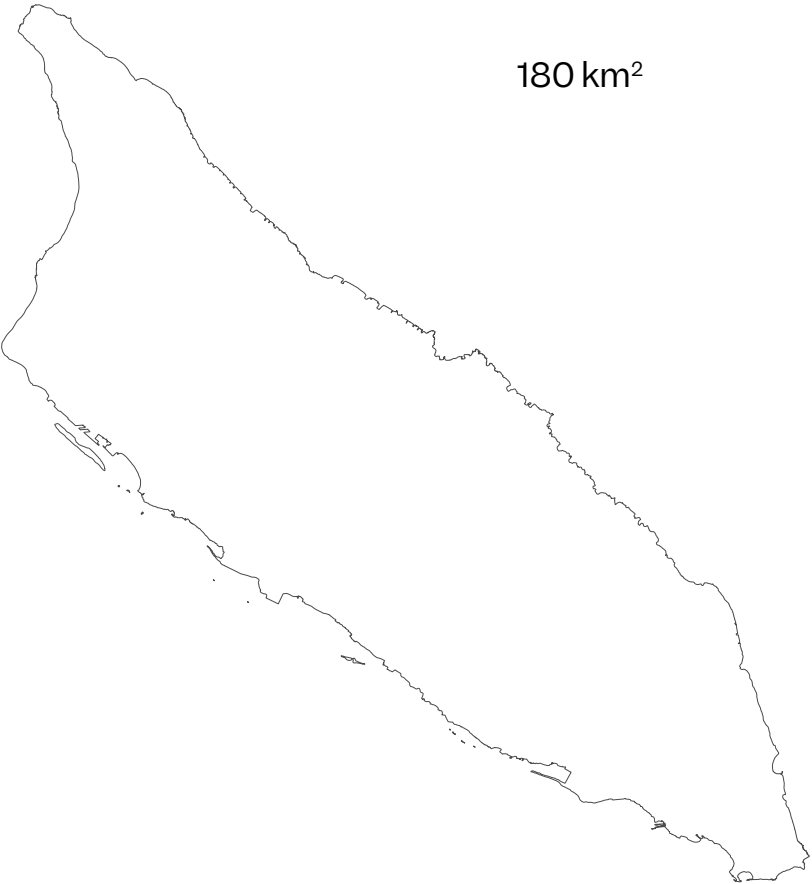
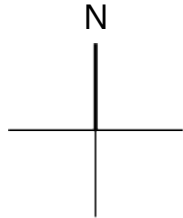
ARCHITECTURAL ENGINEERING

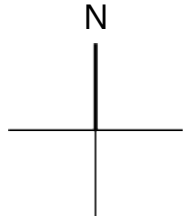
CONTEXT	ARUBA
PROBLEM STATEMENT	WHY
CONCEPT	HOW
ARCHITECTURAL DESIGN	WHAT





BACK TO THE ROOTS





BACK TO THE ROOTS



BACK TO THE ROOTS





PREVAILING WIND DIRECTION

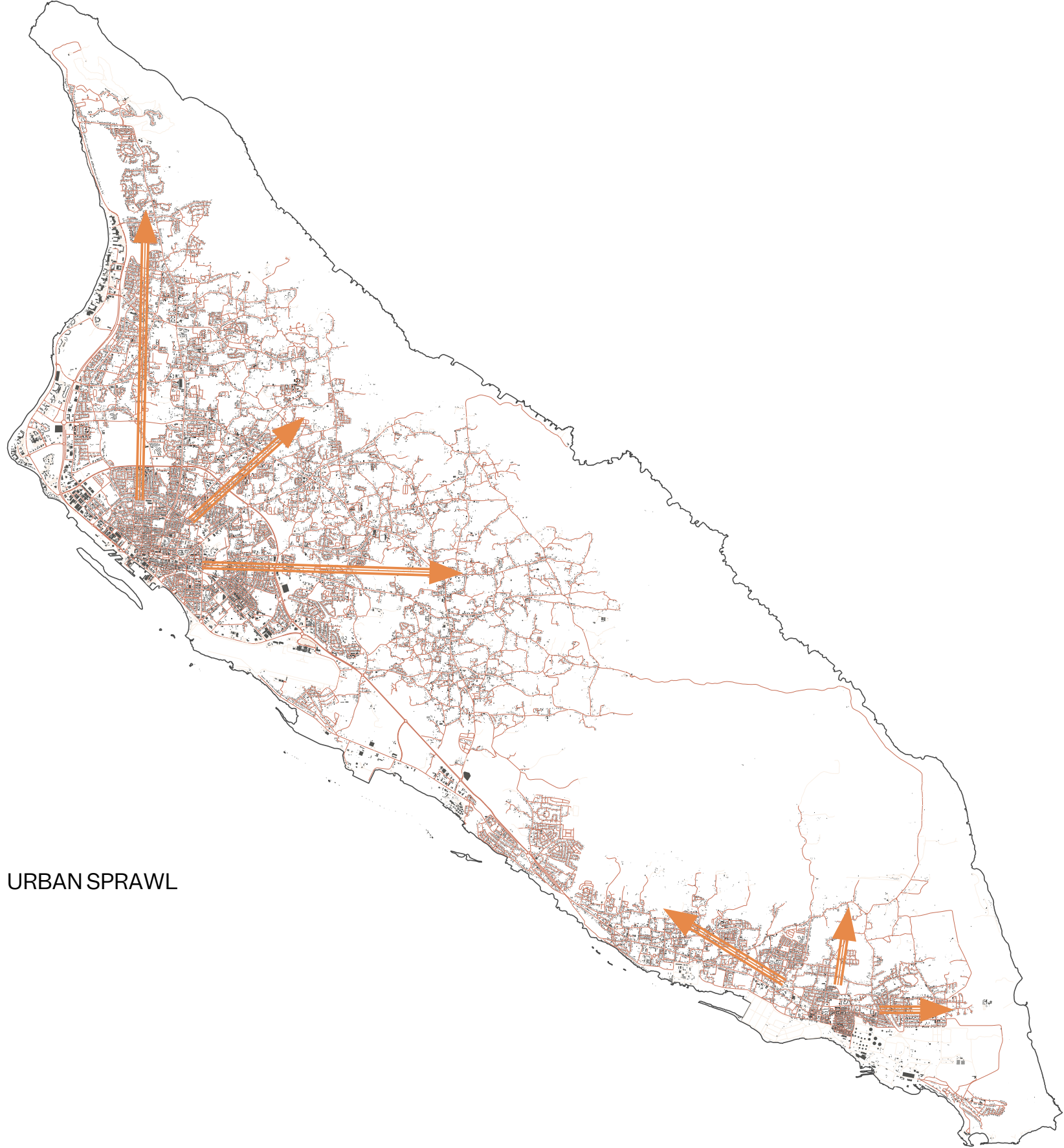




FIRST HOTEL IN 1963



RIU HOTEL - BUILT IN 2007



URBAN SPRAWL



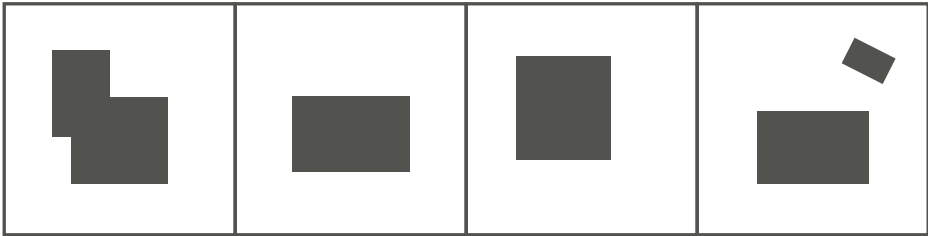
PRIKICHI - BROWN NECKED PARAKEET



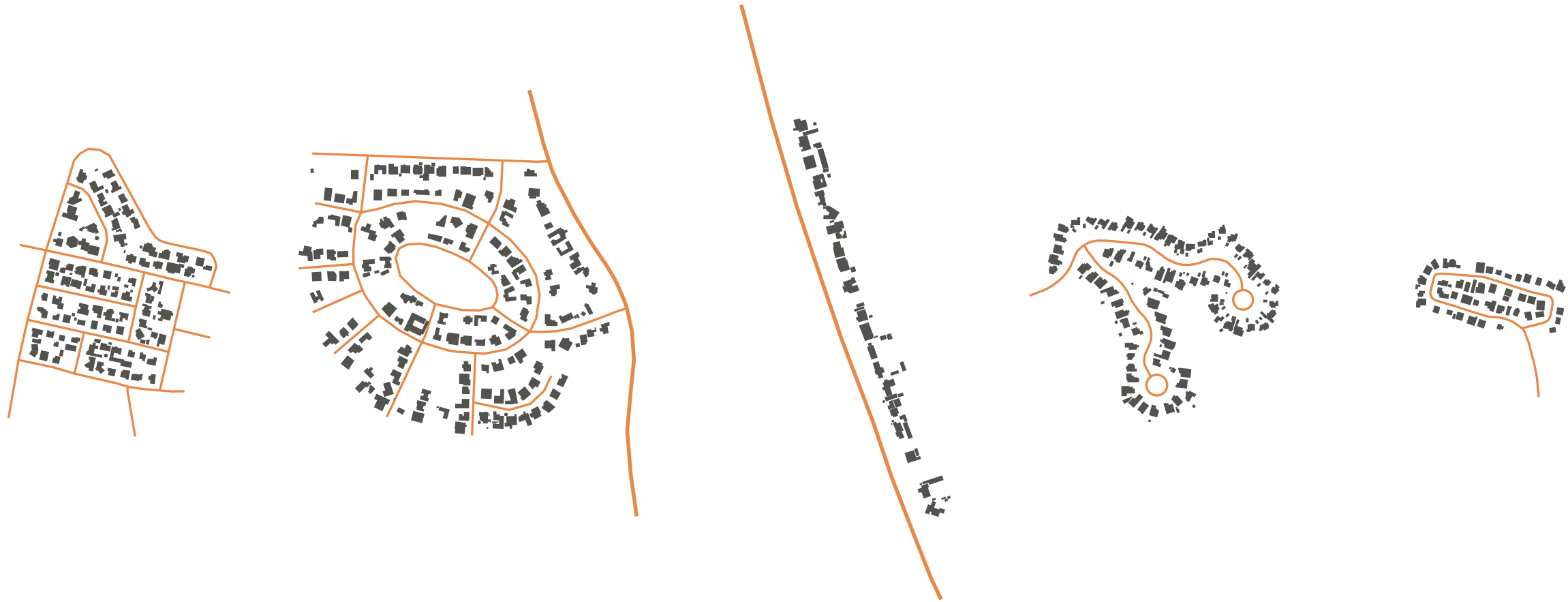
SHOCO - BURROWING OWL



ALLOTMENT FOR SINGLE HOMES



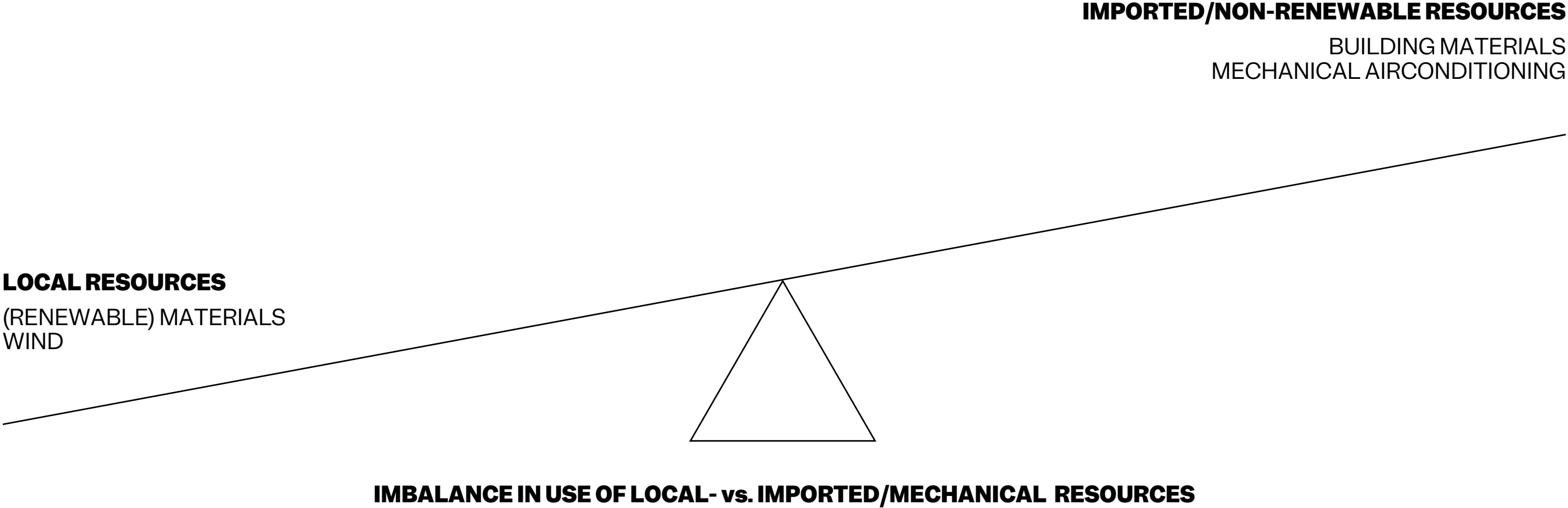
STANDARD ALLOTMENT



TPOLOGIES OF URBAN ALLOTMENT



NEIGHBORHOODS ARE DOMINATED BY ROADS
HIGH RATIO OF UNDESIGNATED SPACE
DISRUPTED PATTERNS OF VEGETATION

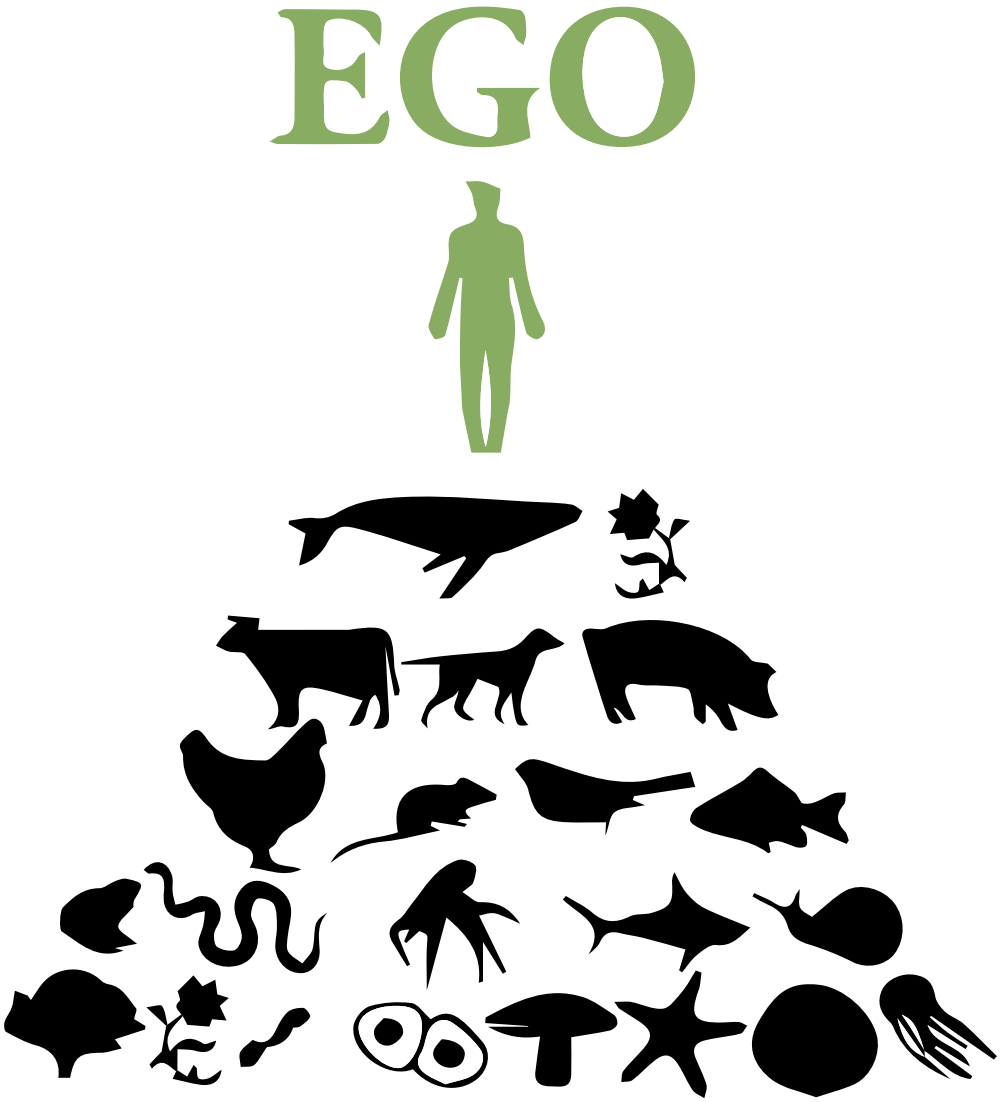




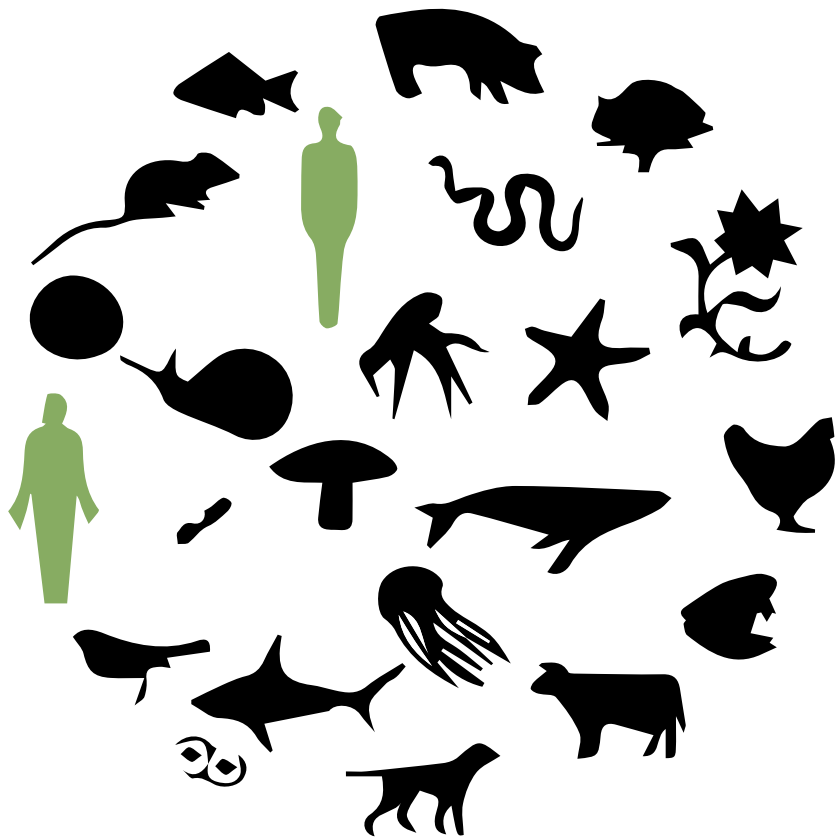
POOR DESIGNS - HIGH ENERGY LOAD



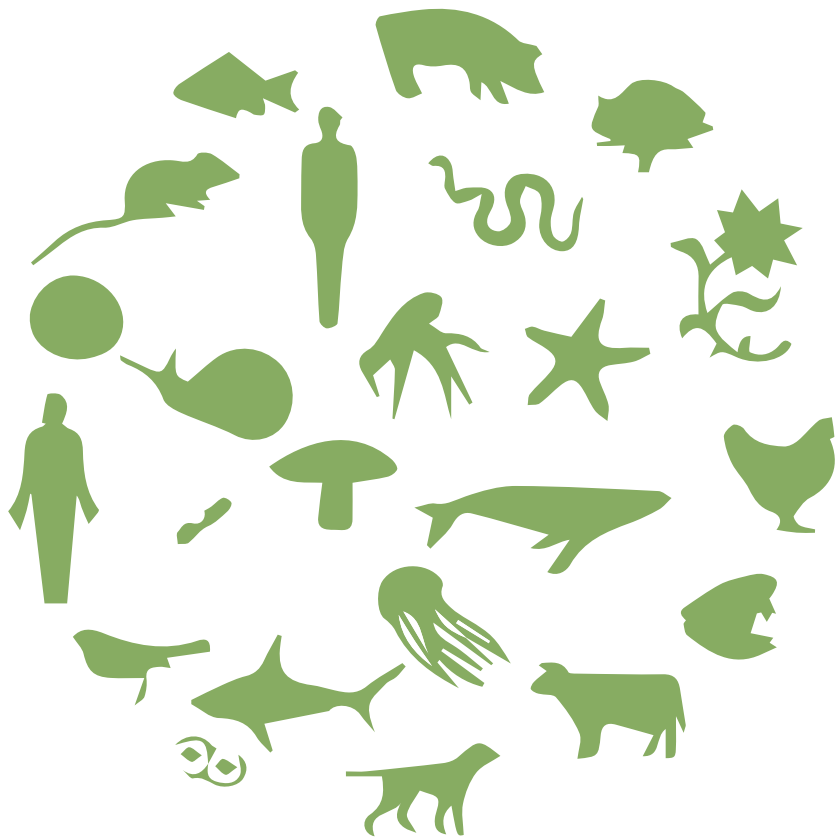
IMPORTED BUILDING MATERIALS - LOW FLEXIBILITY FLOORPLANS



ECO



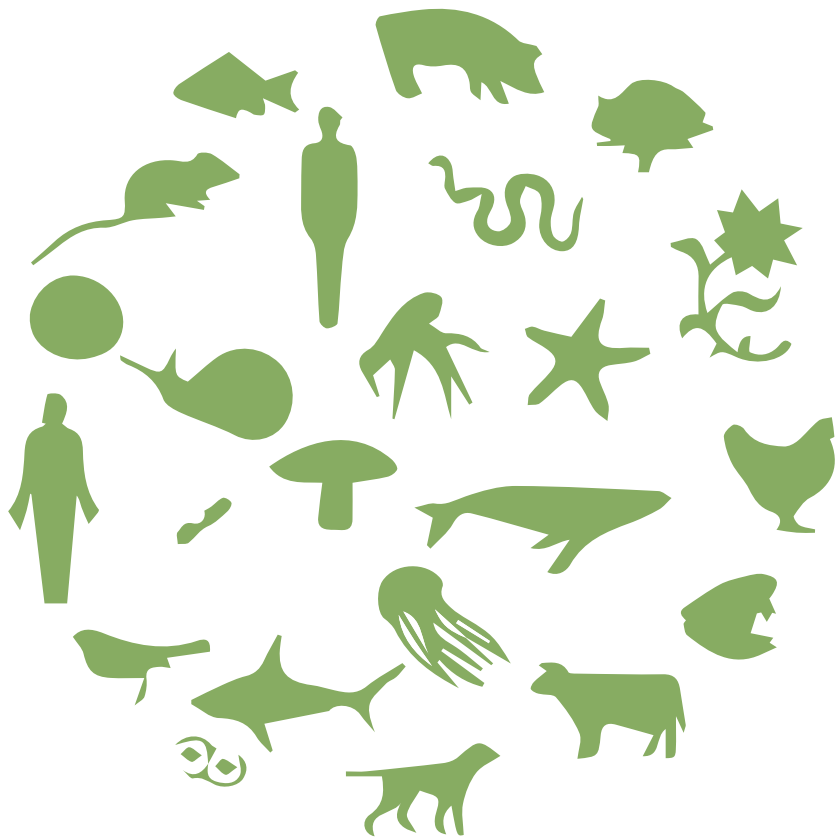
ECO



RECONSIDER OUR CONSUMPTION BEHAVIOUR

ECO

OFFER NATURE THE SPACE TO RECOVER



What if we would peacefully live amongst nature
without appropriating all the space for ourselves ?

What if we would build climate responsive architecture to contribute to comfortable living environments instead of extensively using active systems to make up for a poorly designed building ?

What if we would use renewable materials which the earth is offering to us
for building construction without damaging her ecosystems ?

A NATURE INCLUSIVE URBAN DEVELOPMENT STRATEGY
WITH A CLIMATE RESPONSIVE HOUSING TYPOLOGY
BUILT WITH LOCALLY HARVESTED MATERIALS

GOOD

NOT SO GOOD





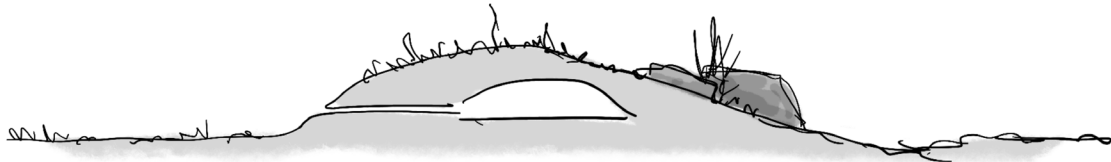
PRIKICHI



SHOCO



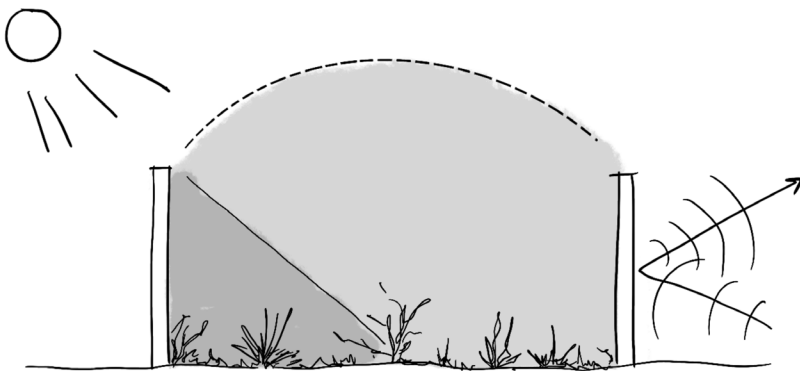
ARUBA BIRDLIFE CONSERVATION



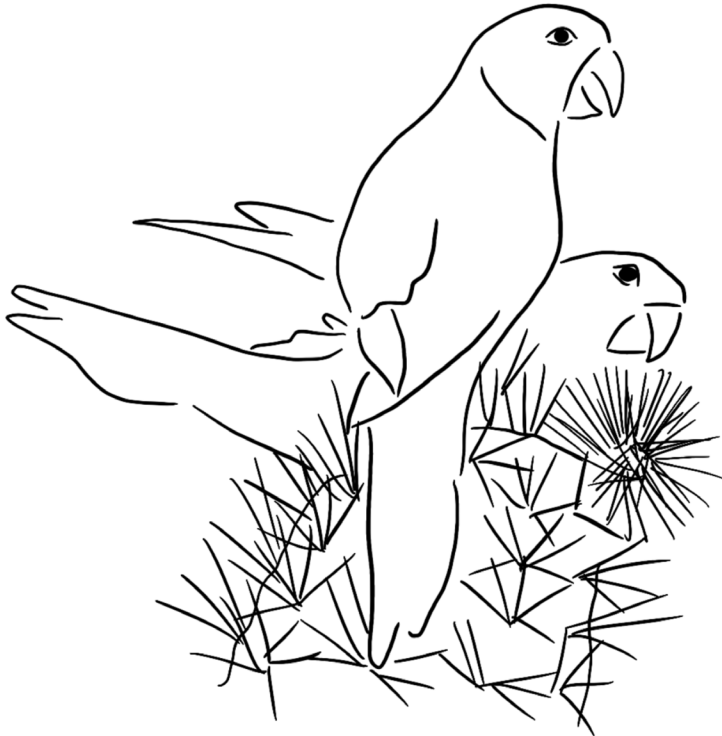
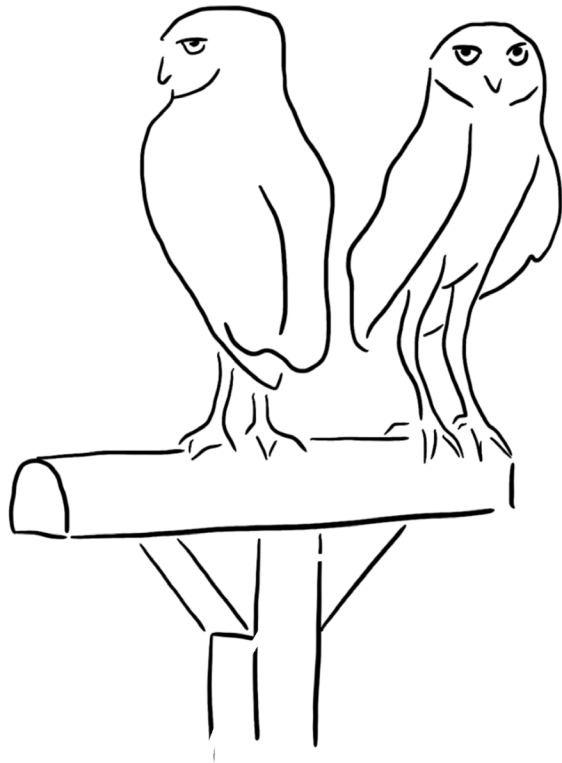
BURROWS



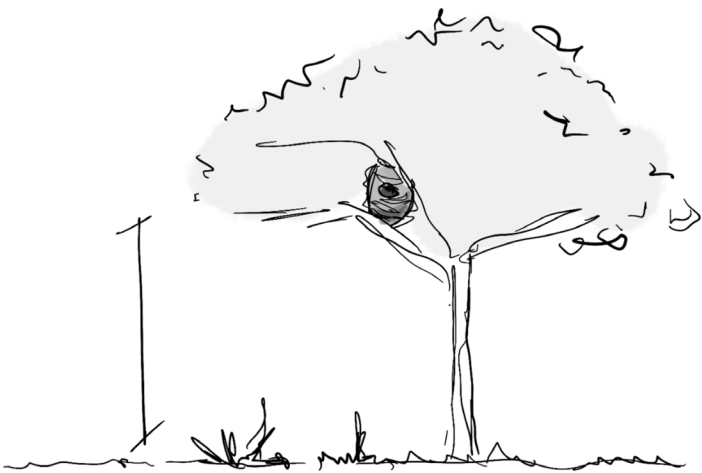
LOW GROUND COVER
CLEAR SKY VIEW



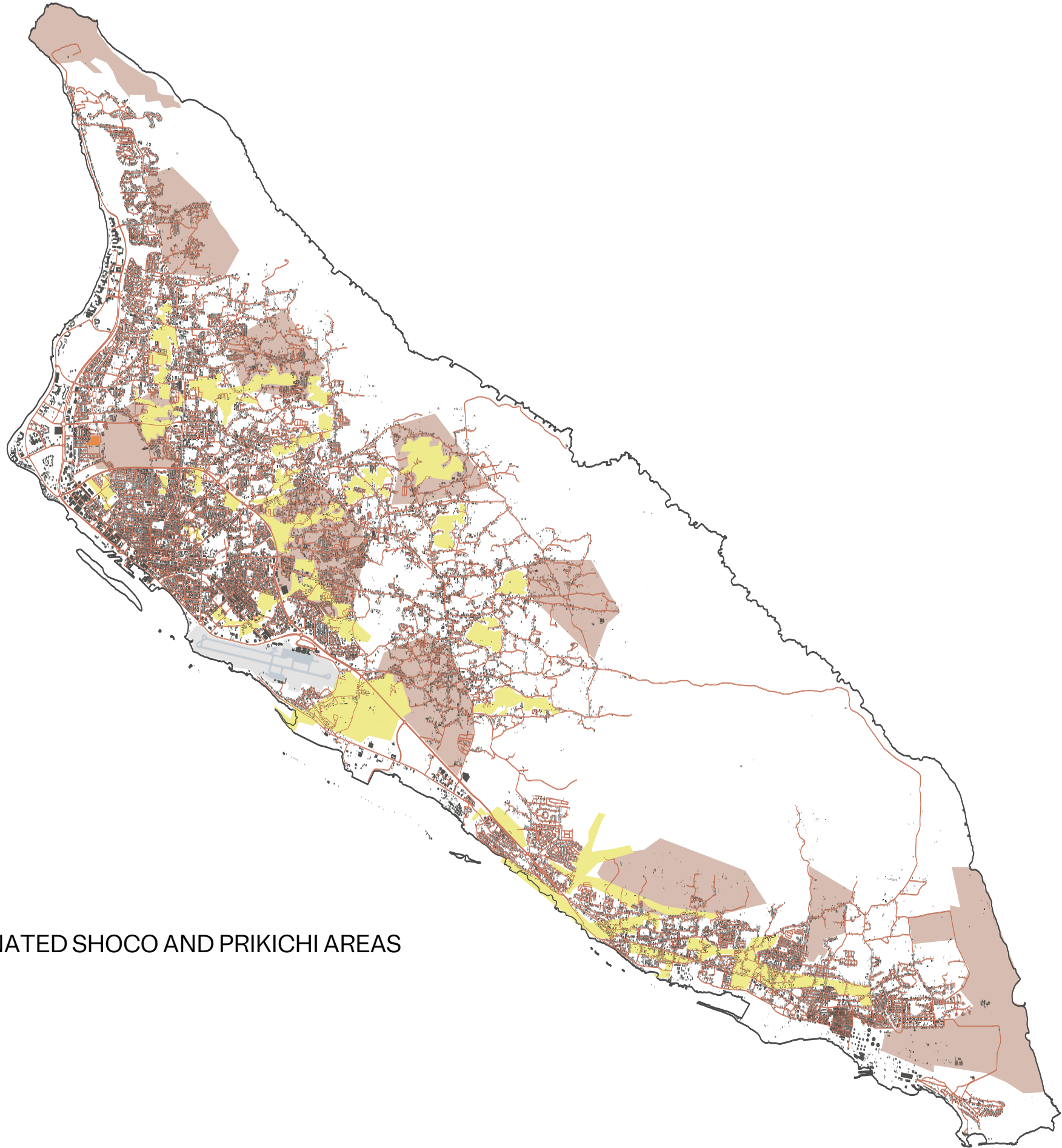
SPACE
SHADE AND DARKNESS (AT NIGHT)
SILENCE

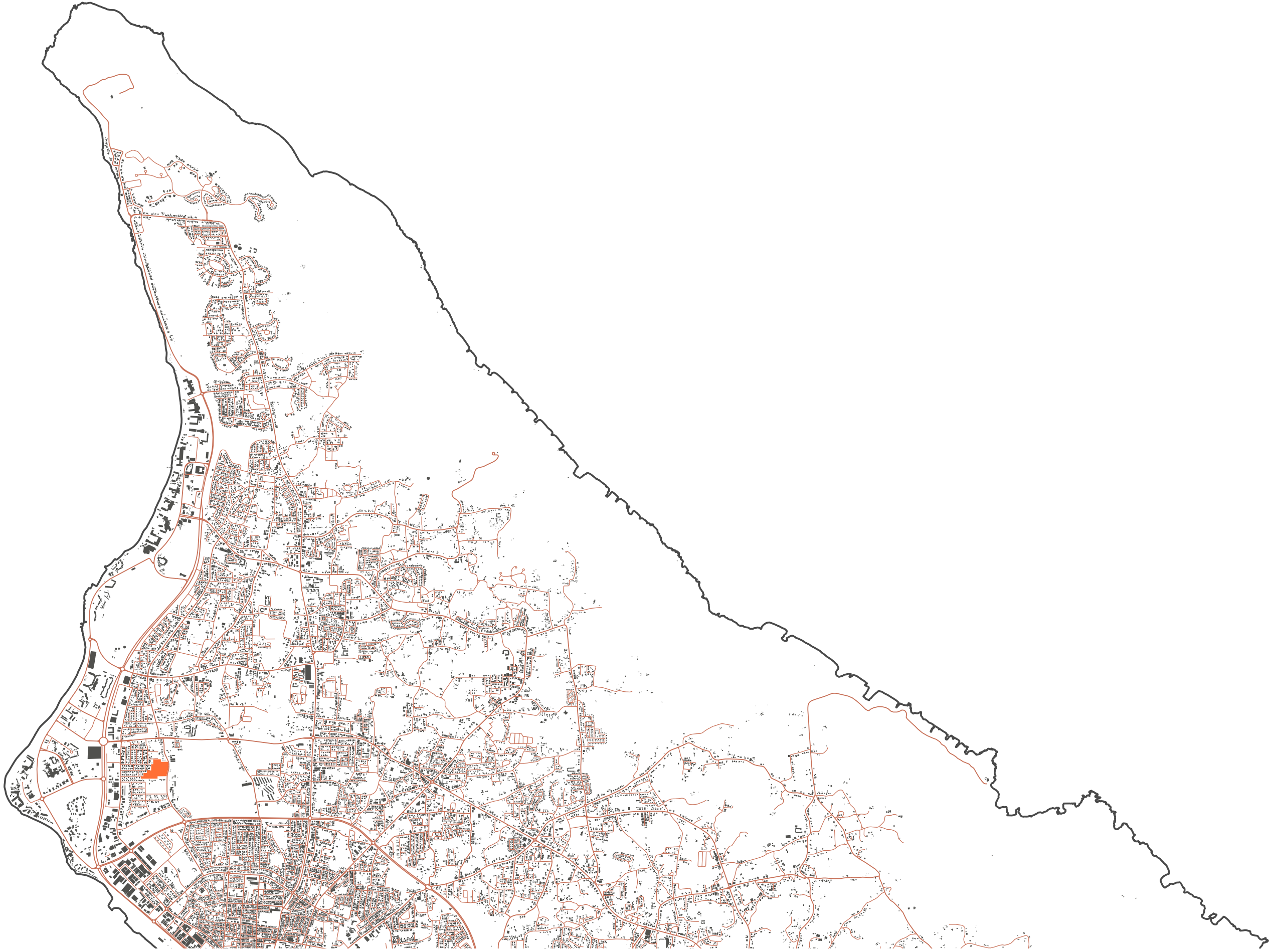


MIXED DIET
FRUIT TREES / SHRUBS
LIPID AND SWEET



NESTS HIGH OFF THE GROUND

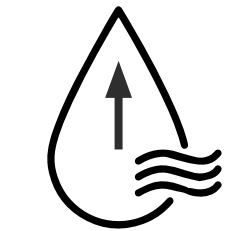




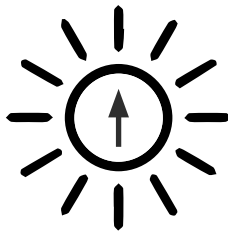




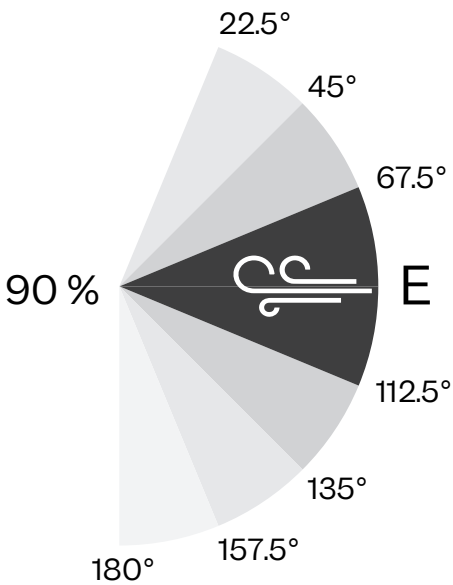
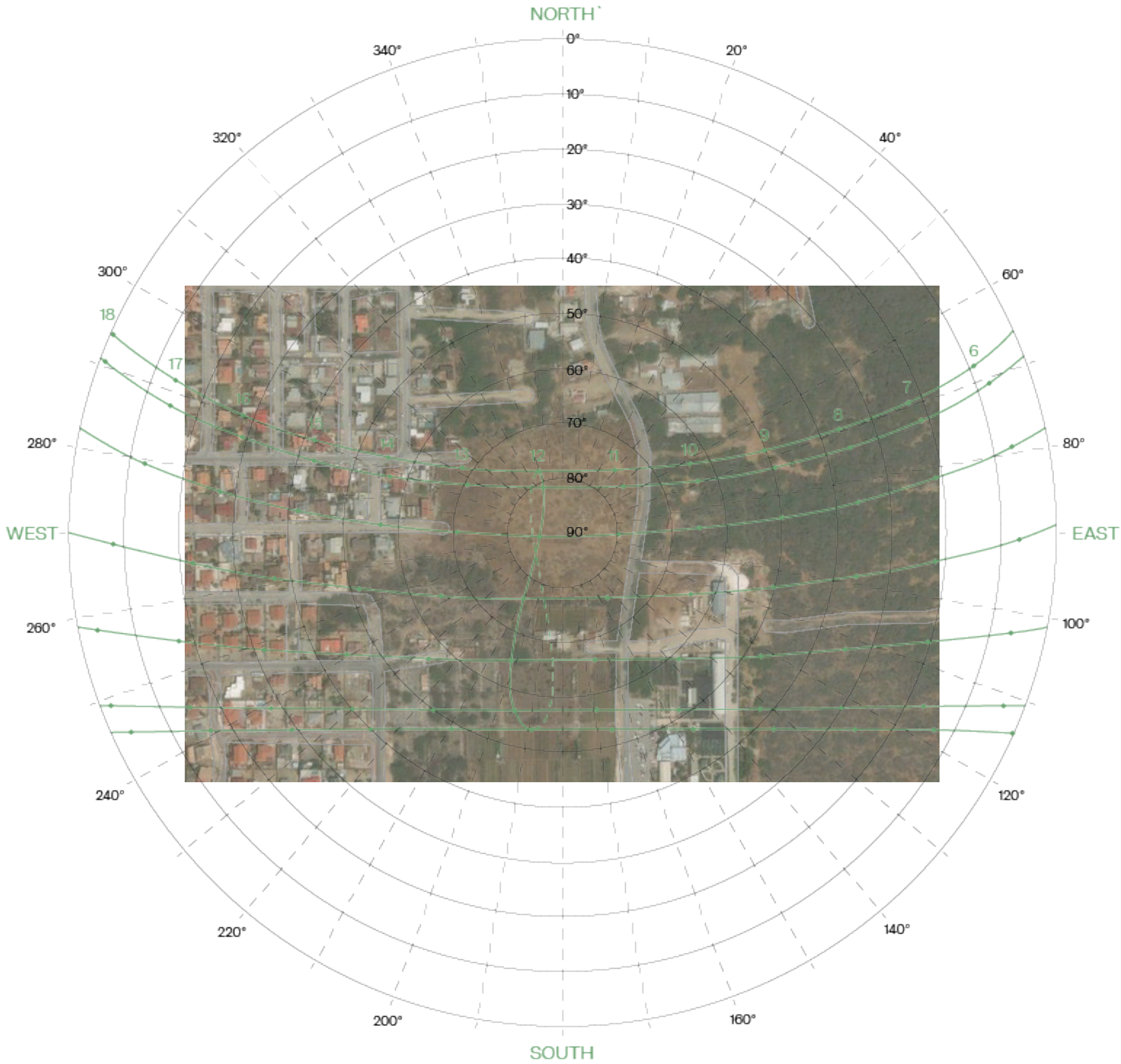
PANOREMIC VIEW



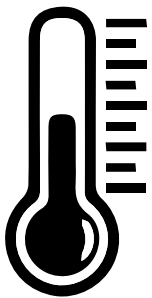
60 % - 90 %

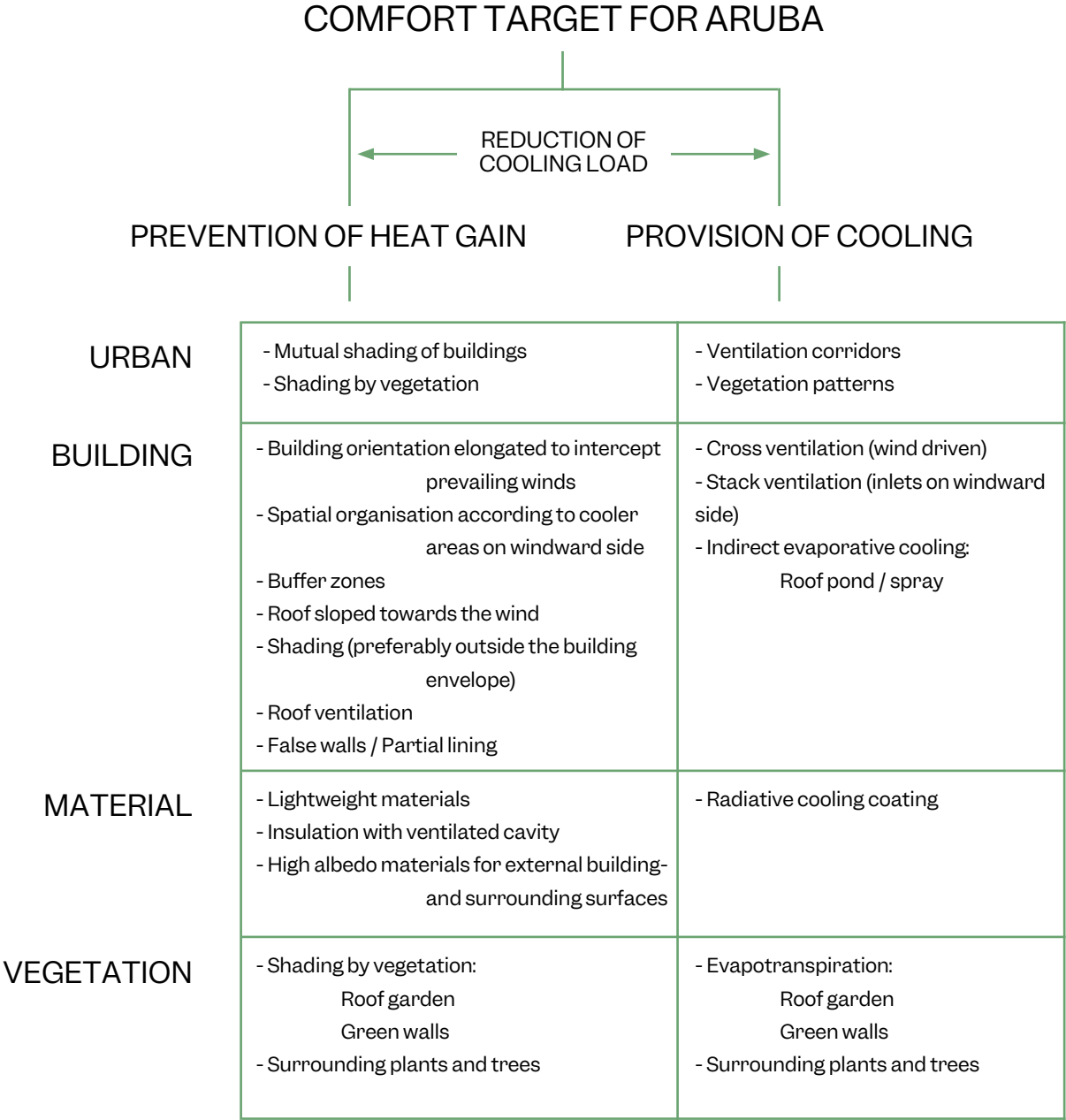


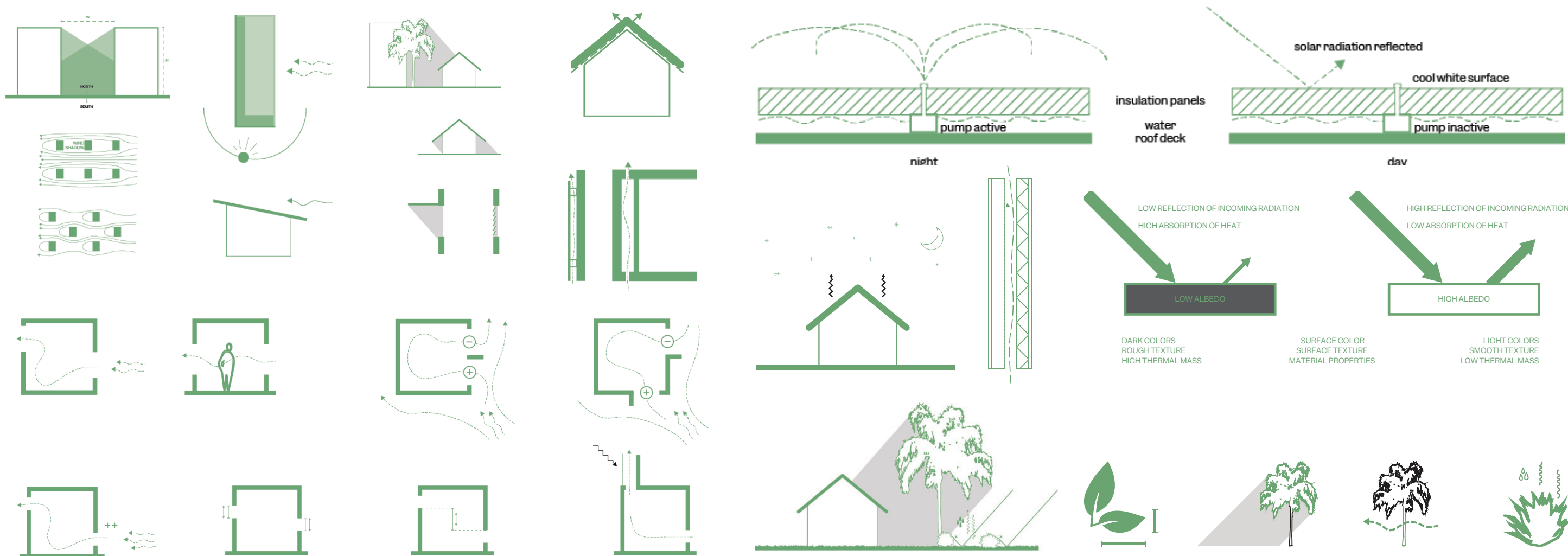
10 AM - 4PM

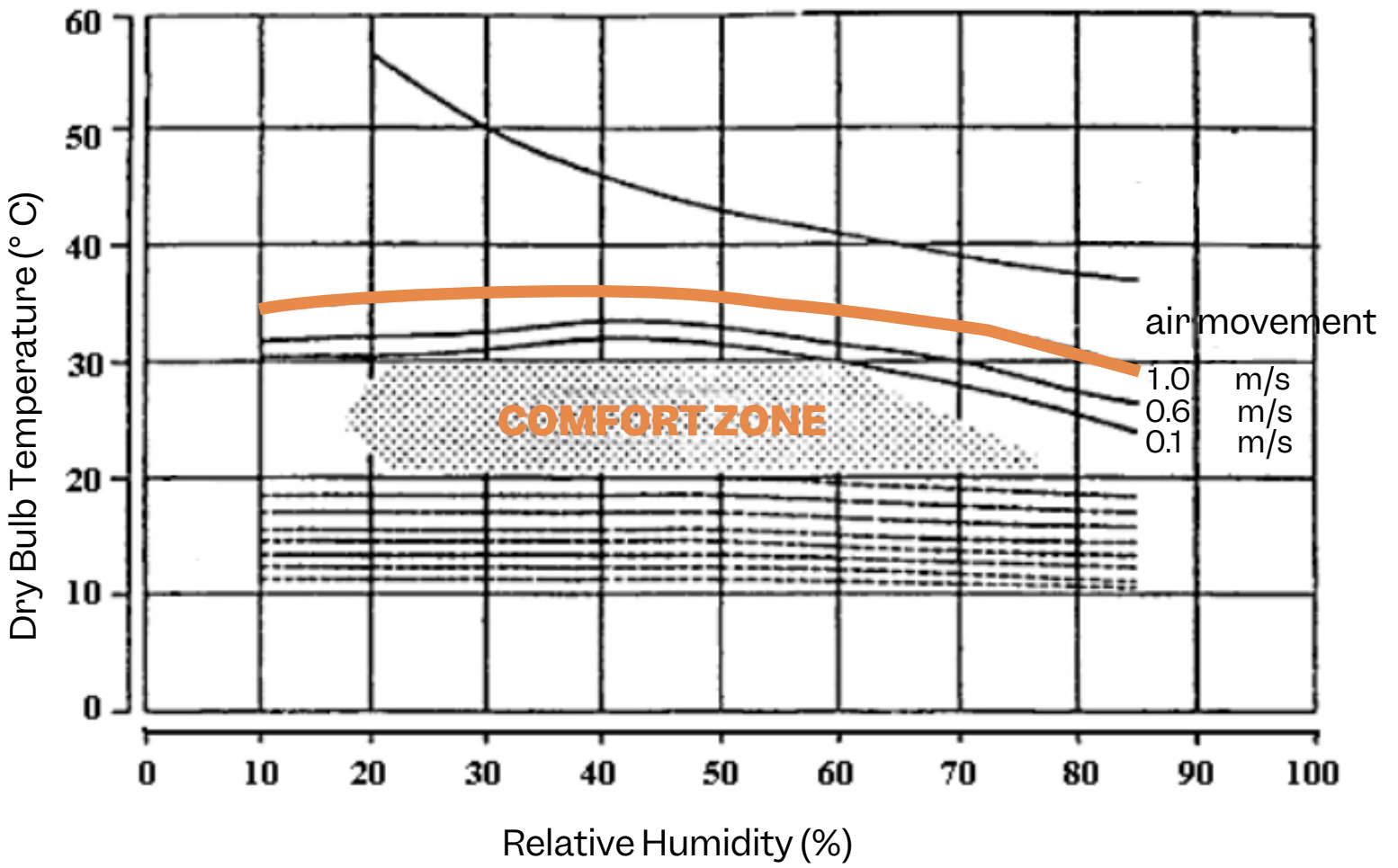


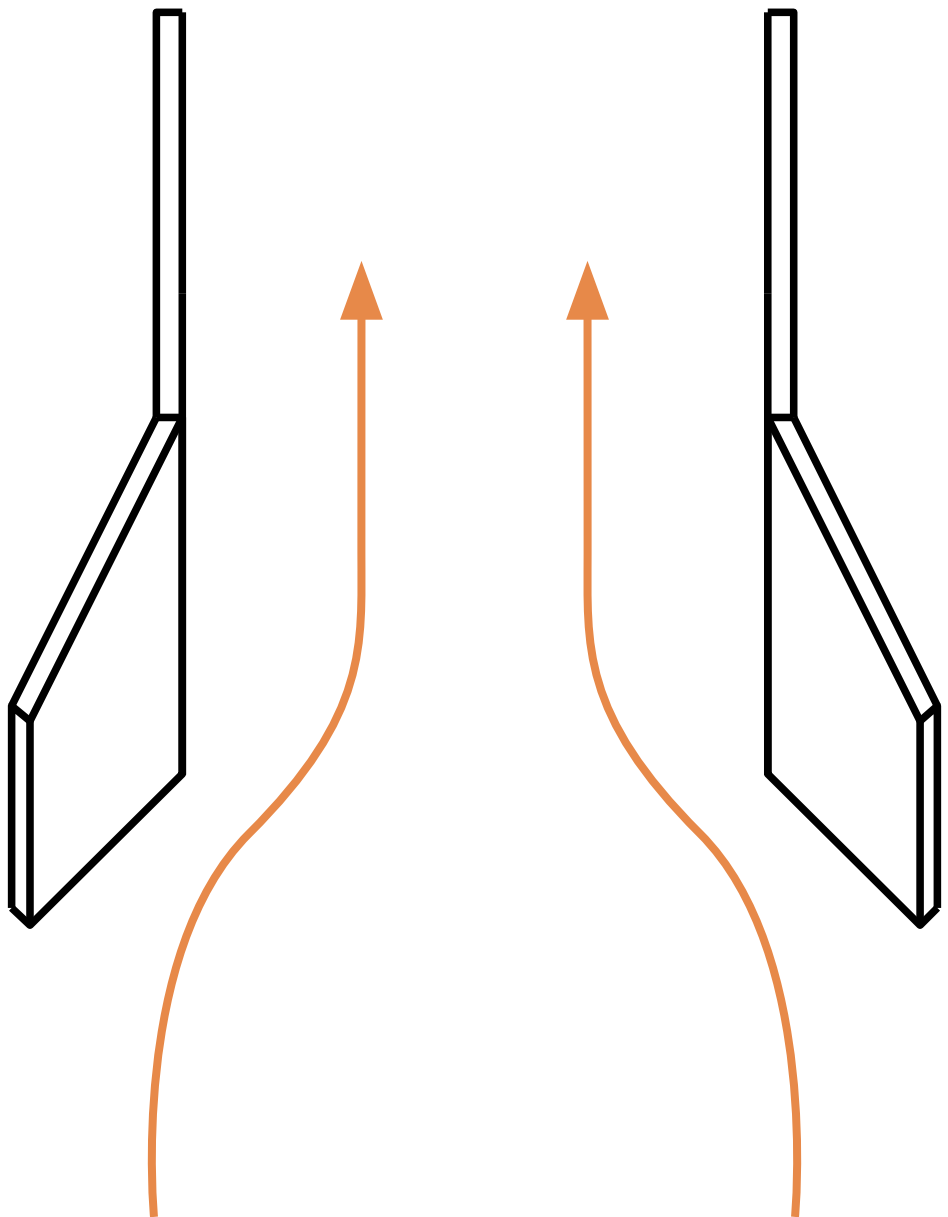
26 ° C - 33 ° C

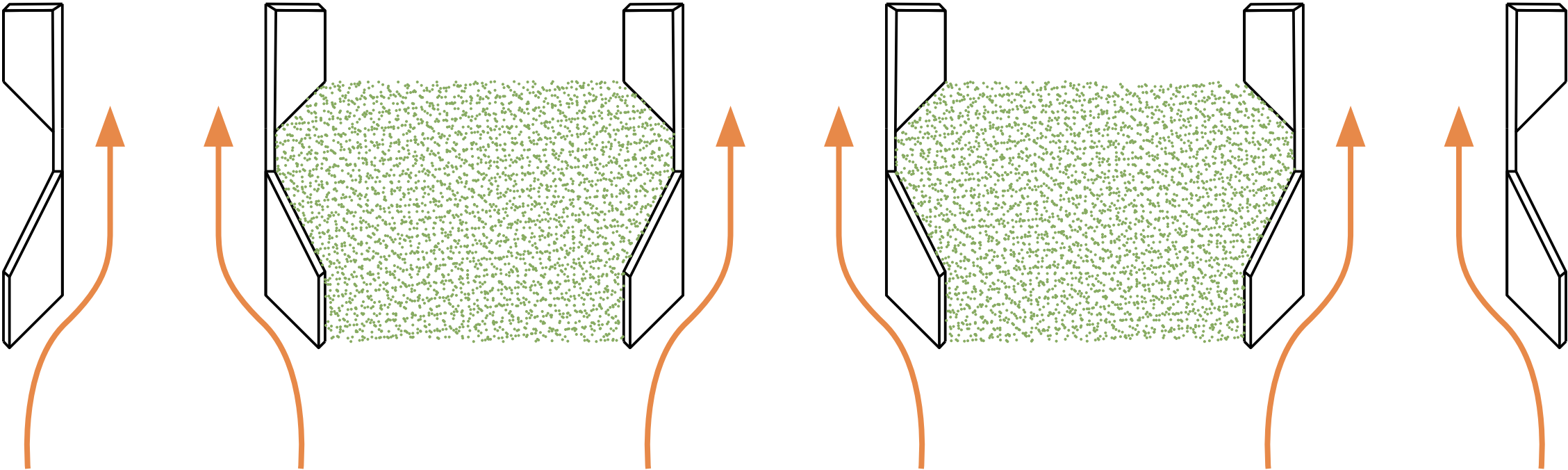


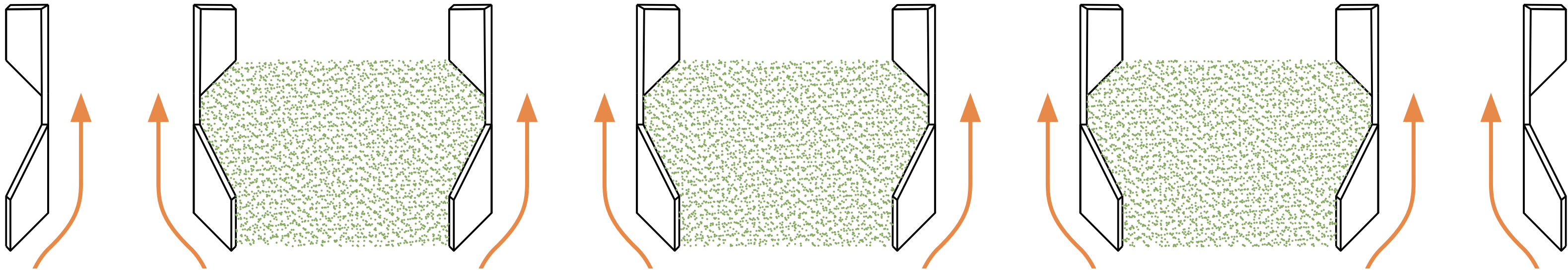
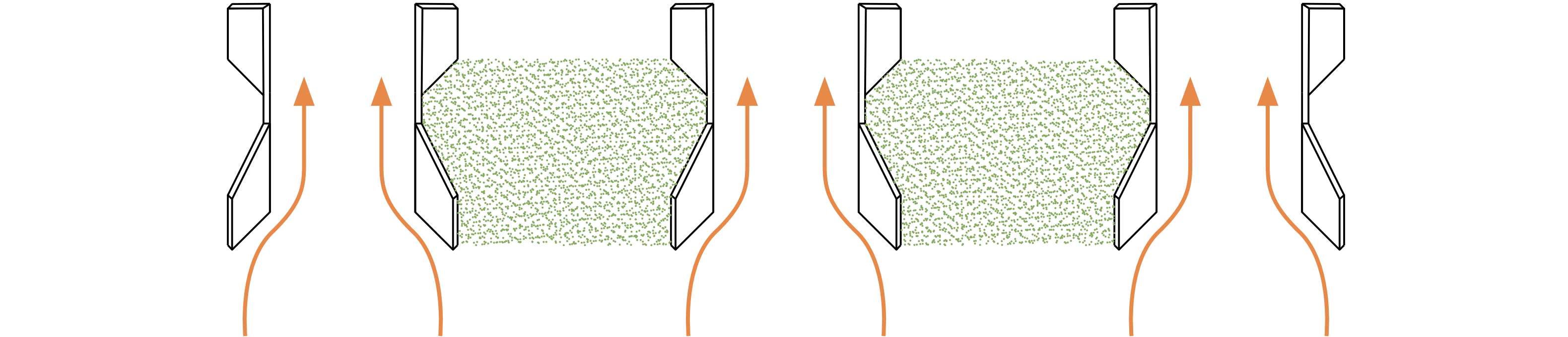
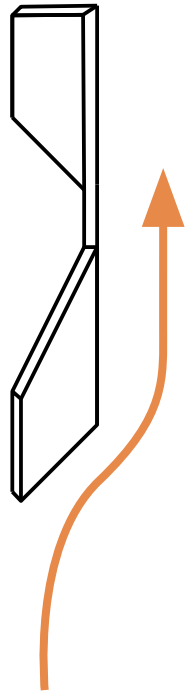
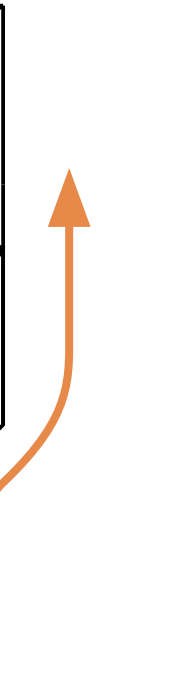
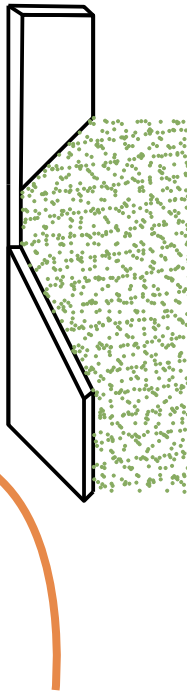
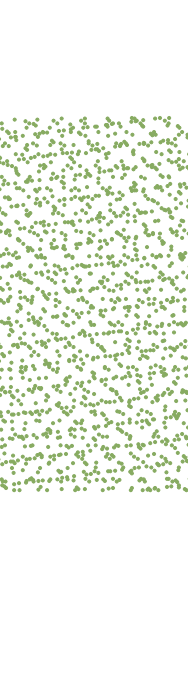
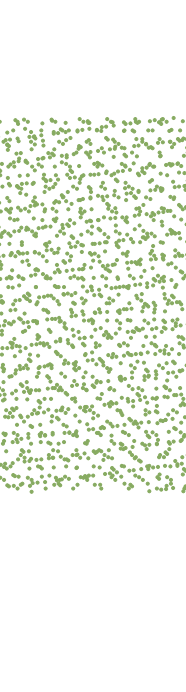
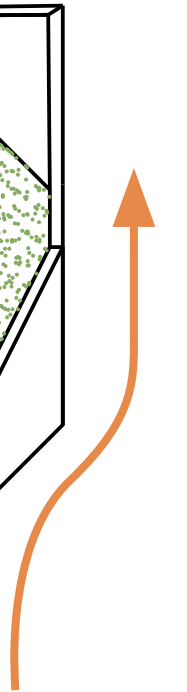
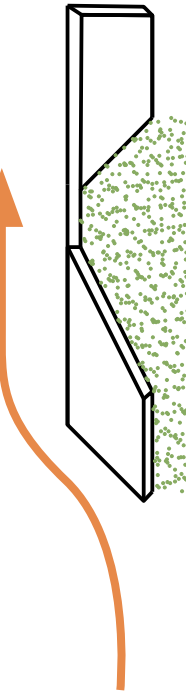
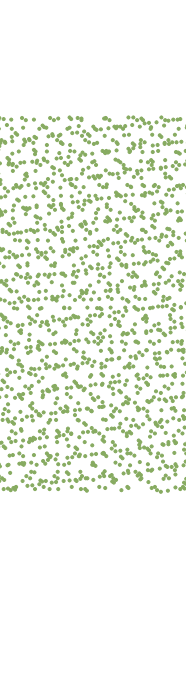
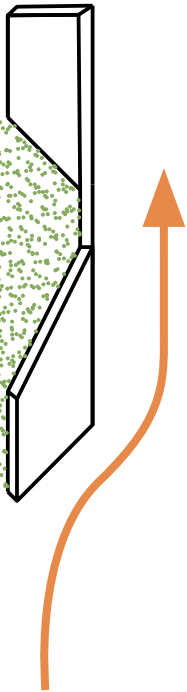
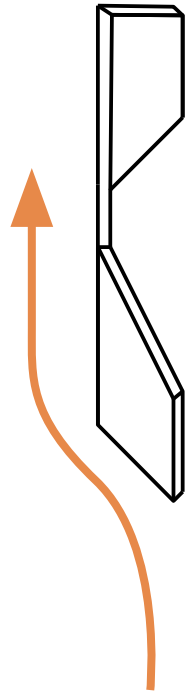
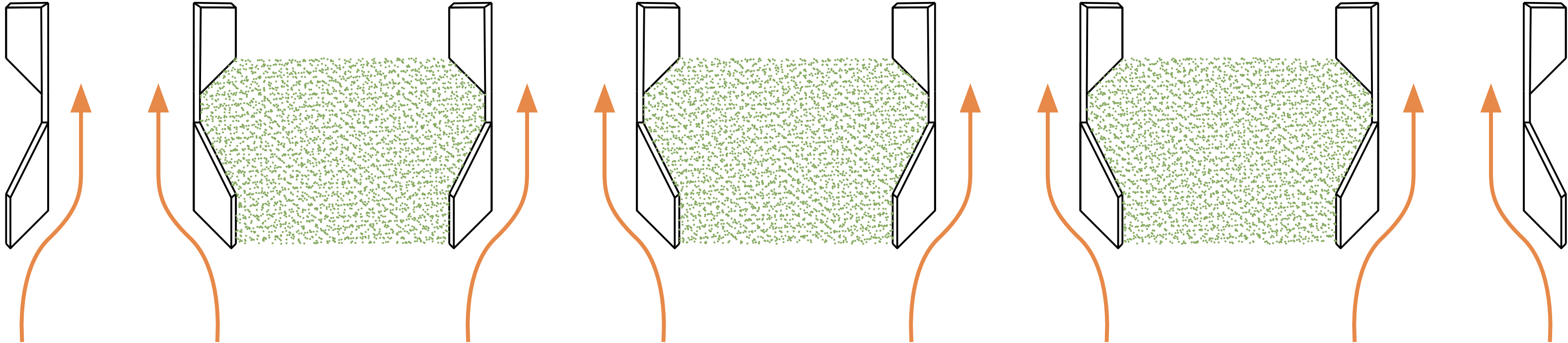




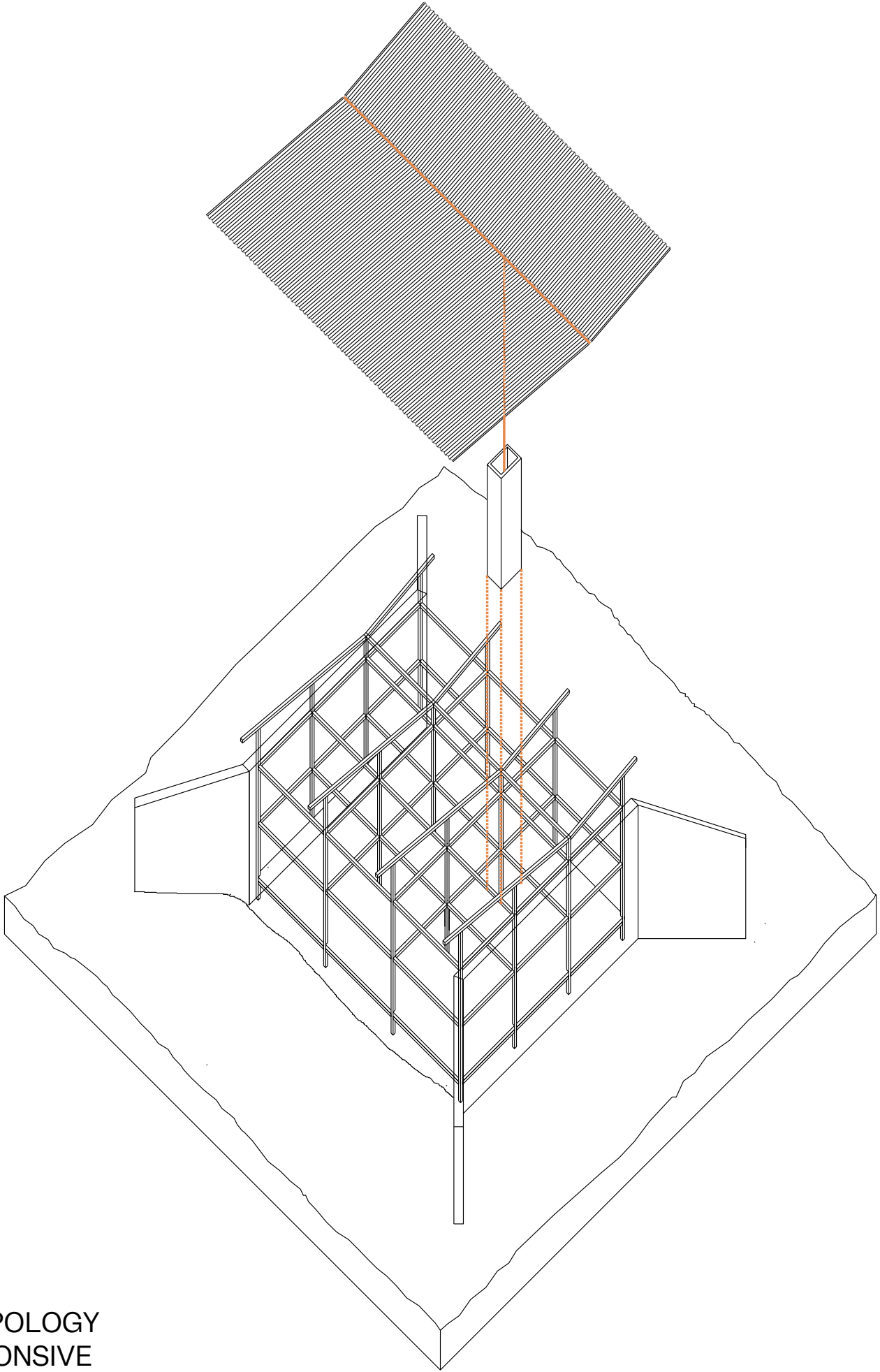




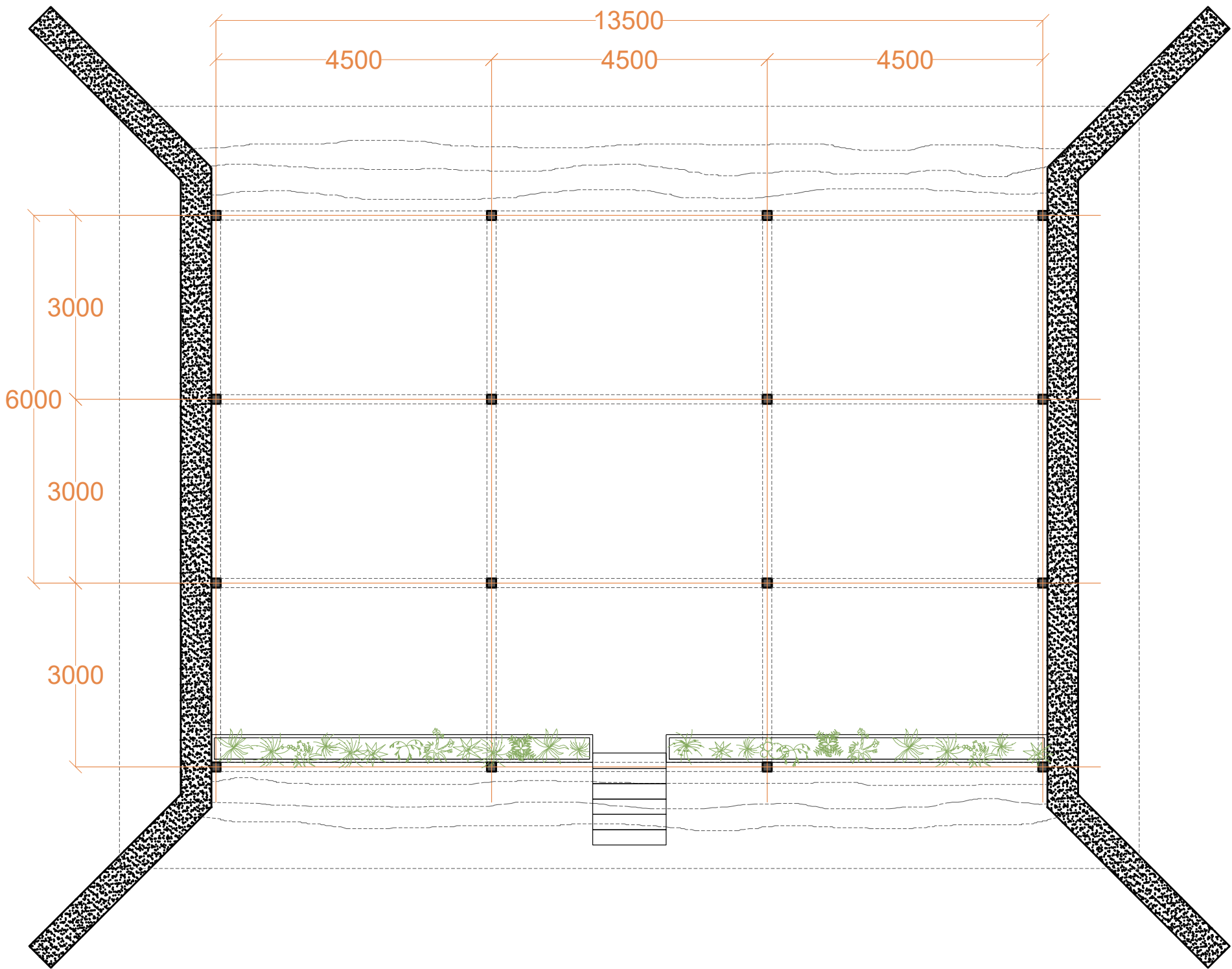




YIU DI TERA
“ISLAND CHILDREN”

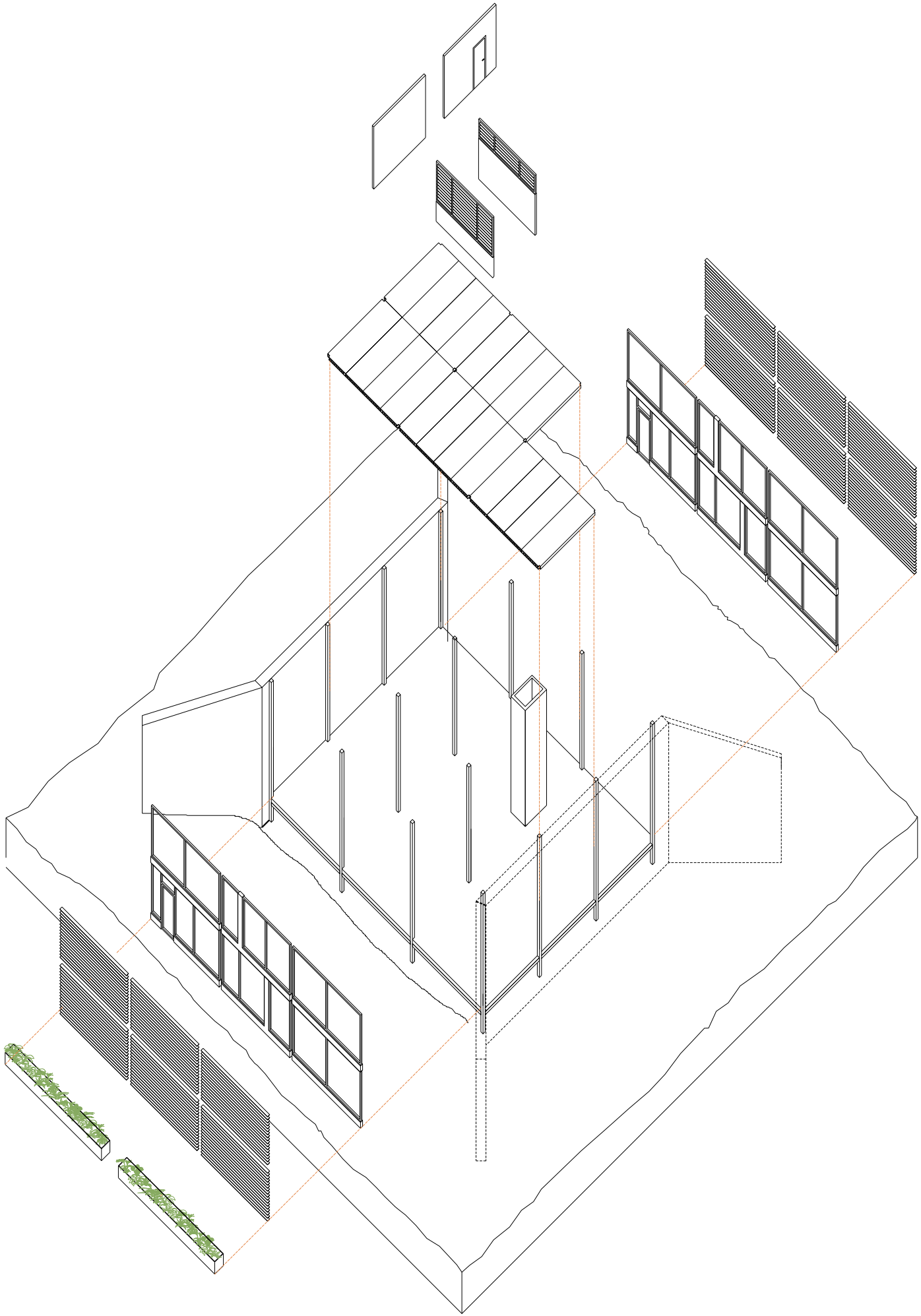


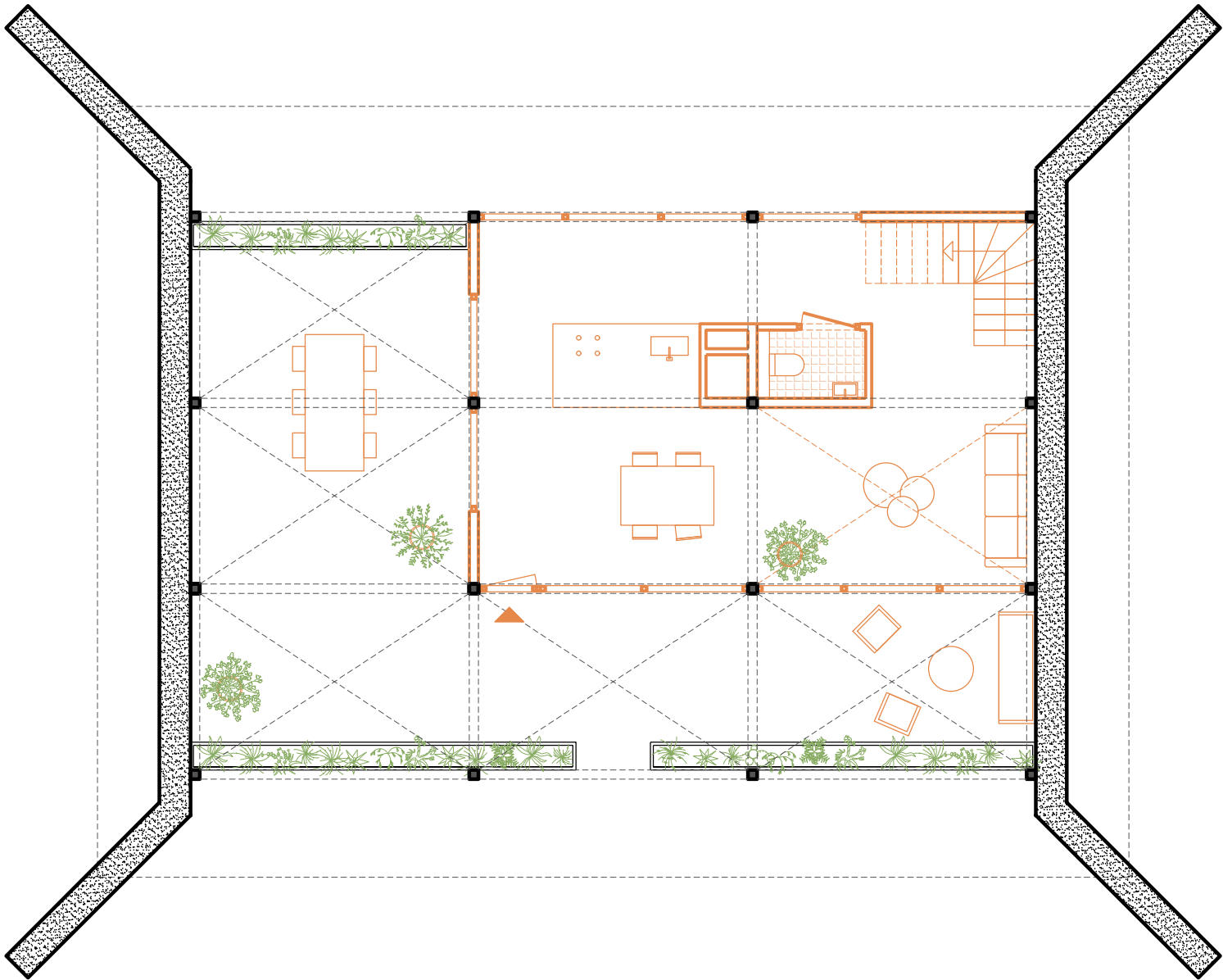
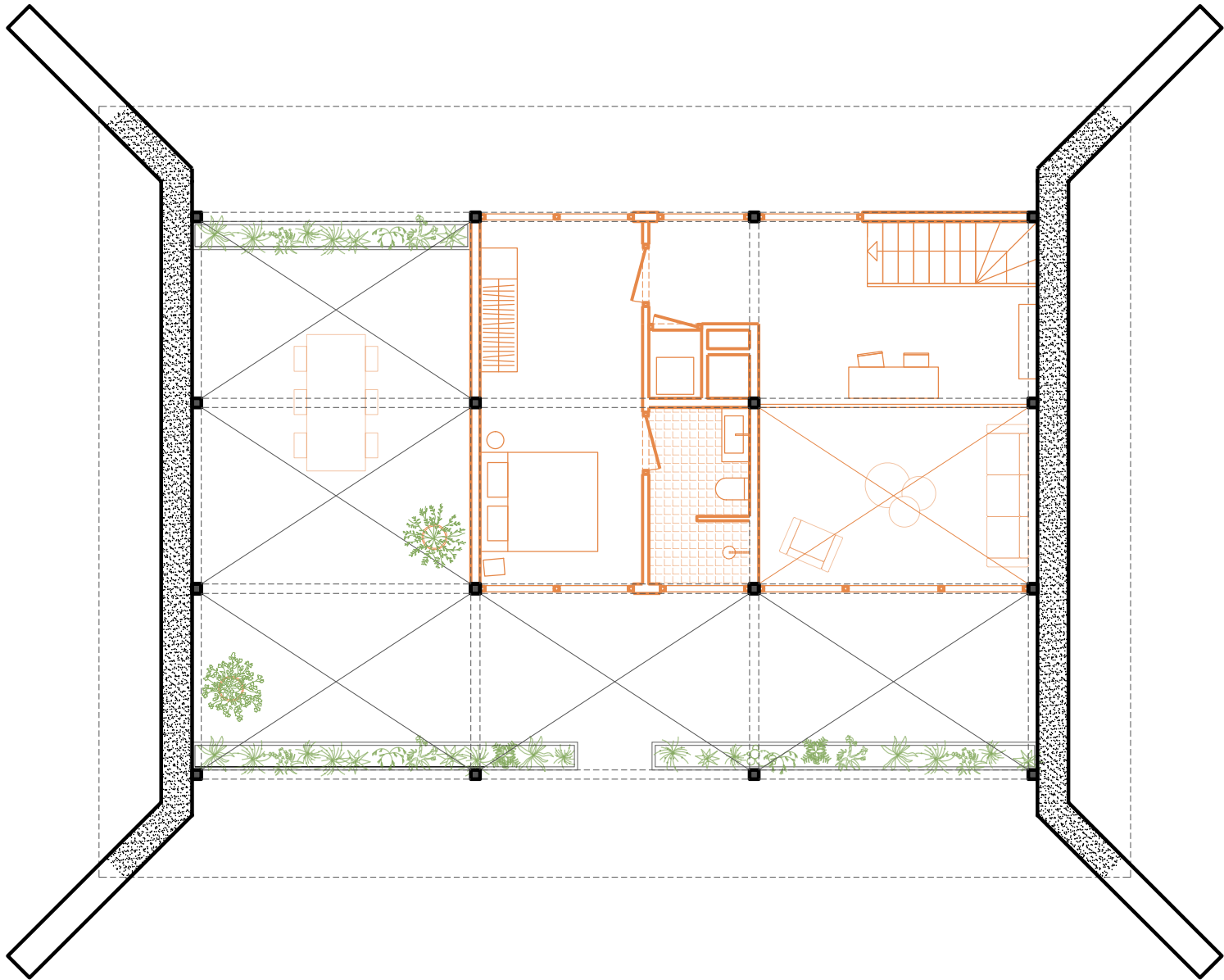
STANDARD TYPOLOGY
CLIMATE RESPONSIVE

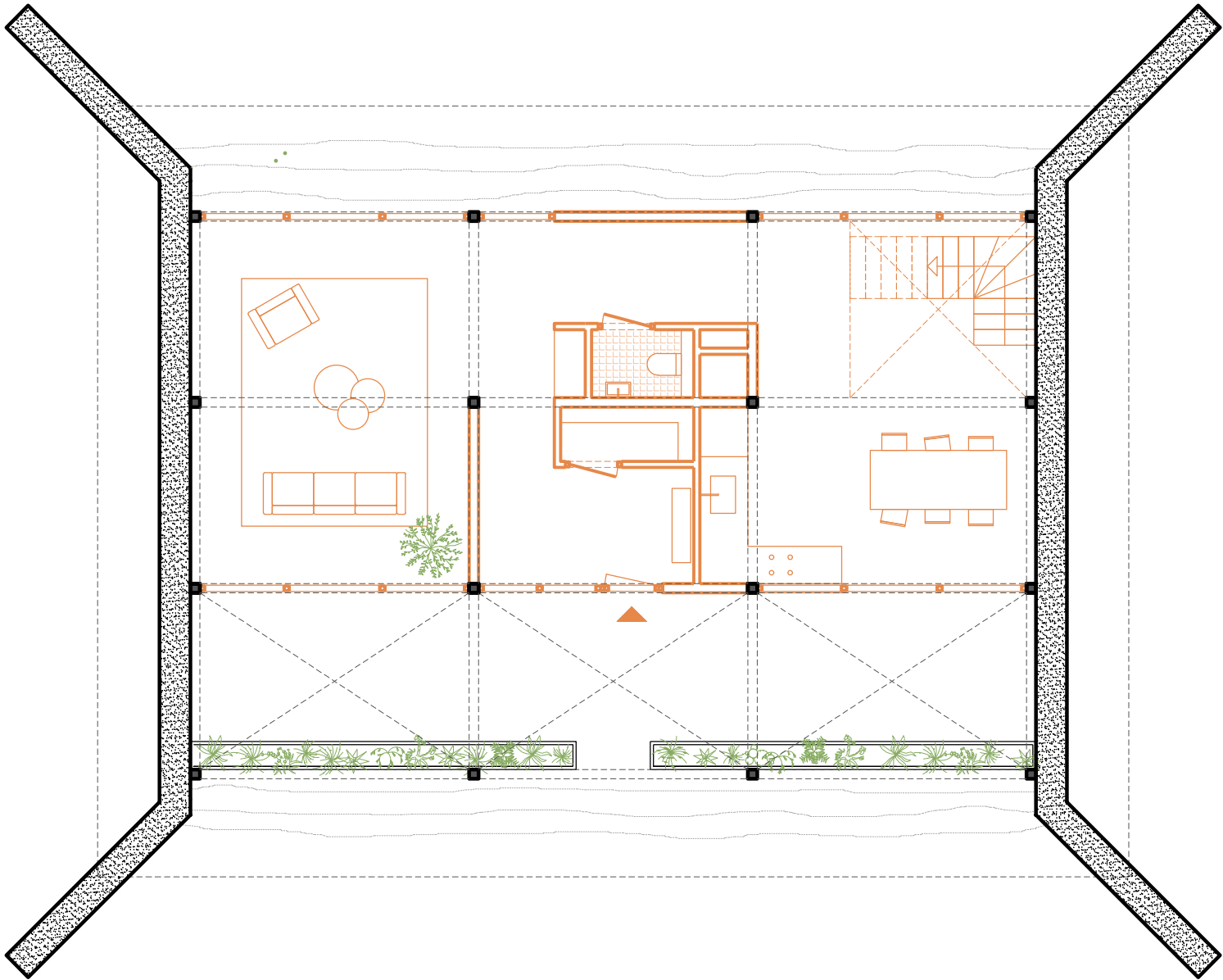
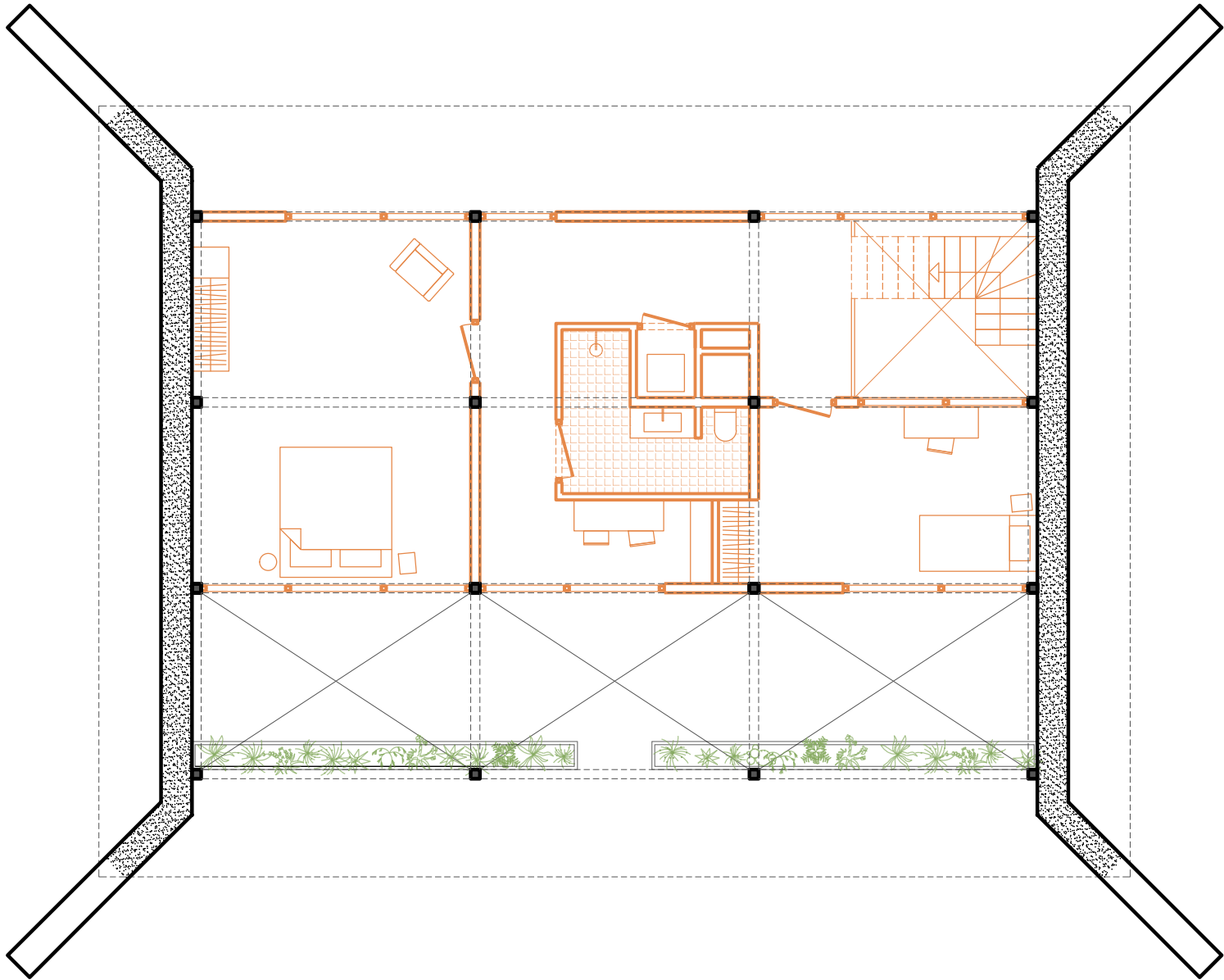


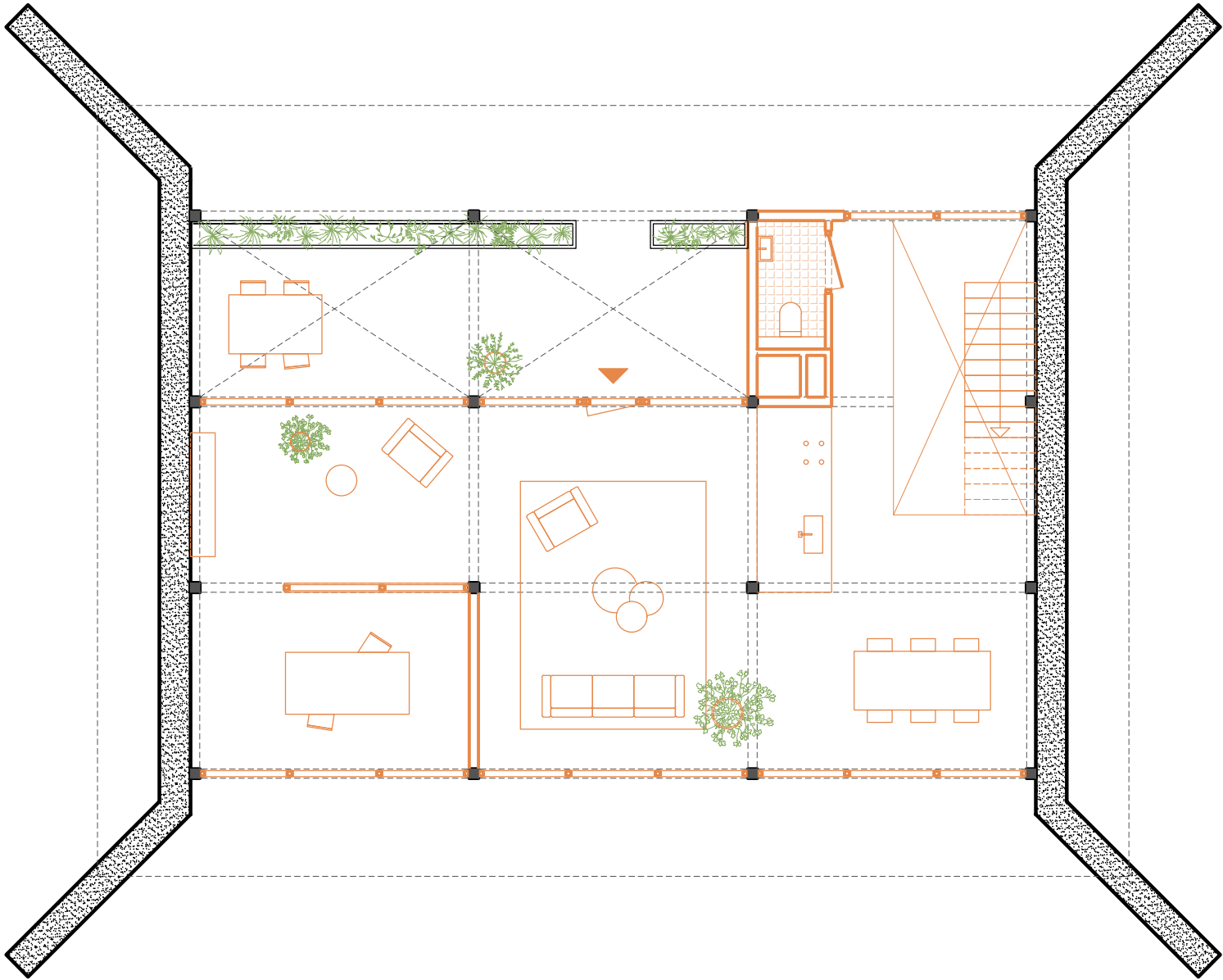
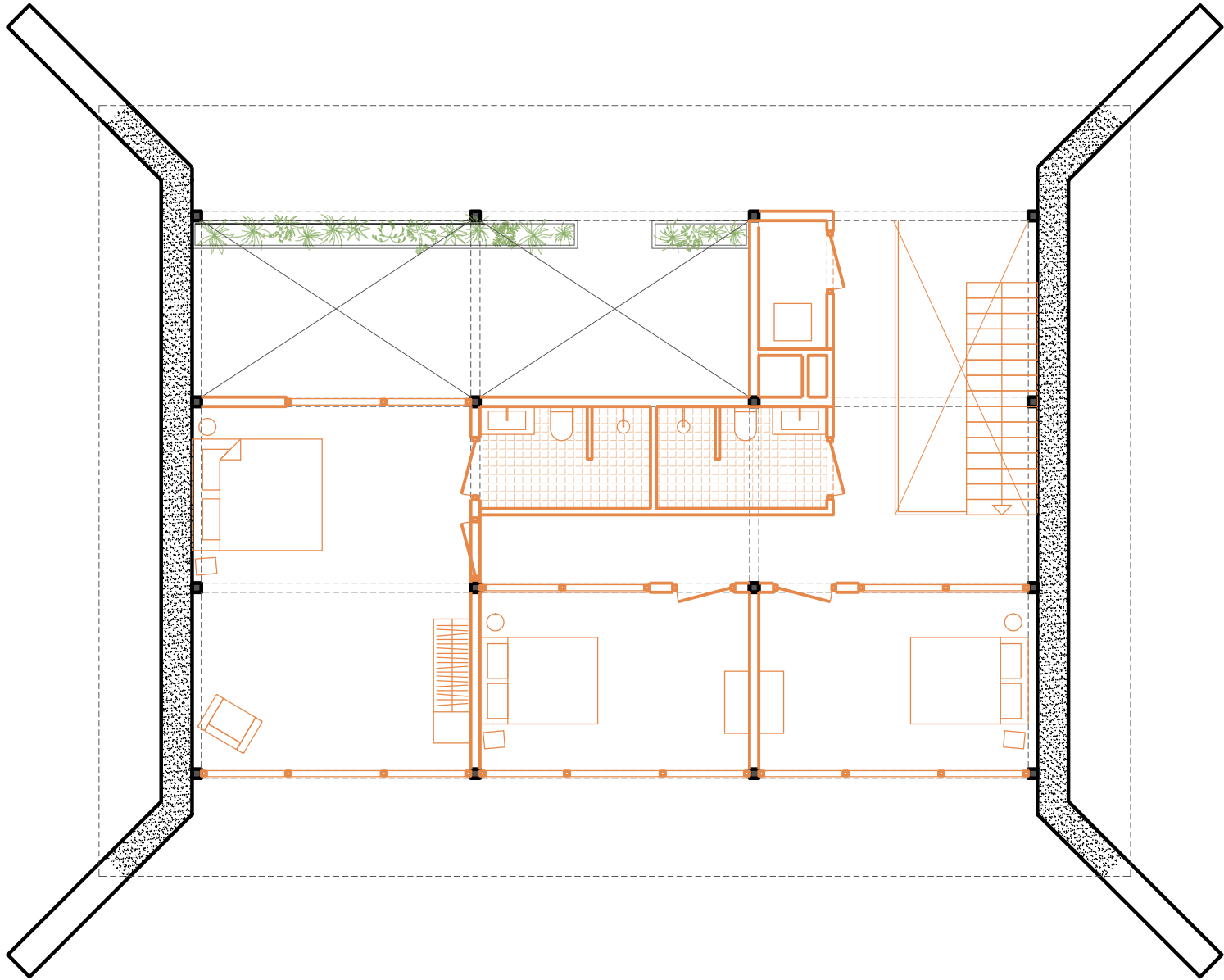


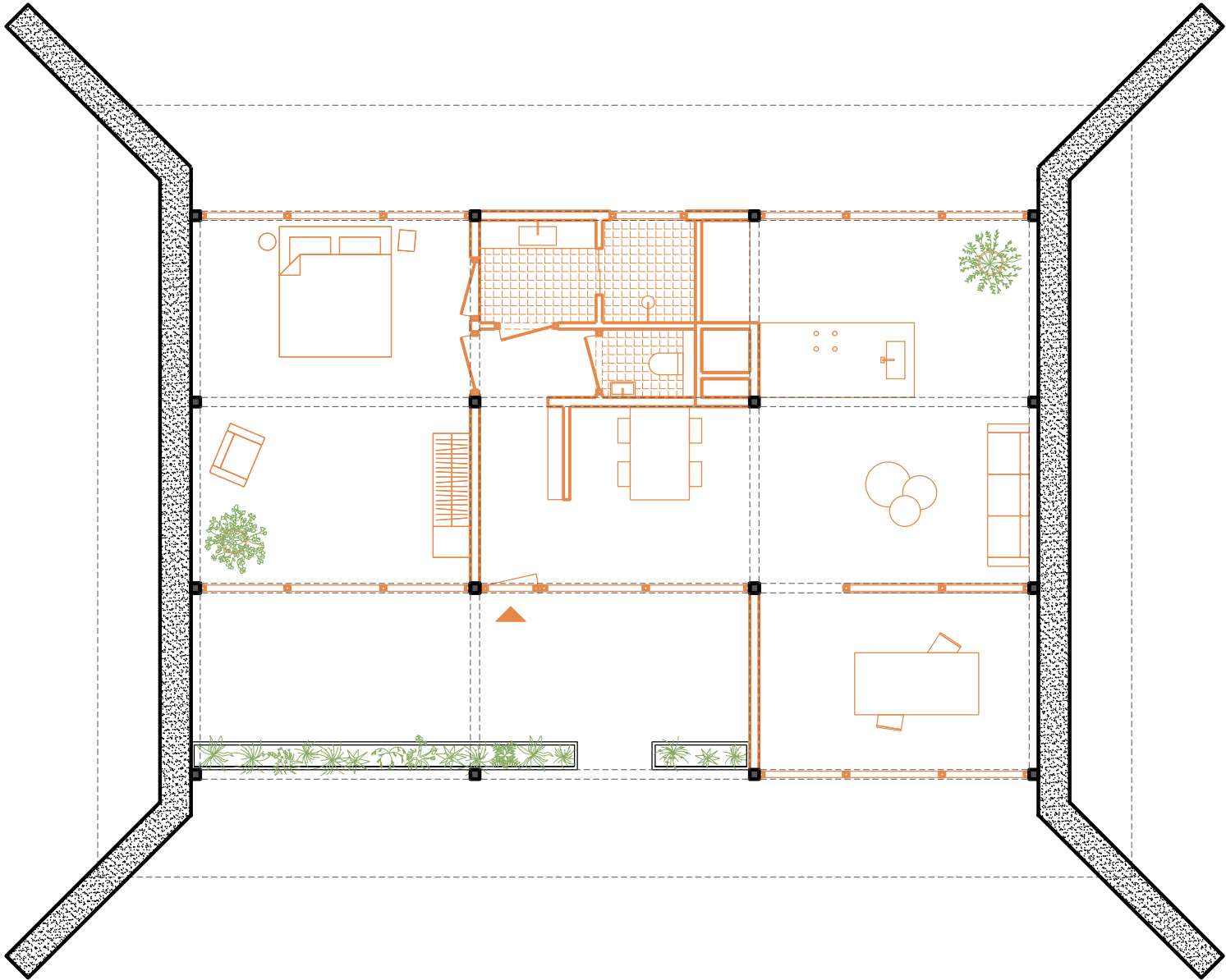


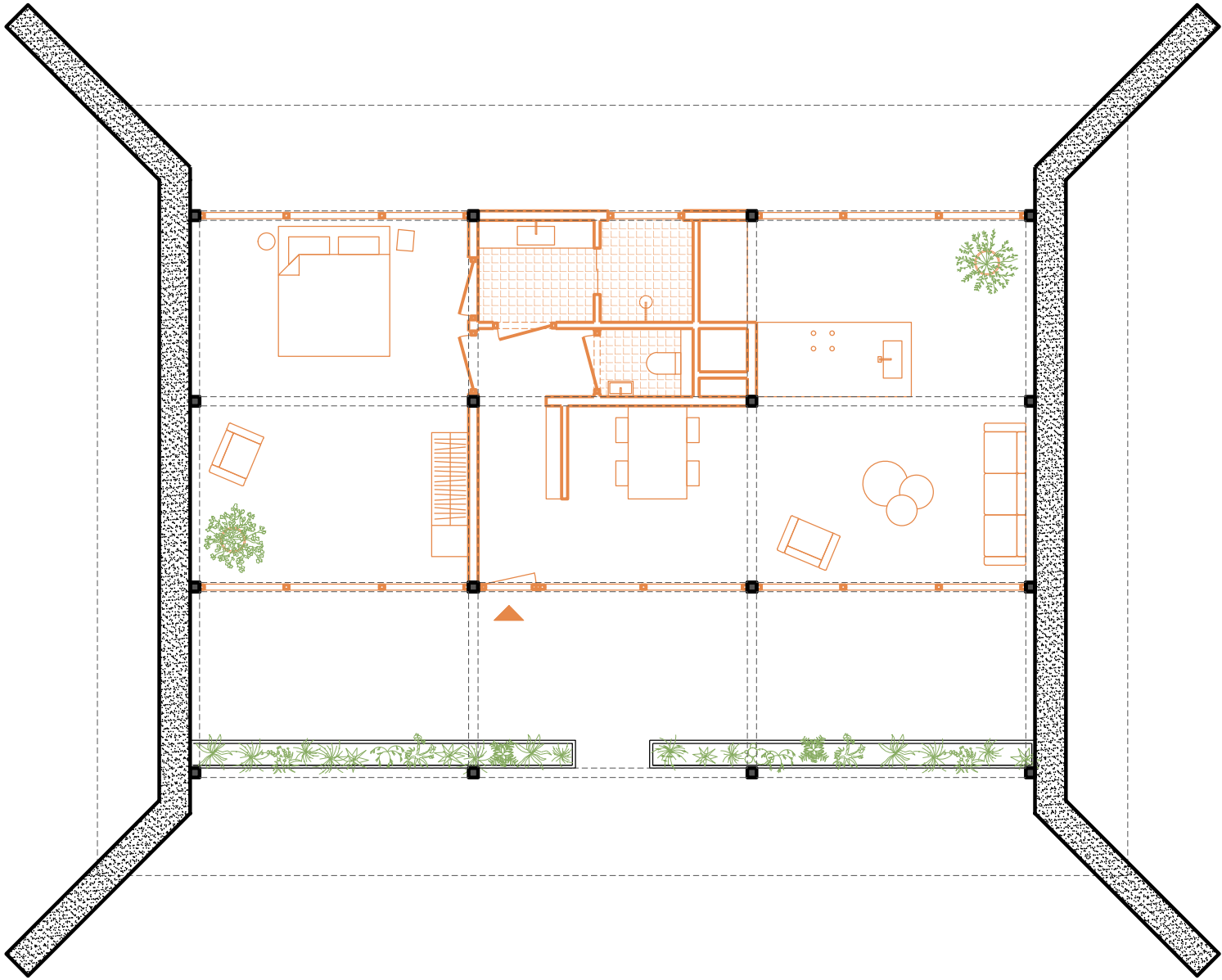








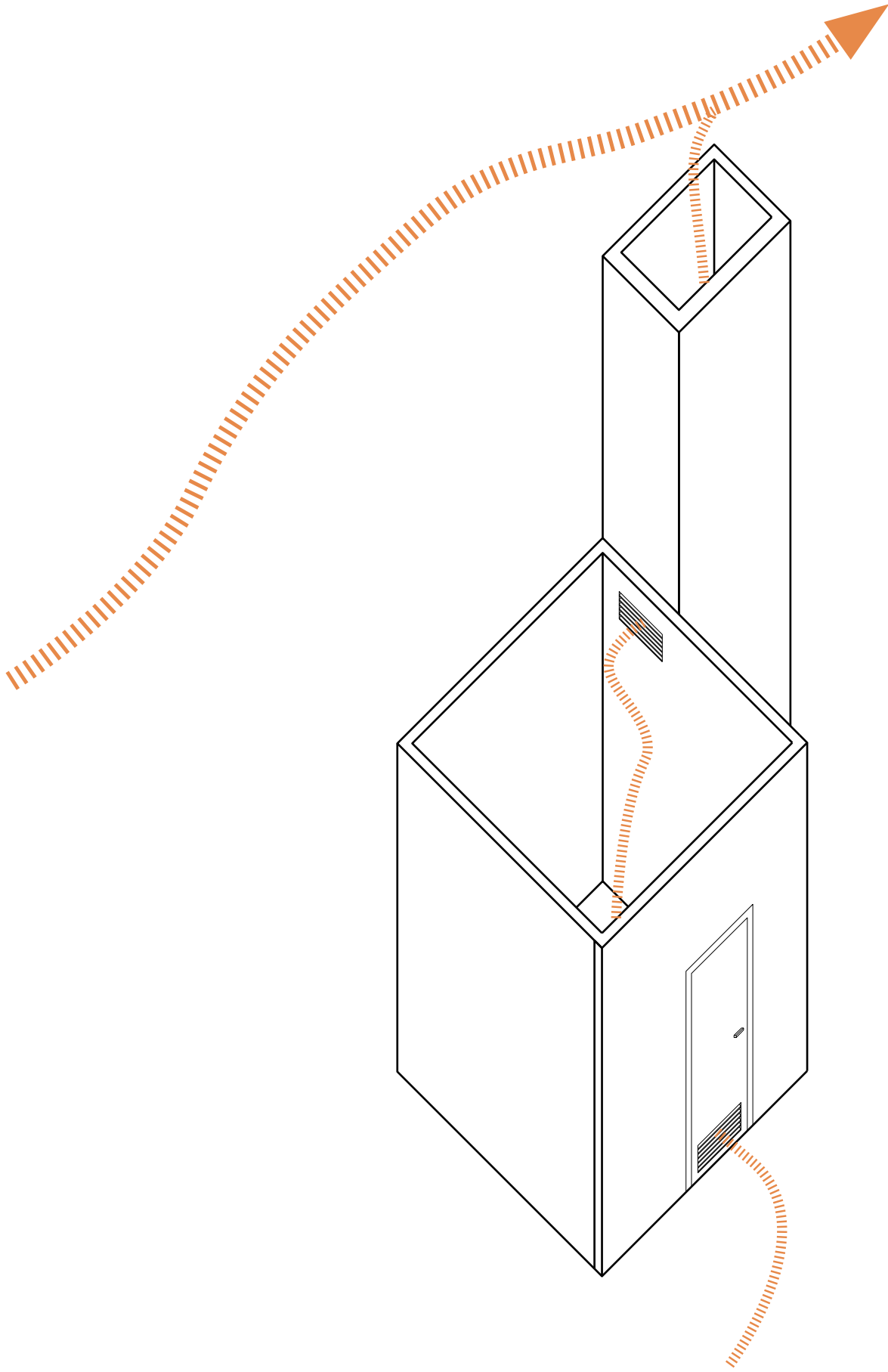










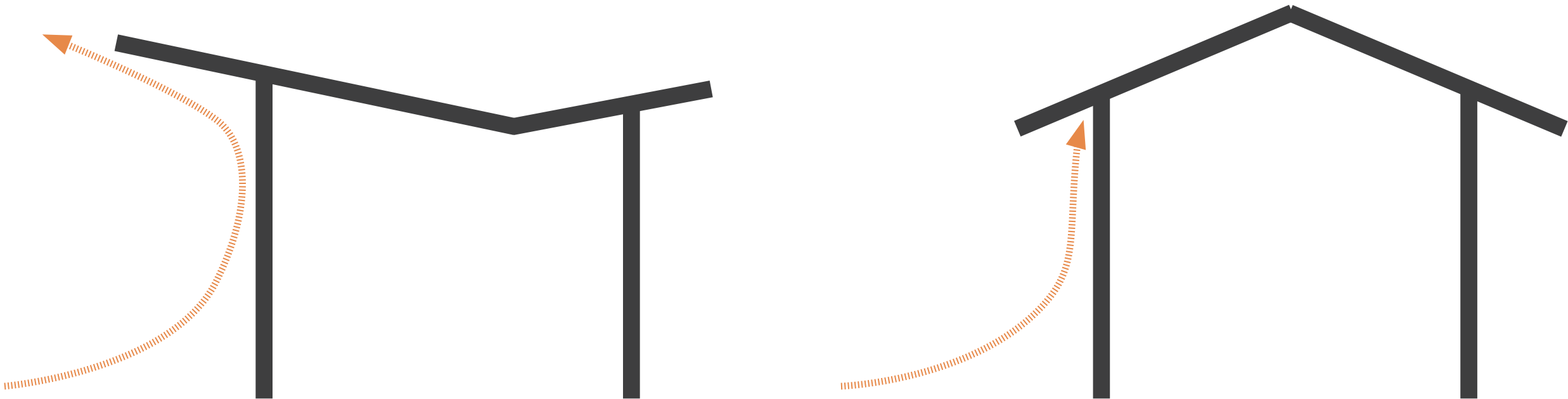


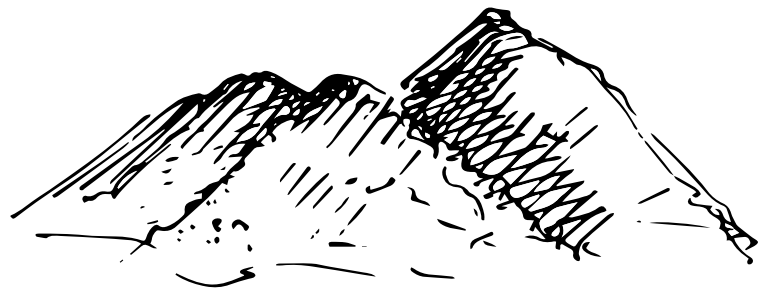






BACK TO THE ROOTS





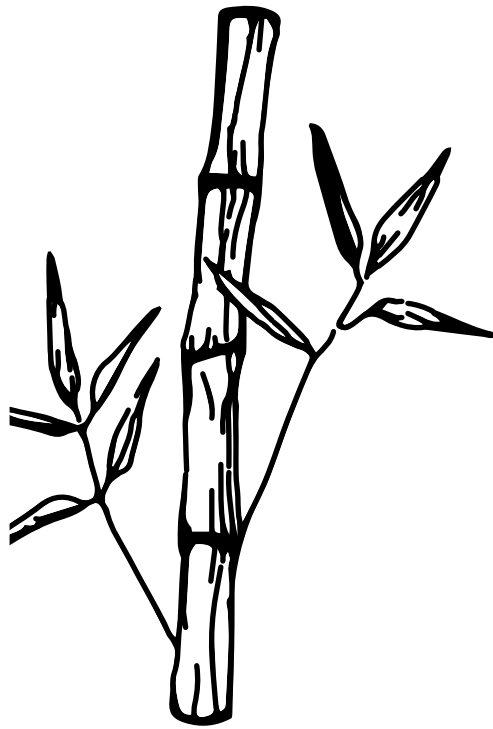
EARTH - LOAM / SILT / SAND



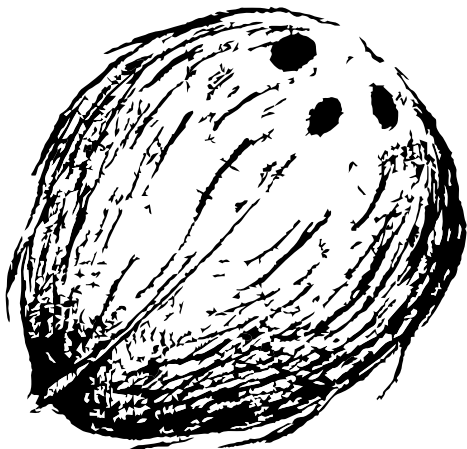
ALOE VERA



CACTI



BAMBOO



COCONUT FIBER

LOCAL MATERIALS



BACK TO THE ROOTS



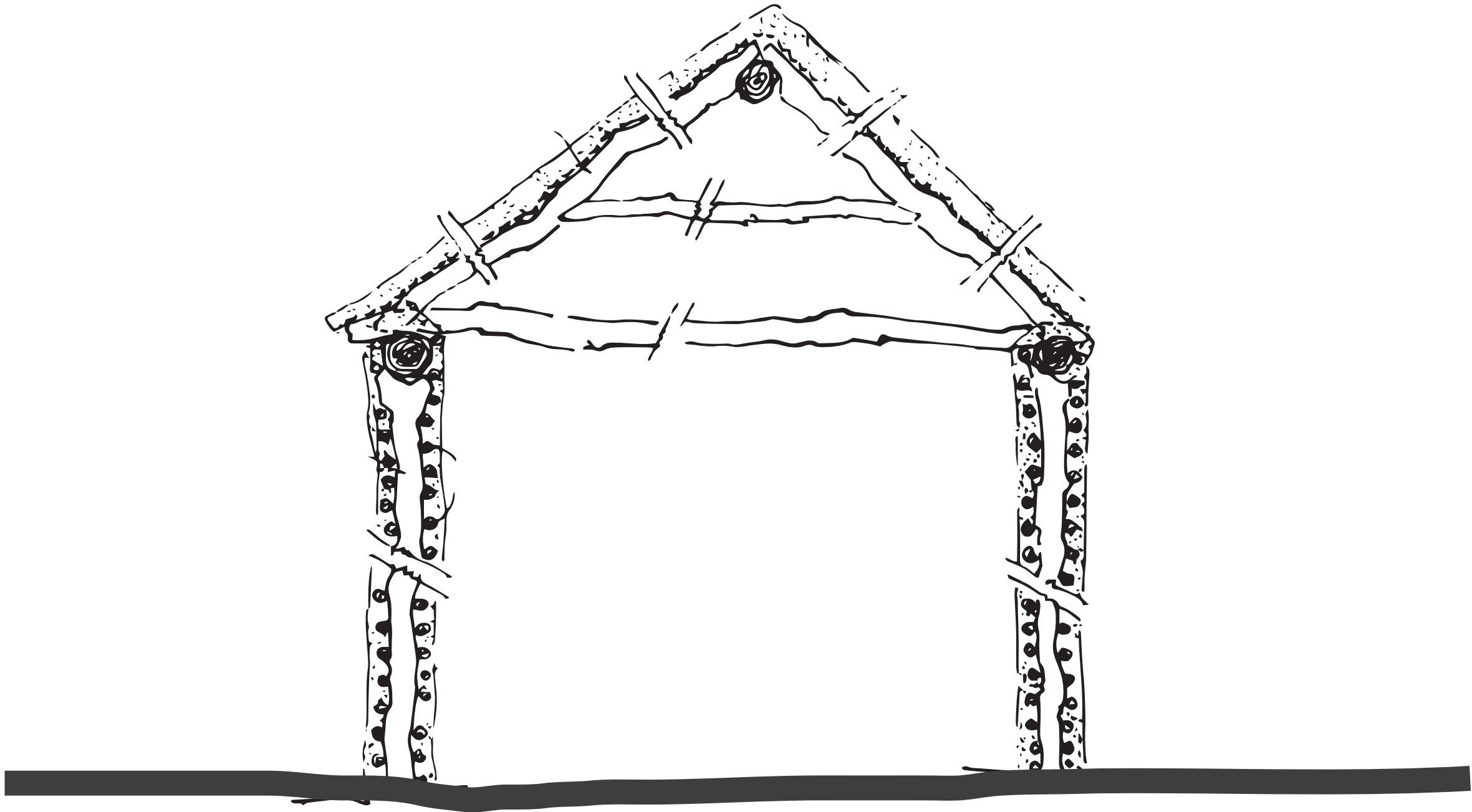


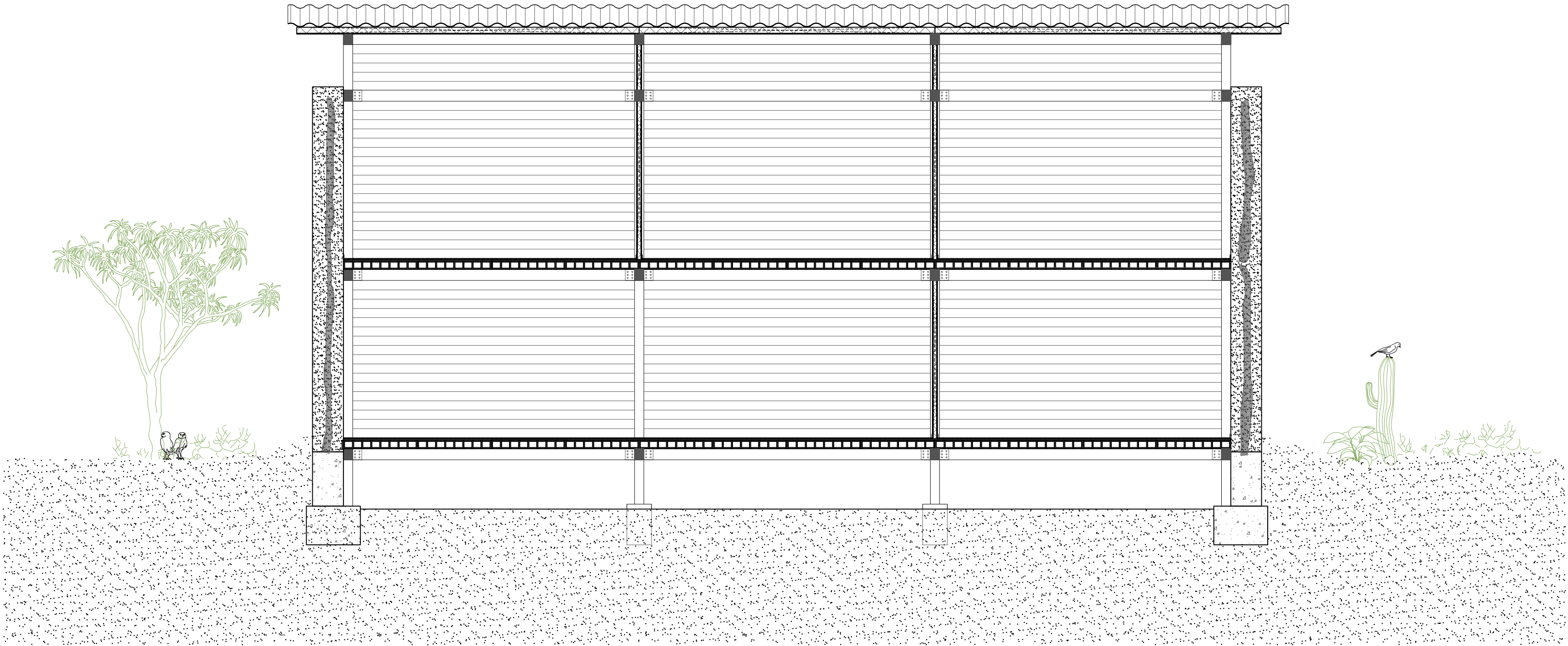




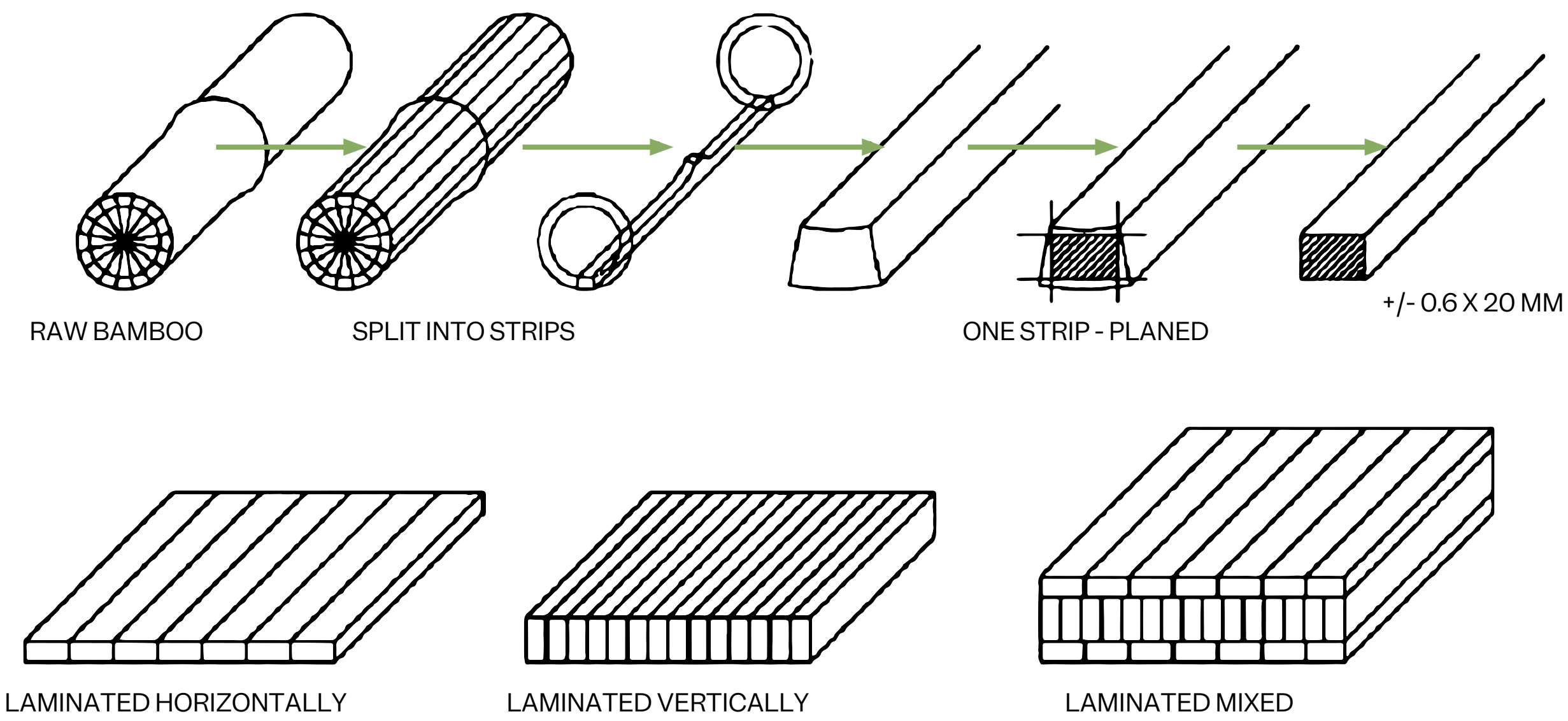


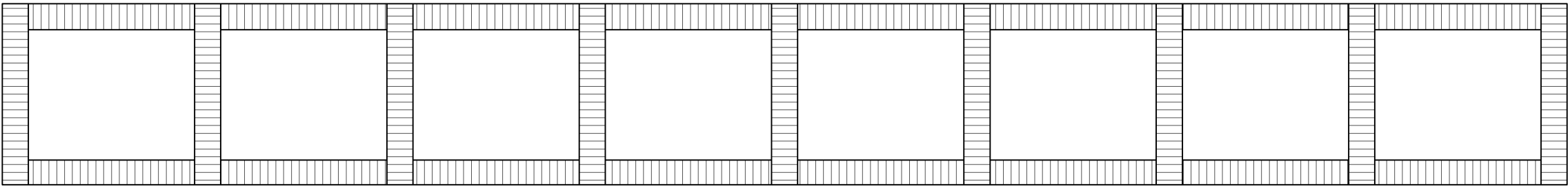
BACK TO THE ROOTS



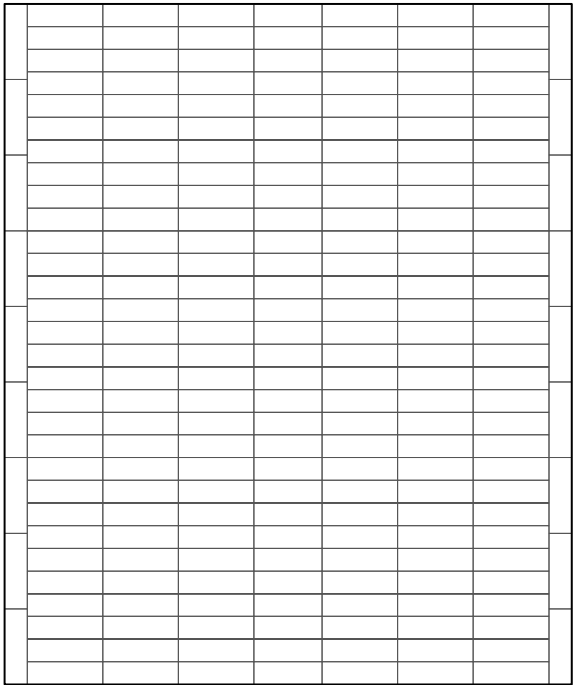




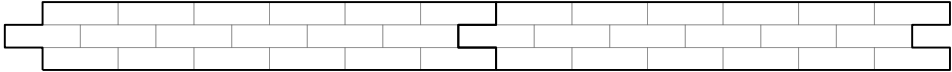




FLOOR



COLUMN / BEAM

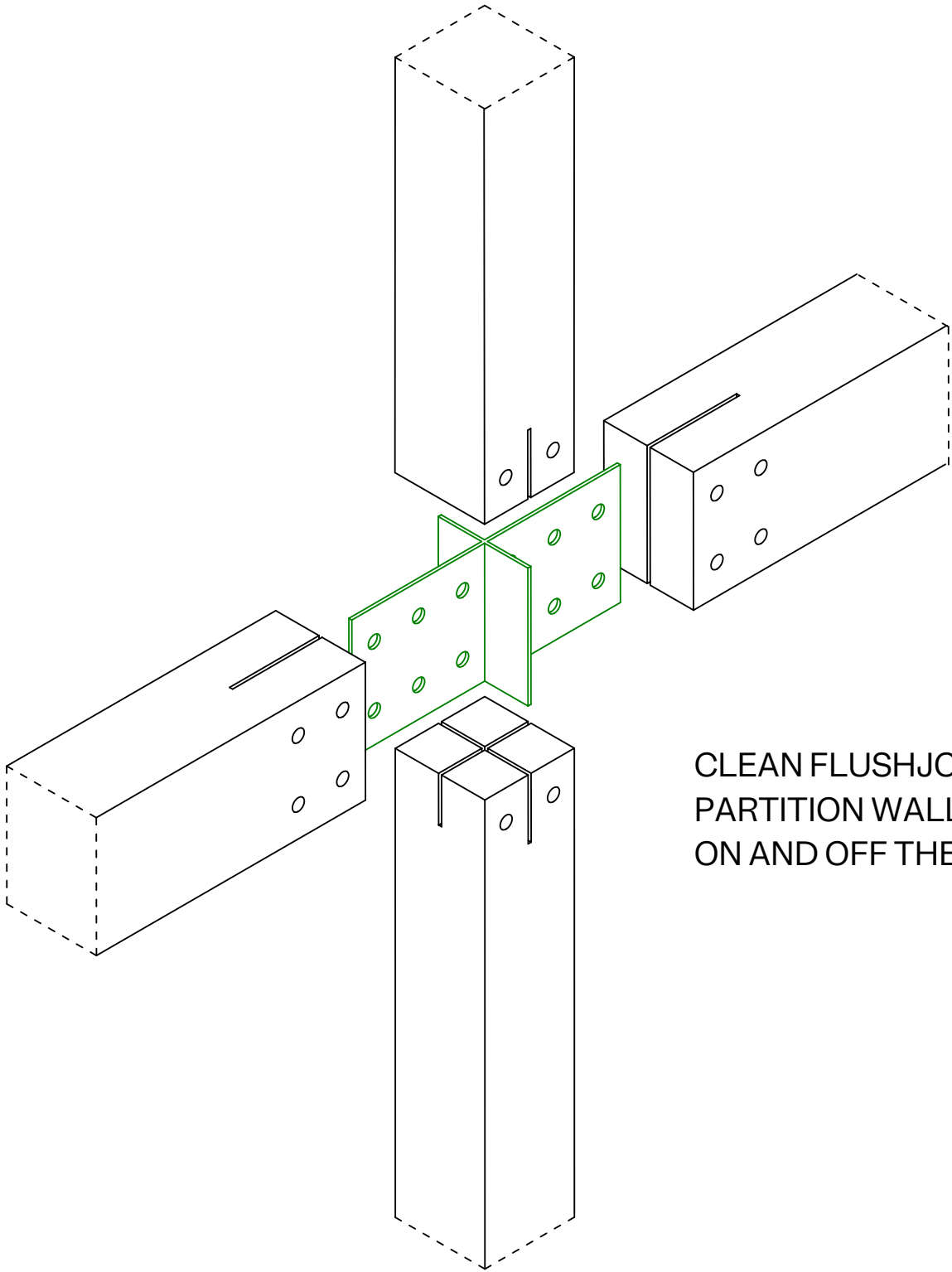


PLANK FLOORING



SHUTTERS

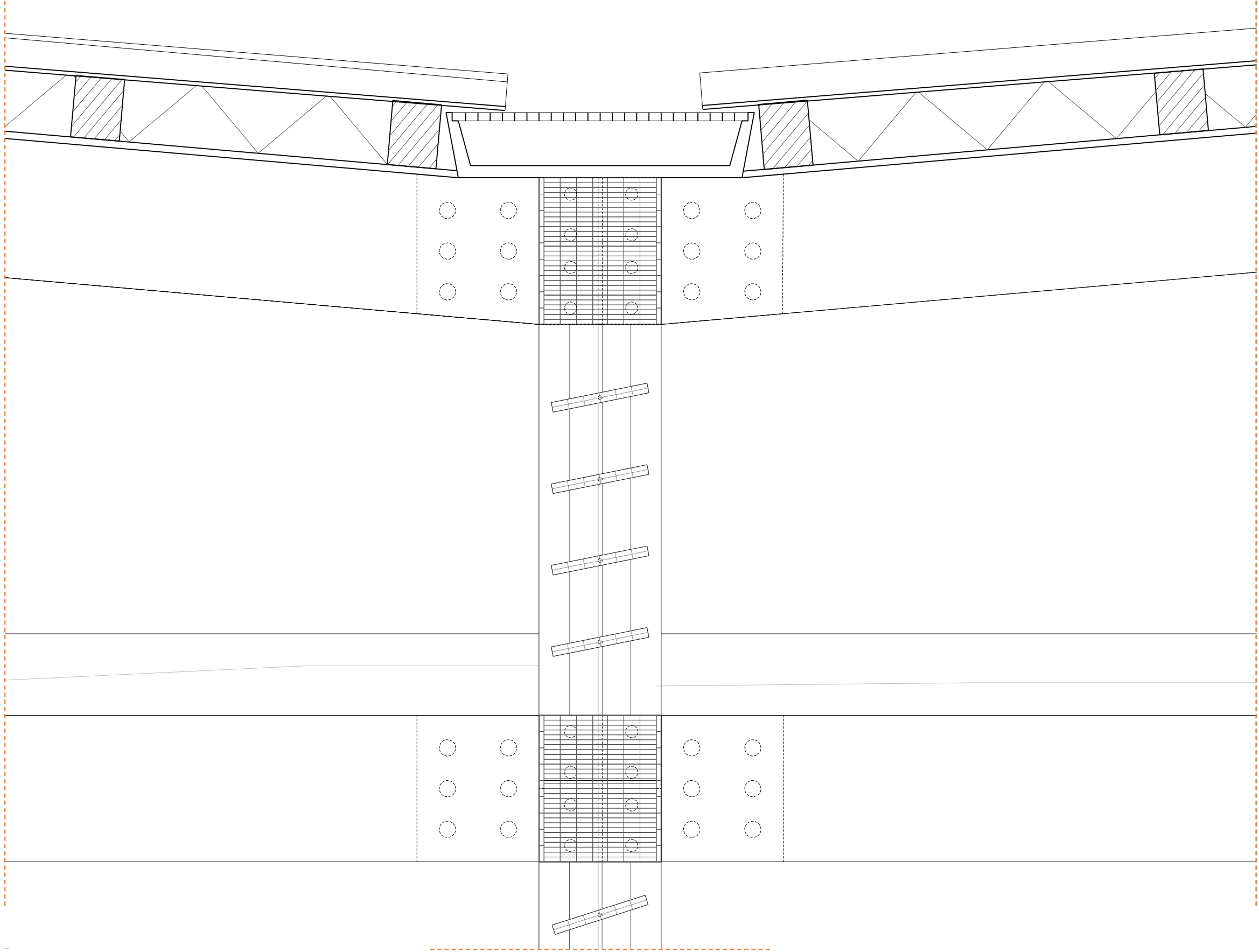
ENGINEERED BAMBOO

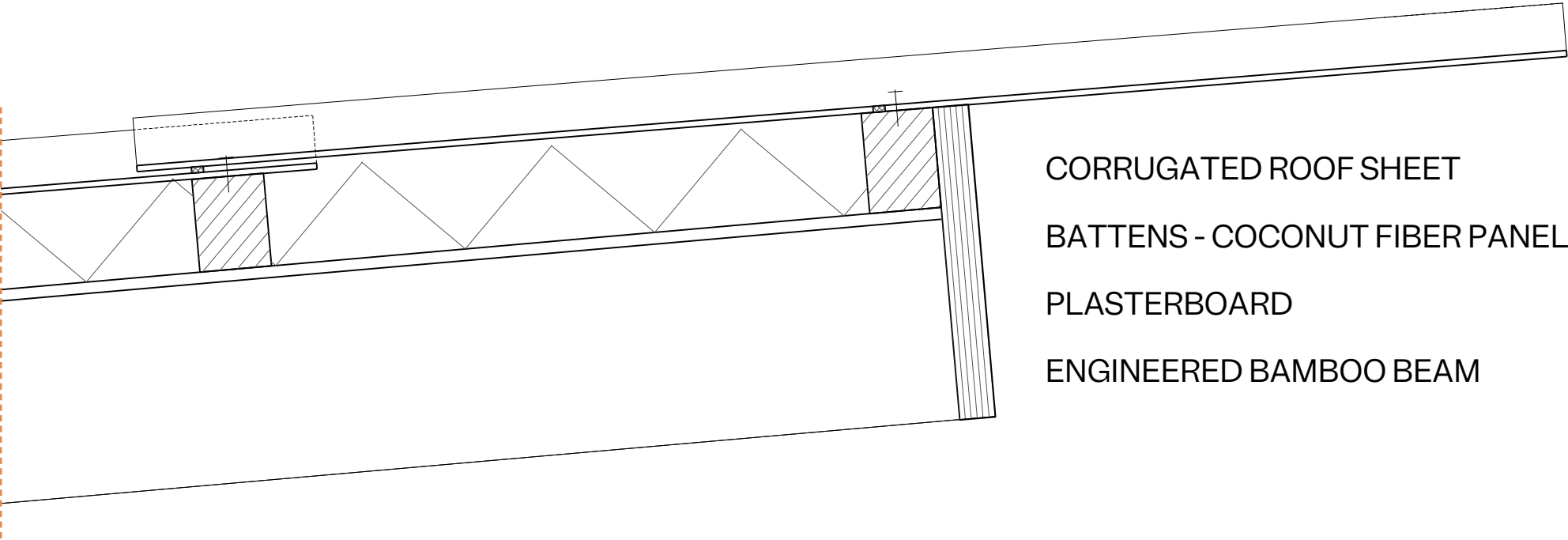


CLEAN FLUSHJOINTS
PARTITION WALLS BETWEEN COLUMNS AND BEAMS
ON AND OFF THE GRID







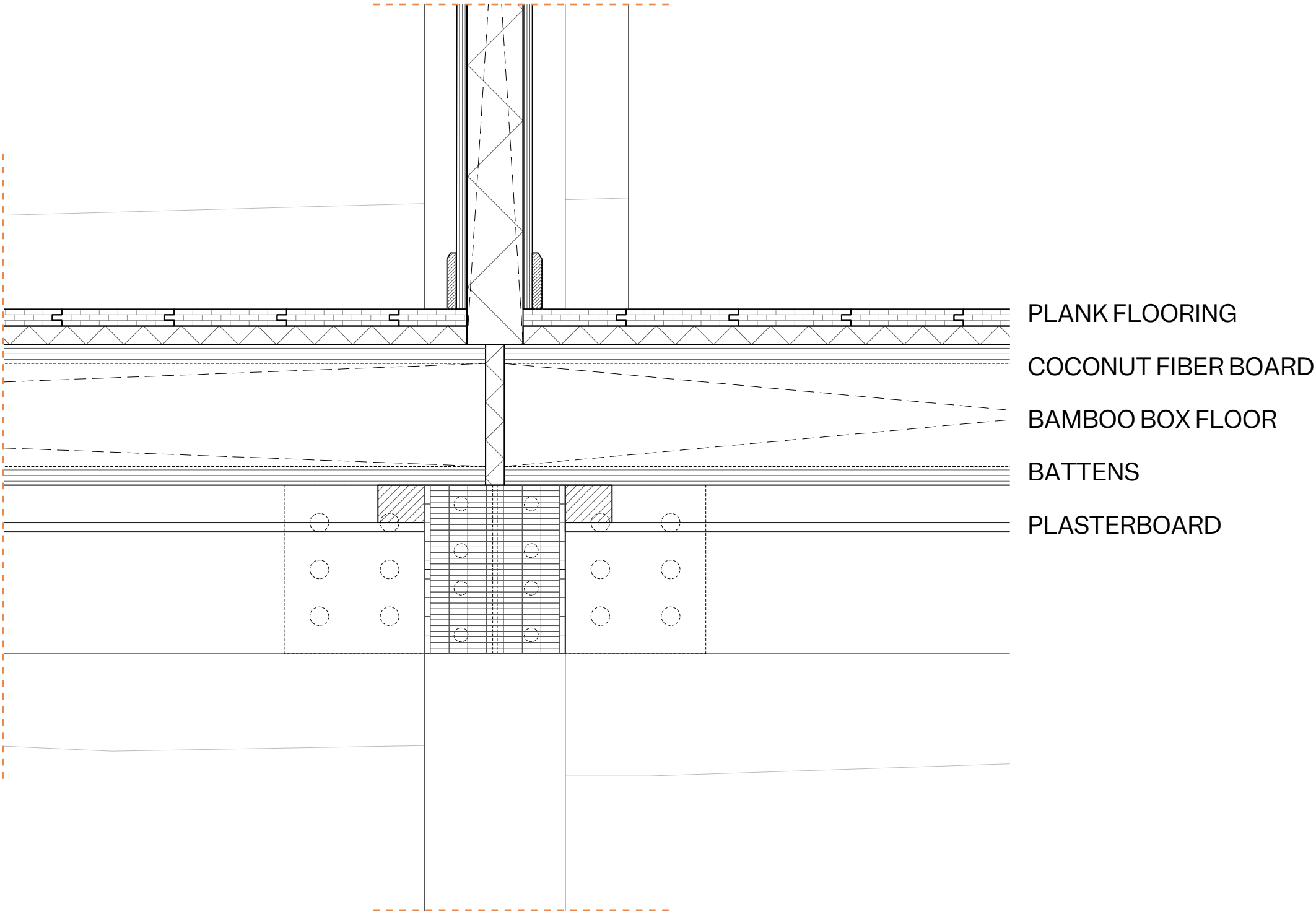


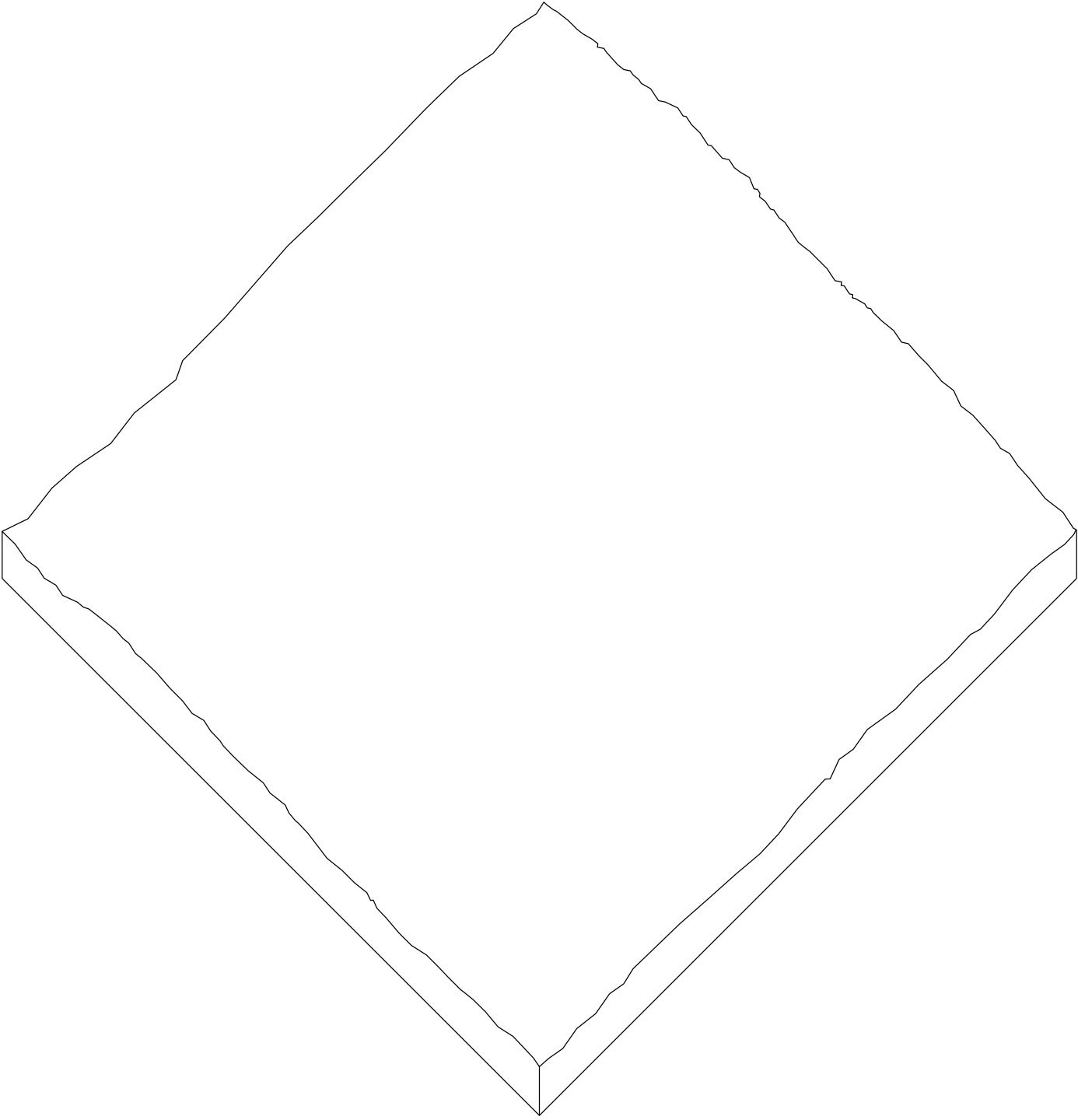
CORRUGATED ROOF SHEET

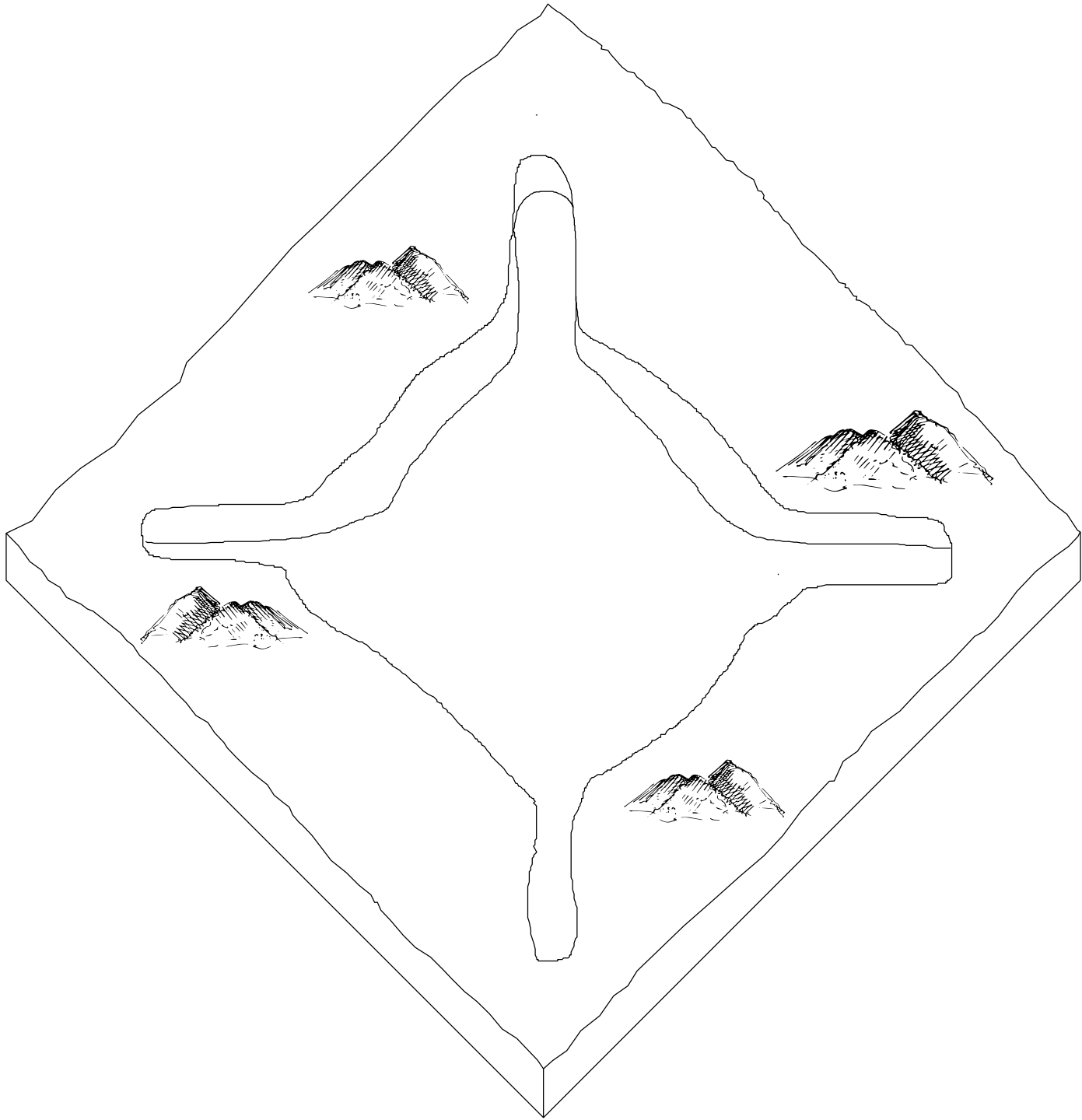
BATTENS - COCONUT FIBER PANELS

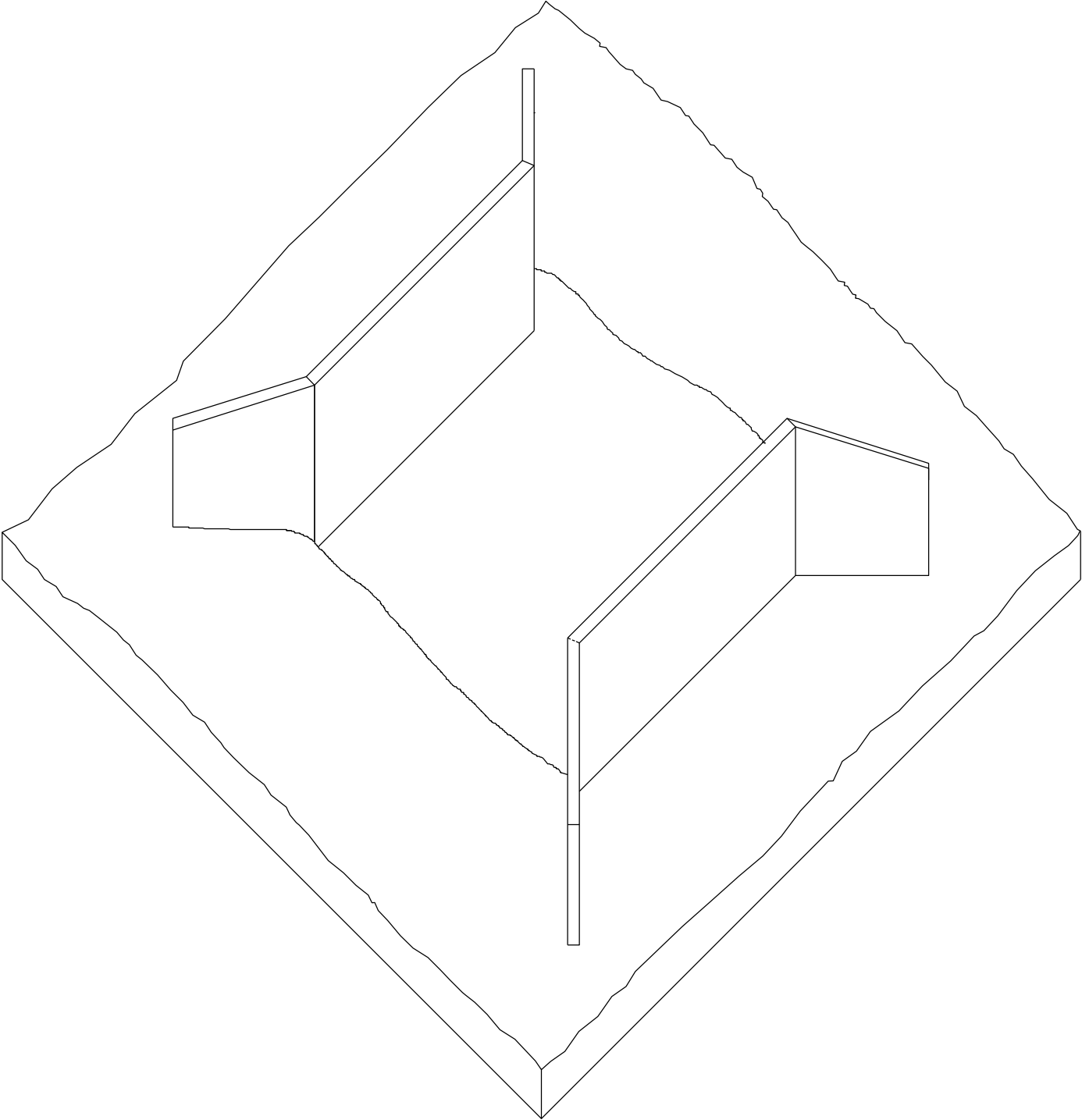
PLASTERBOARD

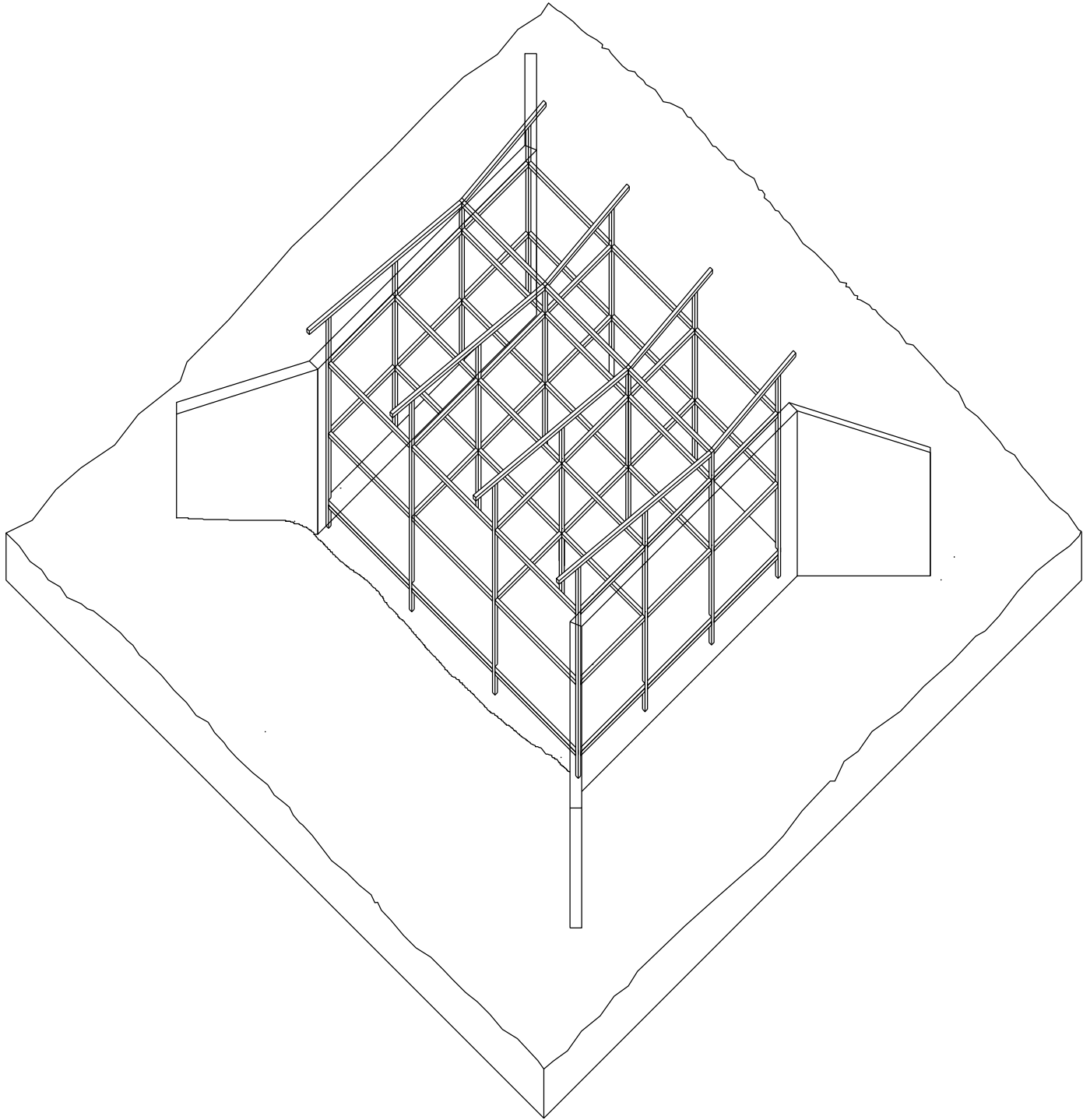
ENGINEERED BAMBOO BEAM

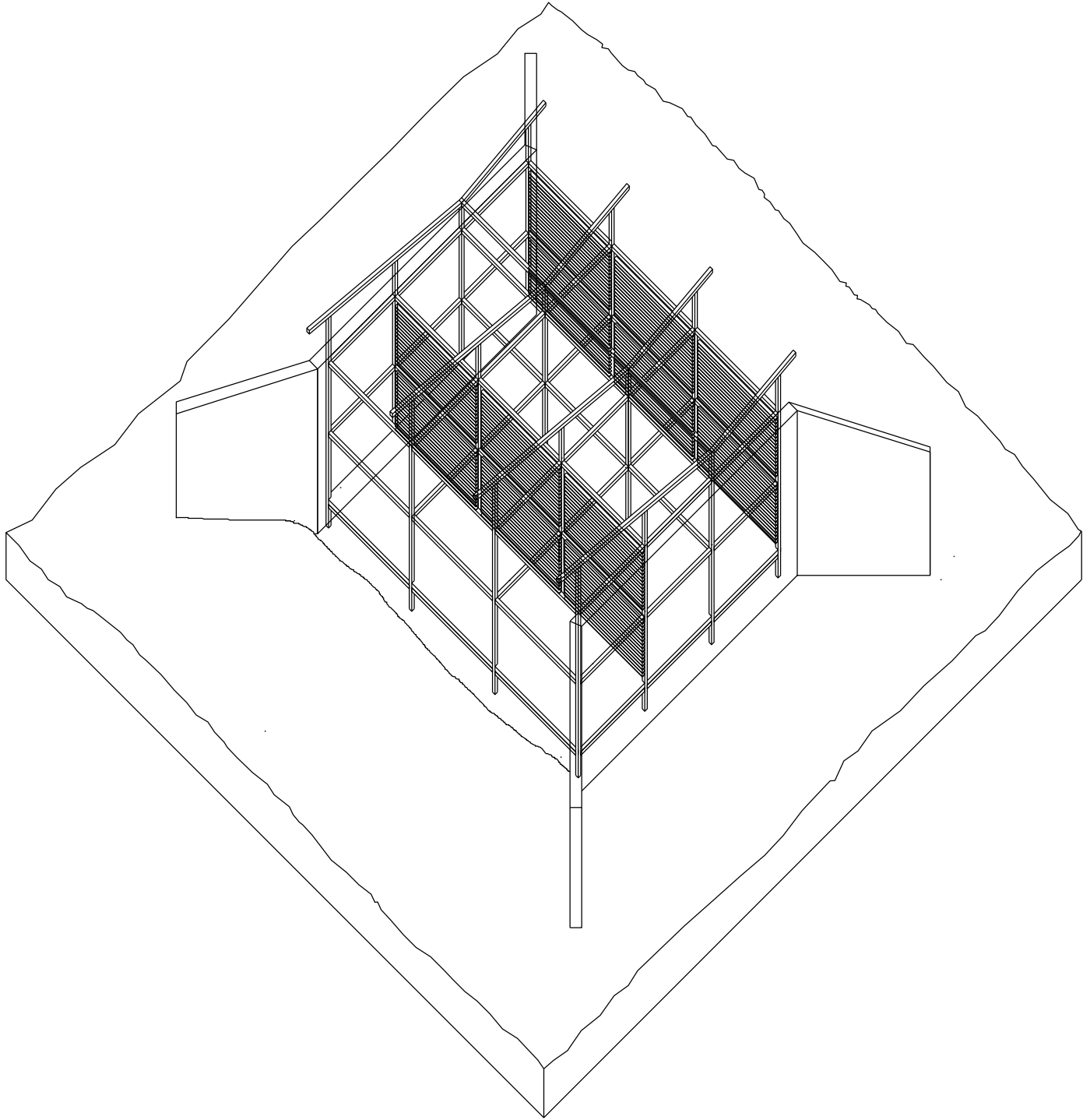


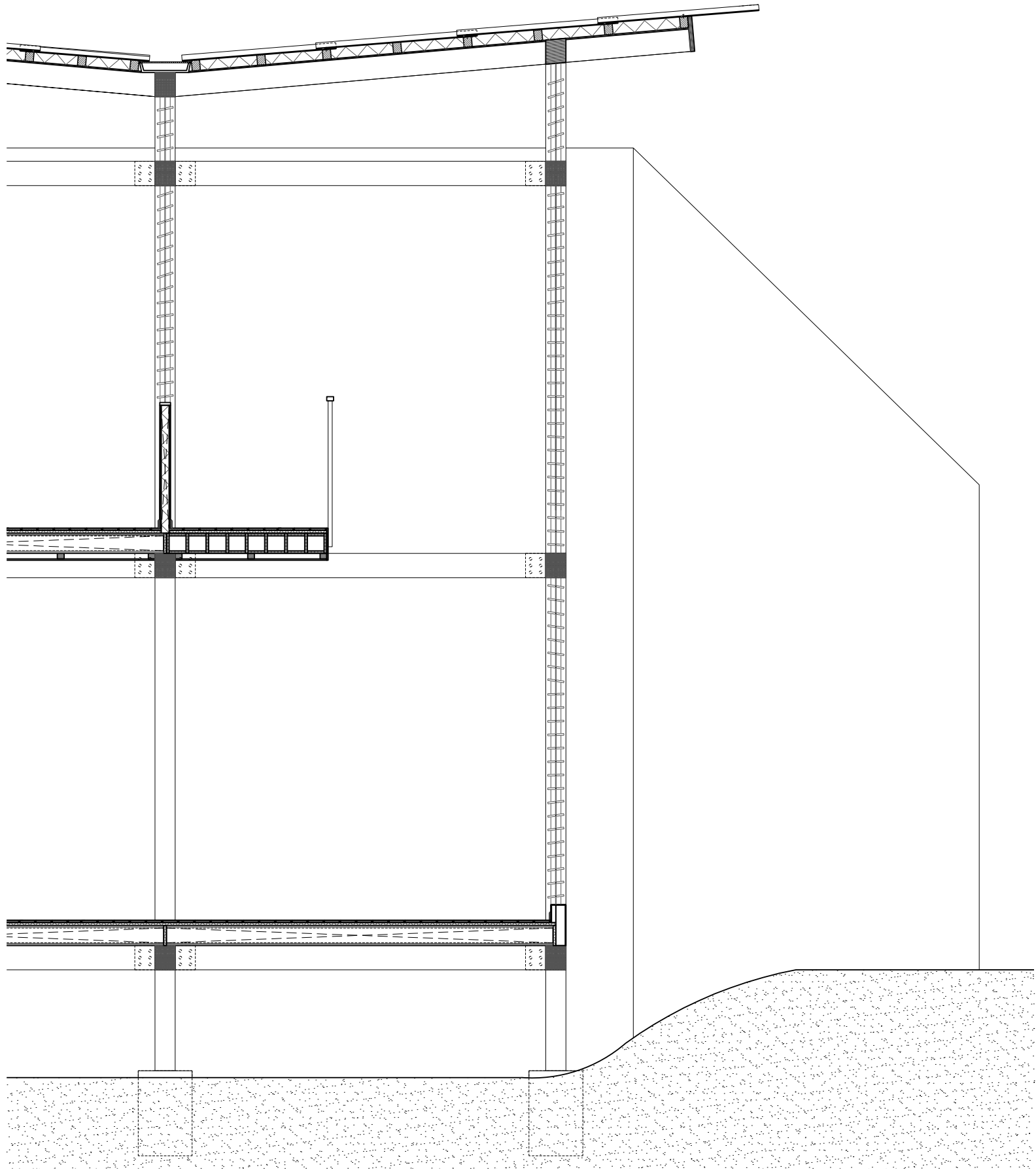


















“BOU PALO”
UNDERNEATH THE TREE











BACK TO THE ROOTS















