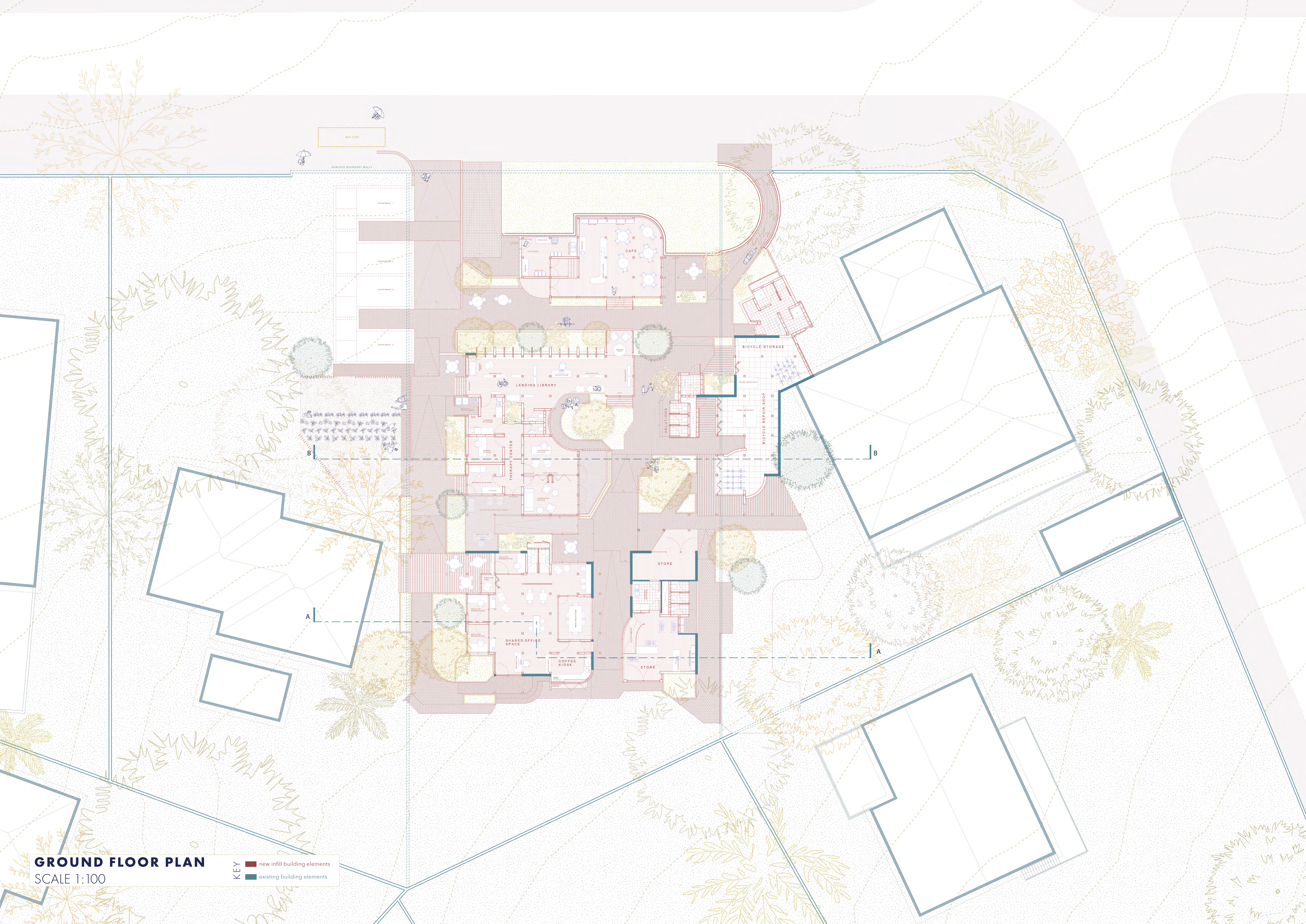


Technical Development

RE-IMAGINING THE DENSIFICATION OF SUBURBIA

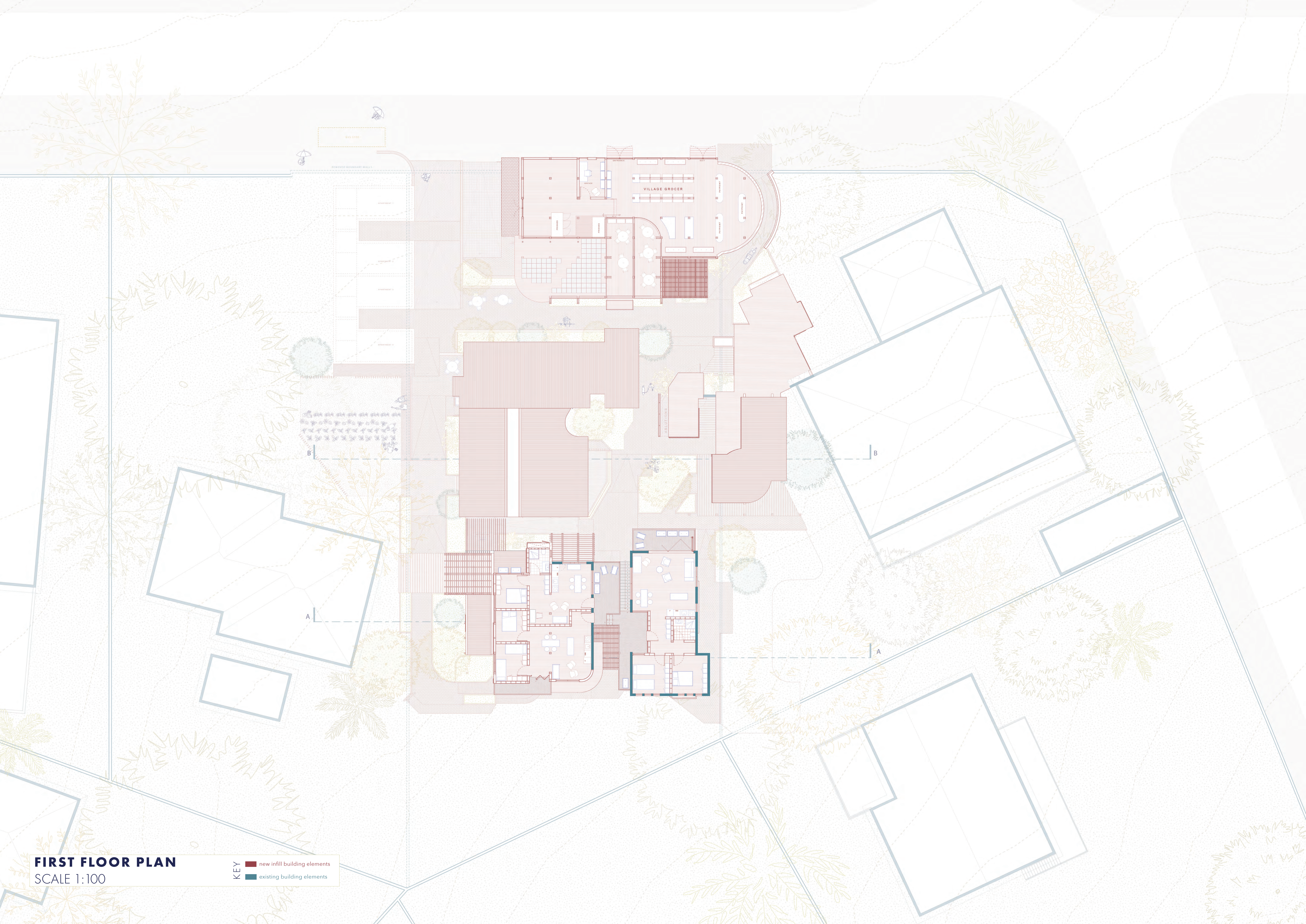
GROUND FLOOR PLAN
SCALE 1:100

KEY
■ new infill building elements
■ existing building elements



FIRST FLOOR PLAN
SCALE 1:100

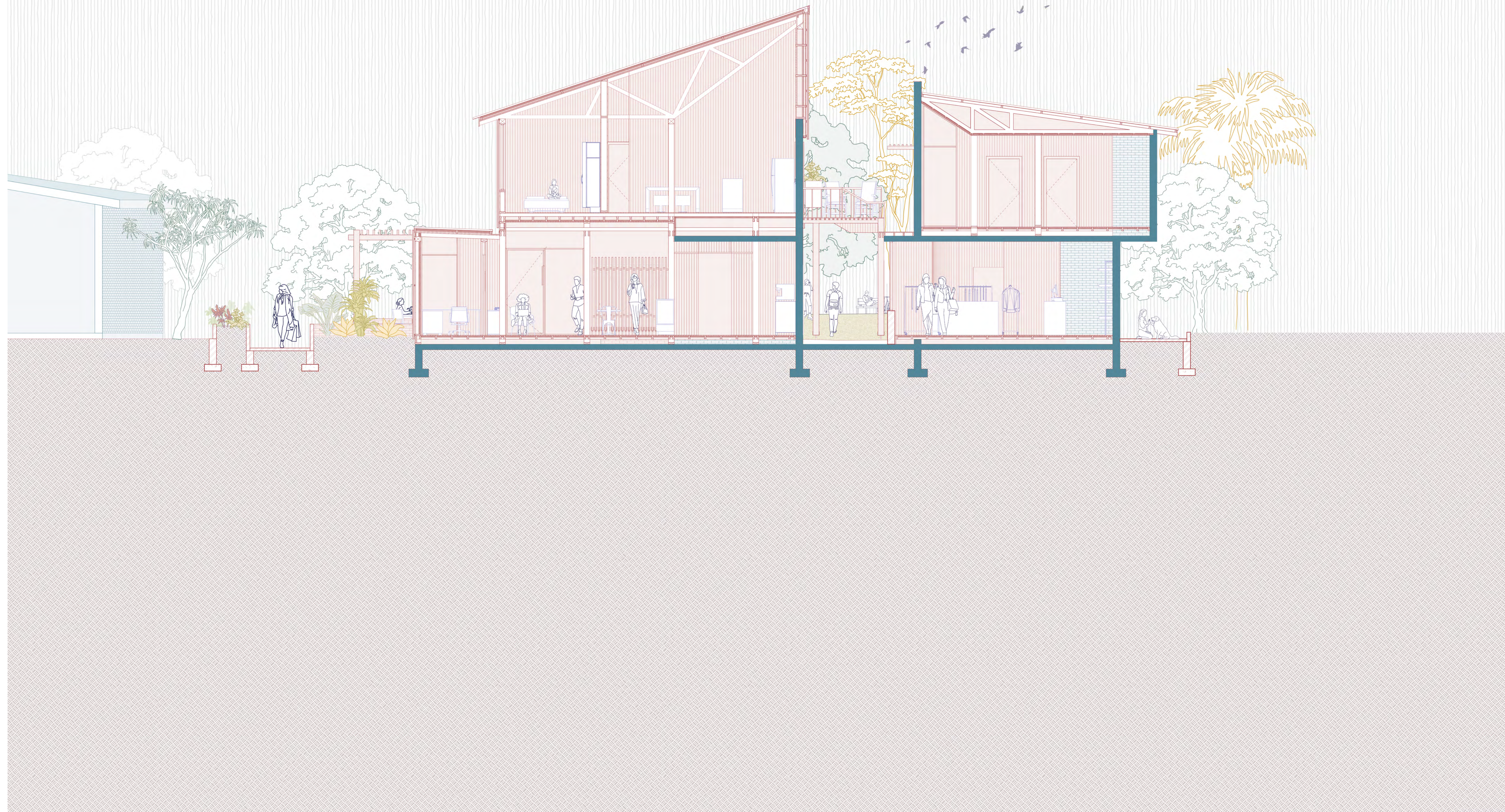
KEY
■ new infill building elements
■ existing building elements

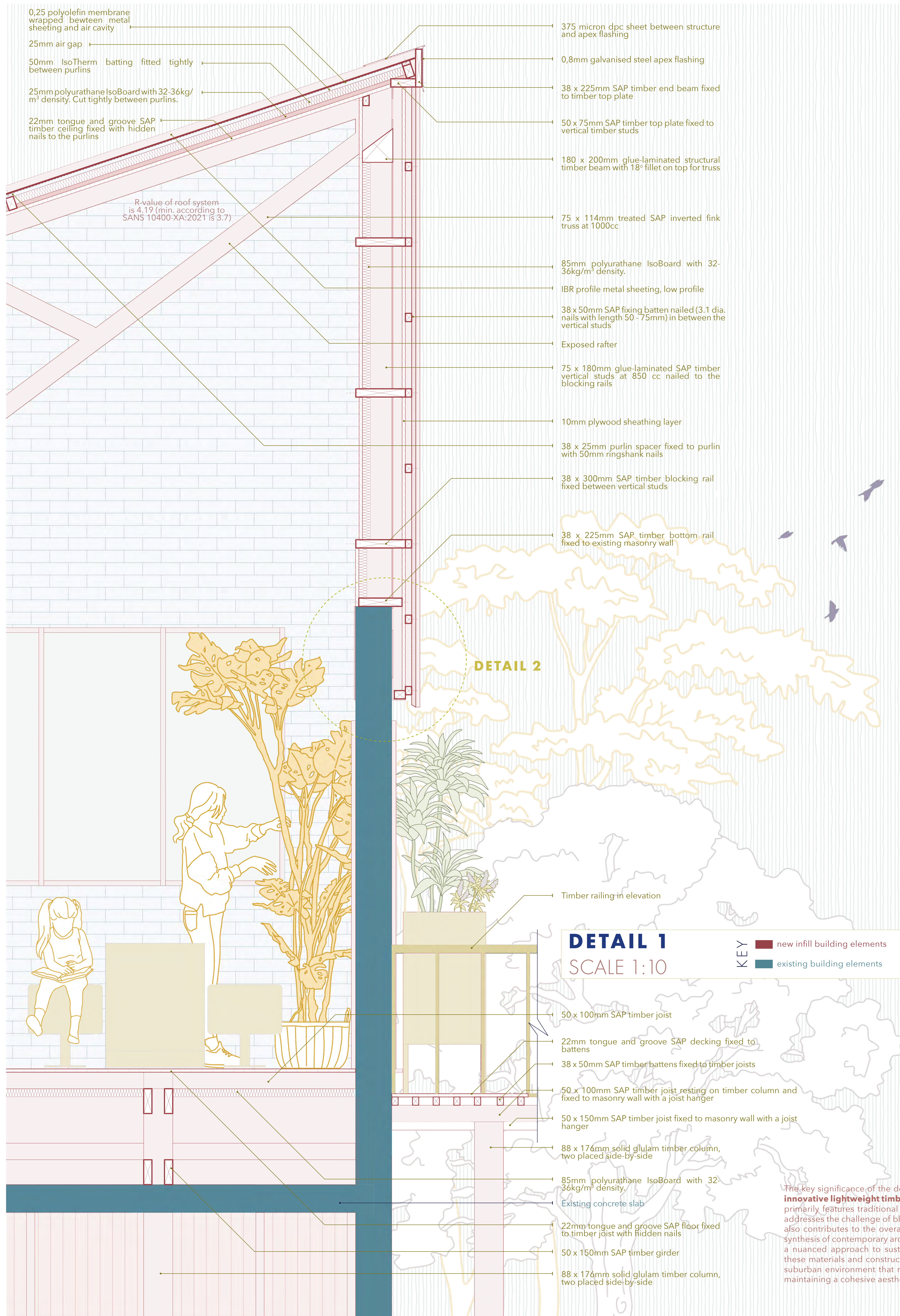


SECTION A-A

SCALE 1:50

KEY ■ new infill building elements
■ existing building elements

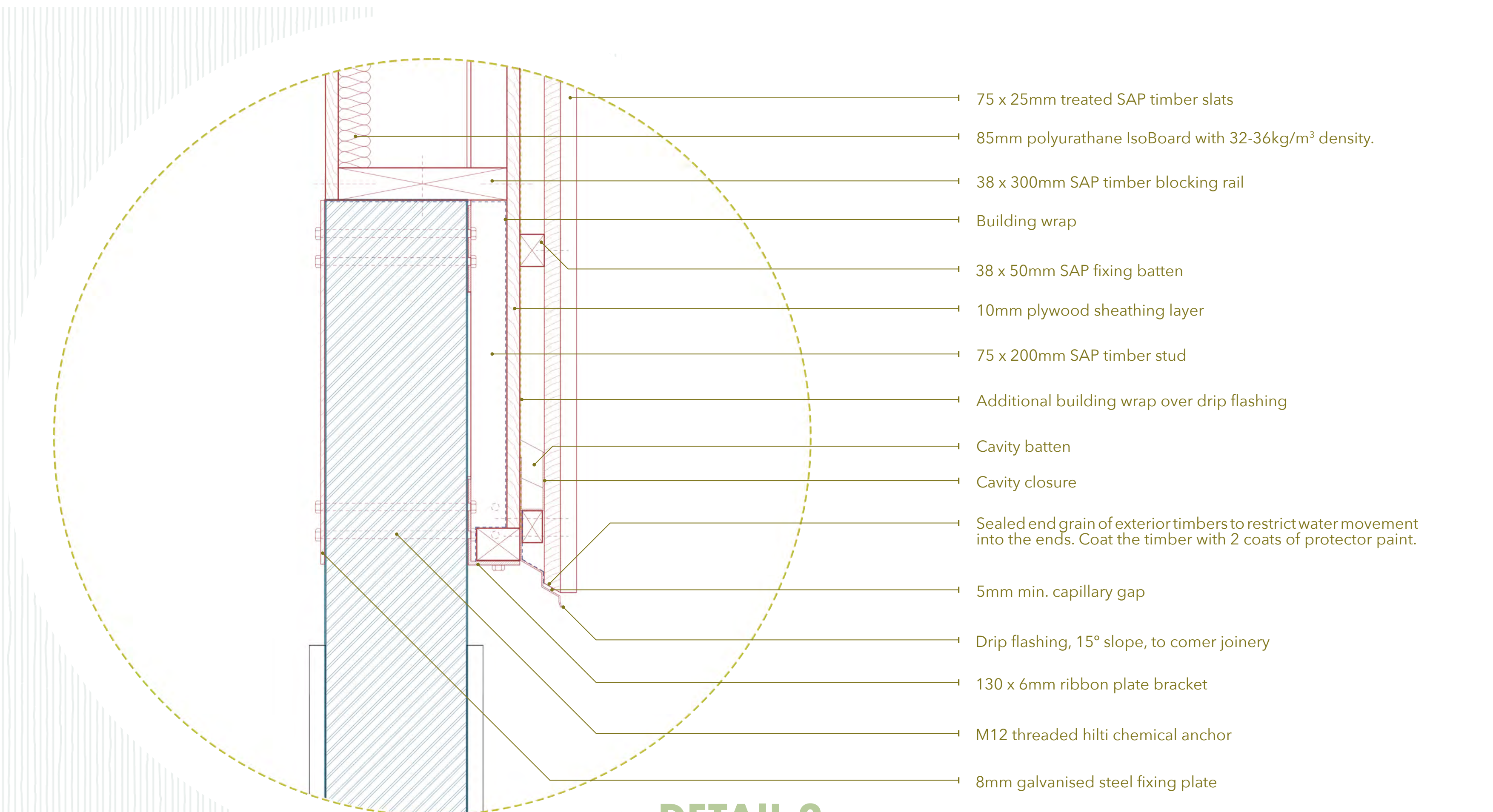




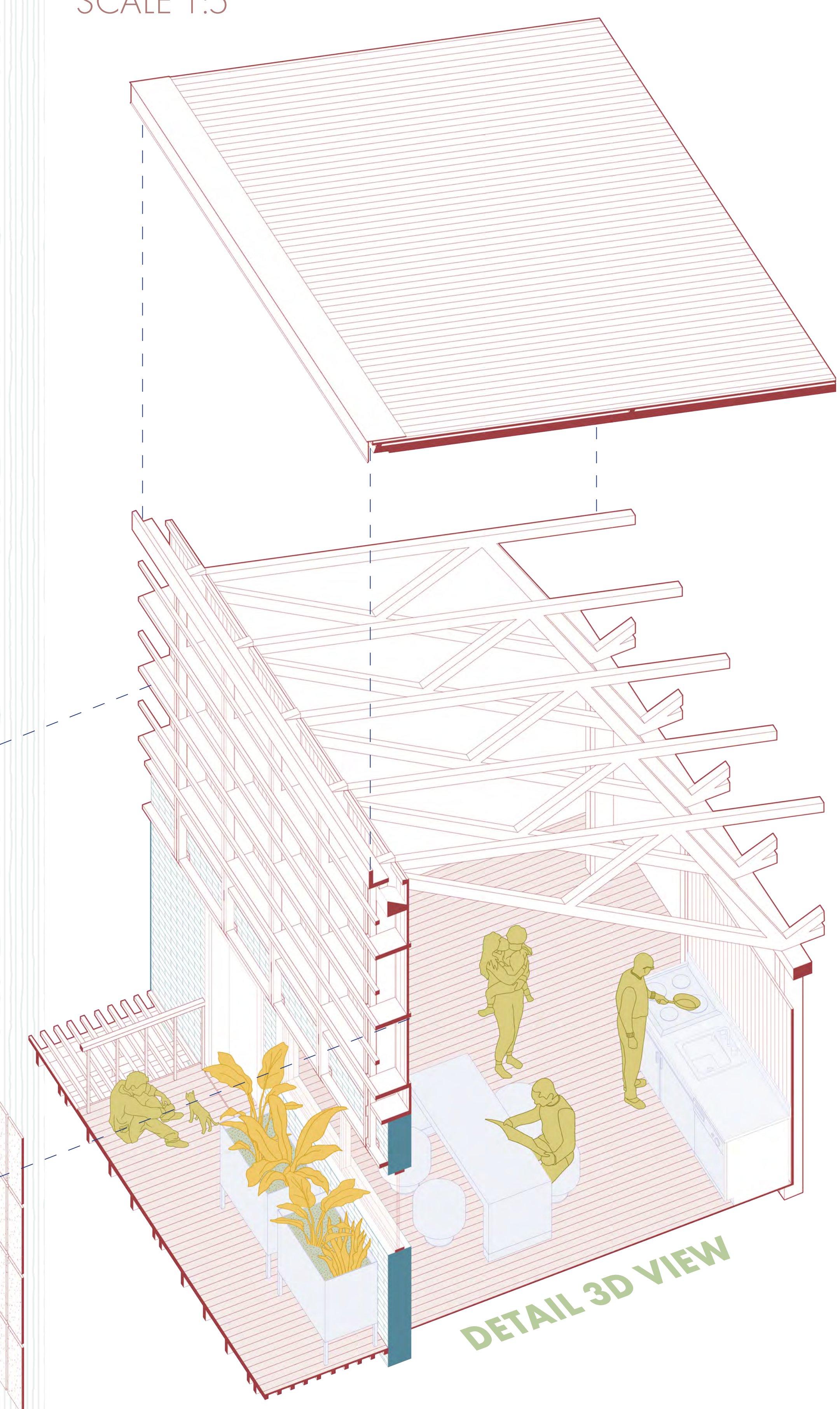
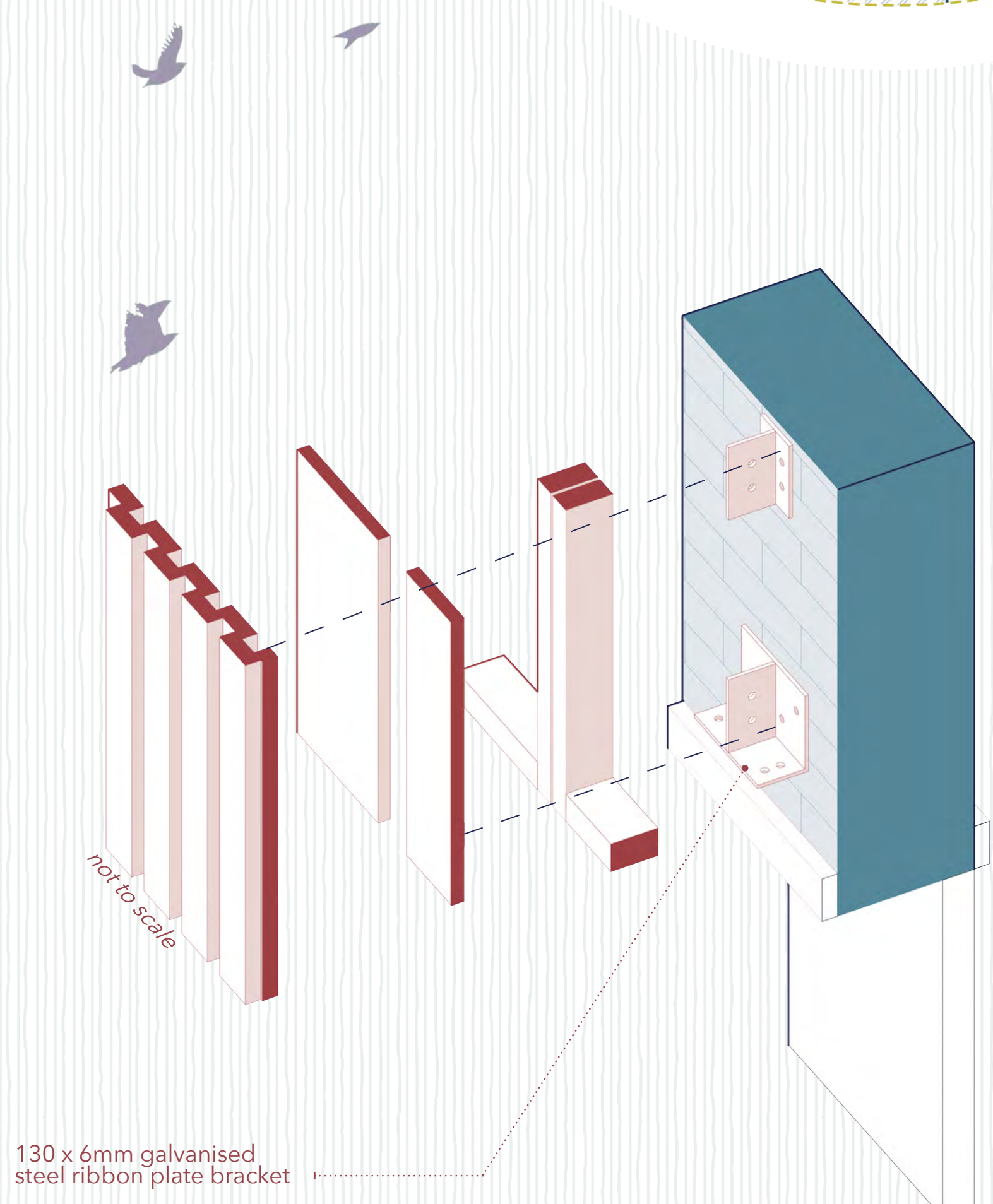
DETAIL 2

DETAIL 1
SCALE 1:10

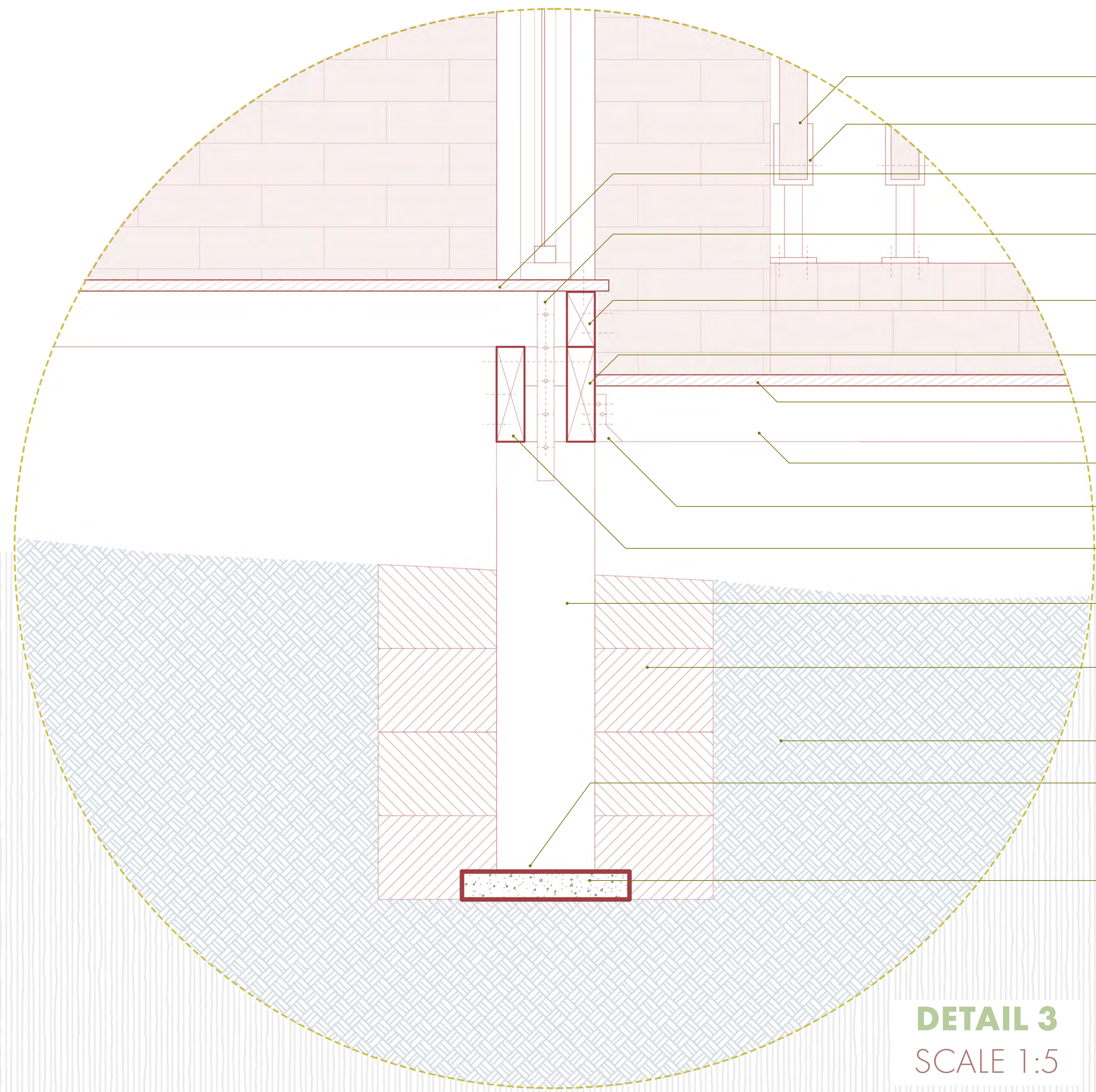
- KEY
- new infill building elements
- existing building elements



DETAIL 2
SCALE 1:5



The key significance of the design project is underscored by its ability to **seamlessly integrate innovative lightweight timber interventions into the prevailing residential landscape**, which primarily features traditional masonry brick walls and concrete slabs. This integration not only addresses the challenge of blending novel construction methods with established structures but also contributes to the overall transformative vision of the project. It represents a harmonious synthesis of contemporary architectural practices with the existing built environment, showcasing a nuanced approach to sustainable and adaptable urban development. The juxtaposition of these materials and construction techniques is pivotal in creating a distinctive and progressive suburban environment that responds effectively to the evolving needs of its inhabitants while maintaining a cohesive aesthetic and functional unity.



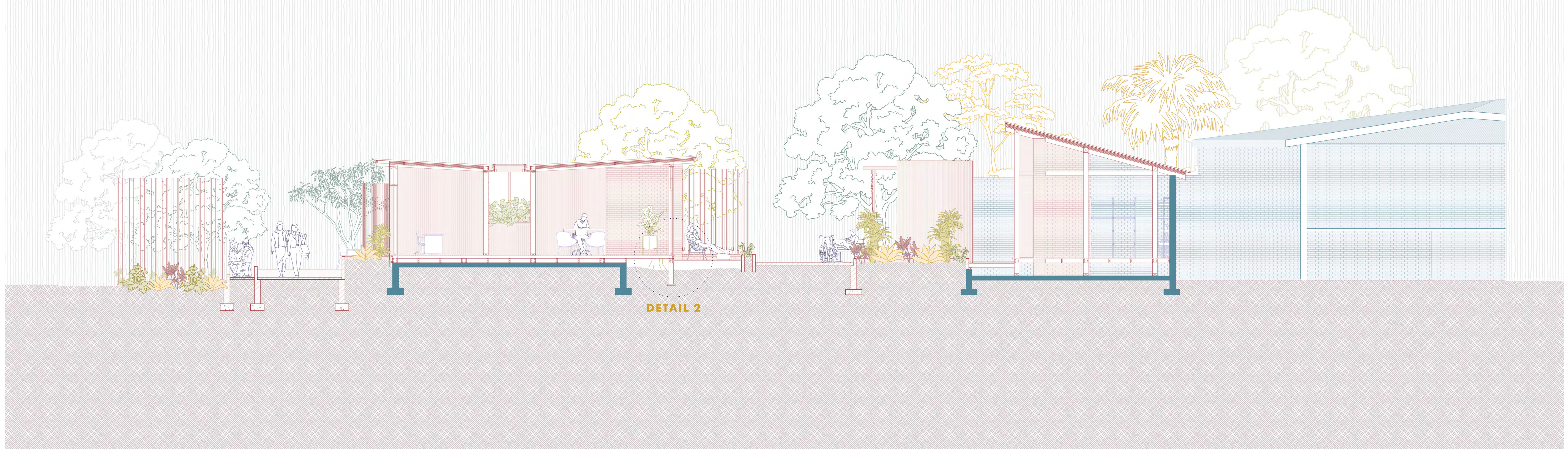
- 50 x 150mm timber slats bolted to the post bracket
- Galvanized mild steel post bracket bolted into masonry wall
- 22mm tongue and groove SAP floor fixed to timber joist with hidden nails
- 1,6mm x 30mm U-shaped galvanized mild steel holding-down strap nailed to both sides of the post
- 50 x 100mm end capping
- 50 x 150mm SAP timber bearer beam bolted to timber column
- 22 x 102mm eucalyptus deck board nailed flush to timber joists with 44mm galvanized nails. Holes to be pre-drilled 70% of the nail shaft thickness. Decking board has 5mm gaps
- 50 x 150mm SAP timber joists at 400cc bolted to truss hangers, inside the bearer beams
- Galvanized mild steel truss hanger bolted to bearer beam
- 50 x 150mm SAP timber girder at 400cc bolted to timber column, inside the bearer beams
- 176 x 176mm solid square eucalyptus timber post, treated with CCA to exposure class H4, according to SANS 1288
- 150mm compacted backfill G7 medium layers, each layer needs sufficient compaction before the next layer is inserted.
- Undisturbed earth
- 1,6mm anti-split plate nailed into the end of the post and an additional CCA treatment impregnated at the post's end
- 300 x 300mm precast concrete footing, 50mm thickness. Placed in a 600 dia. hole dug for the post planting.

DETAIL 3
SCALE 1:5

SECTION B-B
SCALE 1:50

KEY

	new infill building elements
	existing building elements



DETAIL 2