

# BURT'S BOG GREENWAY: A MODERN COMMUNITY

Both the internal and external space of the structure proposed will provide mobility, flexibility, functionality, and easy-access to users. The various areas will include spaces that are close in proximity, but provide an arrangement that is both comforting and supportive to independent activities. Nature allure is accomplished through providing views to the surrounding landscape and opening the spaces up to natural light, while simultaneously providing shade and shelter. The geometry of the housing structure and shed are placed for direct south facing sun in the front to maximize natural daylighting and solar energy collection. A natural ventilation system running through the span of the building, as well as a sloped roof for rainwater harvesting are encompassed in this design. The execution of these design elements will form a sustainable system, allowing the units of the structure to use less overall energy and contribute to the Net Zero Energy objective.

The construction cost will be kept below industry standards by utilizing materials such as structural insulated panels (SIPS) for a strong, energy efficient, and cost effective design. The materials will meet the minimum R30 walls, R60 attic, and R-20 foundation walls/under slab requirements to create an air tight barrier and a sealed building envelope to help enhance the benefits of the natural winter sun coming through the structure. Having separate individual units attached by sharing walls will decrease the amount of material usage, while also increasing the affordability and accessibility of the three units. This also applies to the idea of a shared community shed with individual units for residents to have easy access to bikes, equipment, and storage.

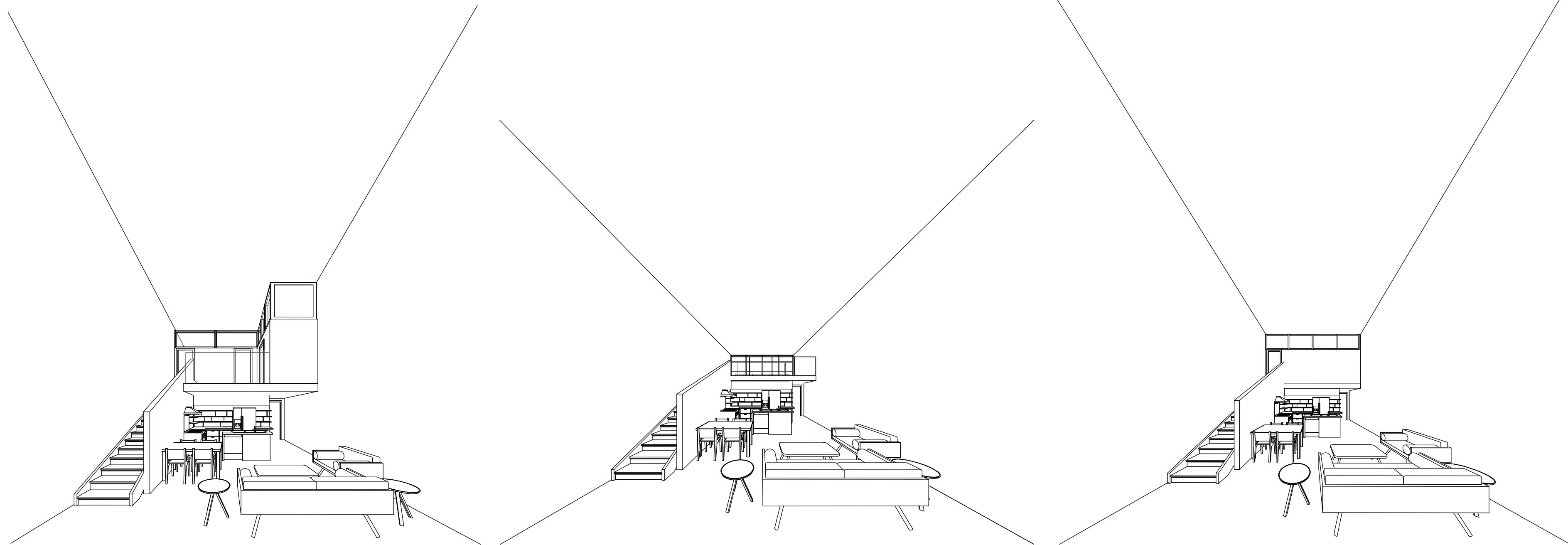
- KEY
- 1 FRONT PATIO
- 2 LIVING-DINING COMMON SPACE
- 3 KITCHEN
- 4 DOWNSTAIRS BATHROOM-LAUNDRY
- 5 BEDROOM 1 DESIGN
- 6 BACK PATIO
- 7 OPEN LOFT SPACE
- 8 BEDROOM 2 DESIGN
- 9 BEDROOM 3 DESIGN
- 10 UPSTAIRS BATH
- 11 BALCONY



SECOND LEVEL



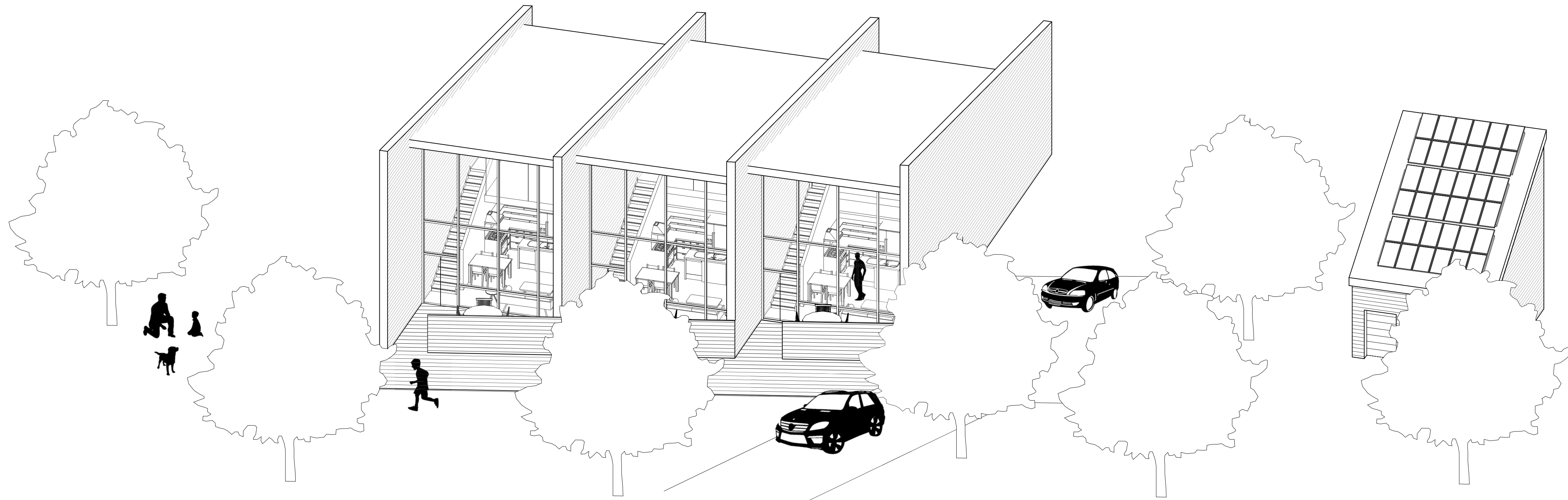
FIRST LEVEL



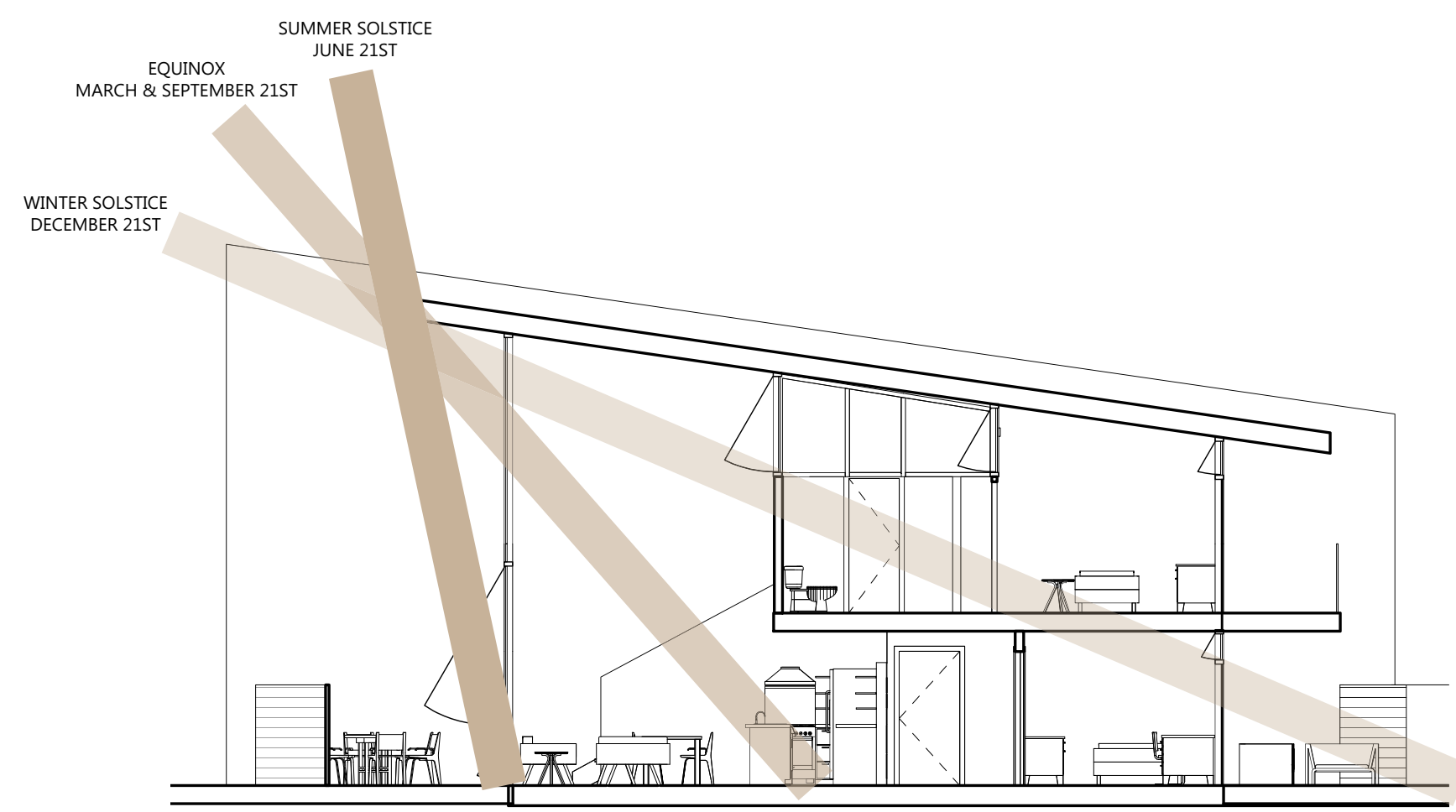
THREE BEDROOM UNIT

ONE BEDROOM UNIT

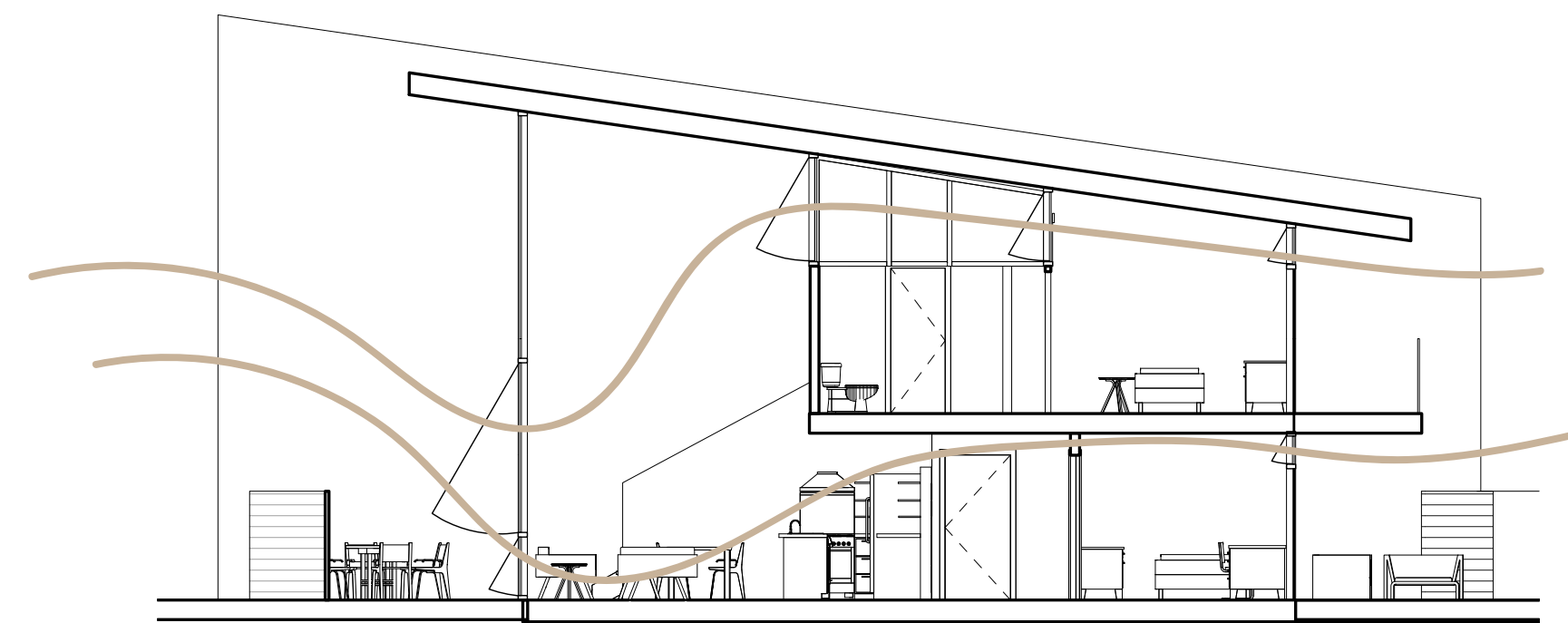
TWO BEDROOM UNIT



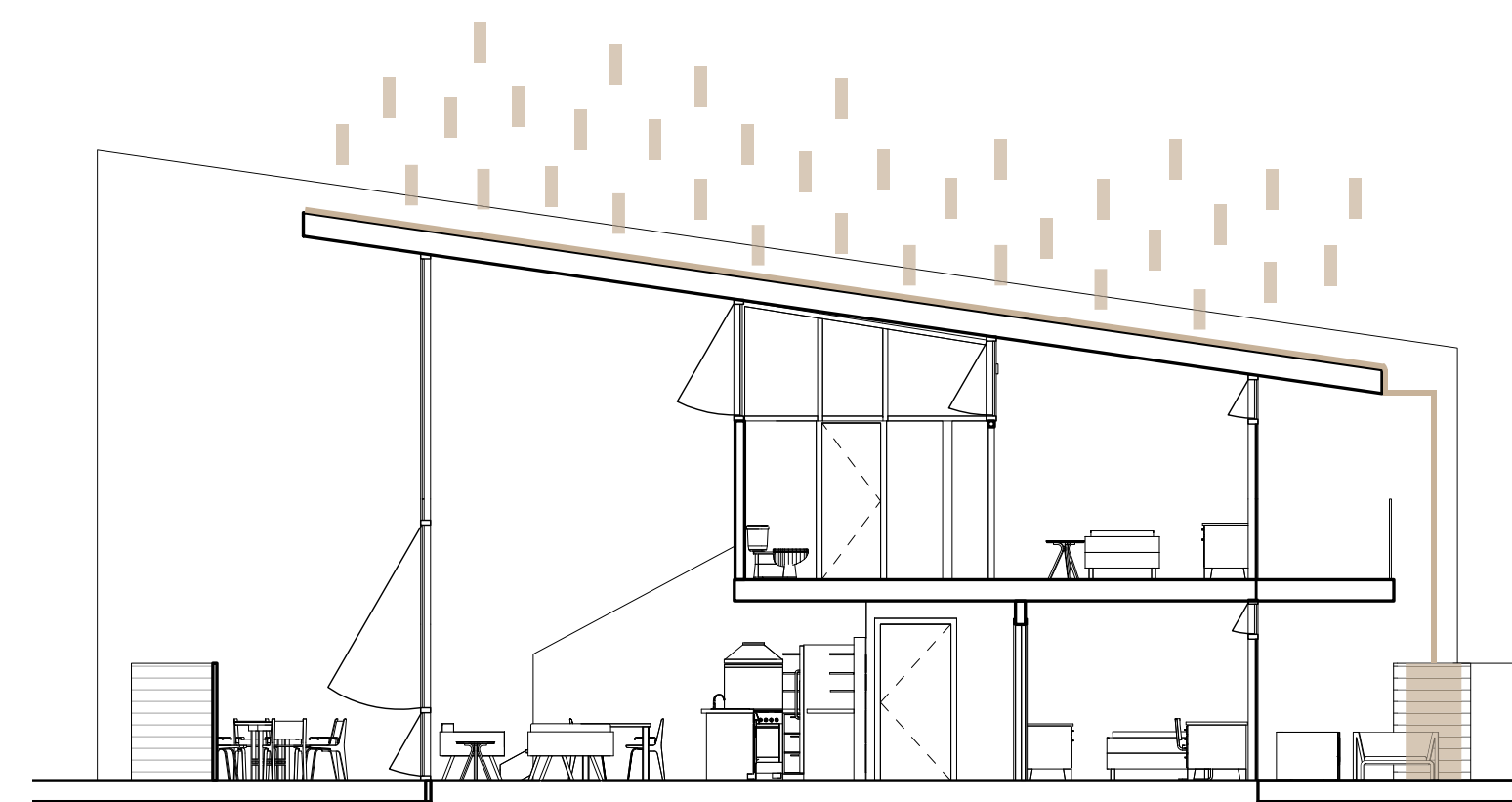
NORTH AERIAL VIEW



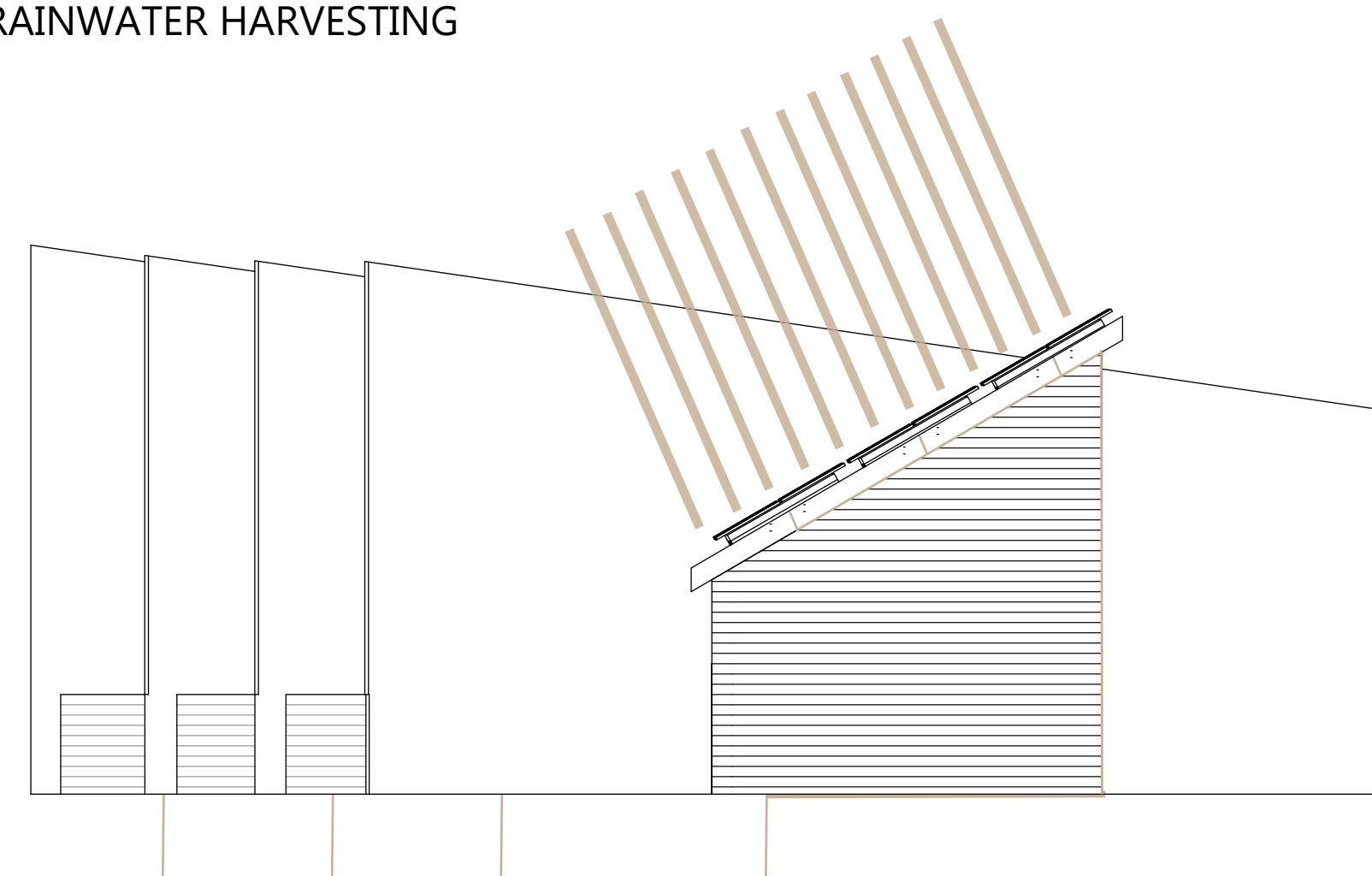
DAYLIGHTING



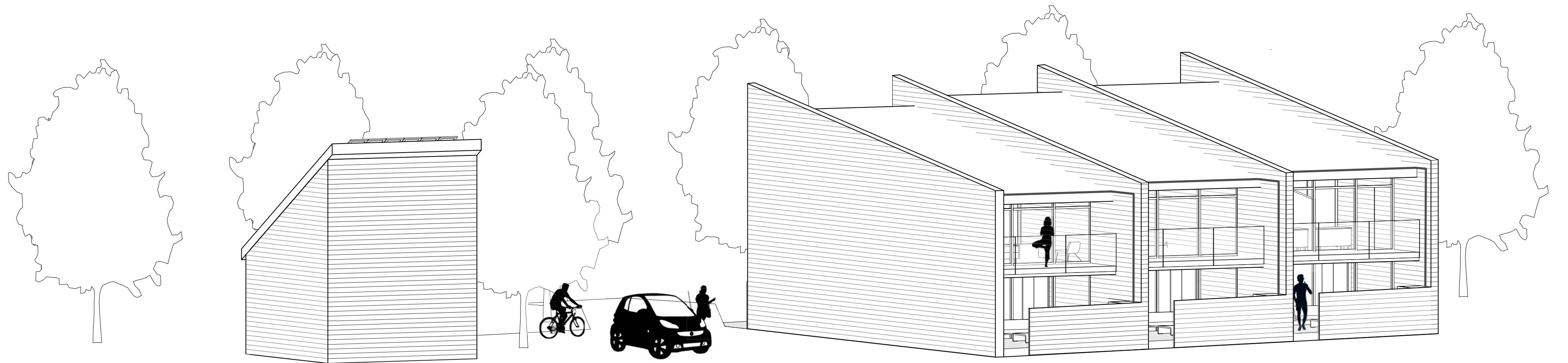
NATURAL VENTILATION



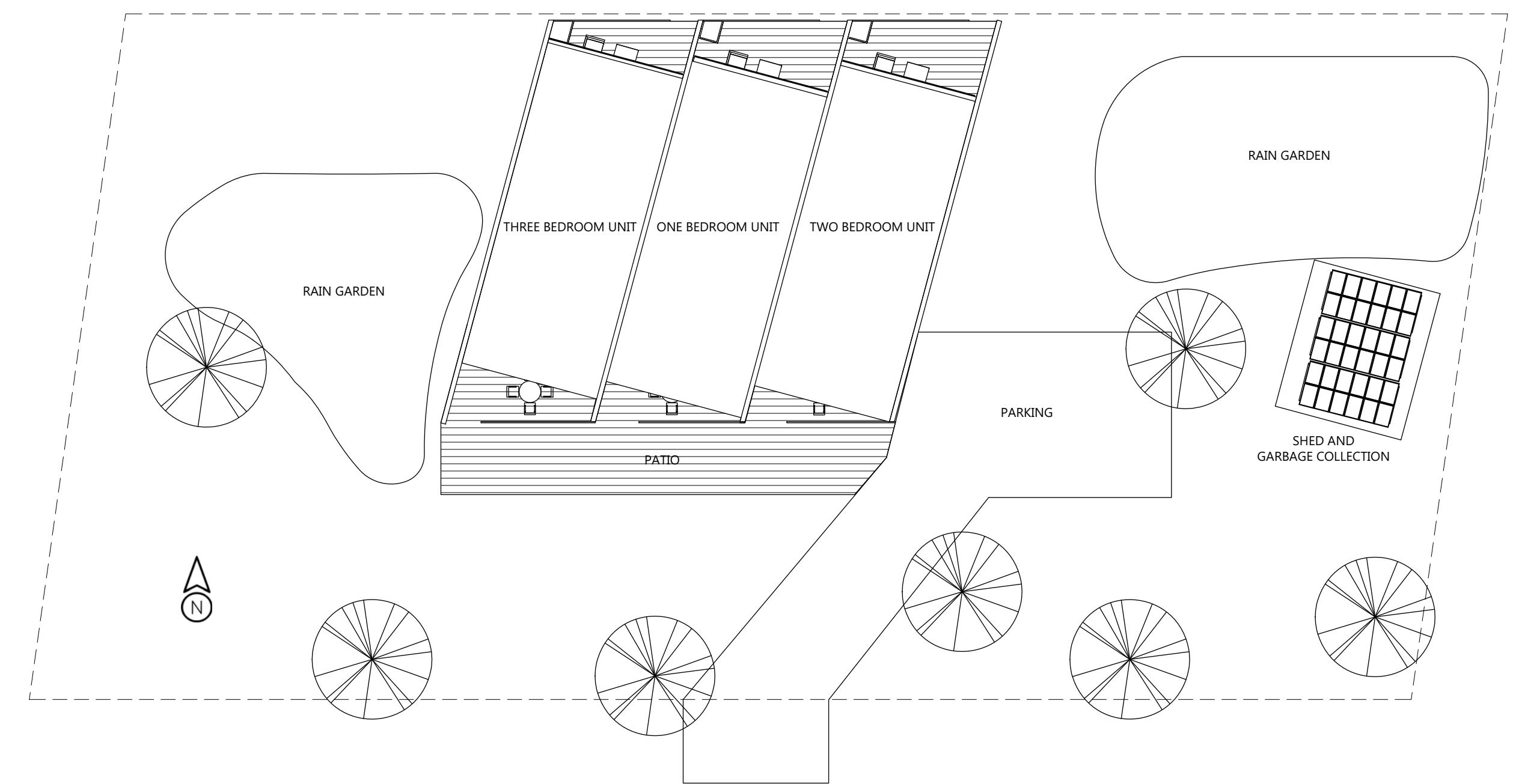
RAINWATER HARVESTING



SOLAR ENERGY



SOUTHWEST VIEW OF BACK EXTERIOR



SITE PLAN 1/16" = 1' 0" SCALE