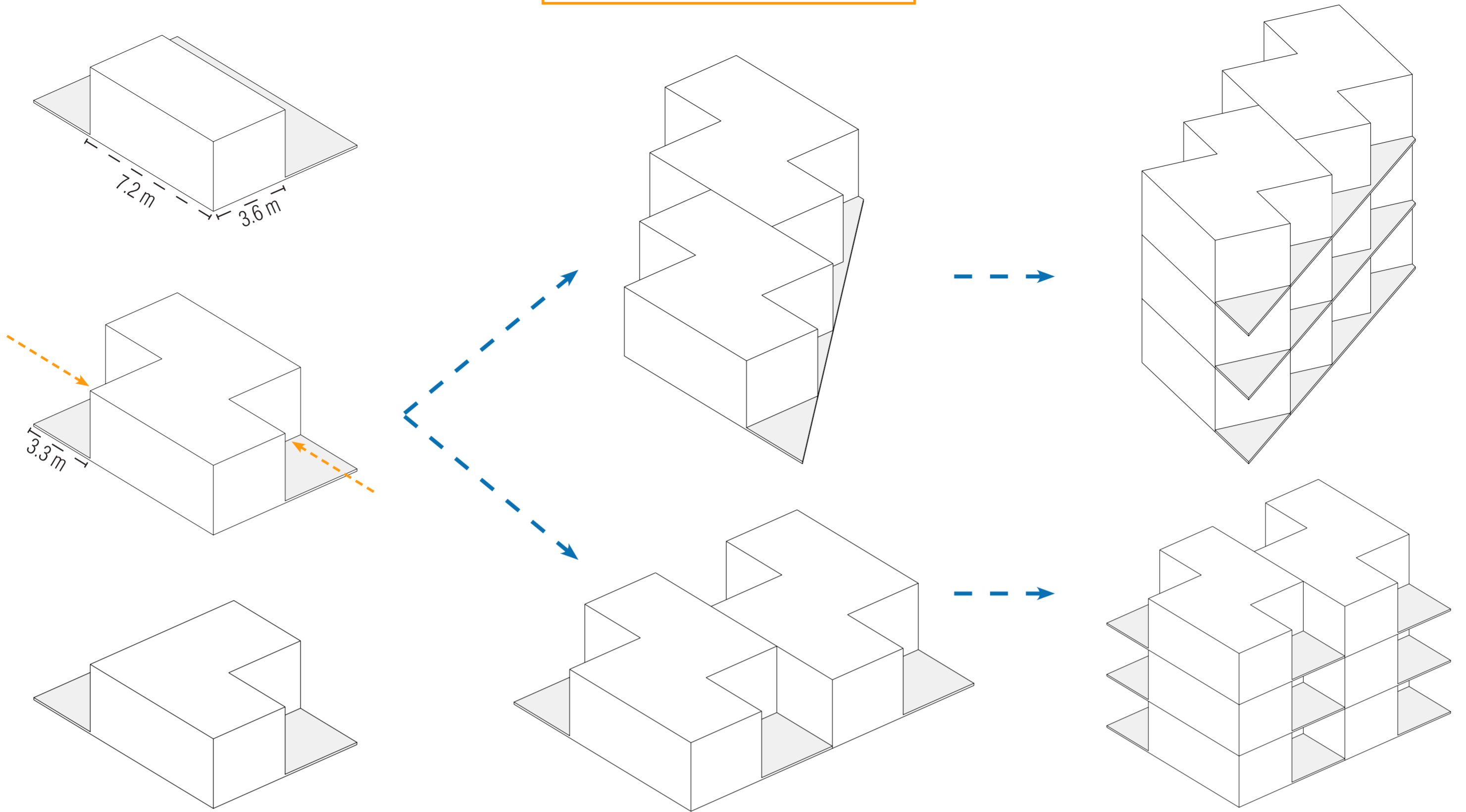


HOUSING MODULE



MODULE TYPOLOGIES

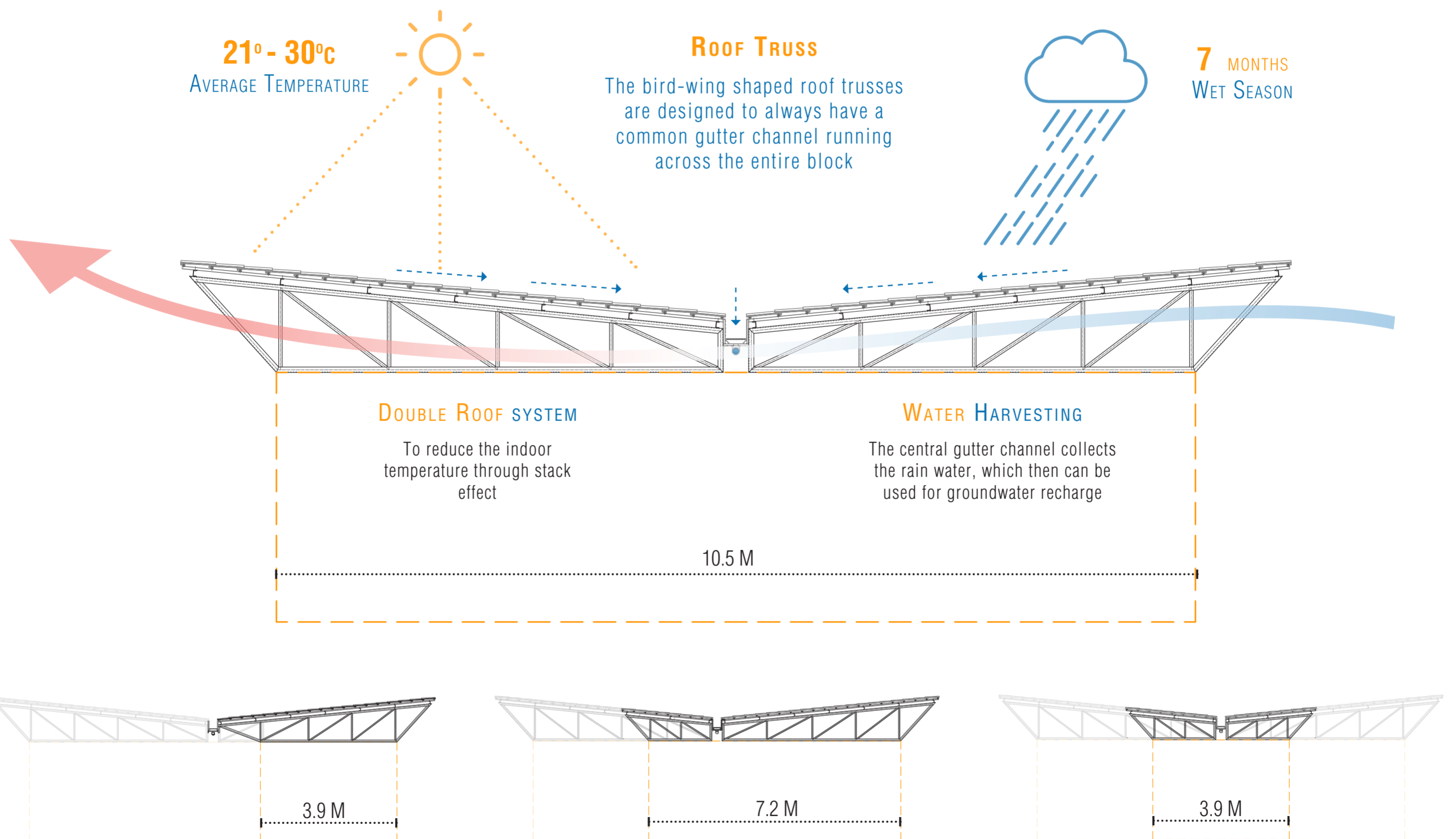
Each Apartment is designed with a front and back balconies/porches as they are an important part of Kampung life

MODULE ARRANGEMENT

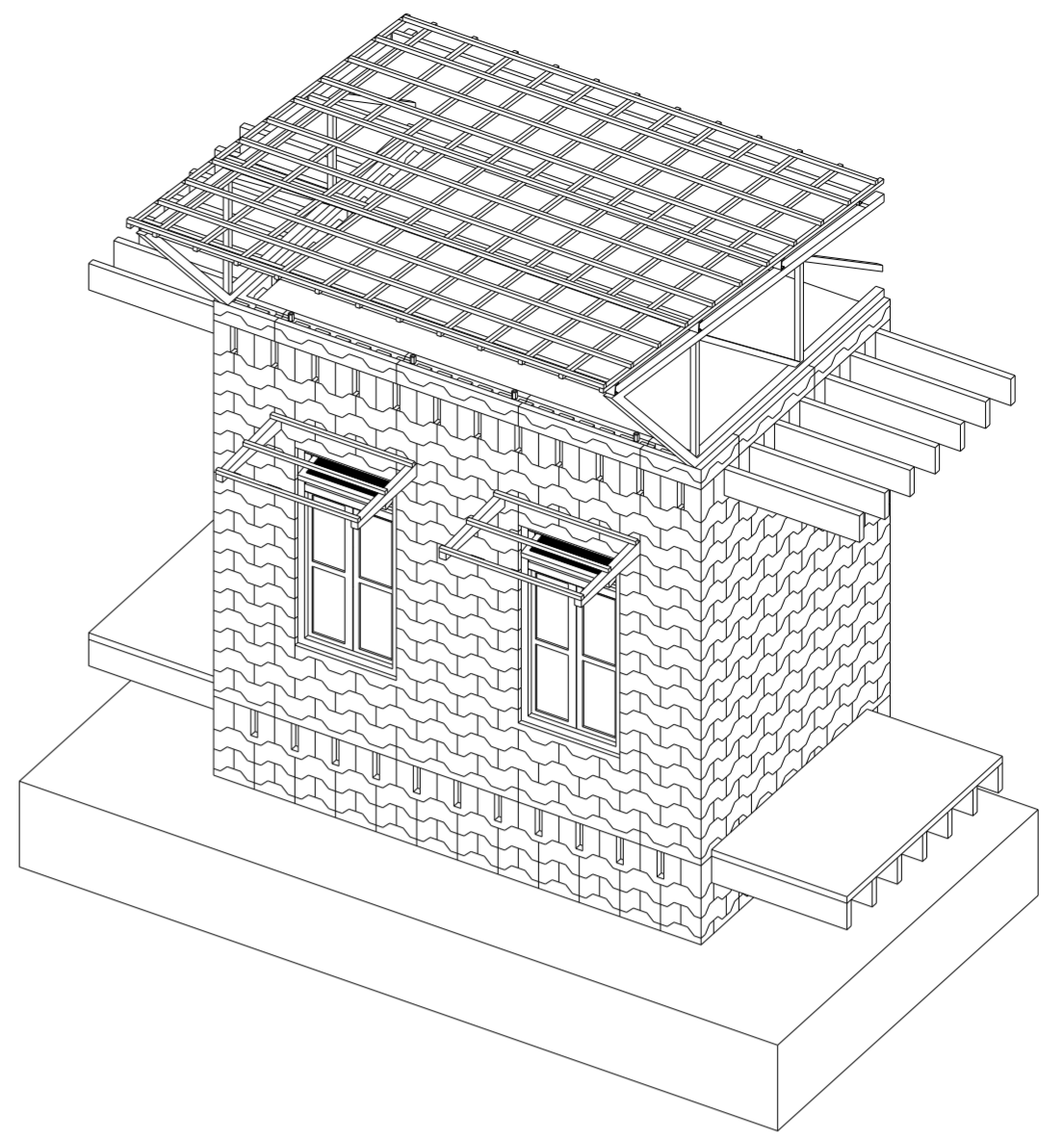
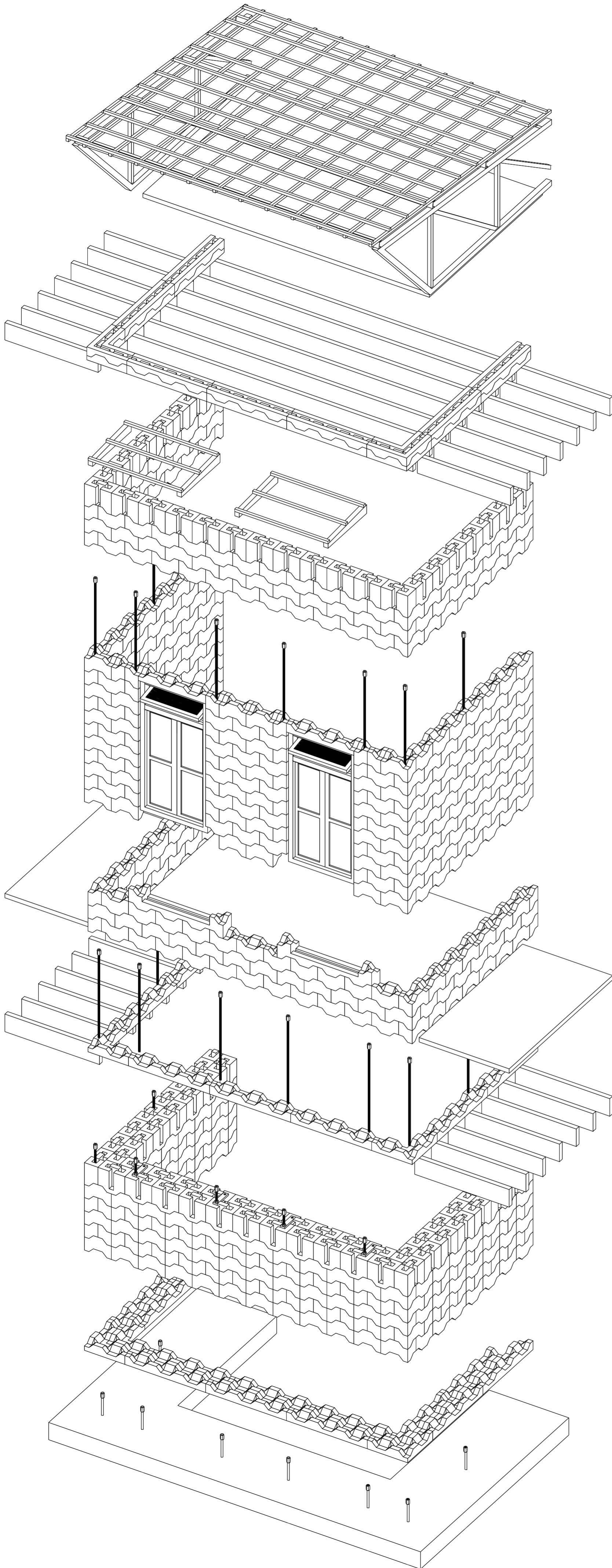
The layouts are designed to facilitate flexibility of arrangement

VERTICAL DENSIFICATION

The houses can be stacked upto G + 2 floors to create denser housing



ROOFING TYPOLOGY



FINAL

TRUSS & ROOFING



END WALL & FLOOR JOISTS



WINDOW & LINTEL



SILL LEVEL



PLINTH LEVEL BASE PLATE



FOUNDATION WALL 300MM

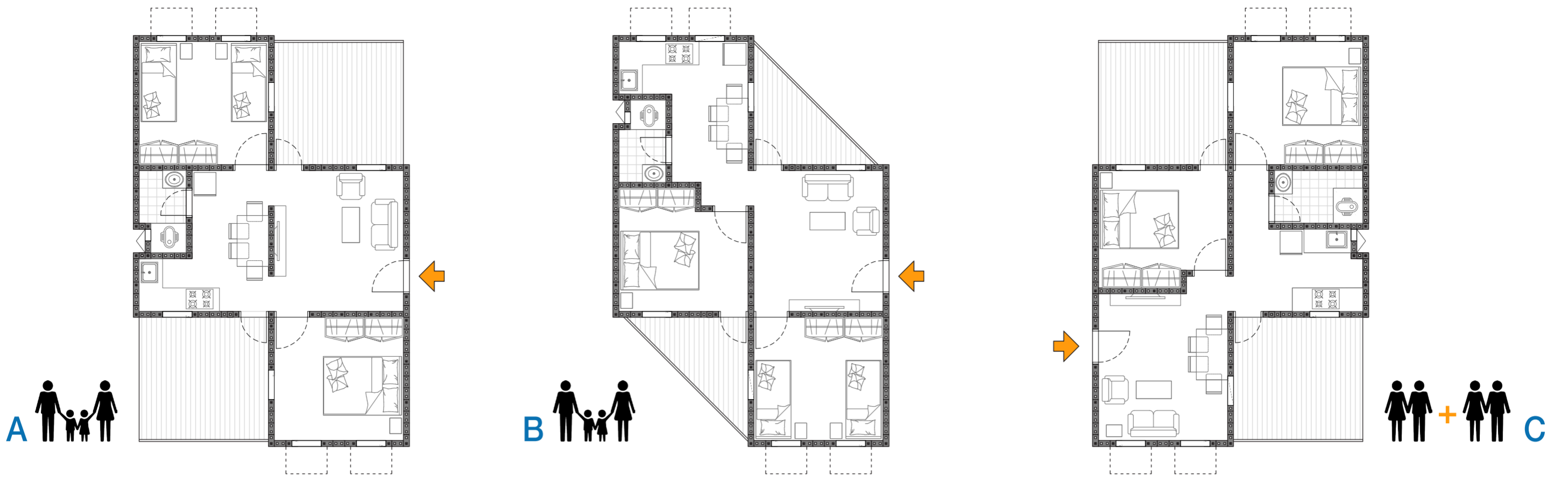


FOUNDATION BASE PLATE

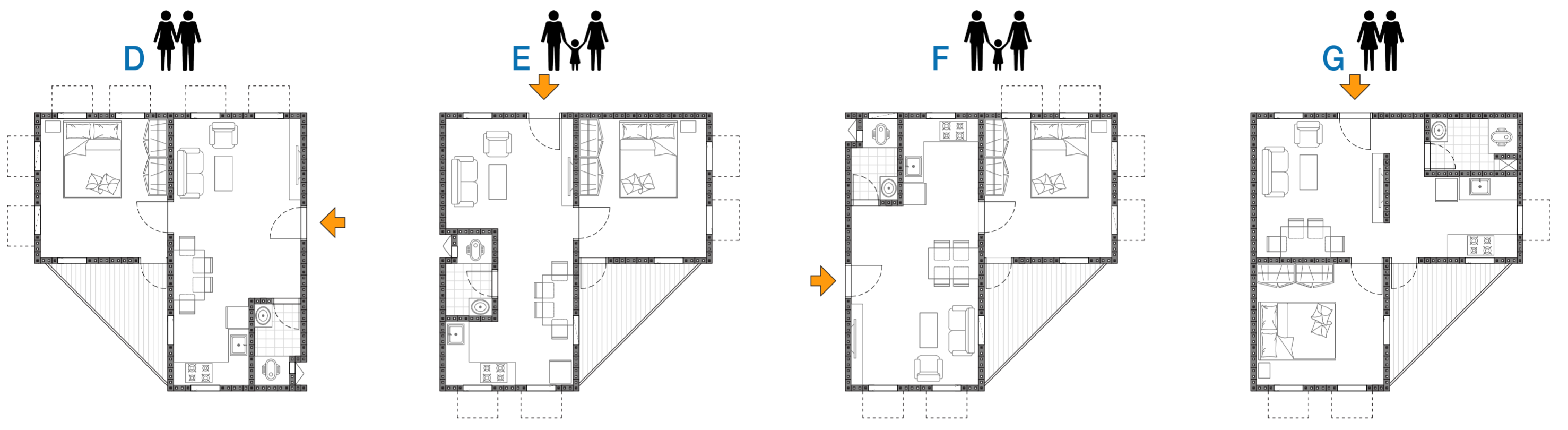


FOUNDATION PAD
WITH ANCHOR BOLT

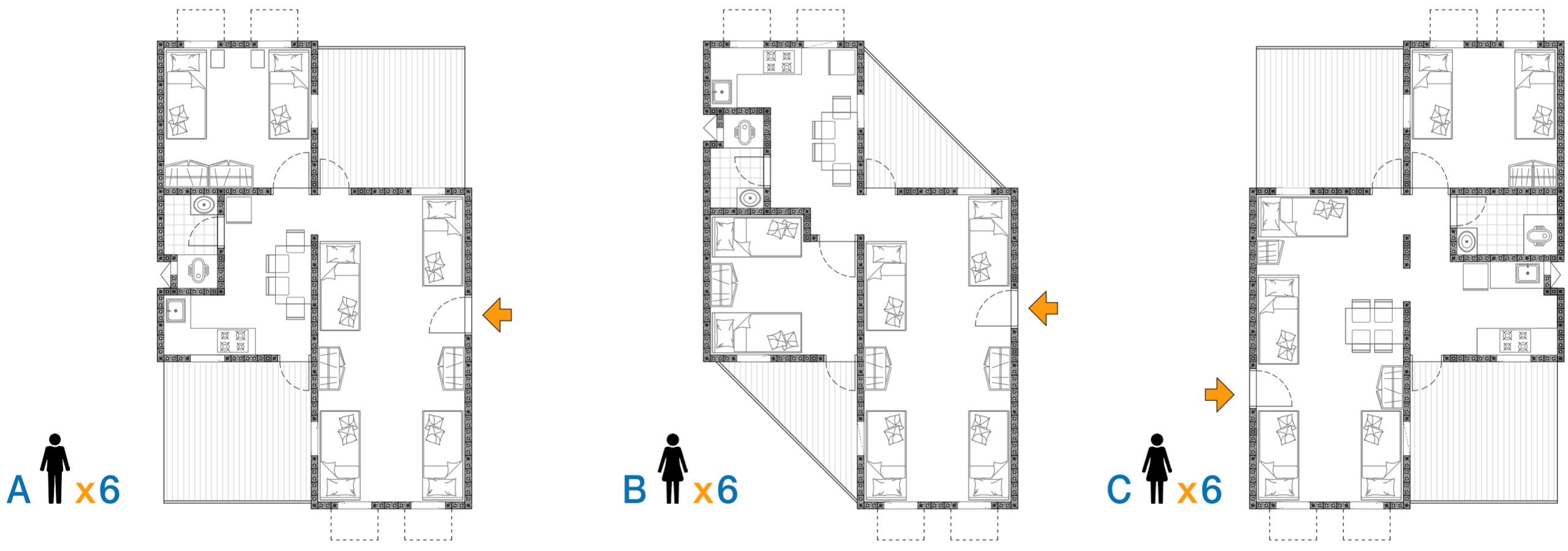
CONSTRUCTION



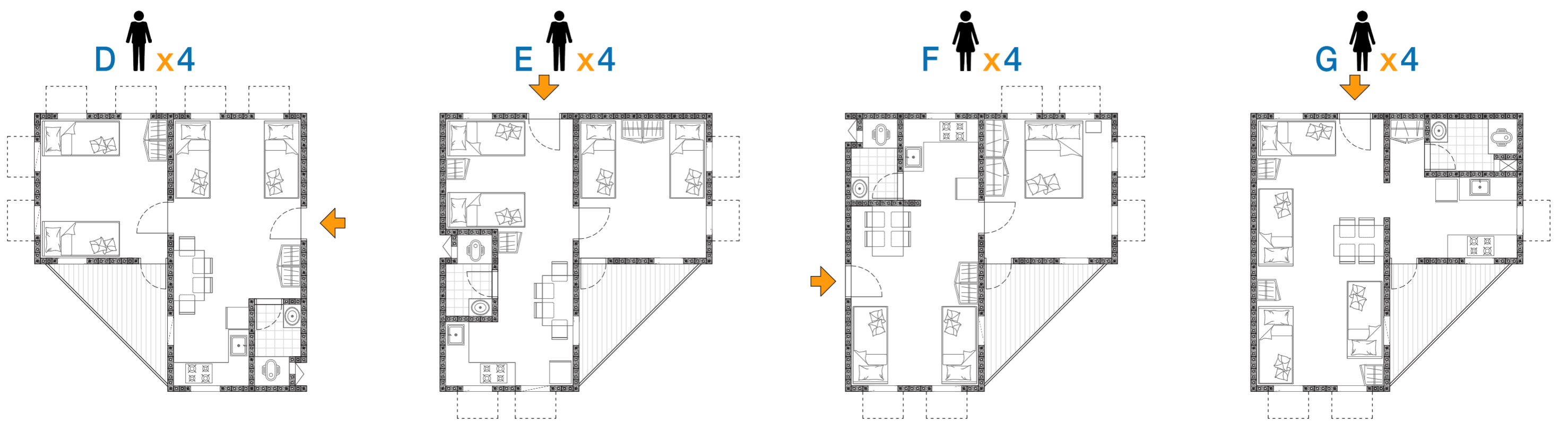
7 x FAMILY UNITS

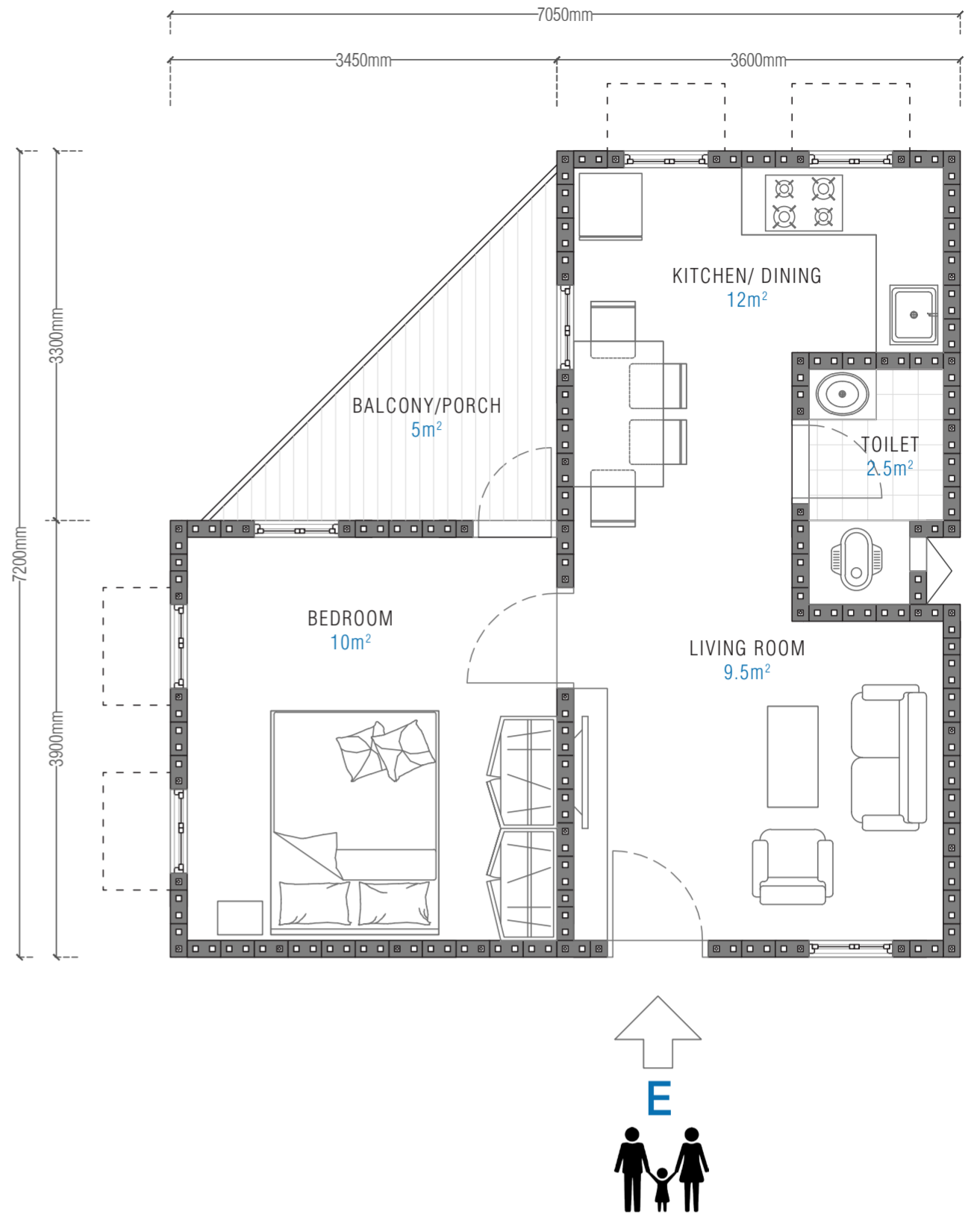
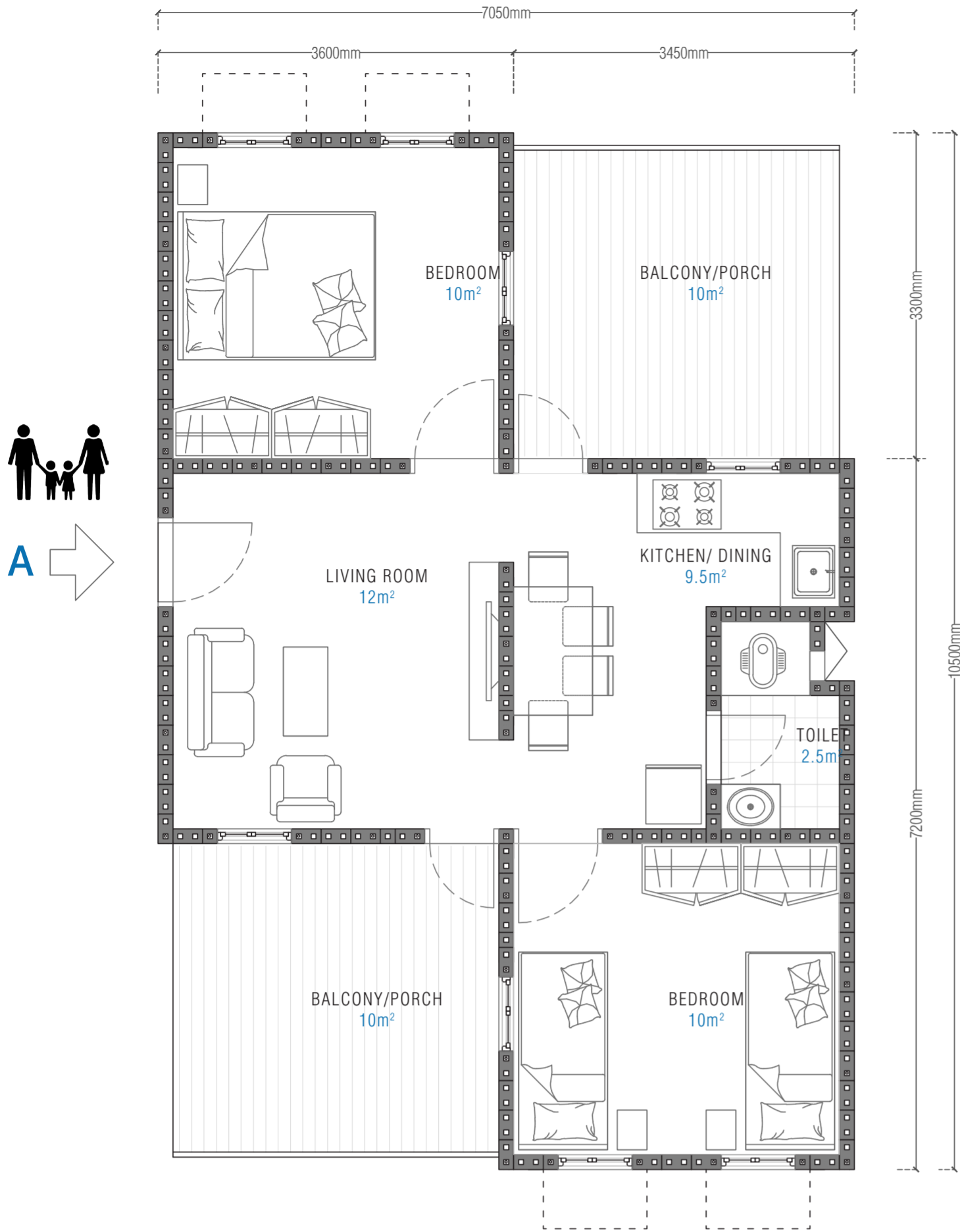


HOUSING TYPOLOGIES 1:100

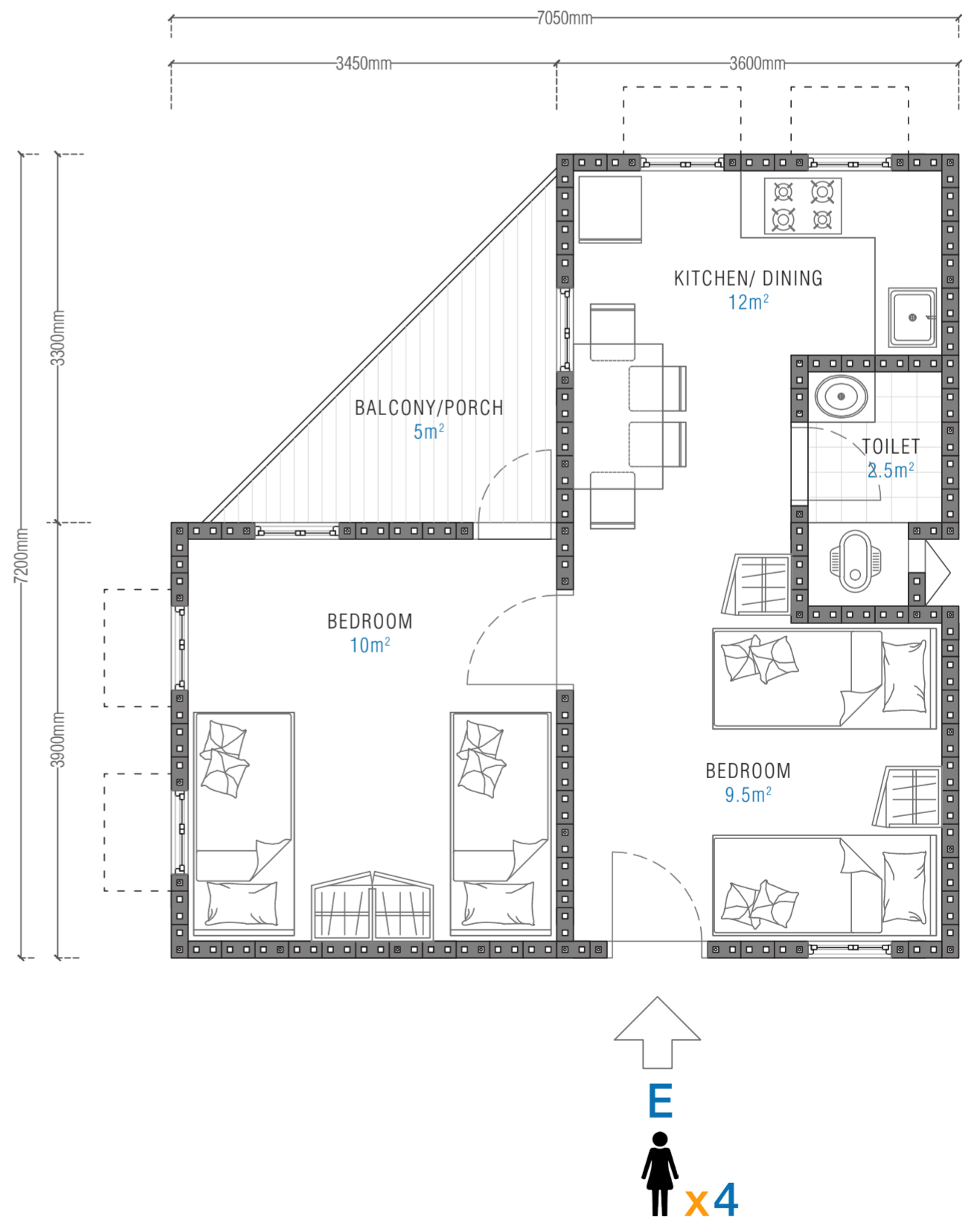
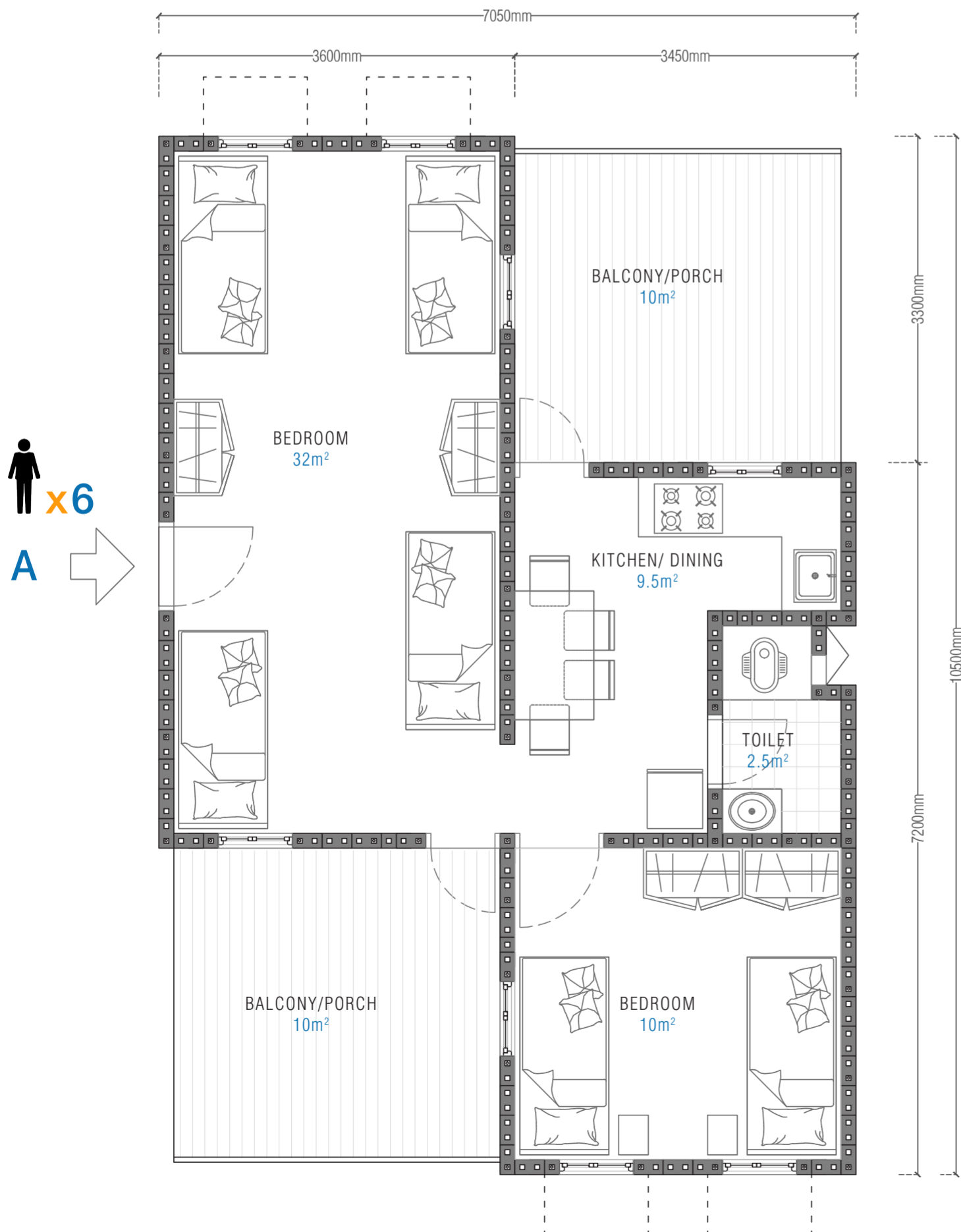


7 x RENTAL UNITS

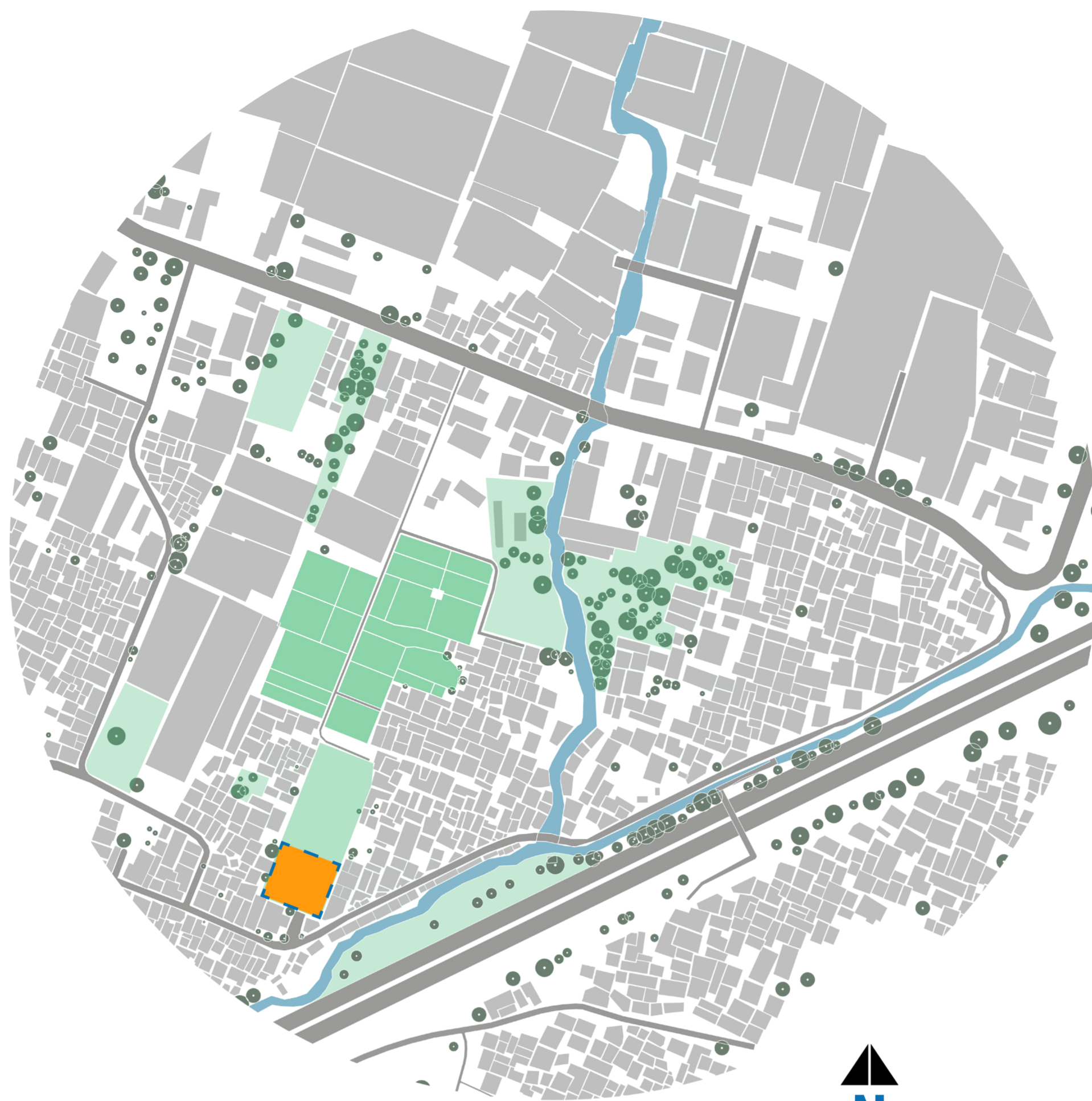




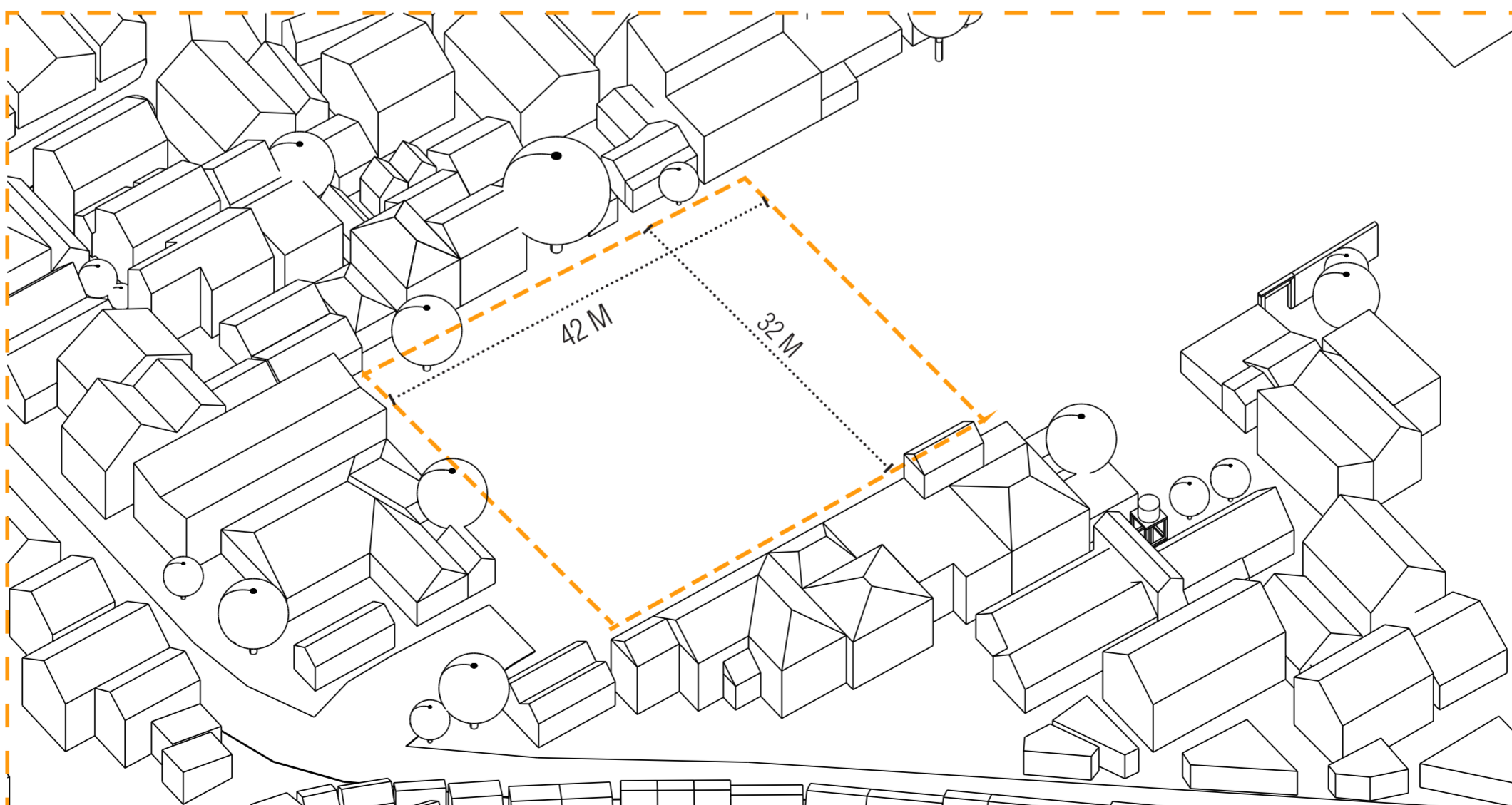
FAMILY UNITS PLAN 1:50



RENTAL UNITS PLAN 1:50



LOCATION PLAN 1:2500



SITE LOCATION

DESIGN STRATEGIES

CROSS VENTILATION

Arrangement of housing at an angle to maximise cross ventilation



BREAKING THE EDGE

This also helps to create a softer edge of the building



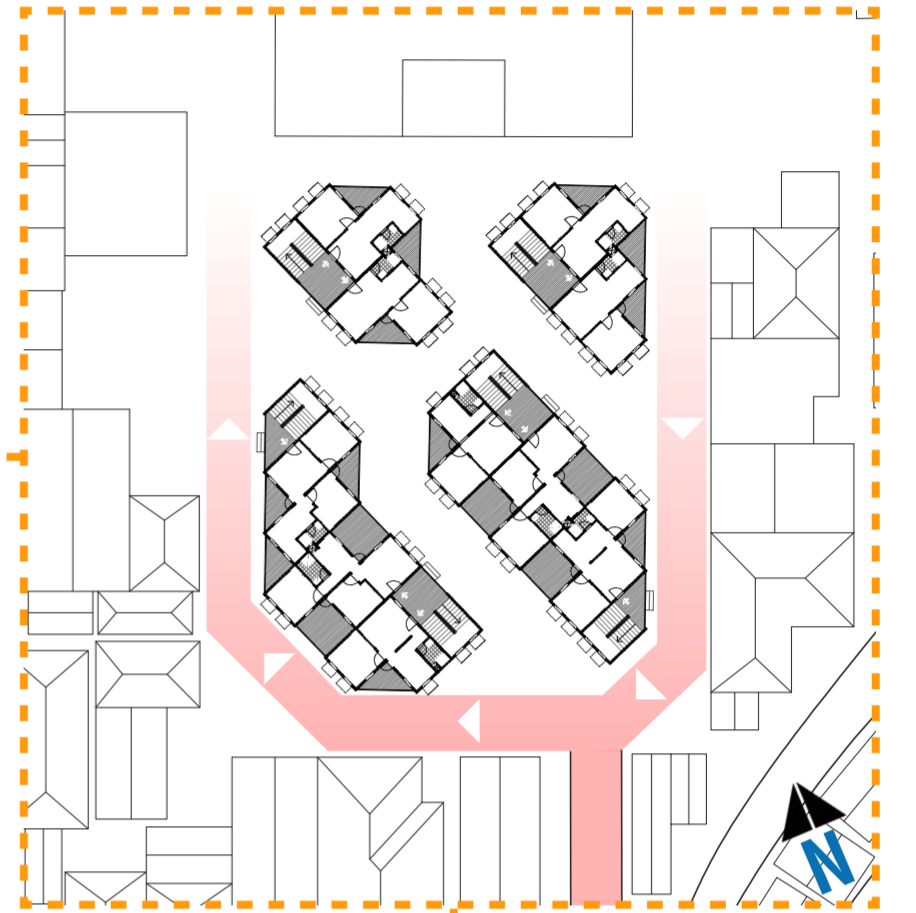
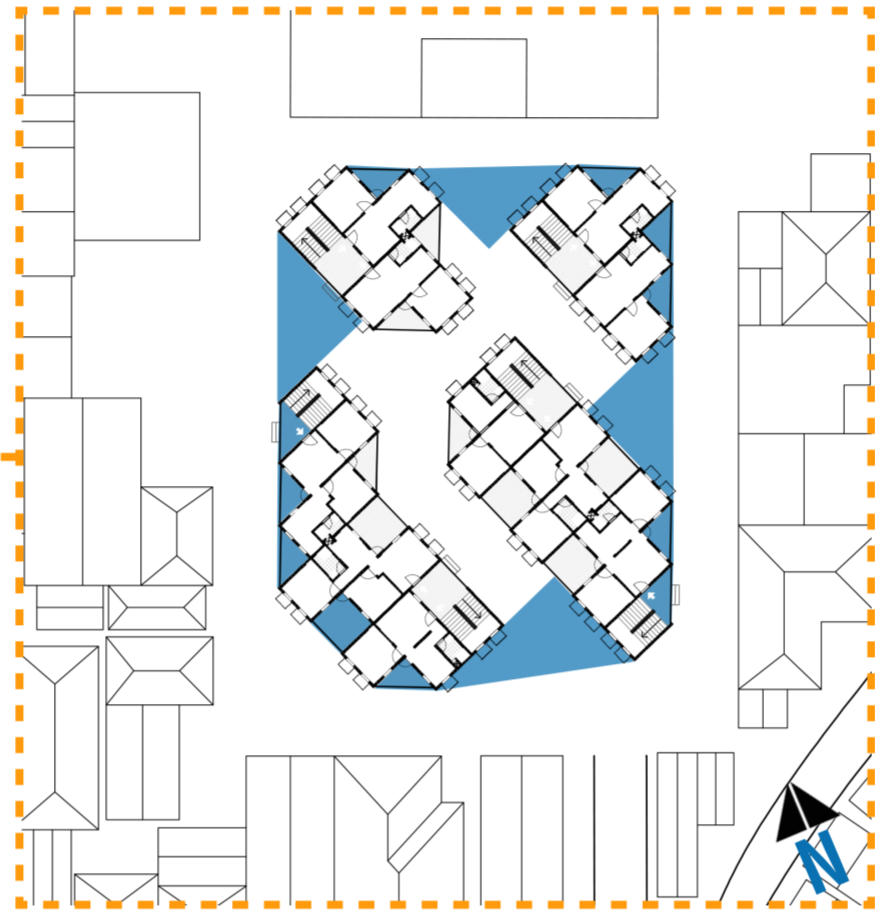
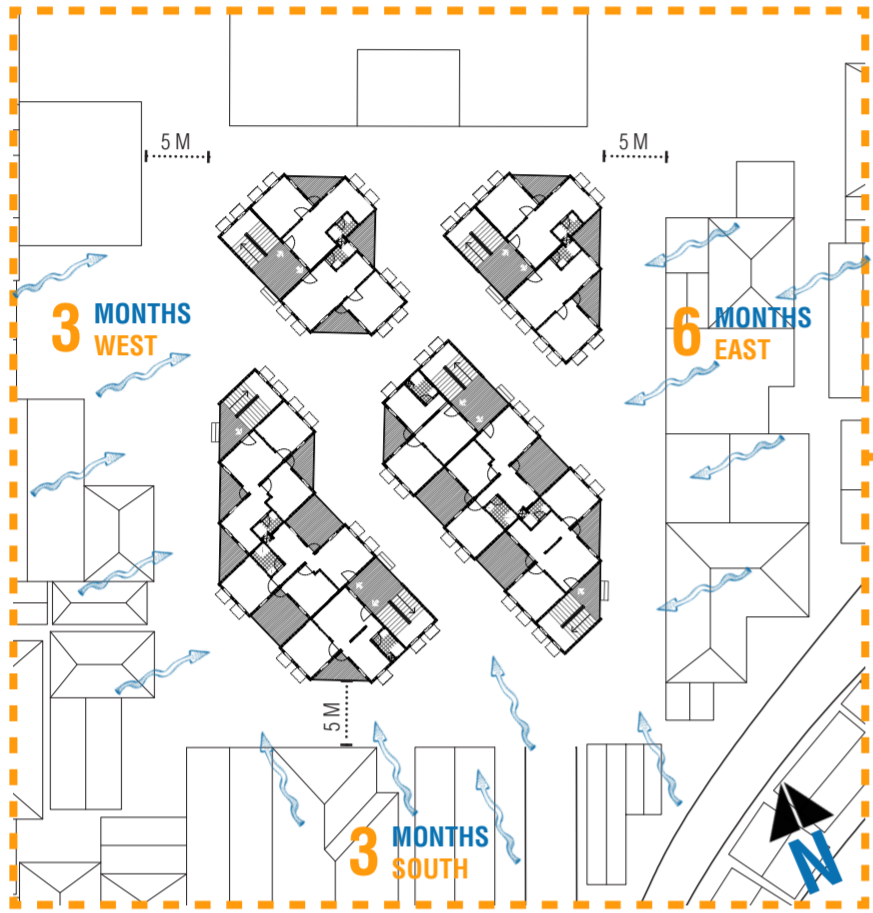
LANDSCAPE BARRIER

The Vehicular traffic is restricted to the outer edge by creating a landscape barrier and creating public zones

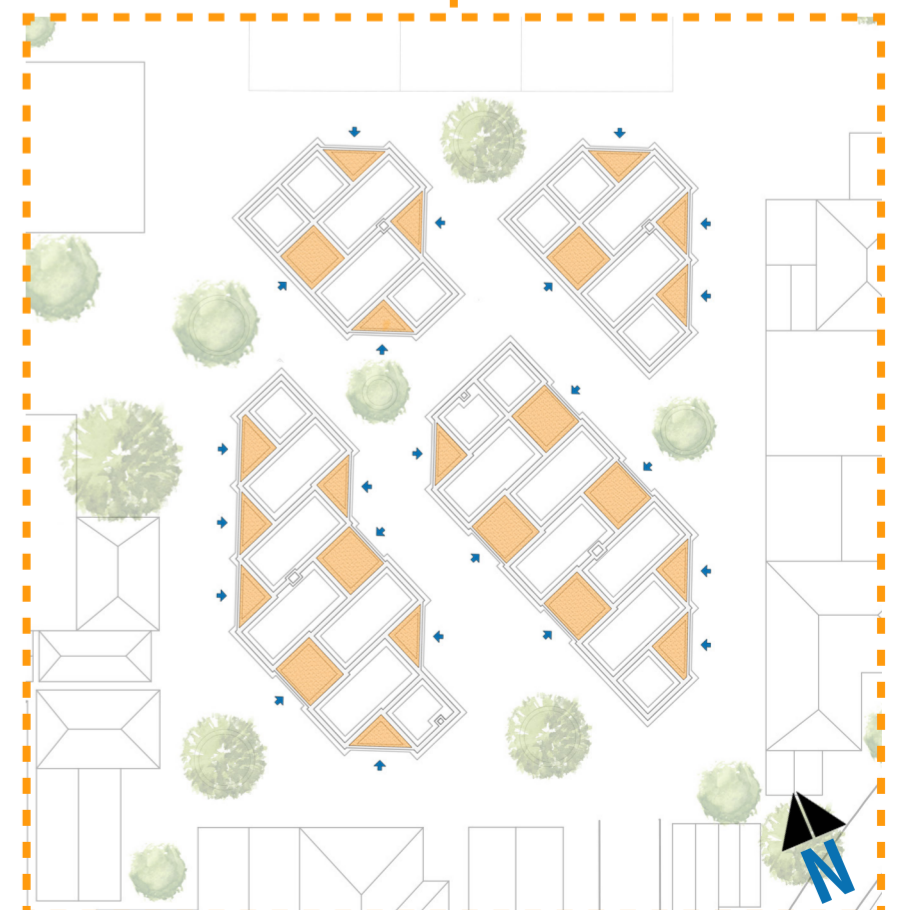
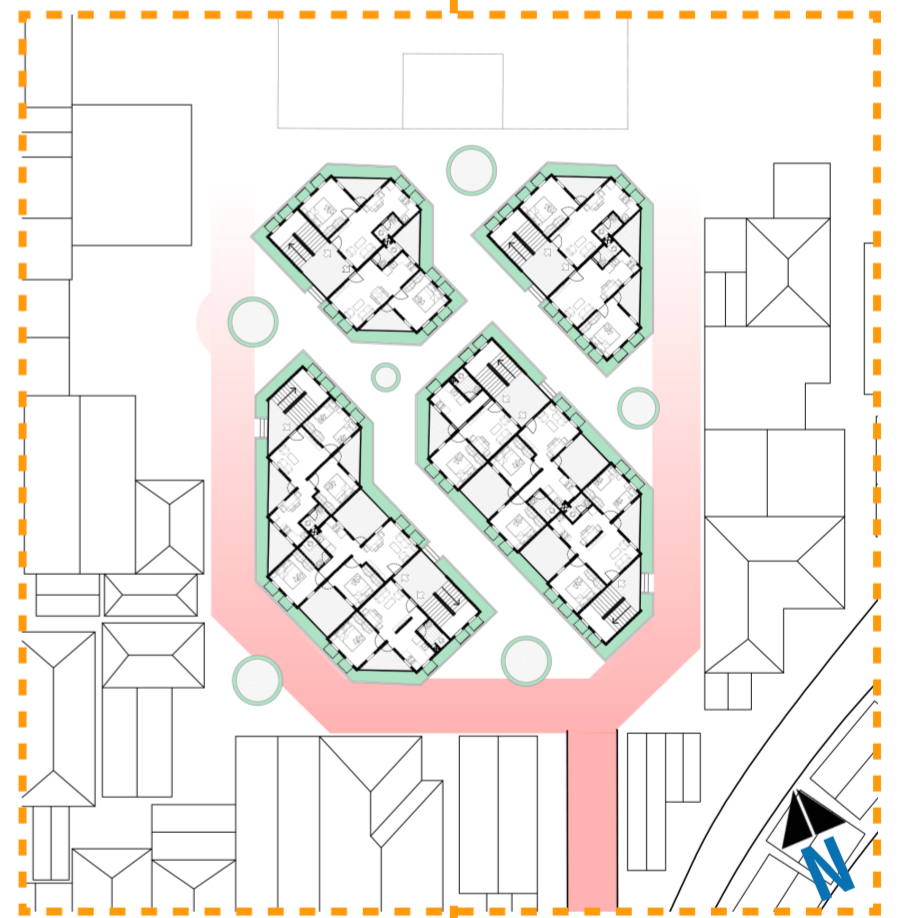


FLOOD PROTECTION

Permeable paver blocks used and deep water percolation pits below each balcony to enhance rain-water seepage

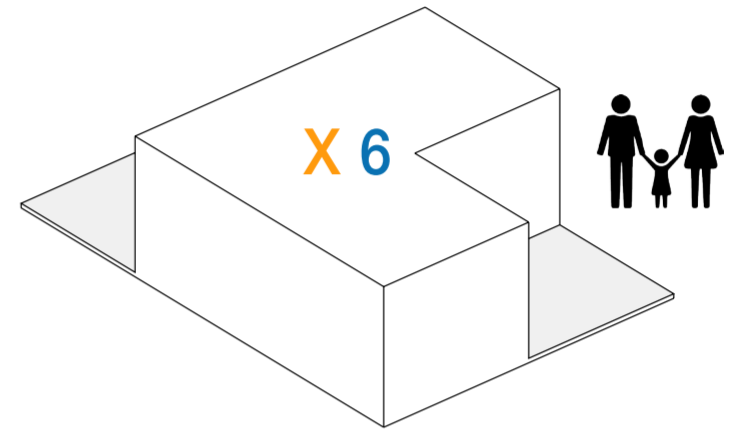
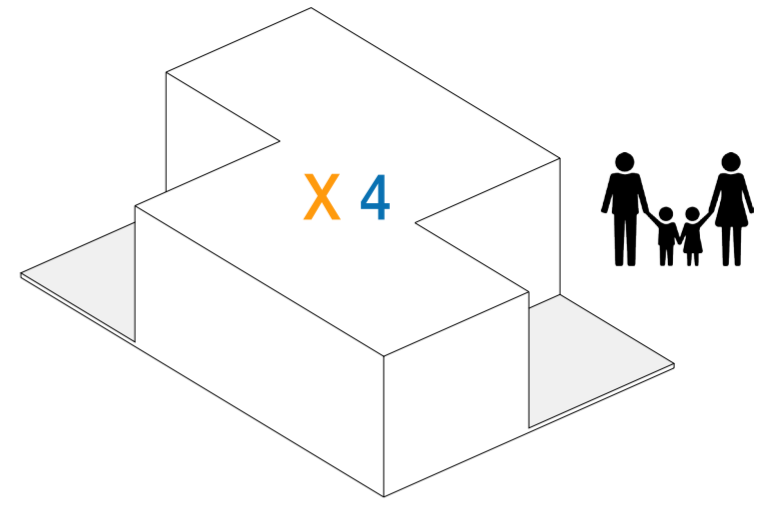
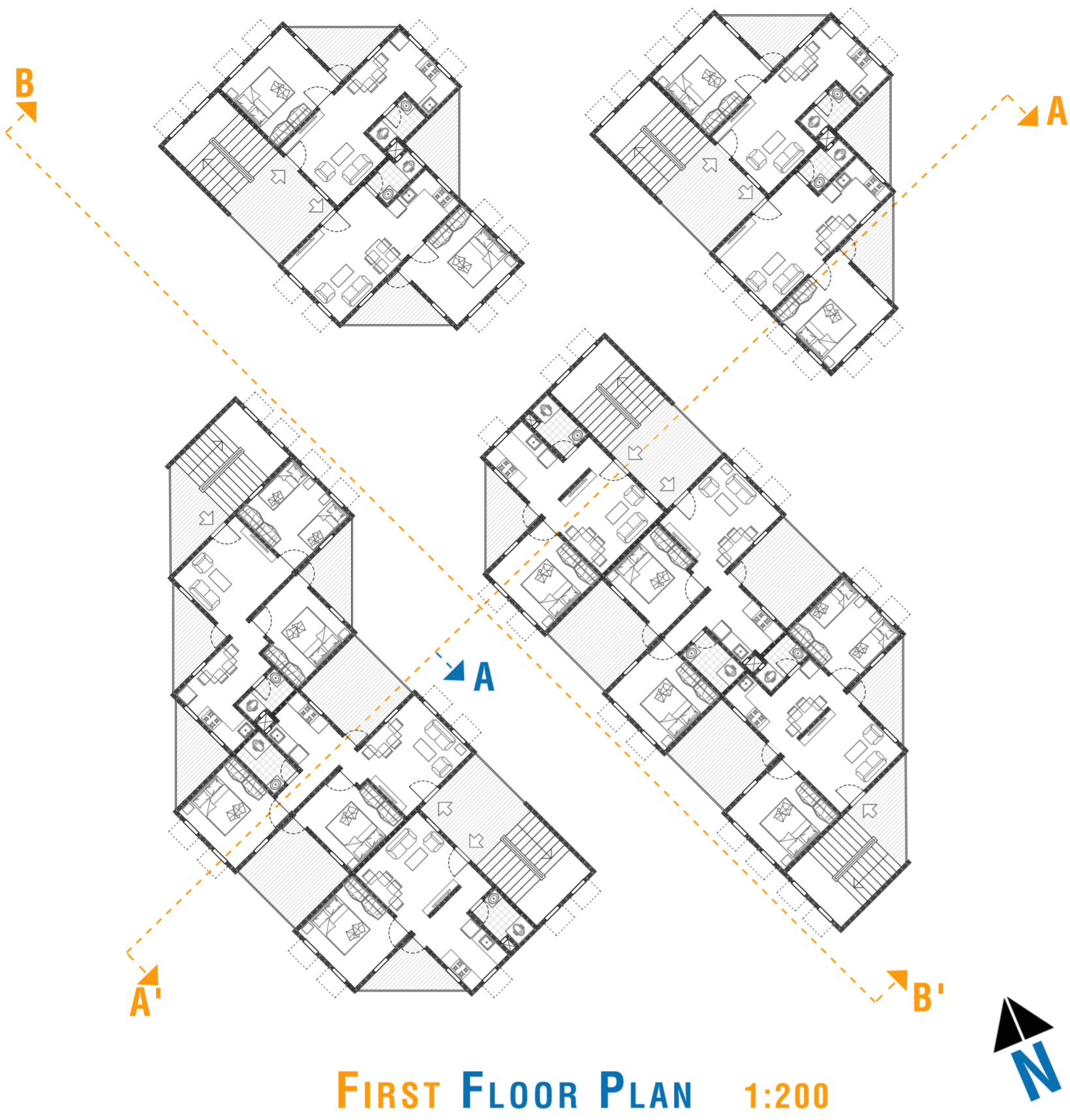


GROUND FLOOR PLAN 1:200

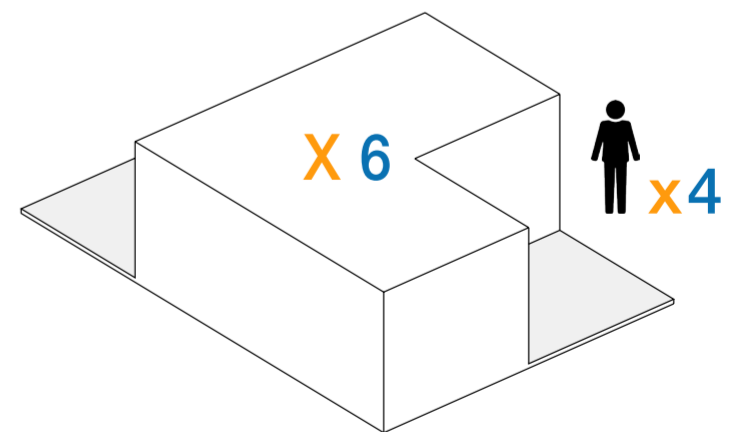
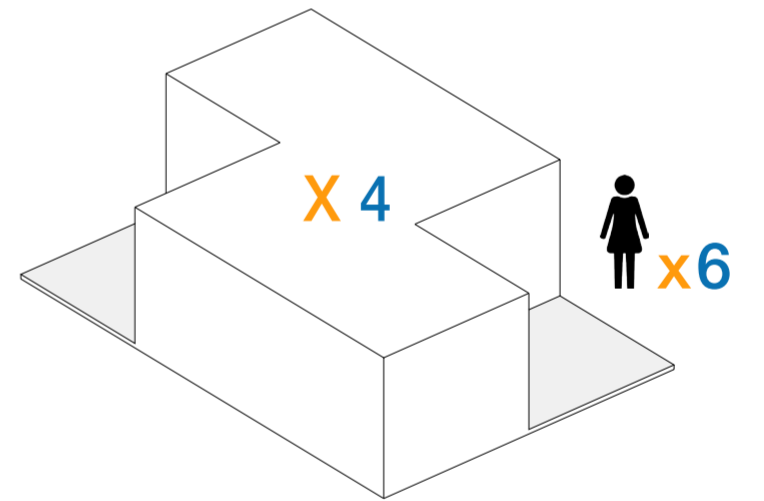
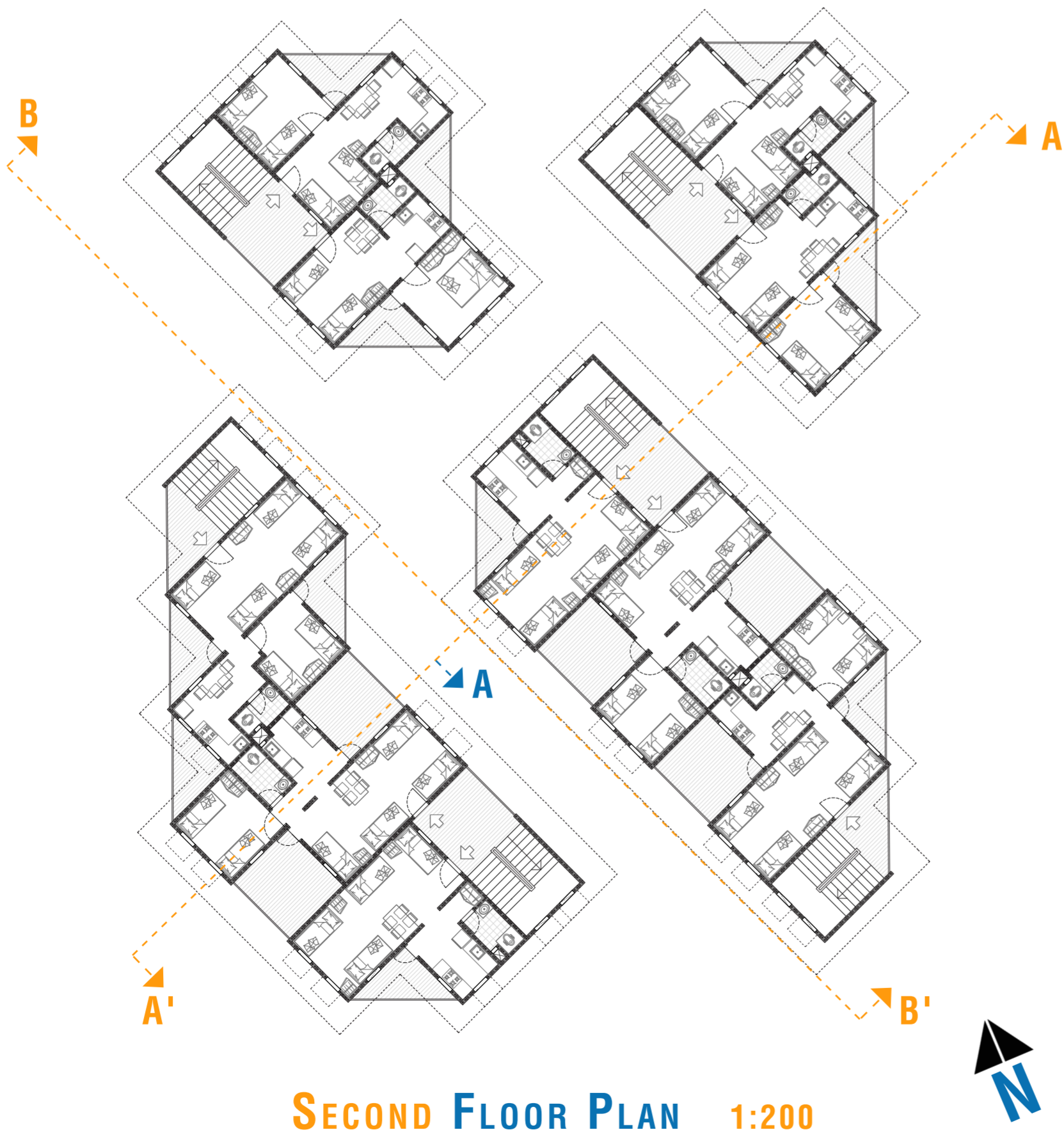


FOUNDATION PLAN 1:500

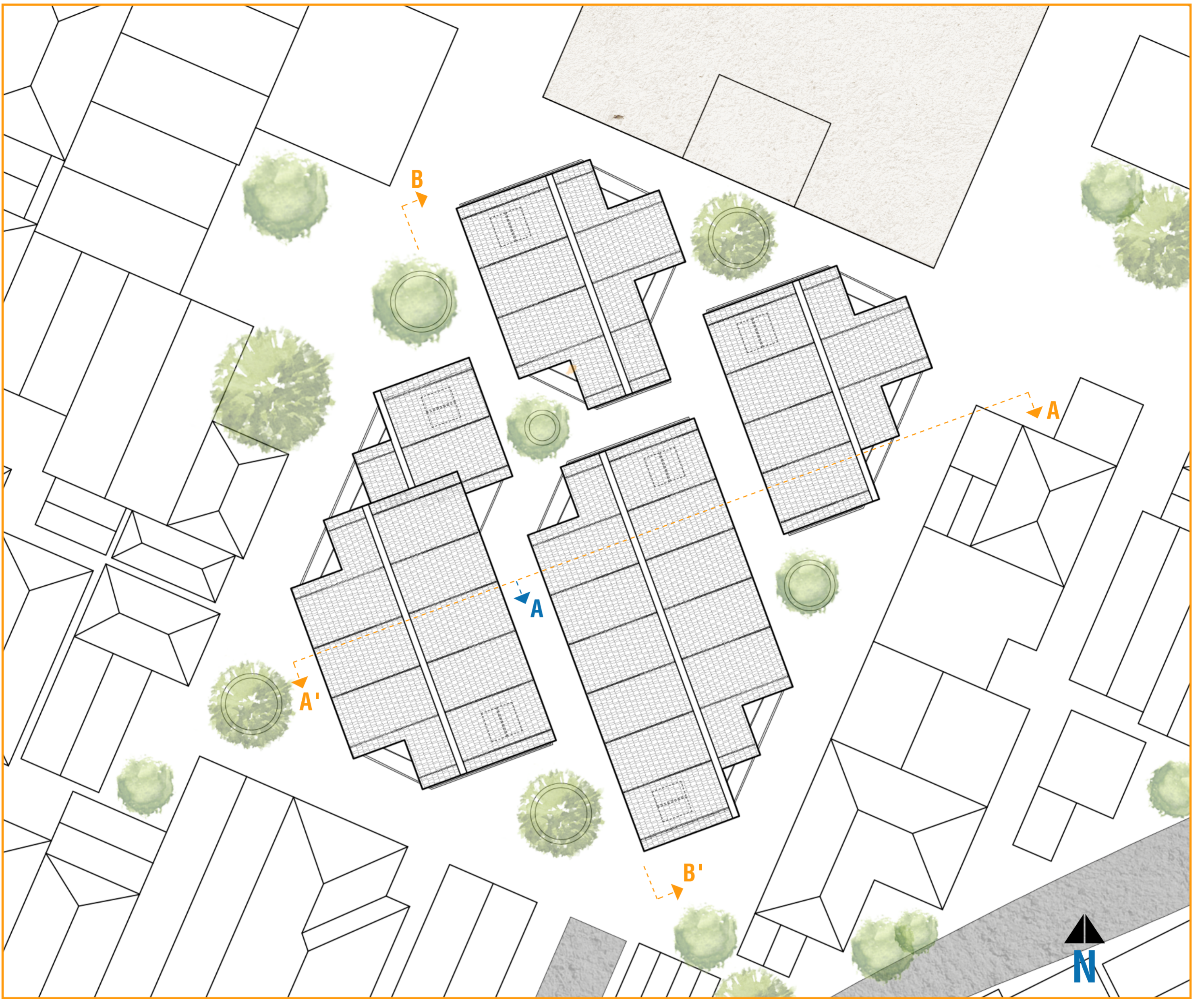
FLOOR PLANS



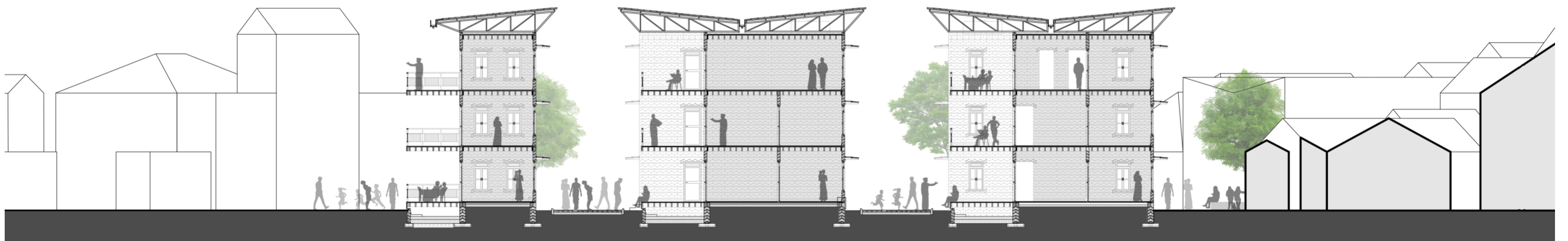
FAMILY HOUSING
30 PPL X 2 FLOORS
TOTAL = 60 PEOPLE



WORKER HOUSING
TOTAL = 48 PEOPLE



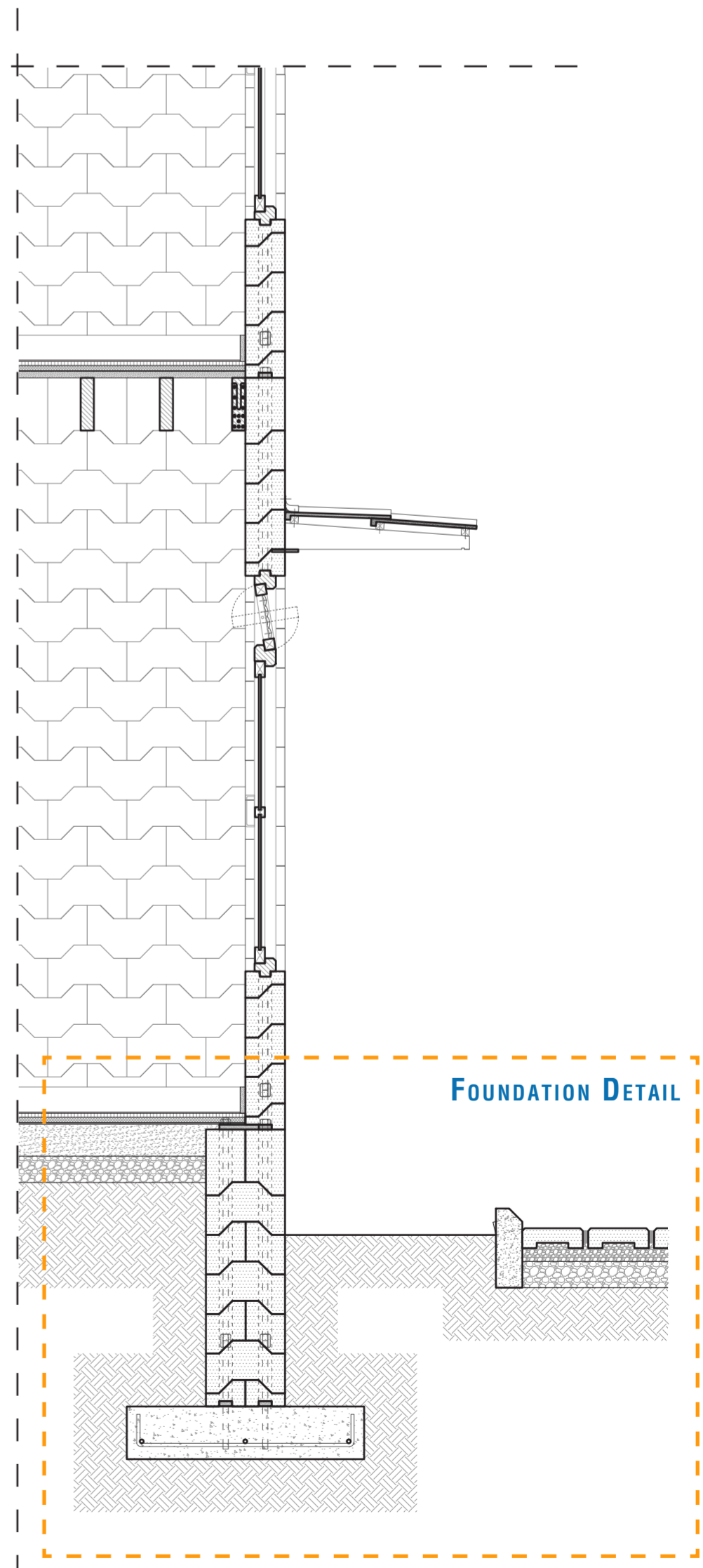
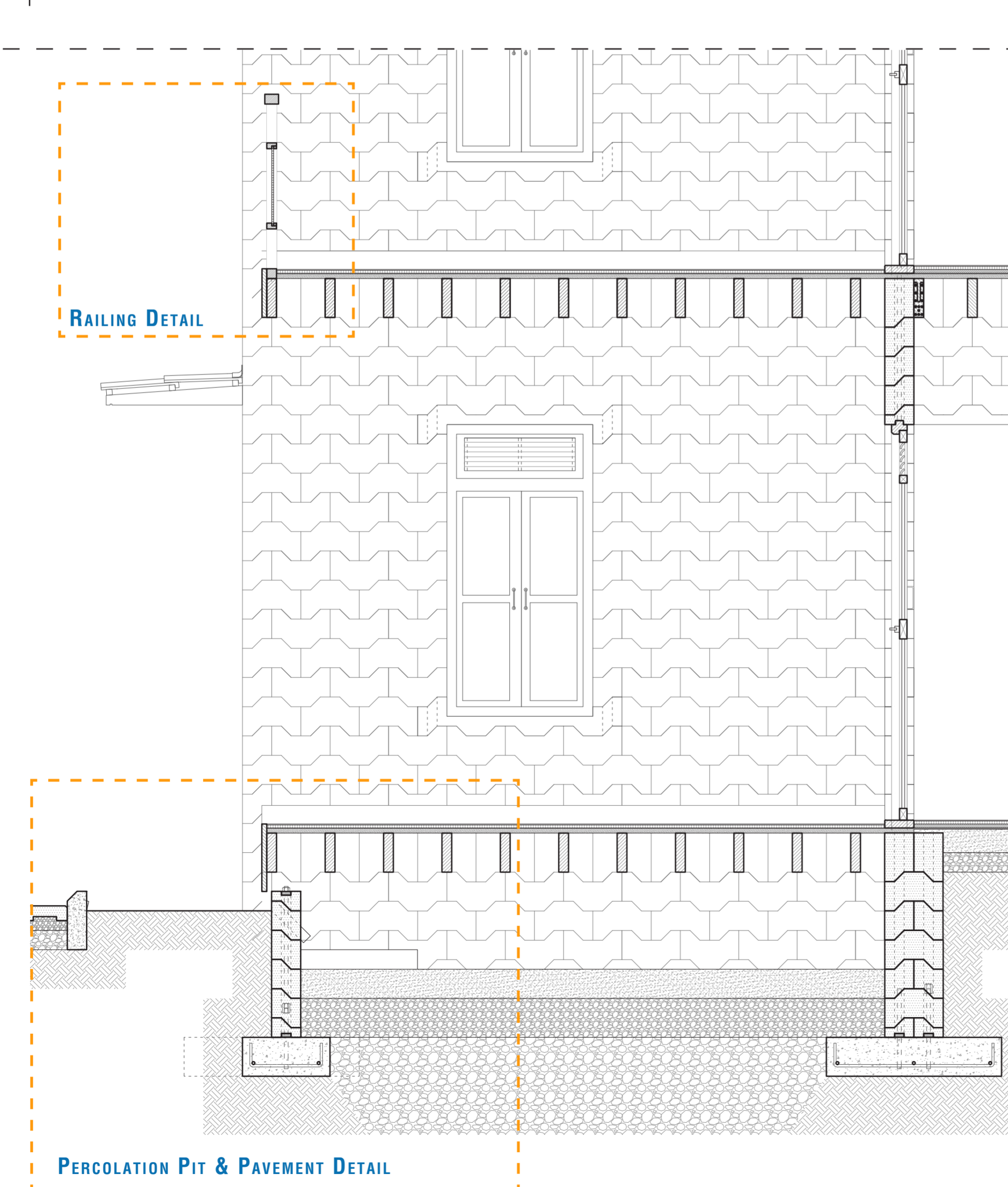
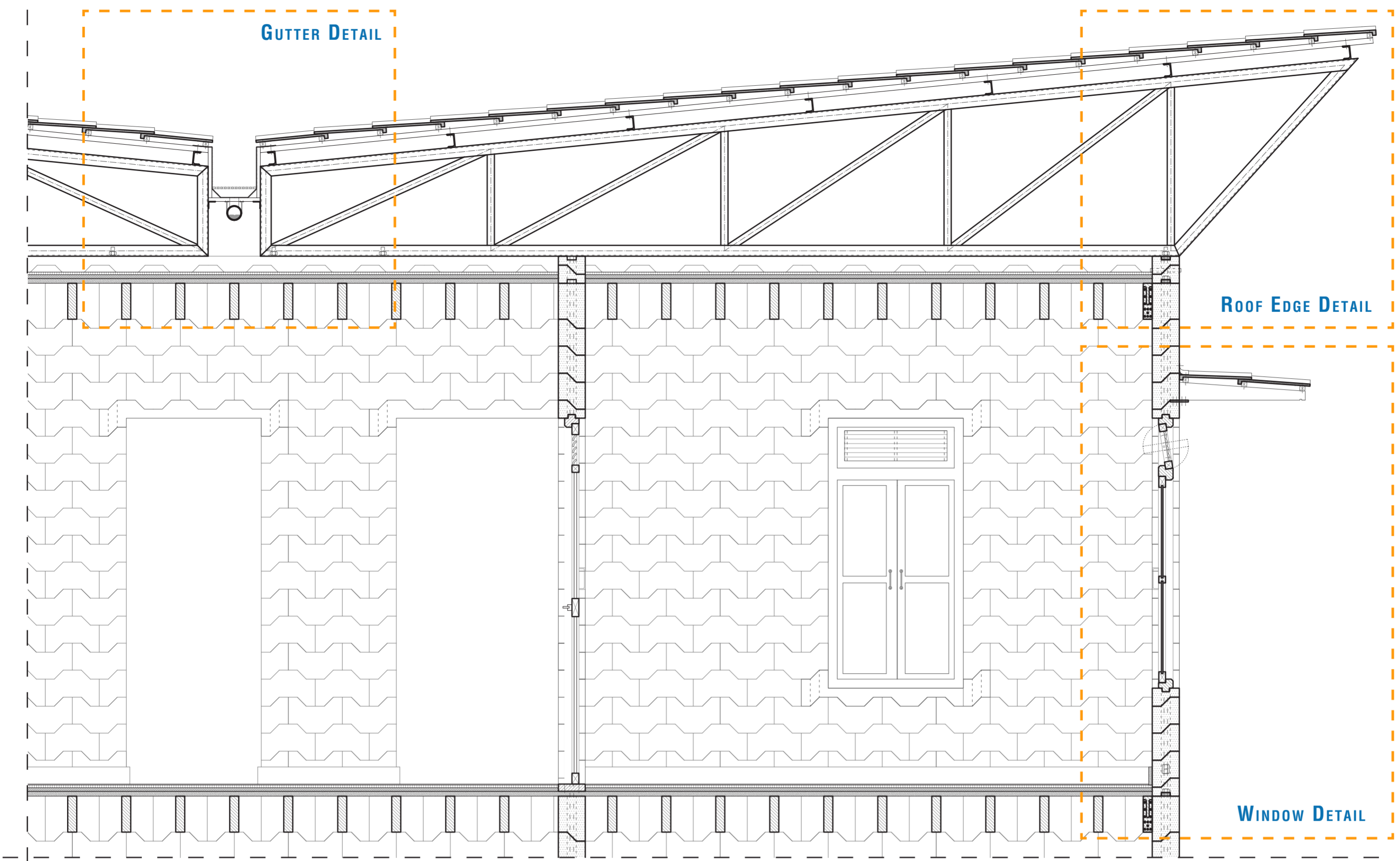
ROOF PLAN 1:200



SECTION - AA' 1:200



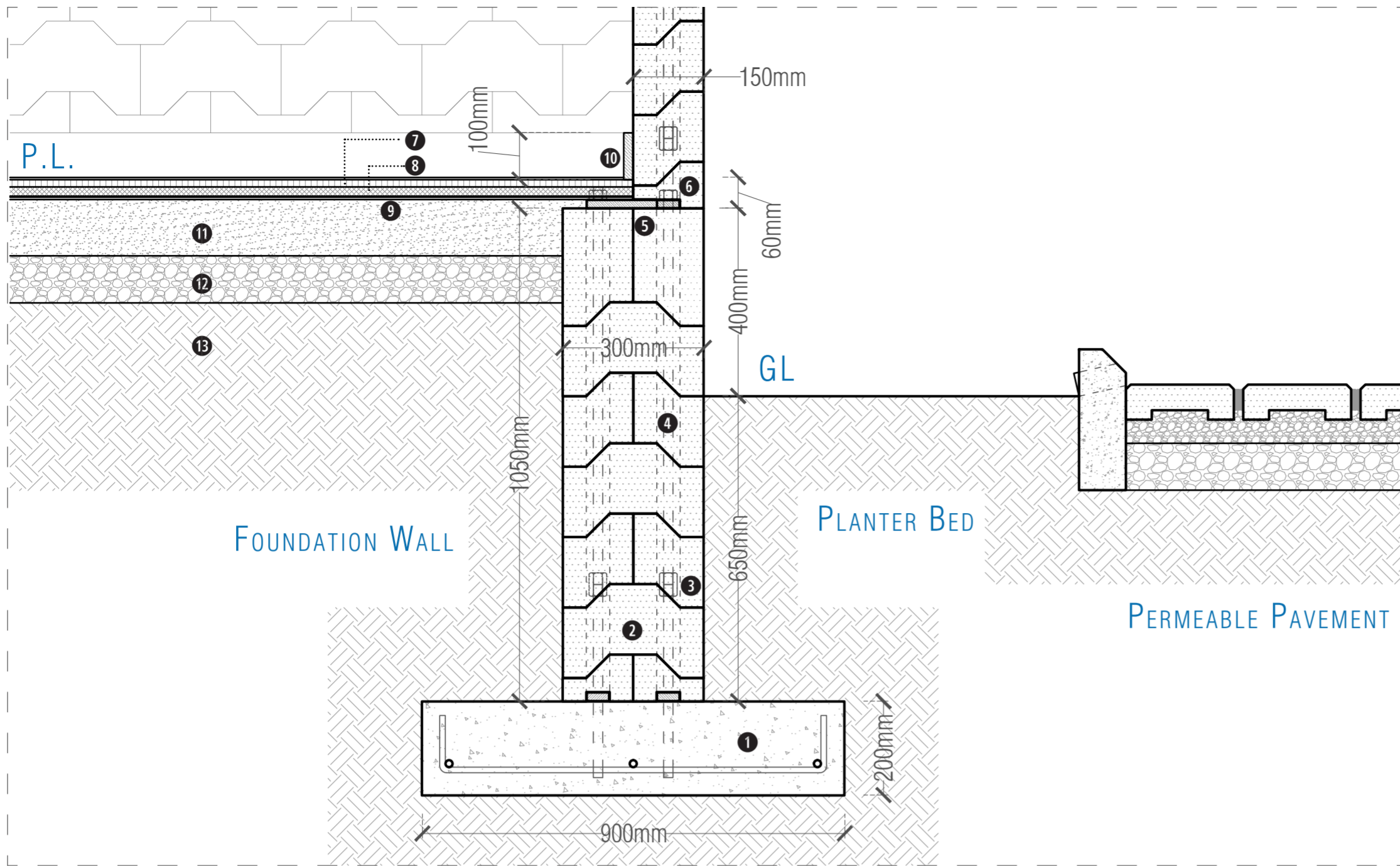
SECTION - BB' 1:200



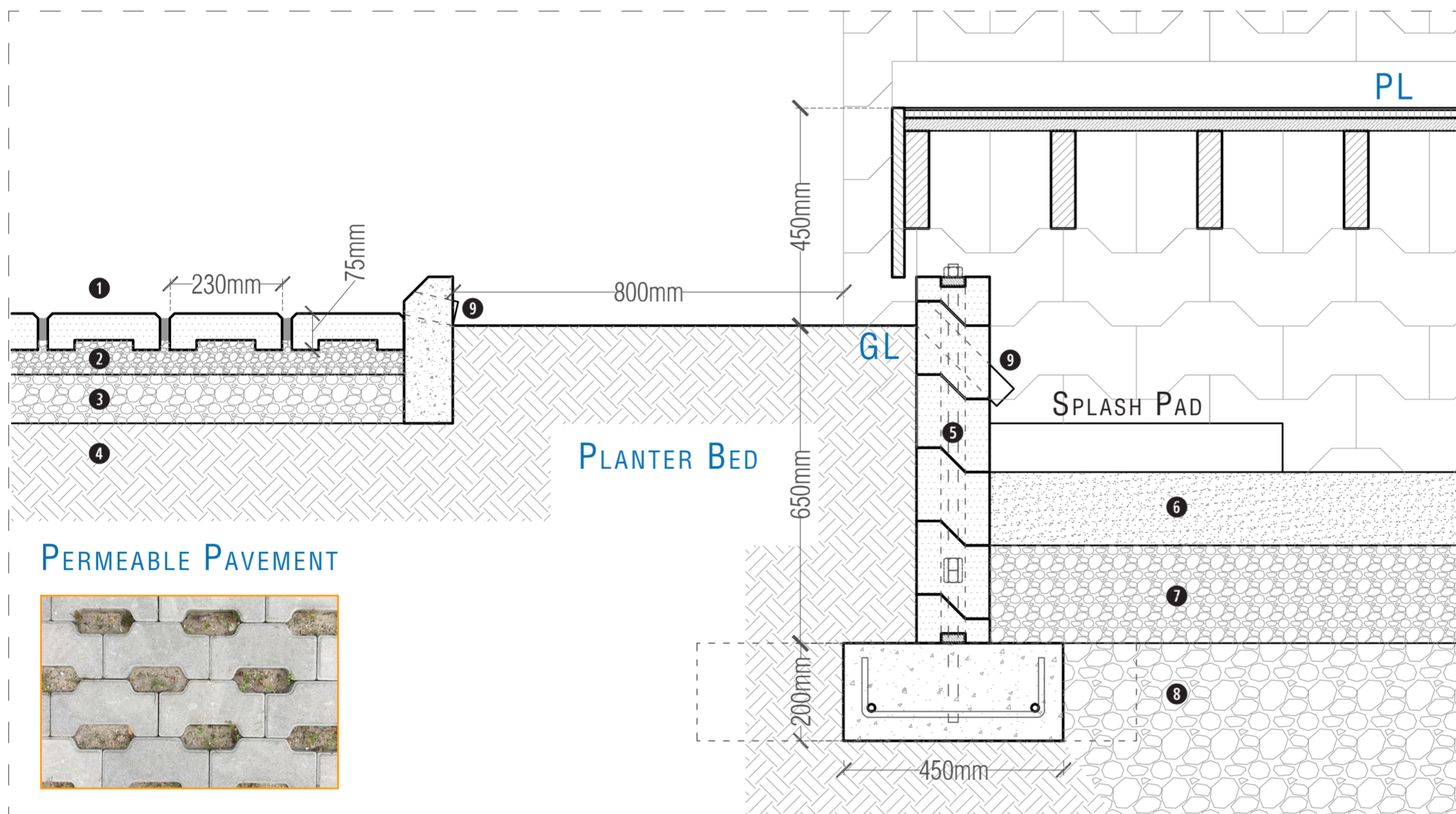
DETAIL SECTION - AA' 1:20

DETAILS 1: 10

FOUNDATION DETAIL

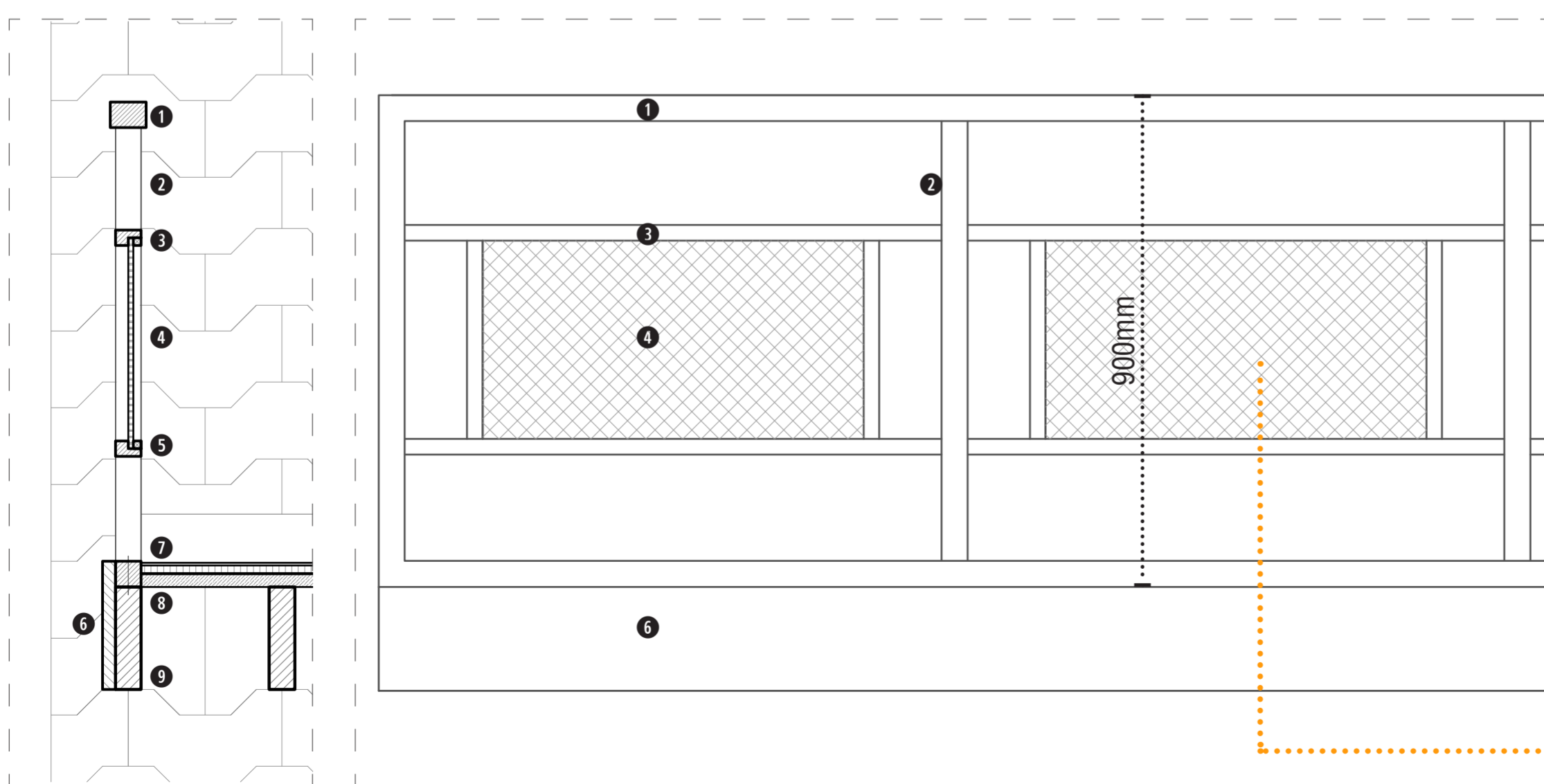


- ① R.C.C. Foundation Pad
- ② 300mm thk PolyBlock Foundation Wall
- ③ S.S. Extension Nut
- ④ M20 Threaded Rod x 950mm
- ⑤ S.S. Plate 200mm x 20mm
- ⑥ M20 S.S. Nut
- ⑦ 15mm Flattened Bamboo Flooring
- ⑧ 20mm Recycled Felt Sound Proofing
- ⑨ Water Proofing Membrane
- ⑩ 25thk Bamboo Side Board
- ⑪ P.C.C. Floor
- ⑫ Coarse Gravel
- ⑬ Rammed Earth



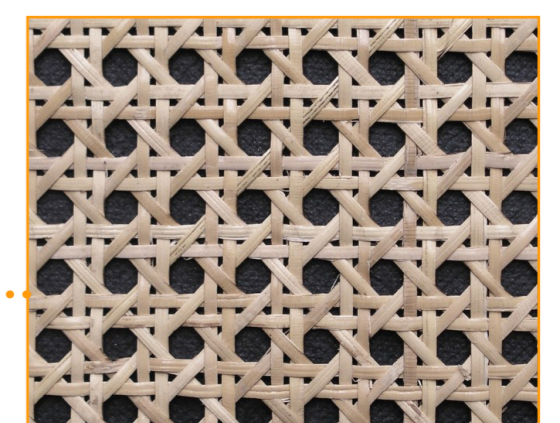
PERCOLATION PIT & PAVEMENT DETAIL

- ① Poly-Block Permeable Paver
- ② Crushed Brick 6-9mm x 50mm thk
- ③ Gravel 20-25mm x 100mm thk
- ④ Rammed Earth
- ⑤ 150mm thk PolyBlock Wall
- ⑥ Coarse Sand 150mm thk
- ⑦ Crushed Brick 6-9mm x 150mm thk
- ⑧ Gravel 20-25mm x 250mm thk
- ⑨ Drain Pipe



RAILING DETAIL

- ① Wooden Handrail 70mm x 50mm
- ② Wooden Ballusters 50mm x 50mm
- ③ Wooden Mid Rail 50mm x 30mm
- ④ Woven Bamboo Mat
- ⑤ Wooden Cleat
- ⑥ 25mm thk Facia Board
- ⑦ 15mm Flattened Bamboo Flooring
- ⑧ 25mm thk Plywood Subfloor
- ⑨ 50mm x 200mm Joist @300 c/c

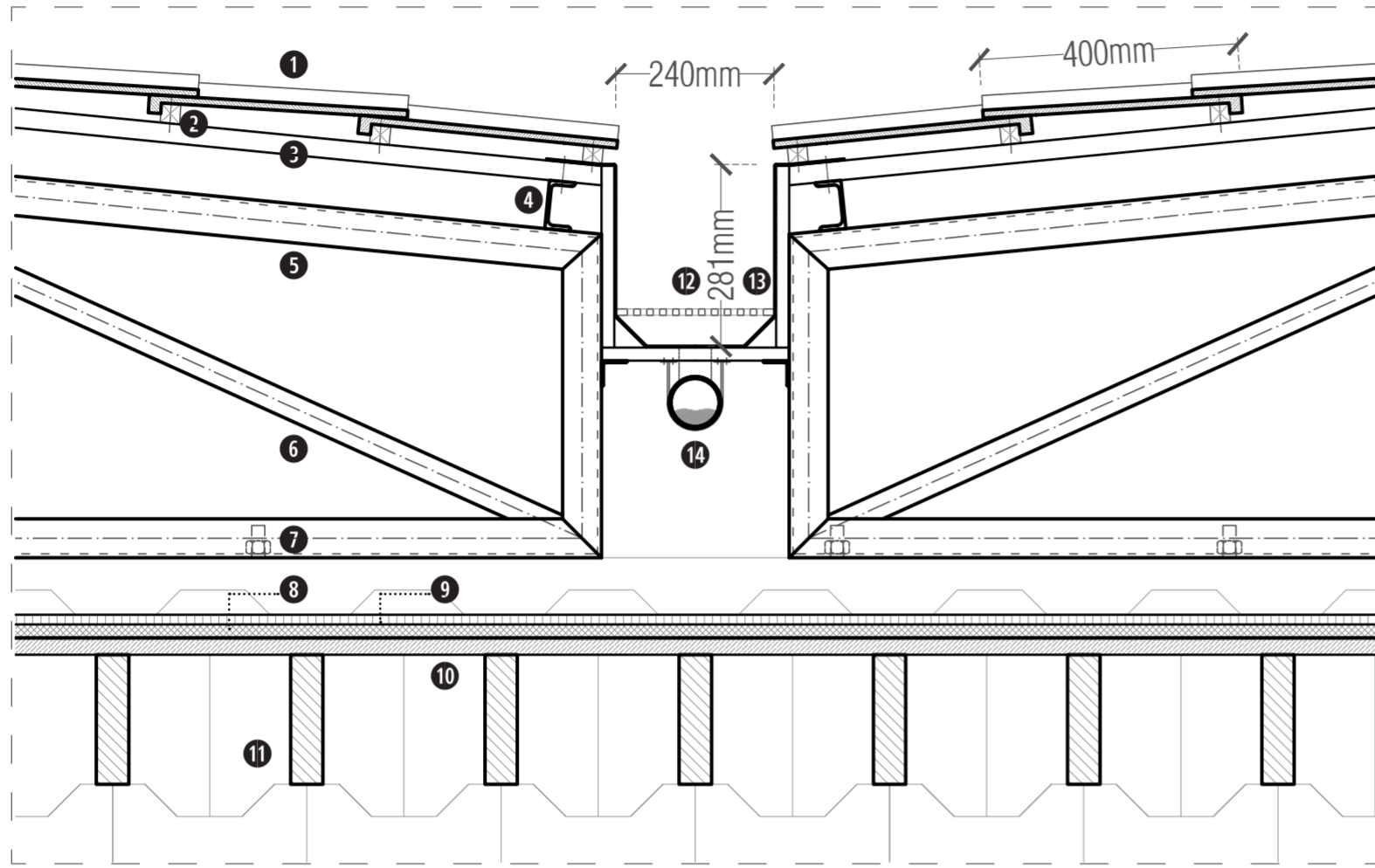


SECTION

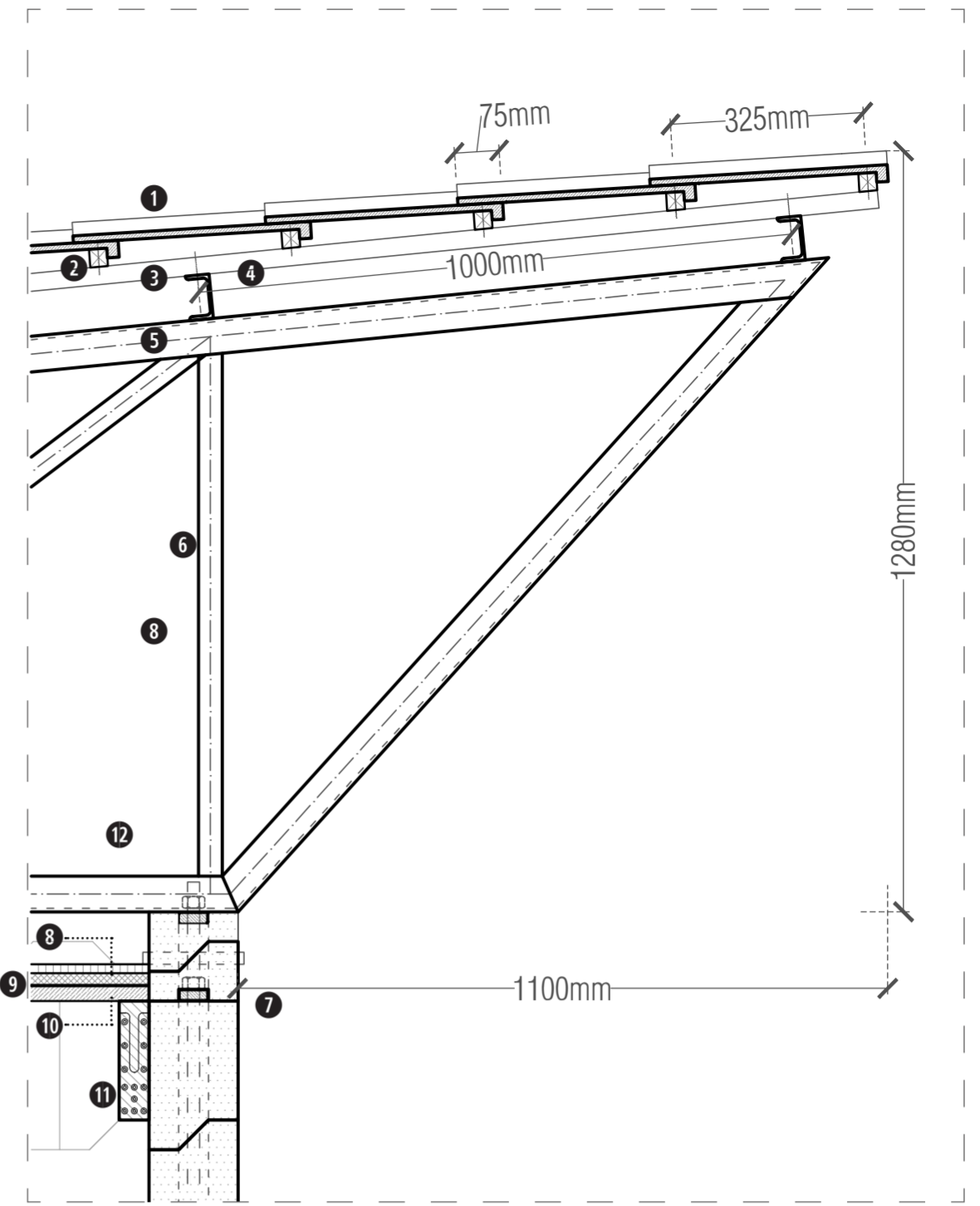
ELEVATION

ROOFING DETAIL

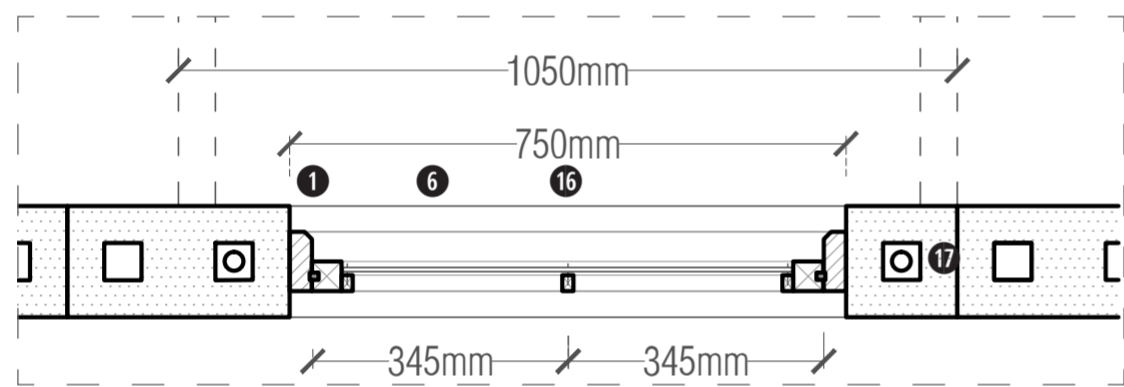
- ① Poly-Block Roof Tiles
- ② 30mm x 30mm Battens @ 325mm c/c
- ③ 30mm x 30mm Runner @ 300mm c/c
- ④ Steel Purlin 40mm x 75mm @ 1000mm c/c
- ⑤ Steel L-Angle Truss 60mm x 60mm @ 3600mm c/c
- ⑥ Steel L-Angle Web Bracing 40mm x 40mm
- ⑦ M20 S.S. Nut
- ⑧ 20mm Recycled Felt Sound Proofing
- ⑨ Water Proofing Membrane
- ⑩ 25mm thk Plywood Subfloor
- ⑪ 50mm x 200mm Floor Joists @ 300 c/c
- ⑫ 240 mm x 340mm Gutter
- ⑬ Aluminum Flashing
- ⑭ 80 mm PVC Drain Pipe



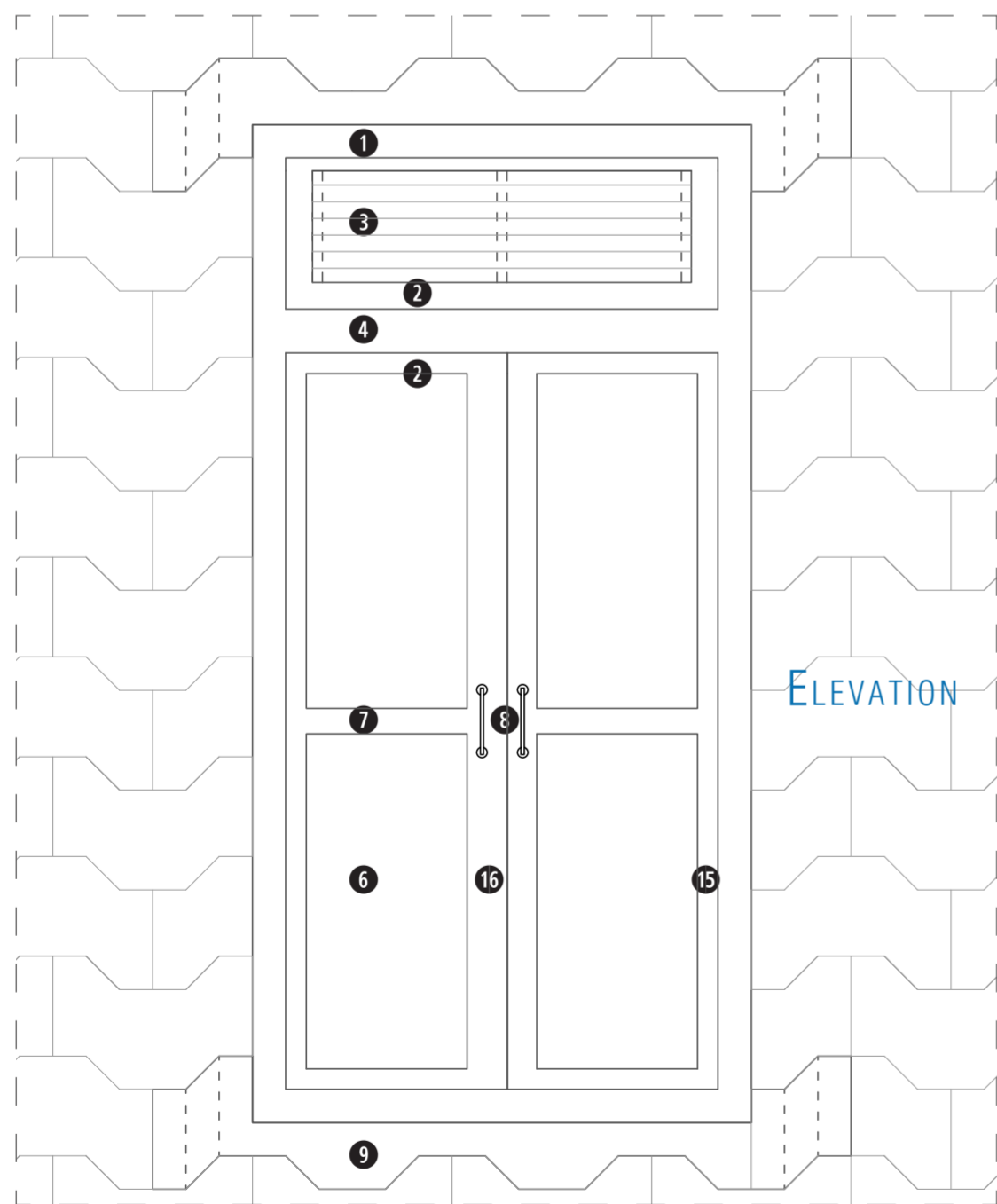
GUTTER DETAIL



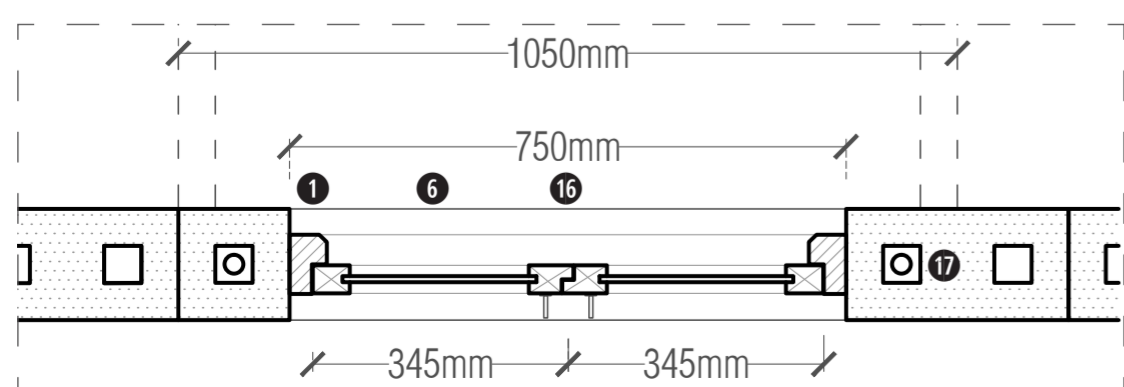
ROOF EDGE DETAIL



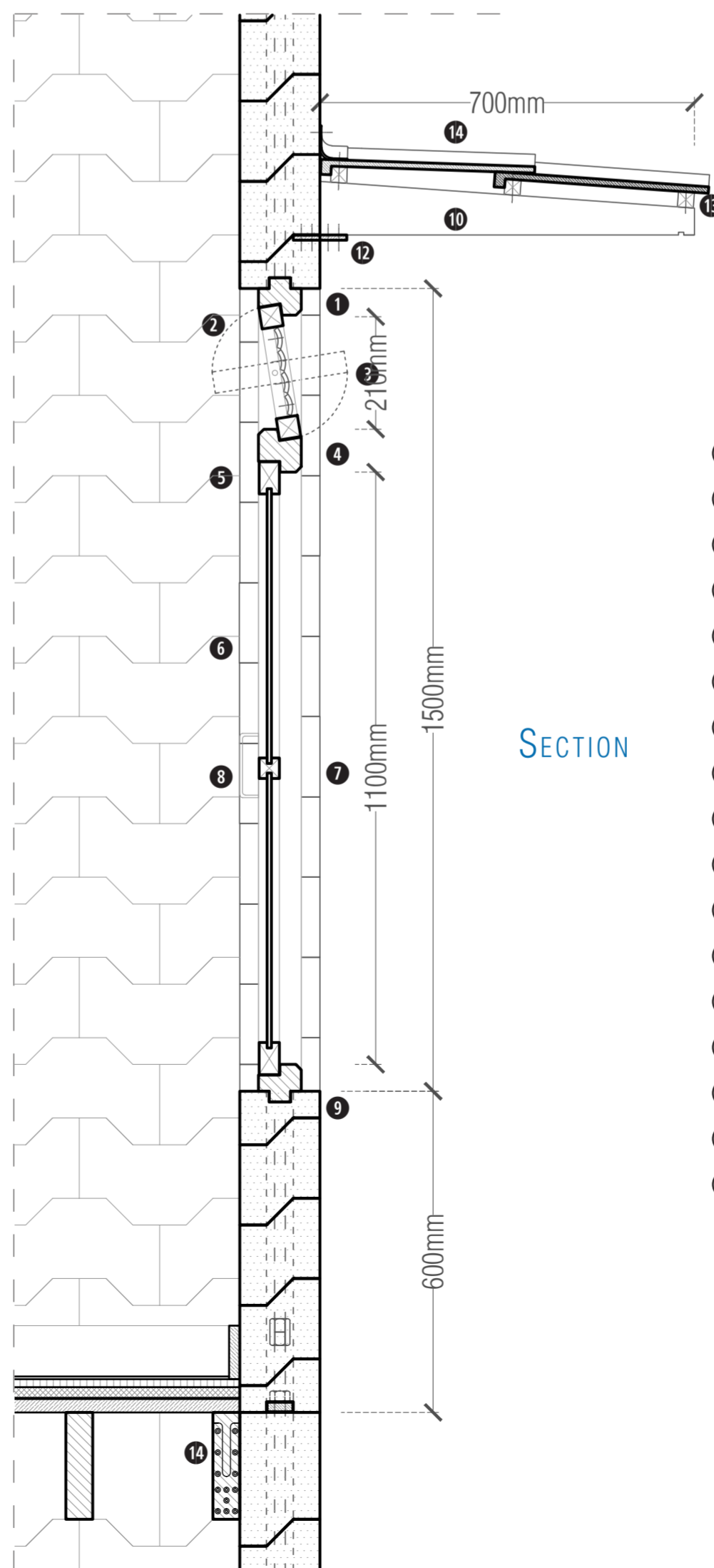
VENTILATOR PLAN



ELEVATION



WINDOW PLAN

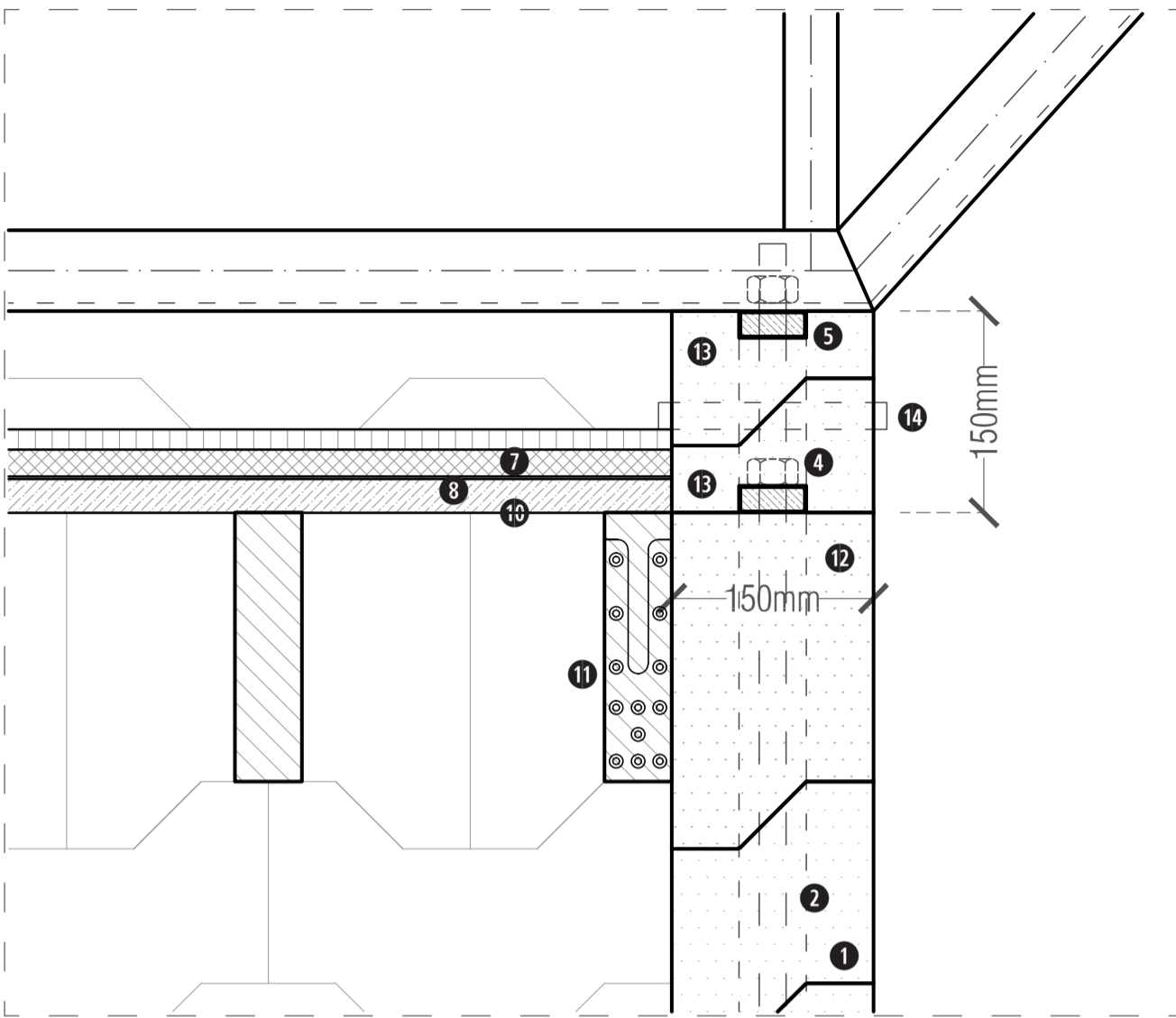


SECTION

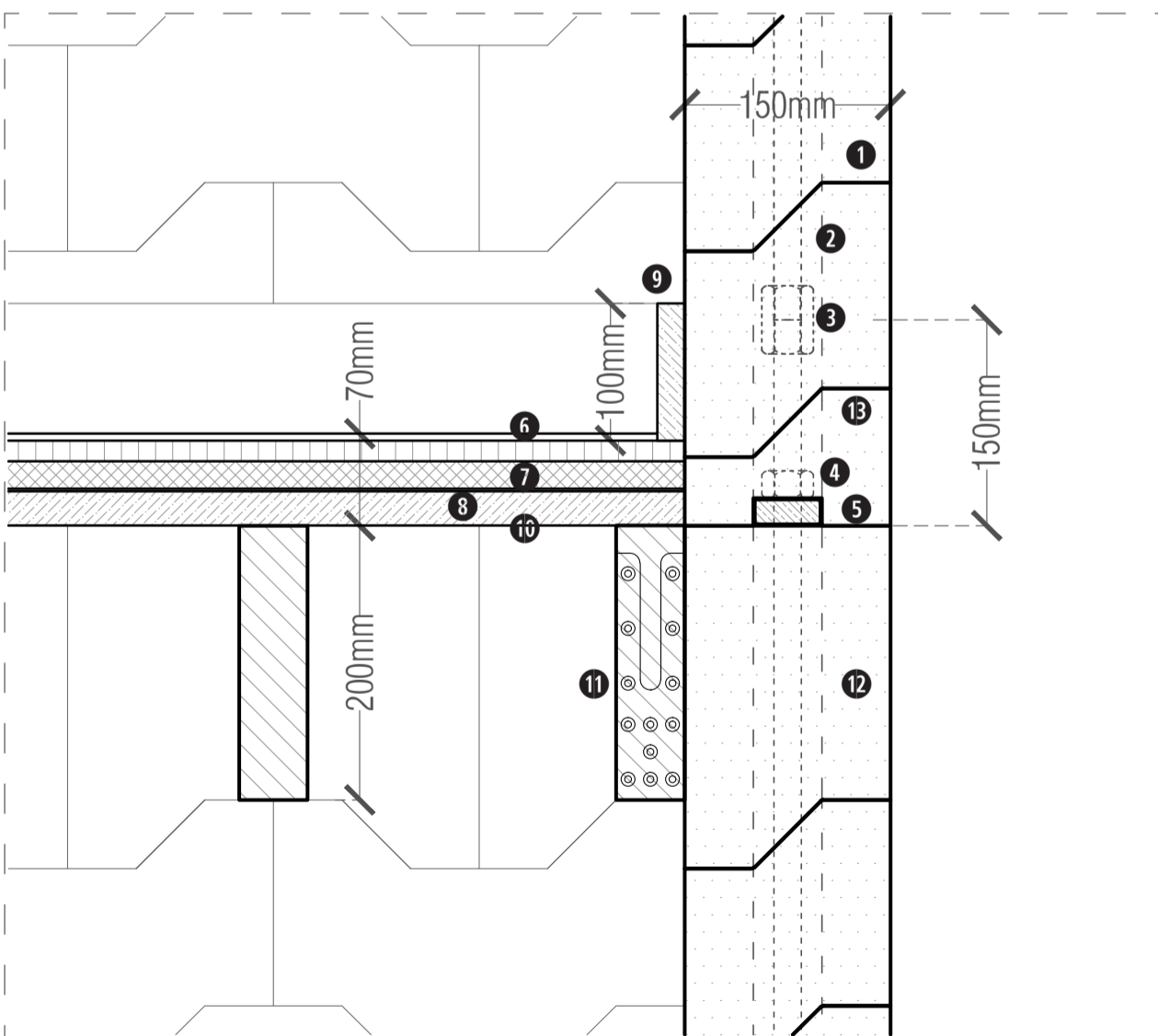
WINDOW DETAIL

- ① Wooden Jamb 80mm x 50mm
- ② Ventilation Window Frame 40mm x 40mm
- ③ Horizontal Bamboo Slats
- ④ Window Mid Jamb 80mm x 80mm
- ⑤ Top Rail 40mm x 60mm
- ⑥ 8mm Single Glazing
- ⑦ Mid Rail 40mm x 40mm
- ⑧ S.S. Window Handle
- ⑨ 750 mm Wide Sill & Lintel Block
- ⑩ 700mm x 100 mm Wooden Support
- ⑪ 100 mm x 20 mm S.S. Plate
- ⑫ 30mm x 30mm Battens @ 325mm c/c
- ⑬ Poly-Block Roof Tiles
- ⑭ 50mm x 200mm Floor Joists @ 300 c/c
- ⑮ Stile 40mm x 60mm
- ⑯ Muntin 60mm x 40mm
- ⑰ M20 Threaded Rod x 950mm

DETAILS 1: 5



END WALL DETAIL



FLOOR JUNCTION DETAIL

- ① 150mm thk PolyBlock Wall
- ② M20 Threaded Rod x 950mm
- ③ S.S. Extension Nut
- ④ M20 S.S. Nut
- ⑤ S.S. Plate 200mm x 20mm
- ⑥ 15mm Flattened Bamboo Flooring
- ⑦ 20mm Recycled Felt Sound Proofing
- ⑧ Water Proofing Membrane
- ⑨ 25mm thk Bamboo Side Board
- ⑩ Plywood Subfloor
- ⑪ 50mm x 200mm Floor Joists @300 c/c
- ⑫ End Wall Poly-Block
- ⑬ I-Plate Base Poly Block
- ⑭ 25mm Drain Pipe