

An aerial photograph of New Bern, North Carolina, showing a wide river, a bridge, and a marina. The image is overlaid with a semi-transparent white box containing text.

AFFORDABLE AND RESILIENT HOUSING FOR NEW BERN

Affordable Housing + Sustainable Communities Initiative | School of Architecture | NC State University

Duplex Pocket Neighborhood Scheme

Affordable and Resilient housing for New Bern

ARC 503 | Hima Thaker





Existing Condition



Pocket neighborhoods are clustered groups of neighboring houses or apartments gathered around a shared open space, all spaces of have a clear sense of territory and shared stewardship.

-Pocket Neighborhoods, Ross Chapin



Active Commons

Enclosure and
Permeability

Front porch

Corralling the car

A place for planting



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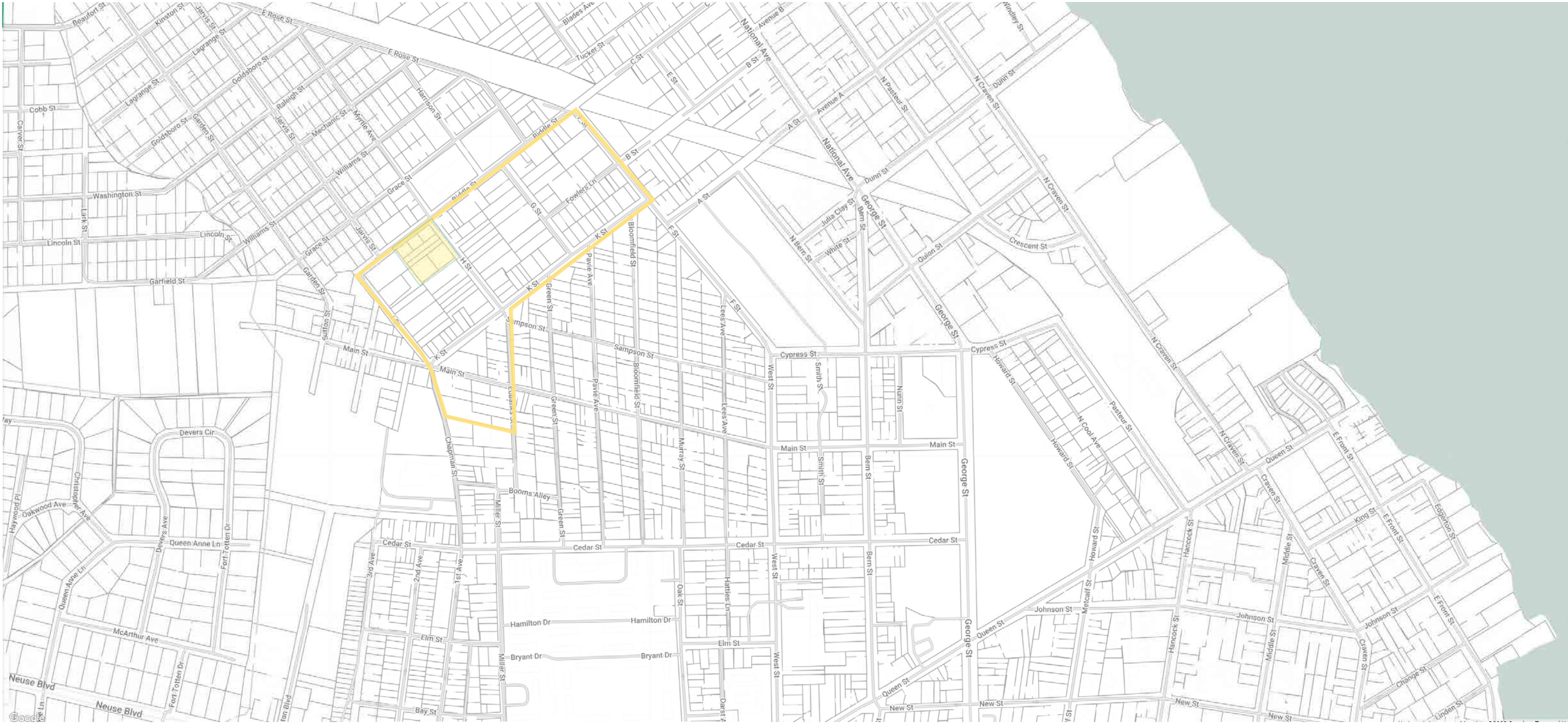
Active Commons

Enclosure and
Permeability

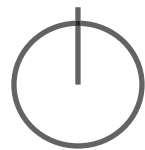
Front porch

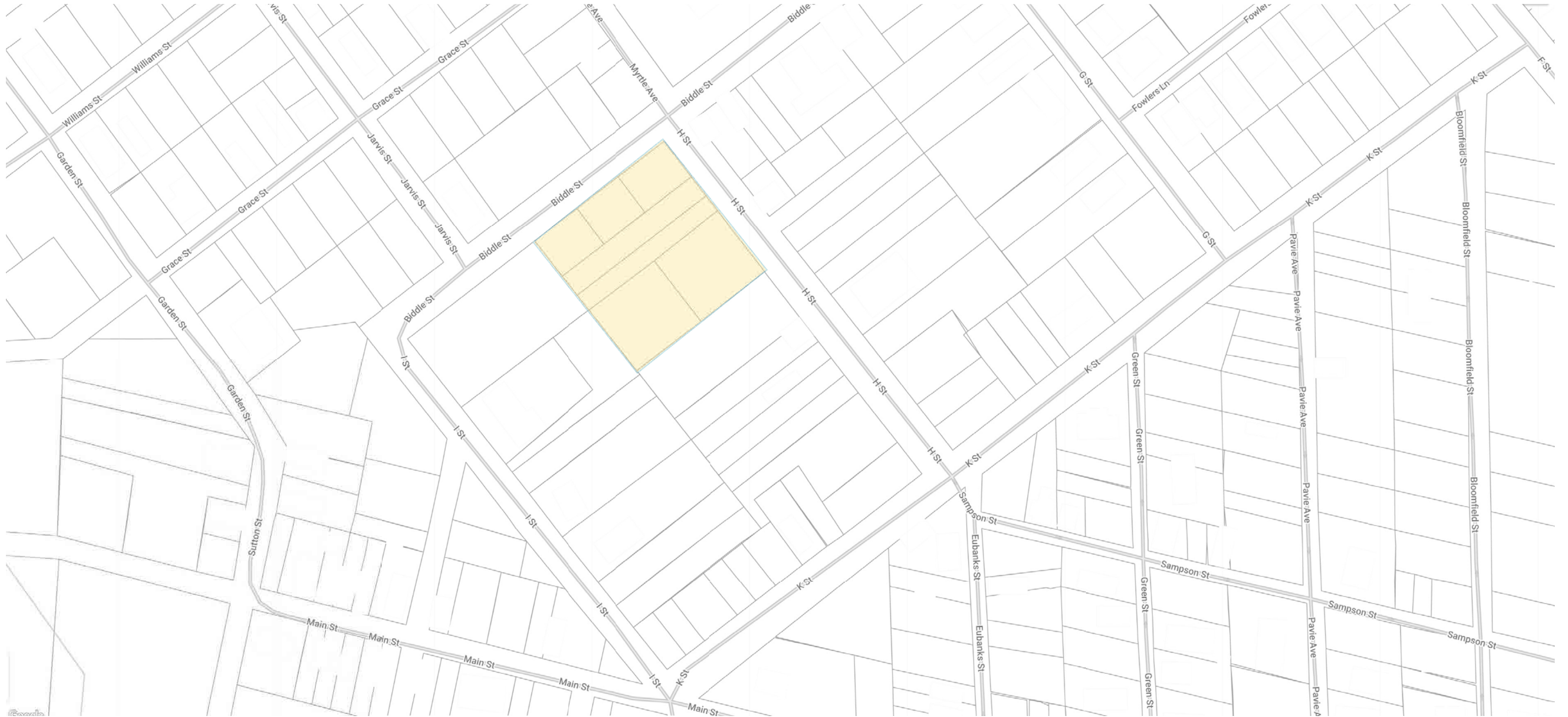
Corralling the car

A place for planting

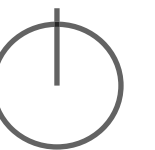


Site Zone 3





Site Location - Biddle Street & H Street





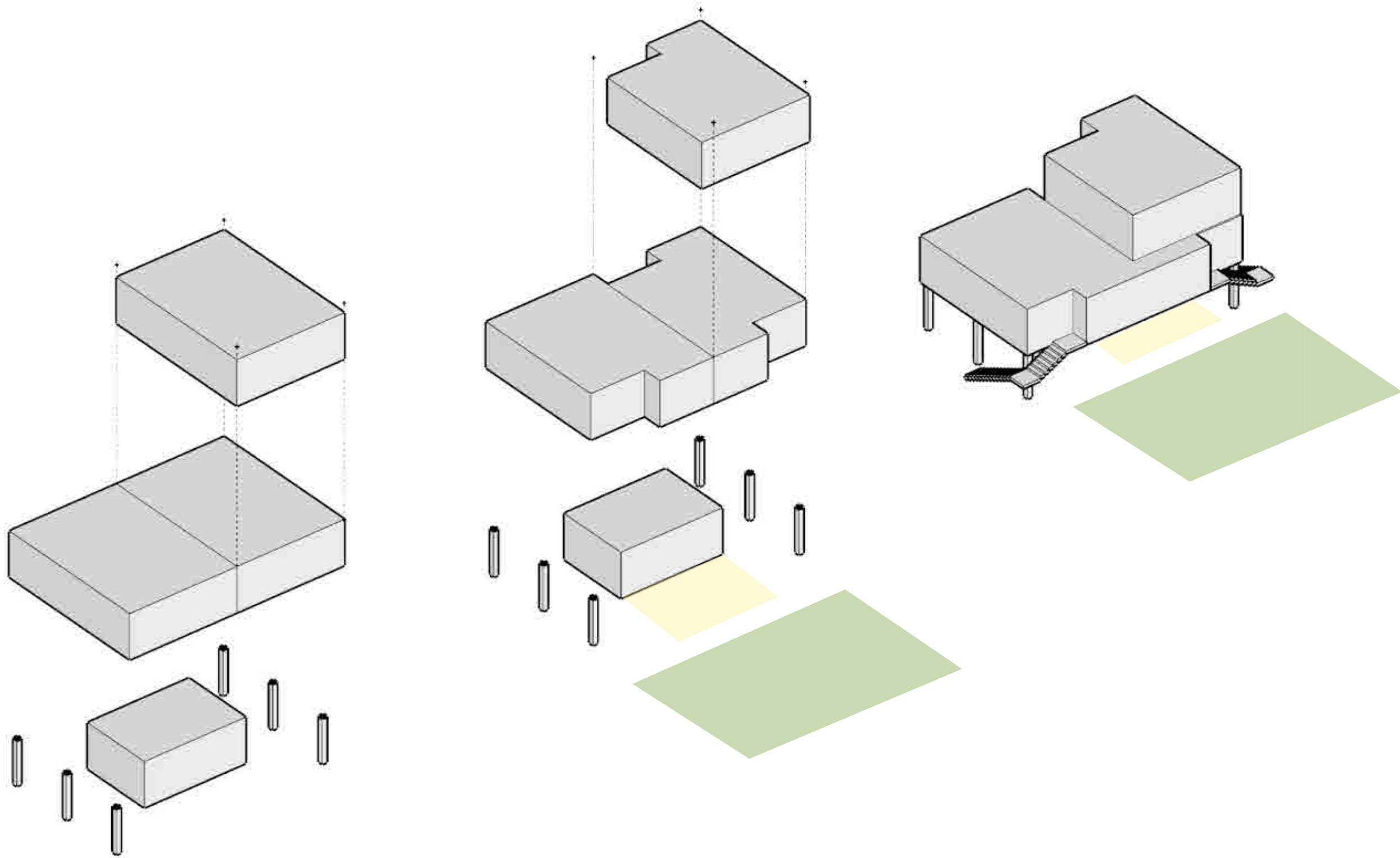
Site Plan



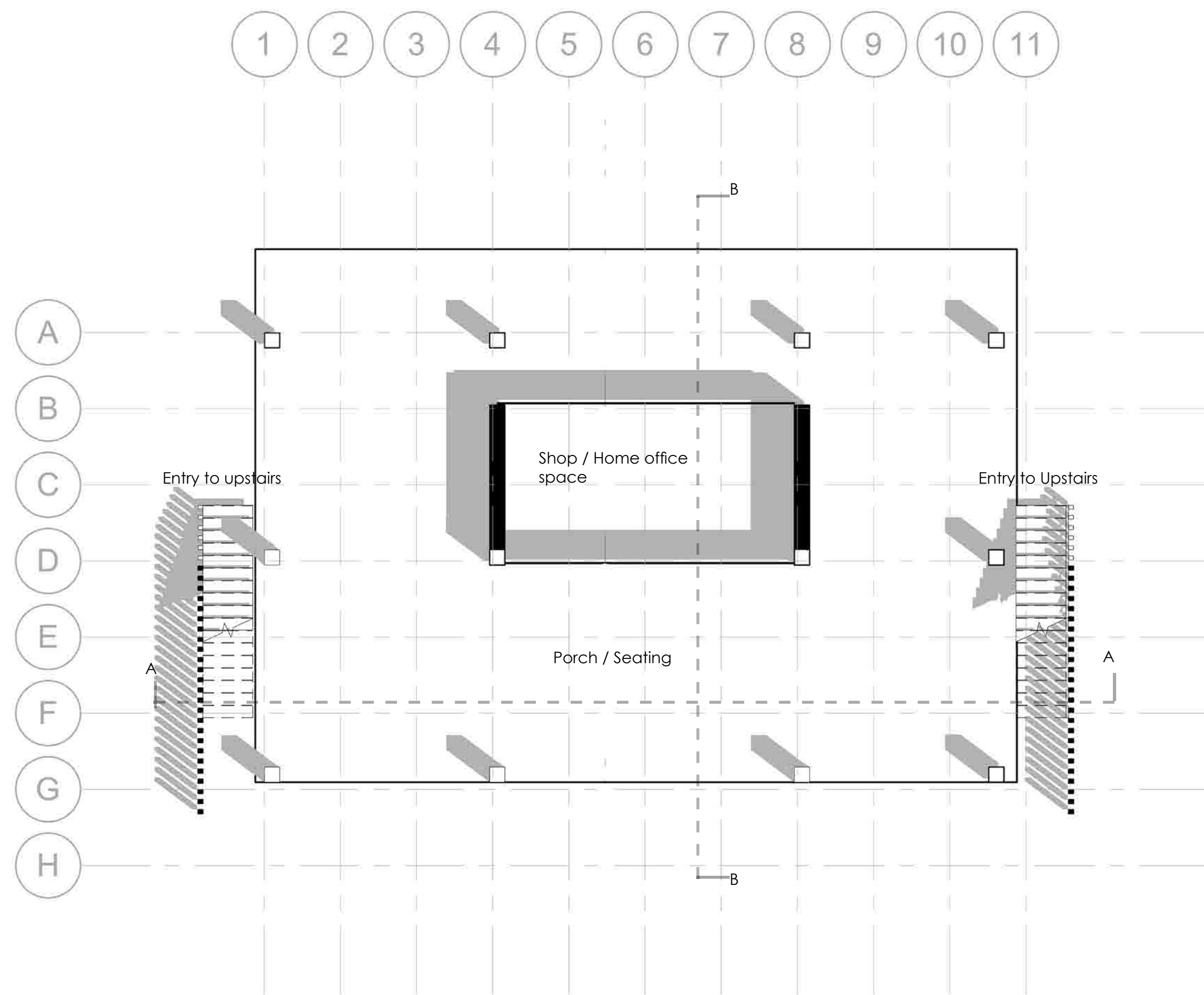


Public Layer	Verge, Sidewalk, landscape boundary, parking
Community Layer	Play Area for kids, walk way, Planting space for residents
Private Layer	Porches, Storage space, shop/office space

Space Classification

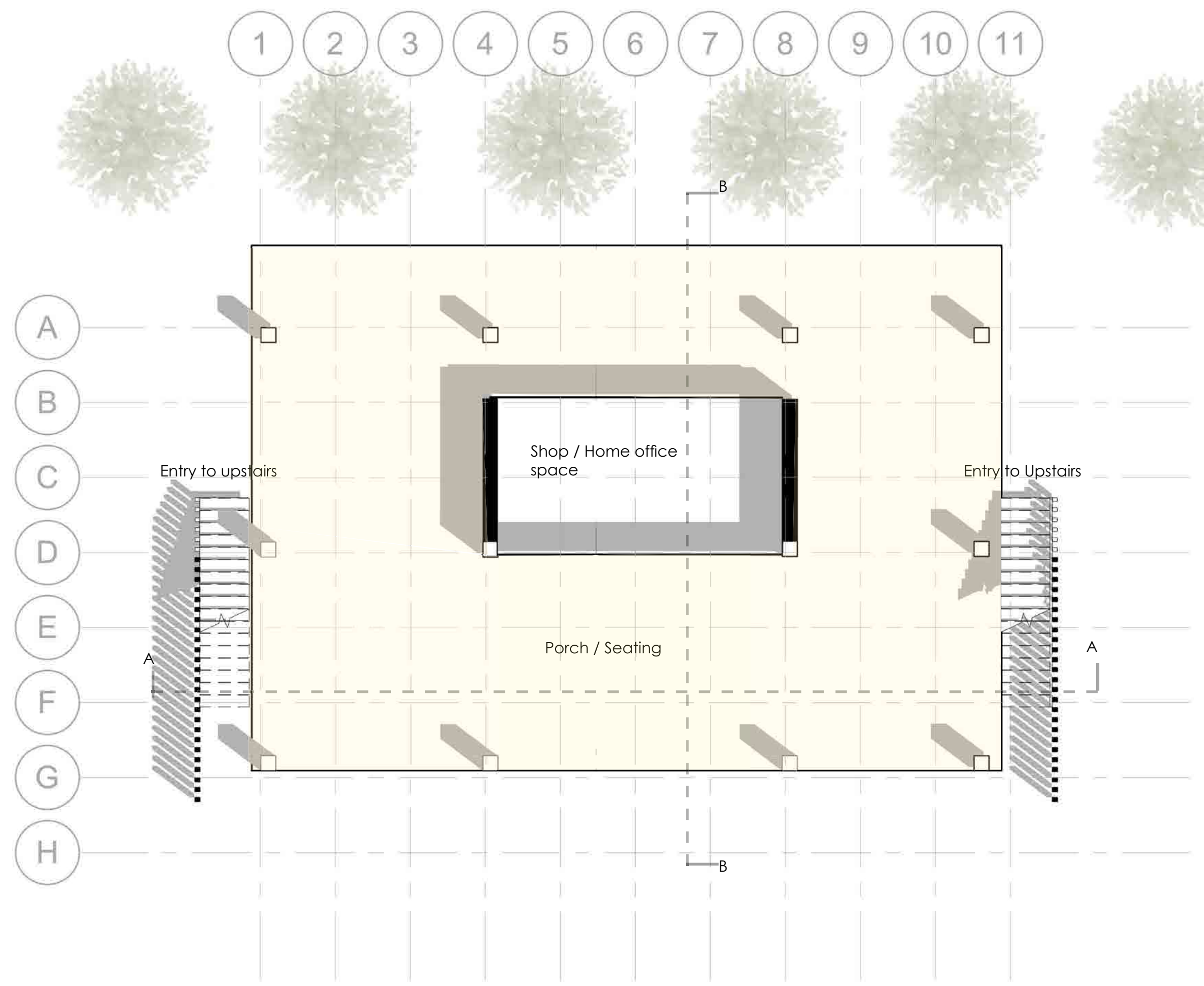


Form Evolution of Duplex Units



Floor area / Footprint : 1750 sq ft
Shop/office area : 200 sq ft

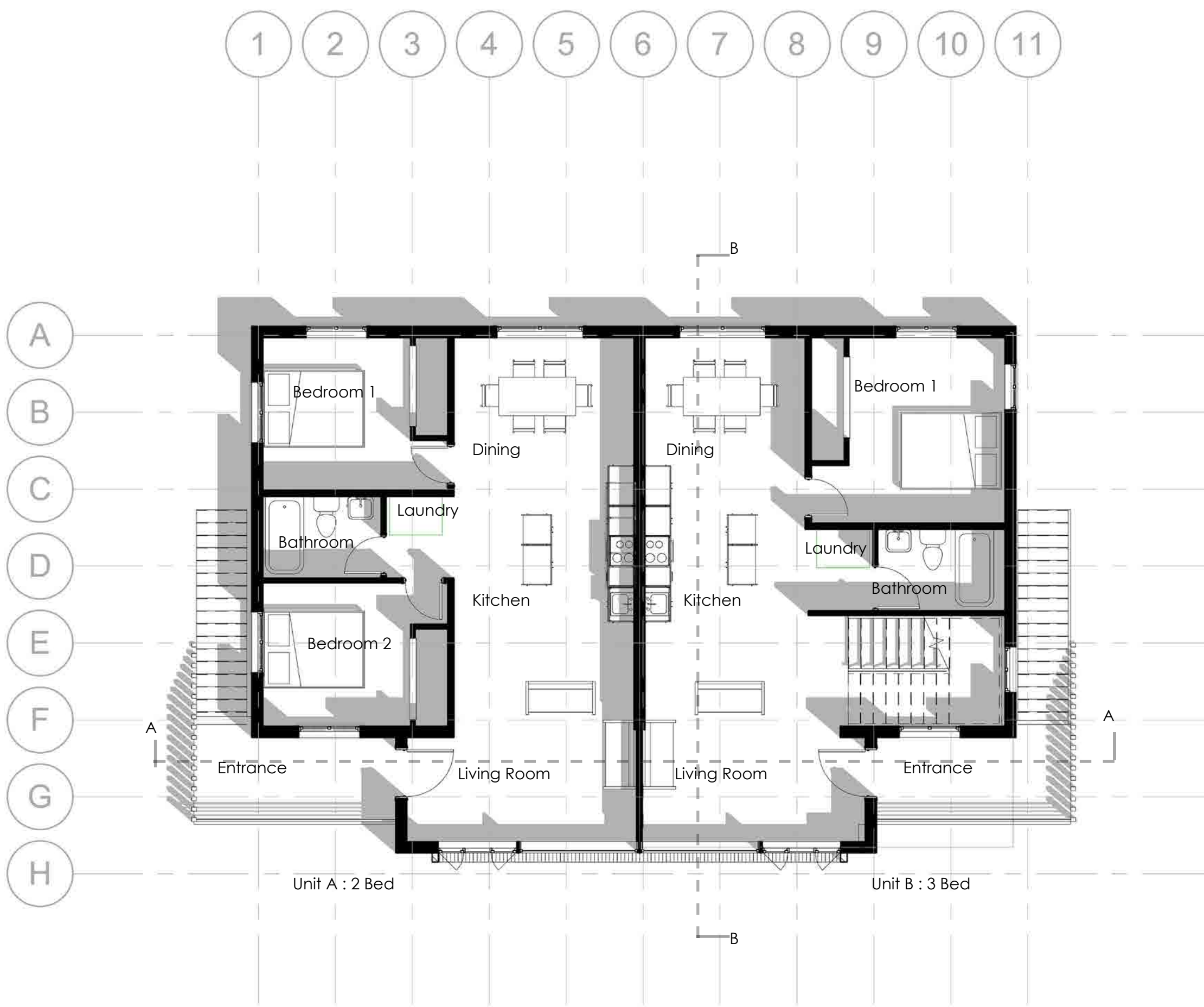
Ground Level



Outdoor connection

Floor area / Footprint : 1750 sq ft
Shop/office area : 200 sq ft

Ground Level



Unit A Floor Area :750 sq ft

Unit B Floor Area :
750 sq. ft. + 550 sqft = 1350 sqft

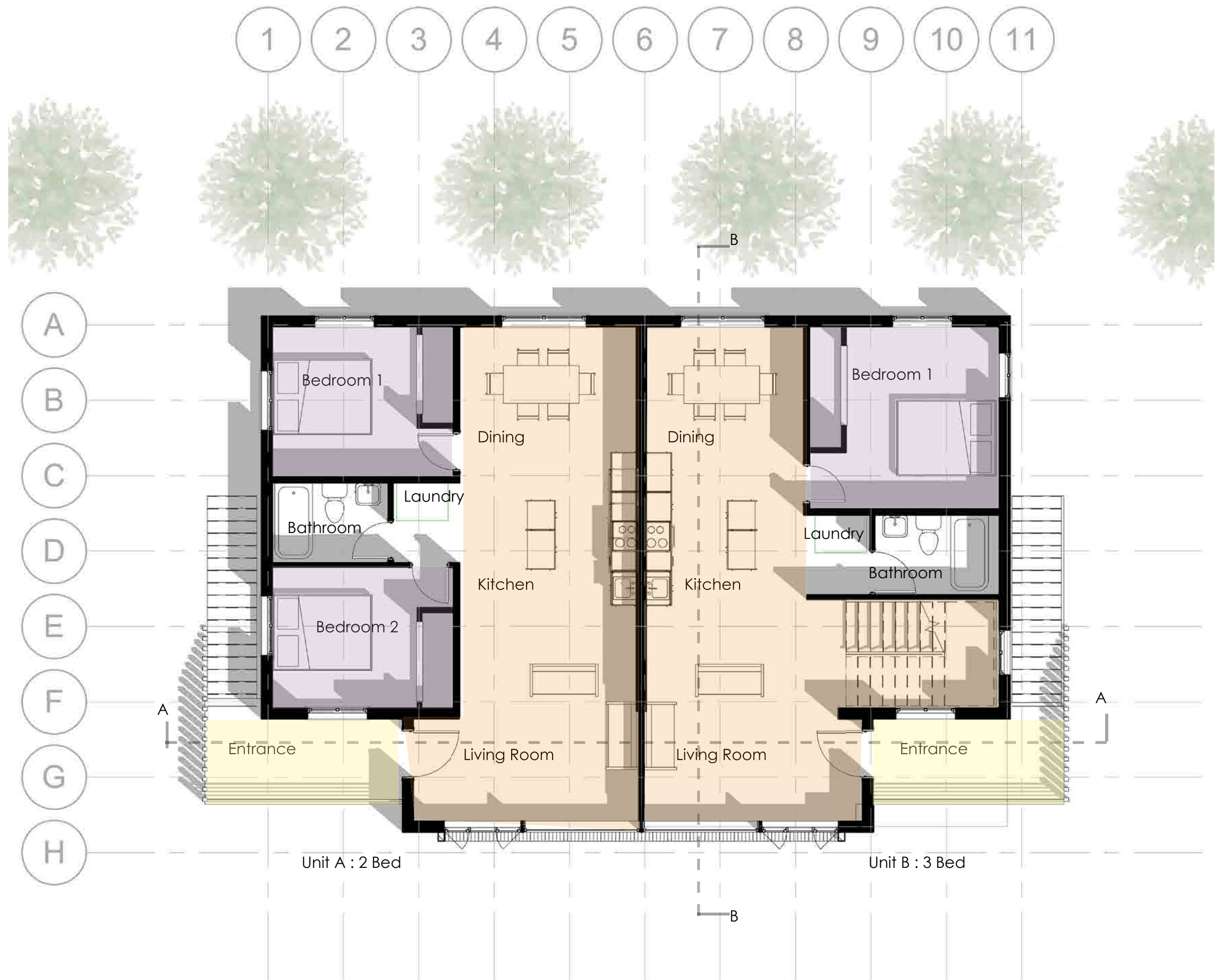
First Level

Unit A Floor Area :750 sq ft

Unit B Floor Area :
750 sq. ft. + 550 sqft = 1350 sqft

First Level

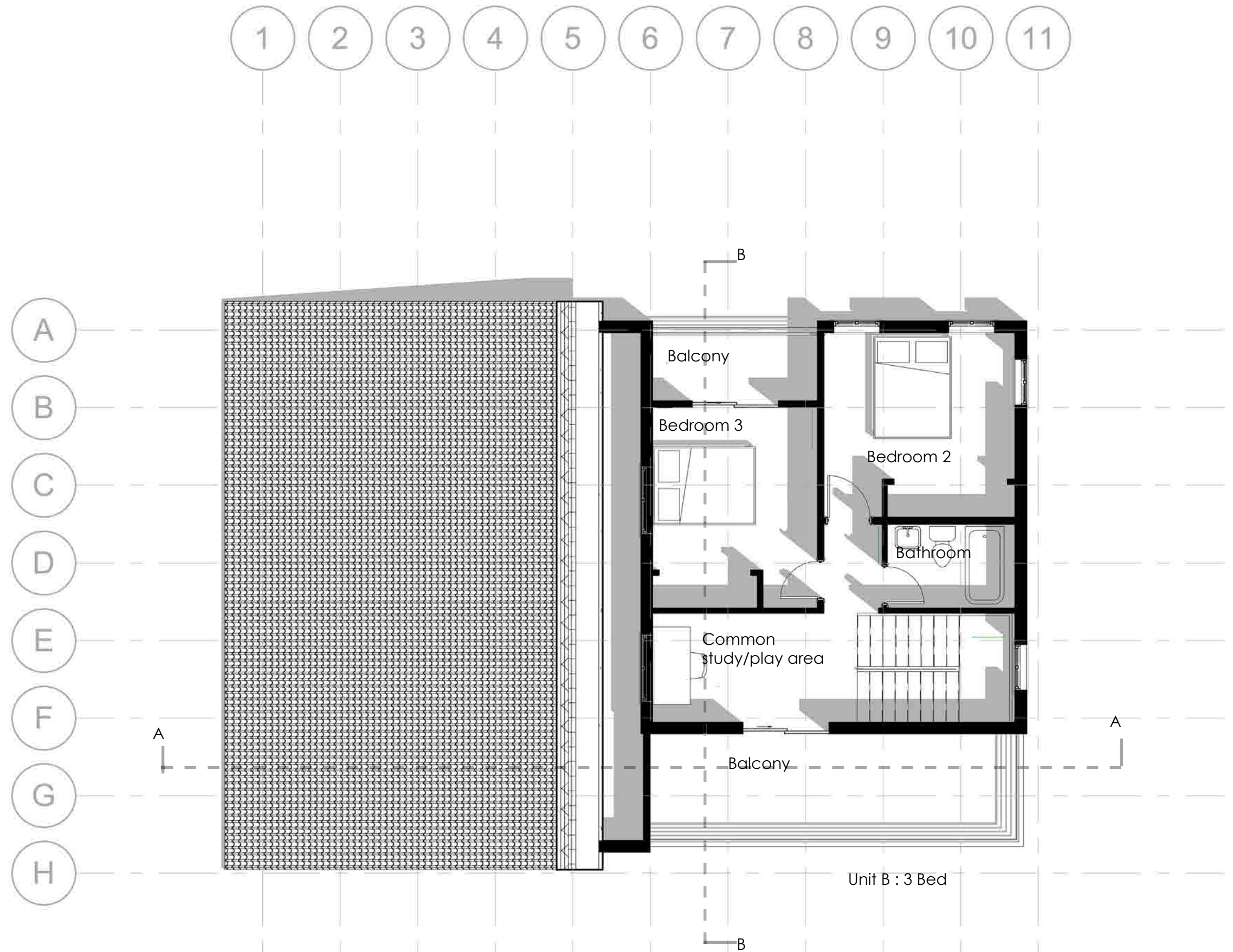
- Private
- Common spaces
- Outdoor connection



Unit A Floor Area :750 sq ft

Unit B Floor Area :
750 sq. ft. + 550 sqft = 1350 sqft

Second Level

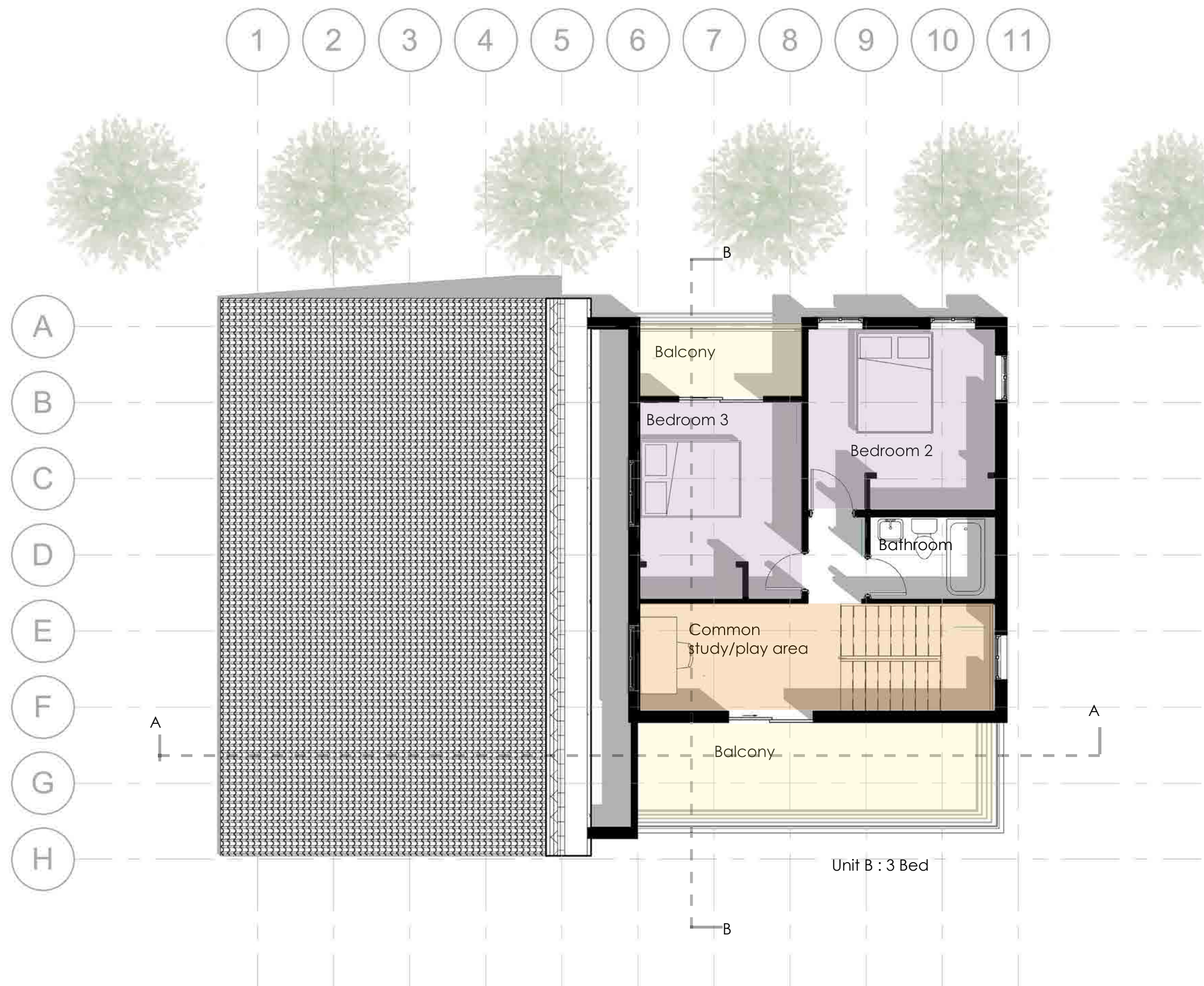


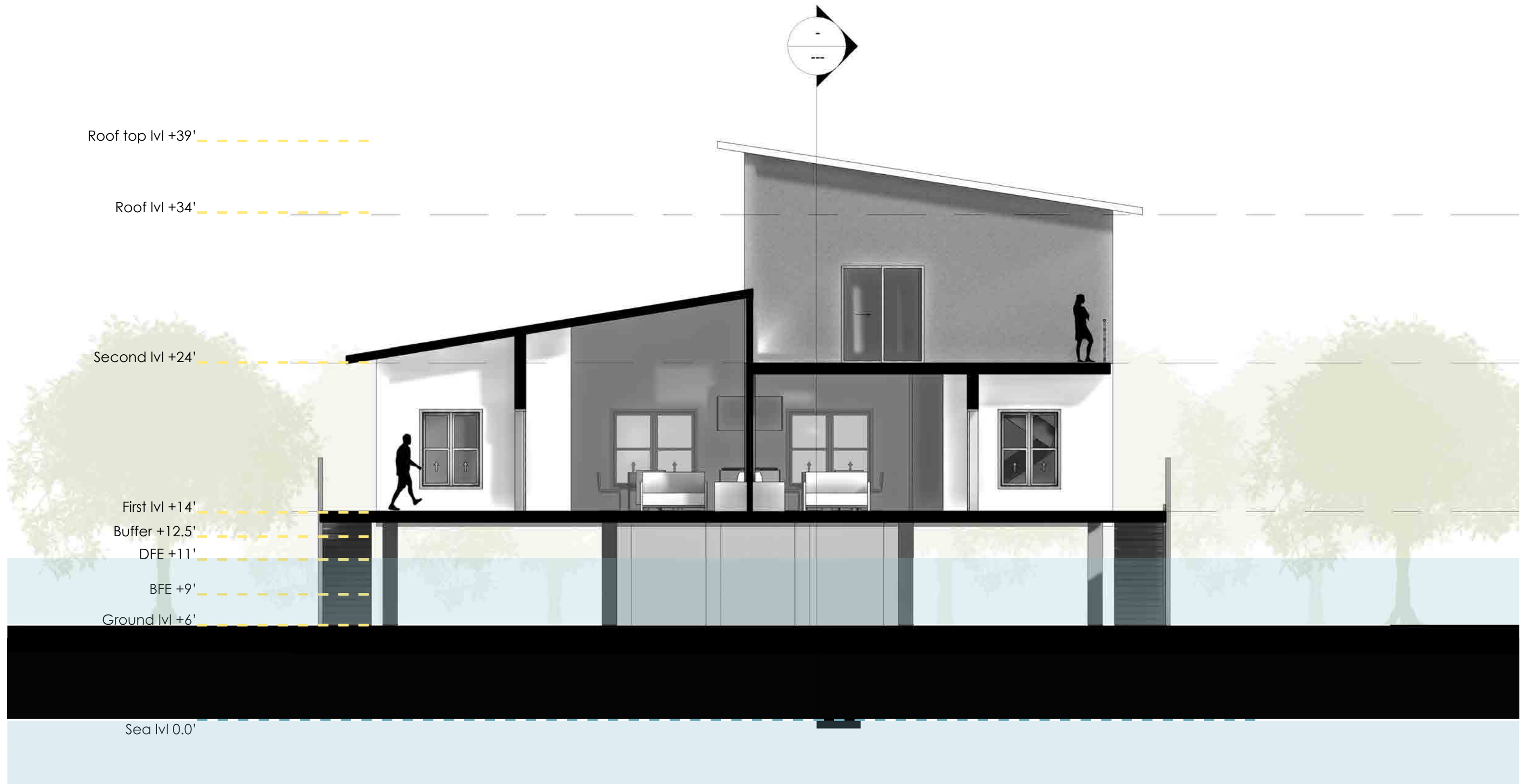
Unit A Floor Area :750 sq ft

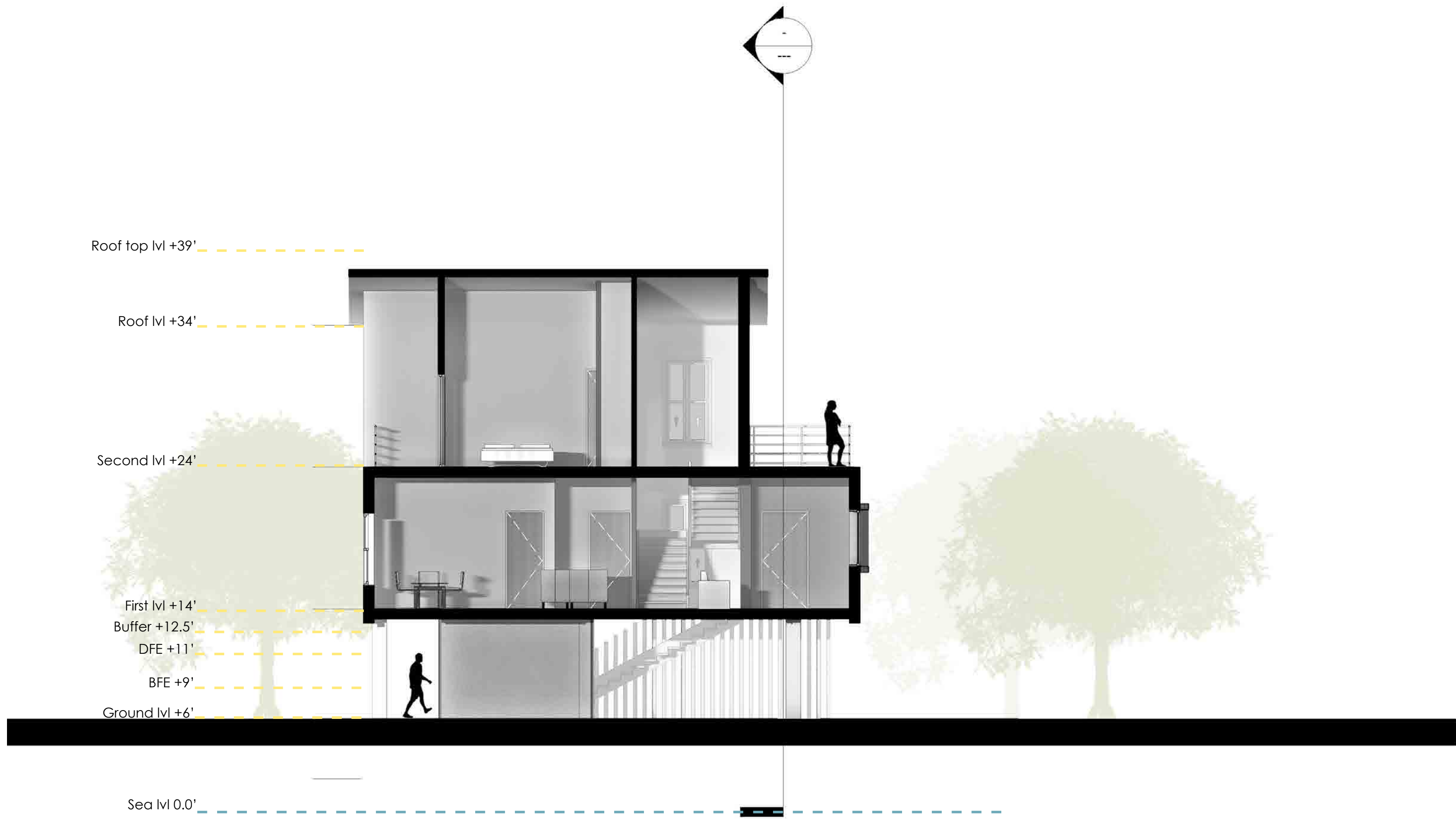
Unit B Floor Area :
750 sq. ft. + 550 sqft = 1350 sqft

Second Level

- Private
- Common spaces
- Outdoor connection

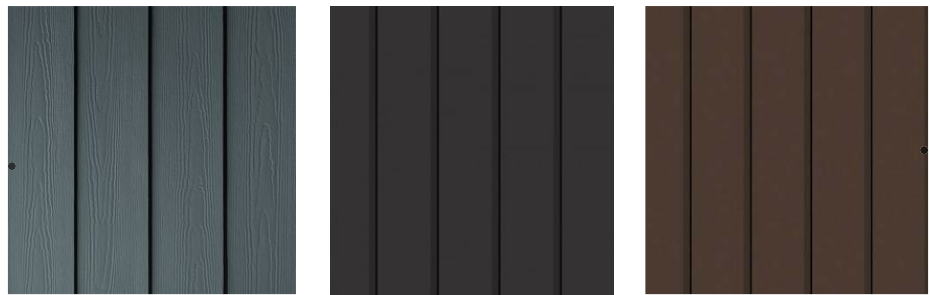




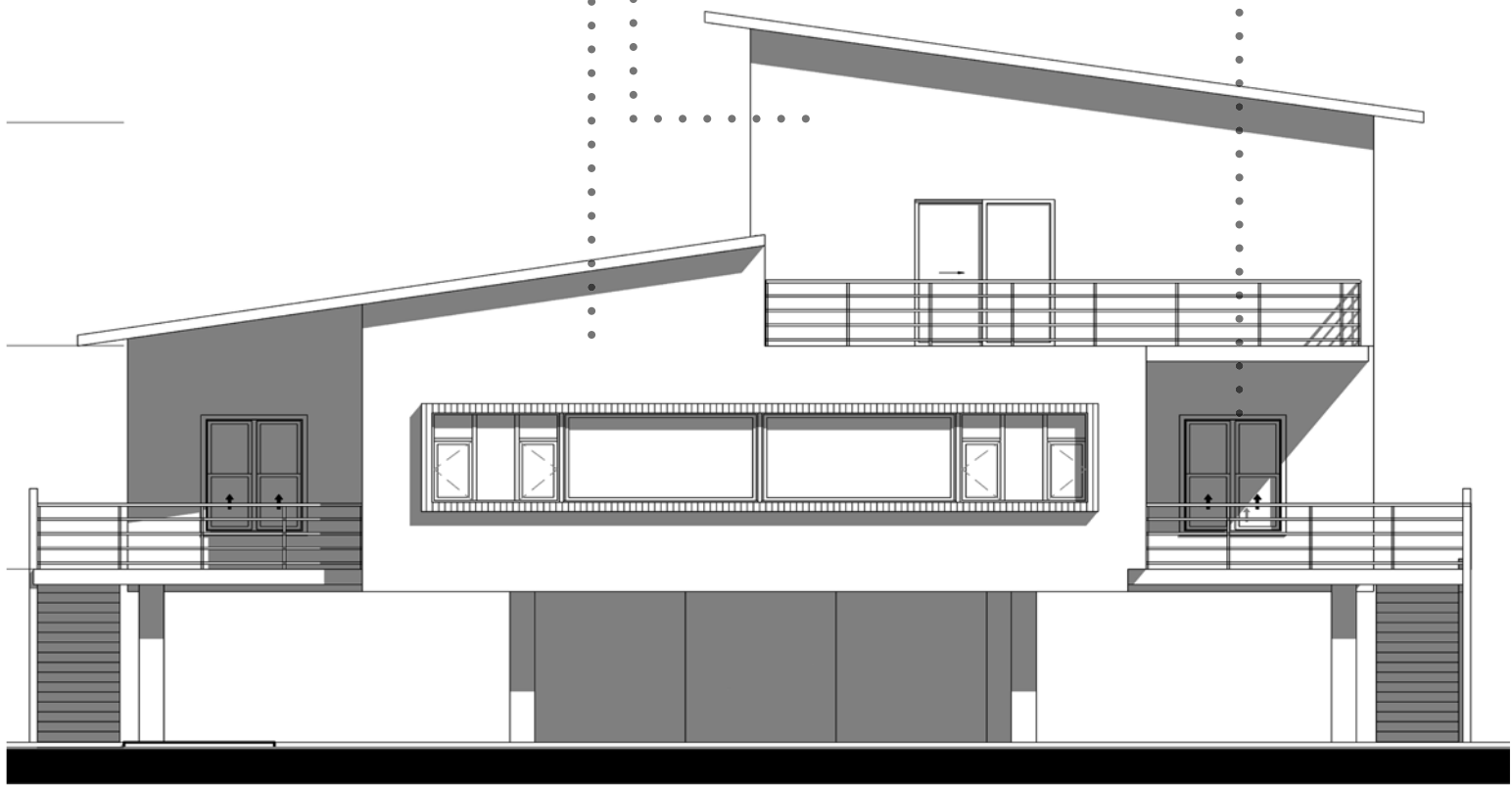
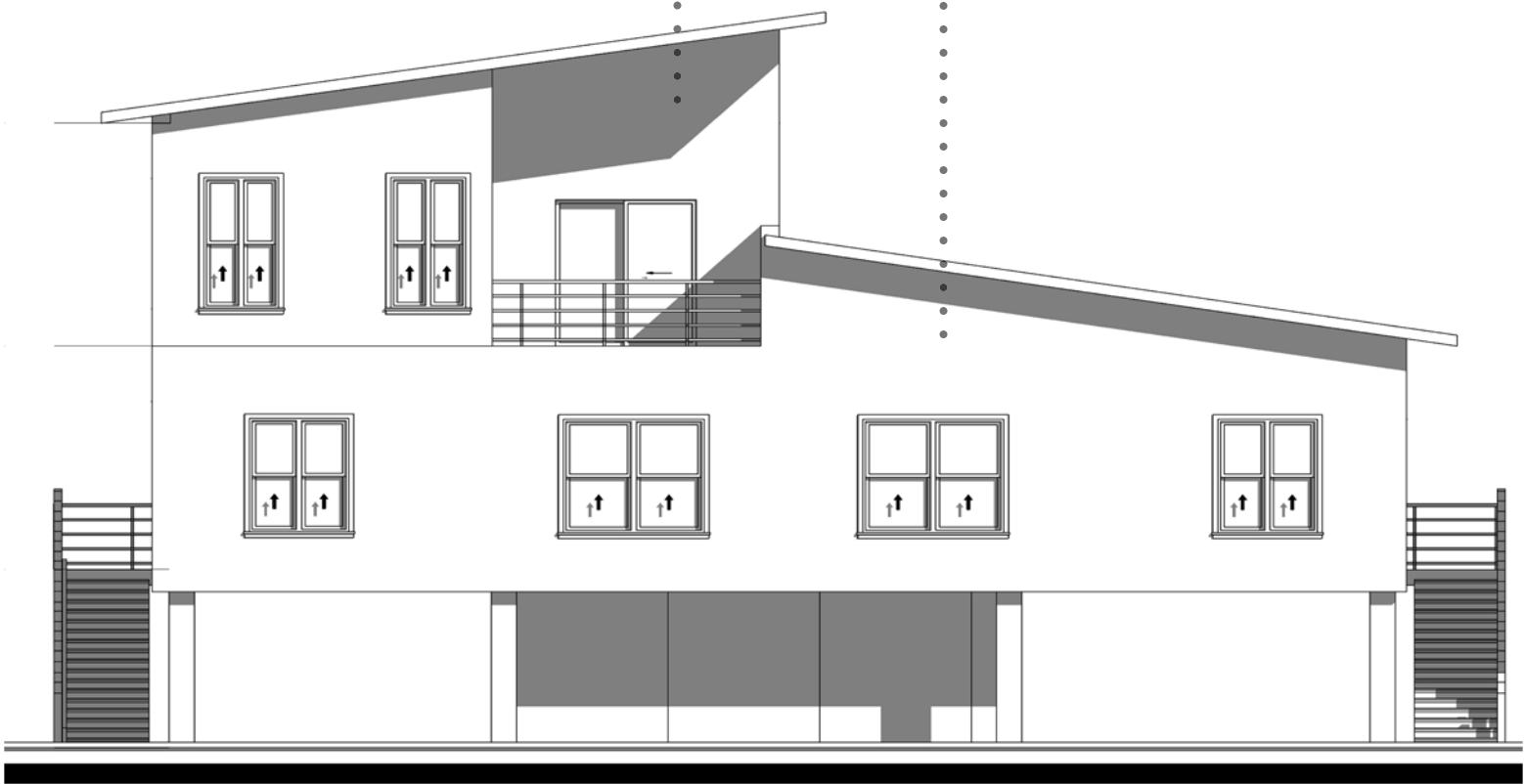


Section B

Darker finish Hardie Board/Cement Board Siding



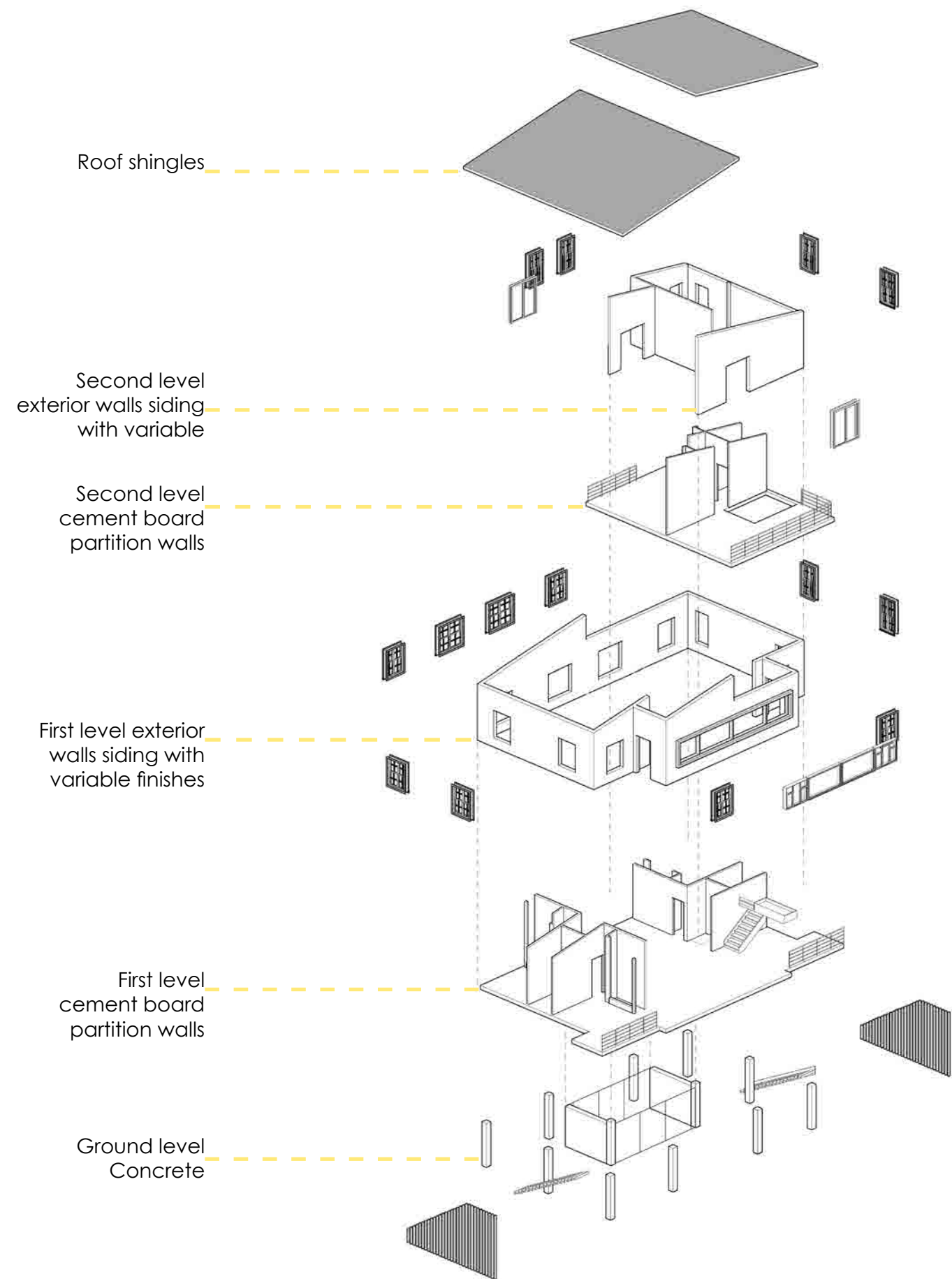
Lighter finish Hardie Board/Cement Board Siding



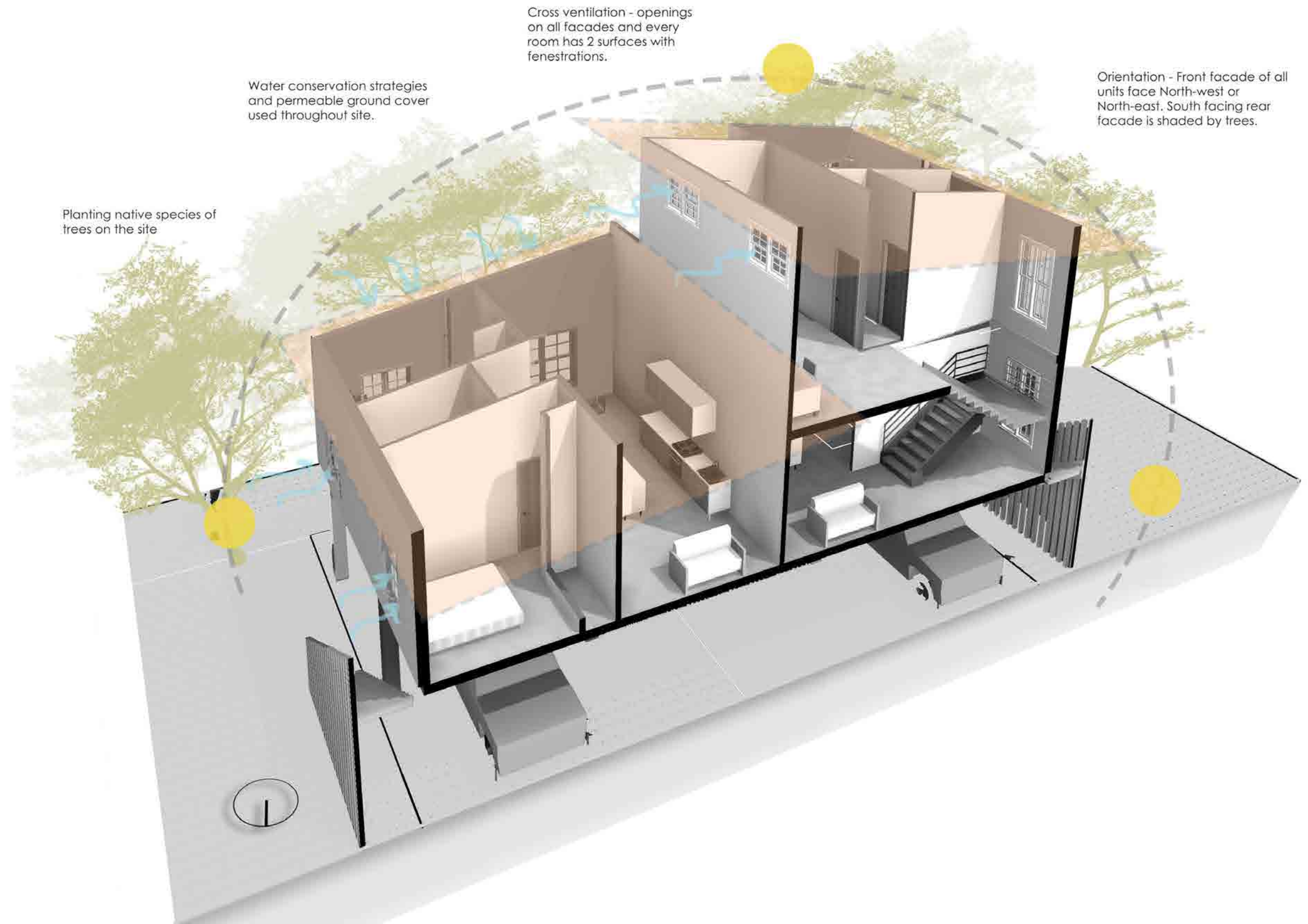
Rear Elevation

Front Elevation

Elevation Material Options



Axonometric Diagram



Sustainability













Street view



Thank You