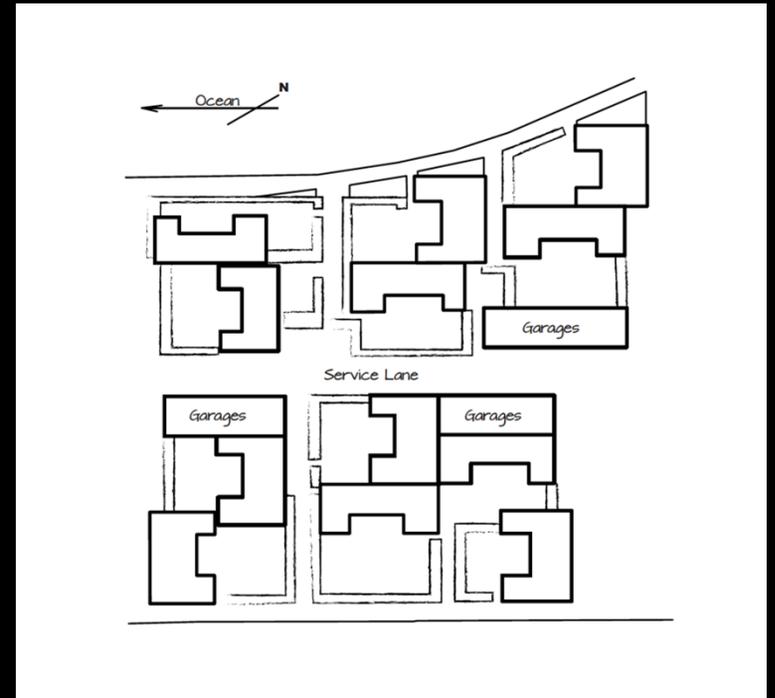


# El Pueblo Ribera Court

Haley Gamble | Eden Cannon | Emma Moseley  
Hollie Sin | Sarah Zheng

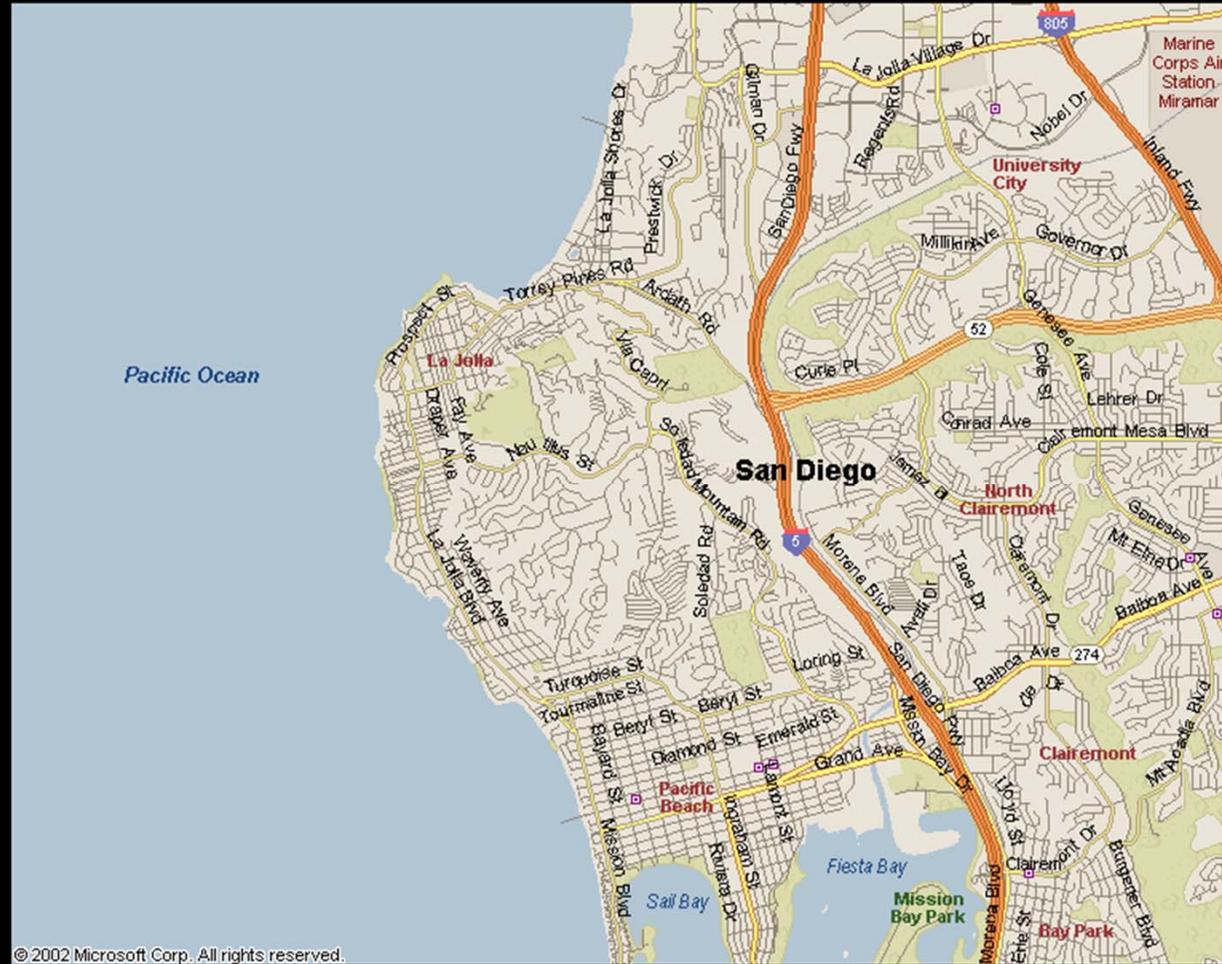
# Introduction



# Location

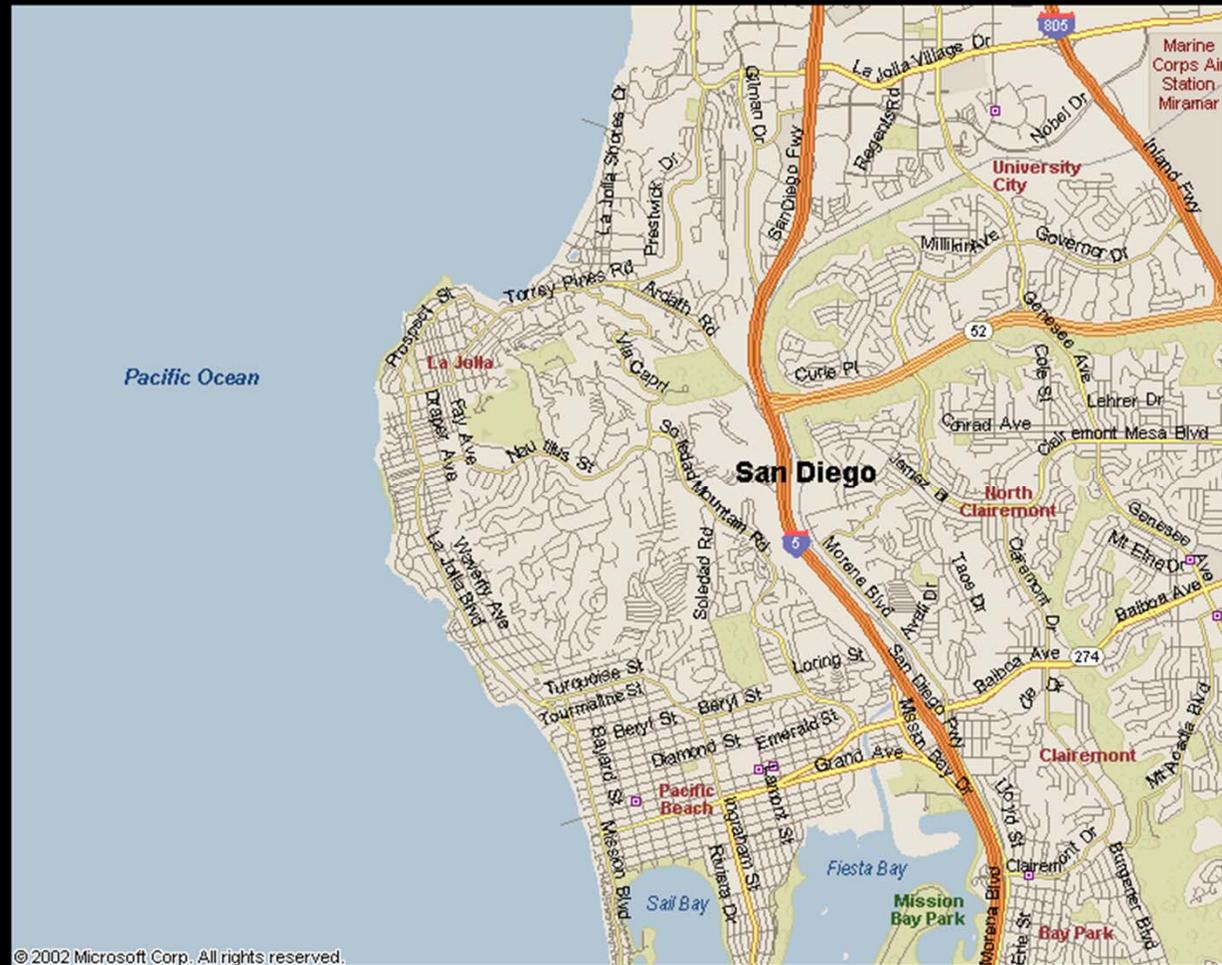
-La Jolla, San Diego  
California

-32.49 degrees  
N, 117.16 degrees W

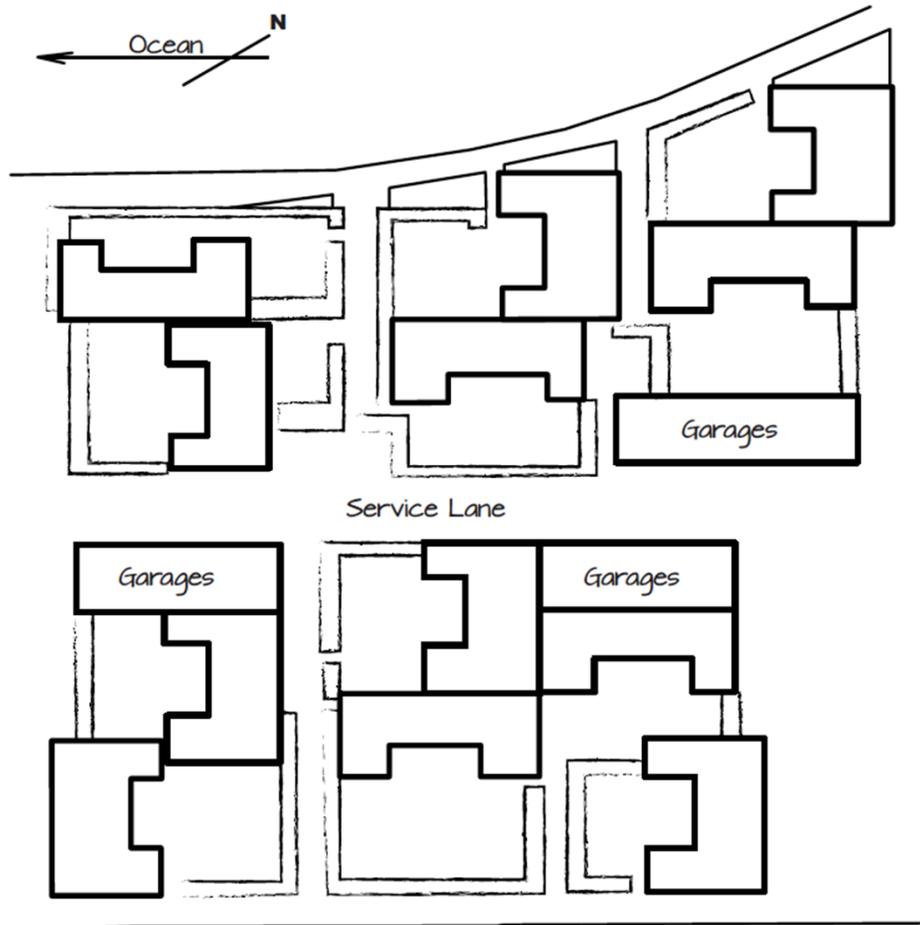


# Climate

- Temperatures range from 49-76 fahrenheit (average low and average high year round)
- Up to two inches of precipitation in February, and as little as 0.1 inches in July

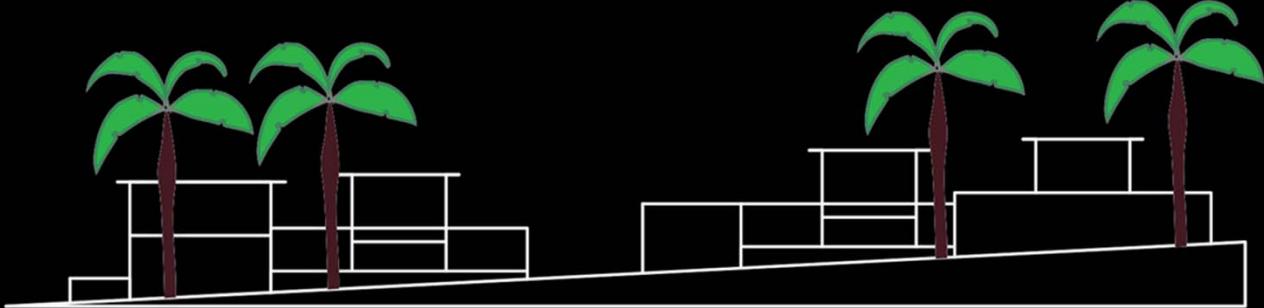


# Site Environmental Conditions



# Site Section

← to ocean



0m 12.5m 25m

## Solar Access

- Site arrangement and low building height designed with intent that sunlight reach every patio
  - Mostly successful excluding units oriented closer to north
- Floor-to-ceiling glazing in front rooms allows them to be lit naturally
- Natural lighting and heating a reasonable option

## Solar Shading

- Solar access is moderately controlled using the overhang into the courtyard
- To better accommodate for the immense sunlight at noon each day, optional features include:
  - Movable Louvers
  - Window coverings/ motorized window coverings
  - Inset Windows
- Each feature reducing reducing heat, cooling and lighting energy

## Sustainability

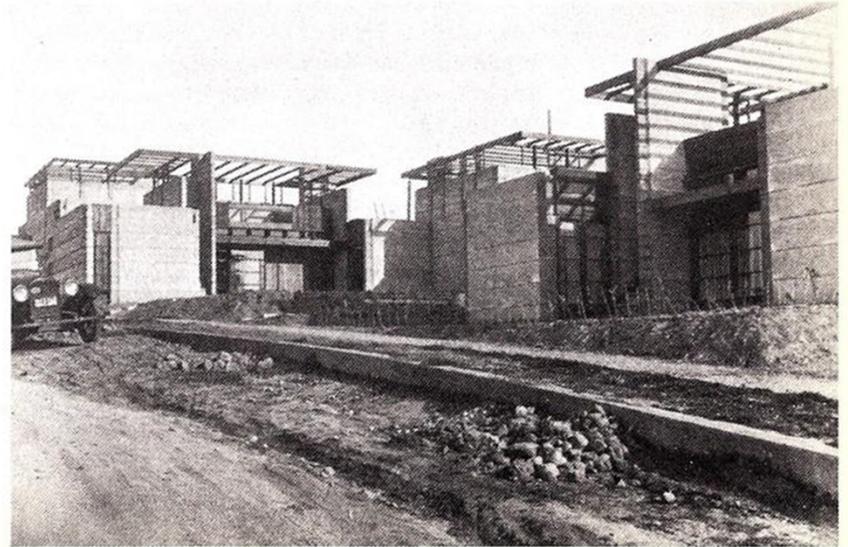
- still standing today, as it was declared a historic site in 1977
- constructed from wood, glass and precast concrete
- relatively low embodied energy (15.9, 2.5 and 2.0 MJ/Kg respectively)
- using precast bricks allows for less formwork and time spent on site
- units are spread out around the site rather than being stacked (increases ecological footprint)

# Unit Environmental Conditions

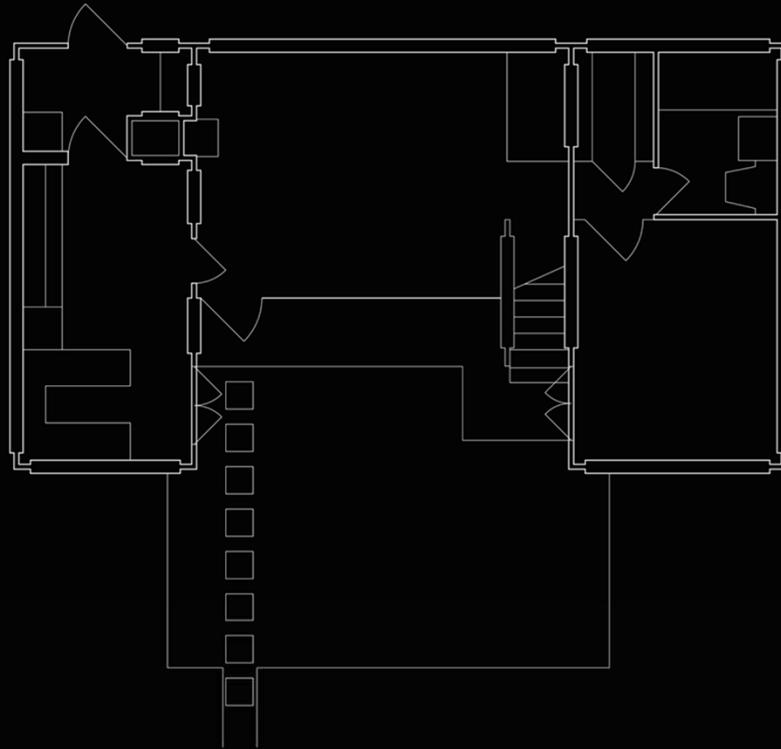
## Individual Units

- Single floor, u-shaped buildings, with private patios
- Solid concrete walls, sliding wood and glass doors, transom windows, wooden roof structure

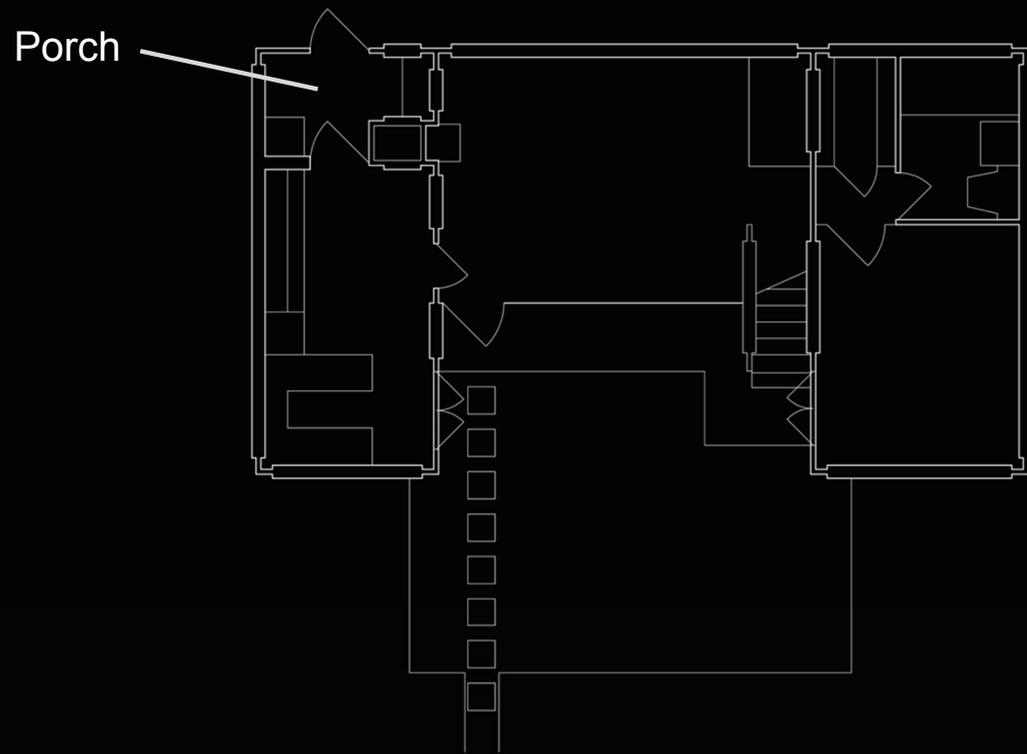
45-47 Pueblo Ribera Court, La Jolla, 1923: opposite, plan; above, construction of concrete walls; below, view along Playa Sur Avenue



# Ground Floor

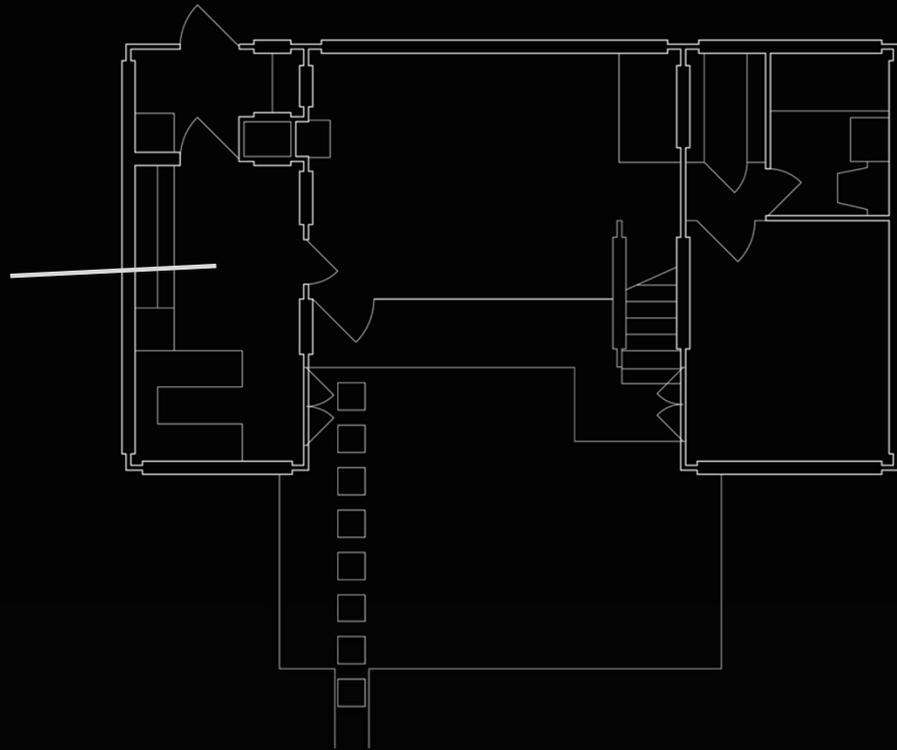


0m 1m 2m 3m 4m

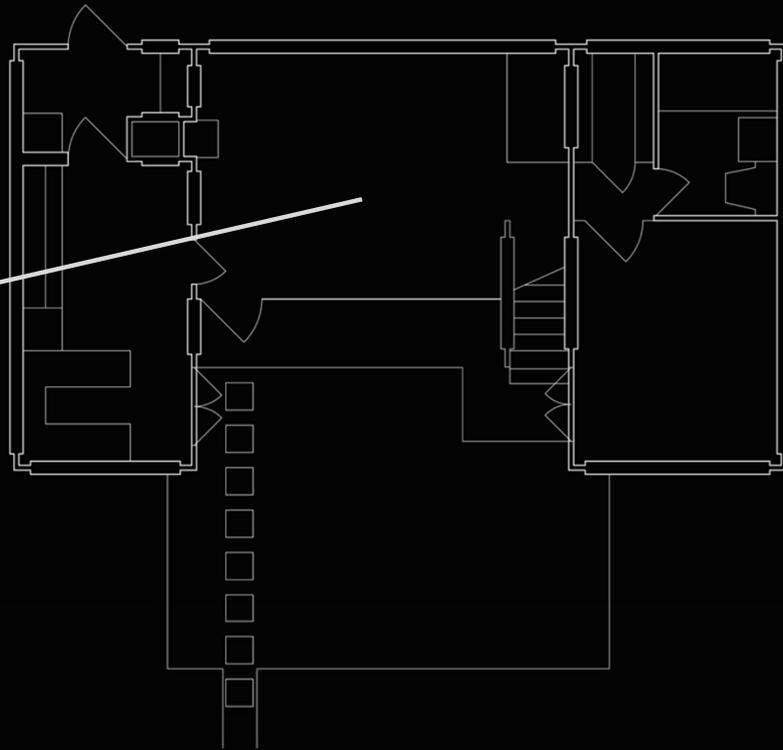


0m 1m 2m 3m 4m

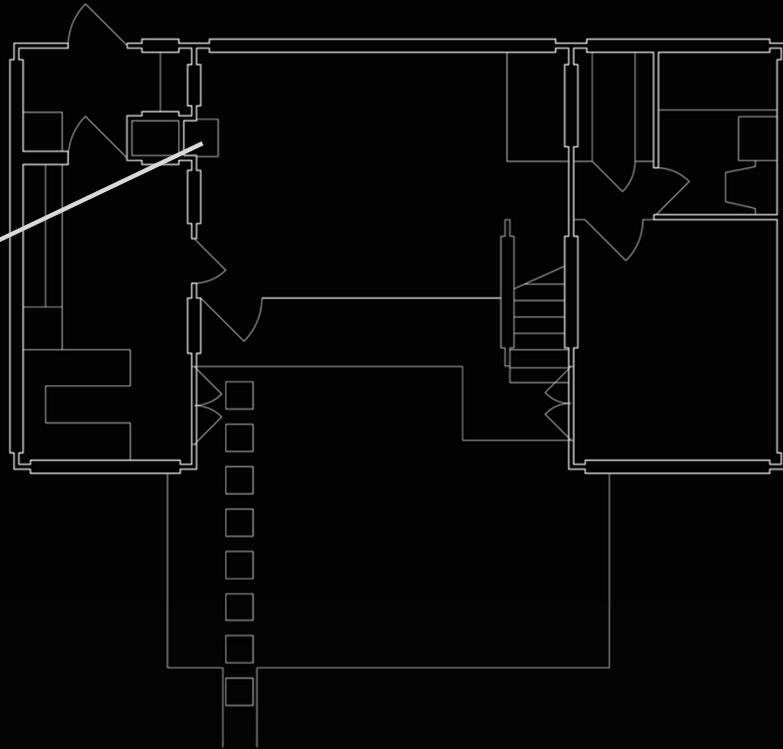
Kitchen

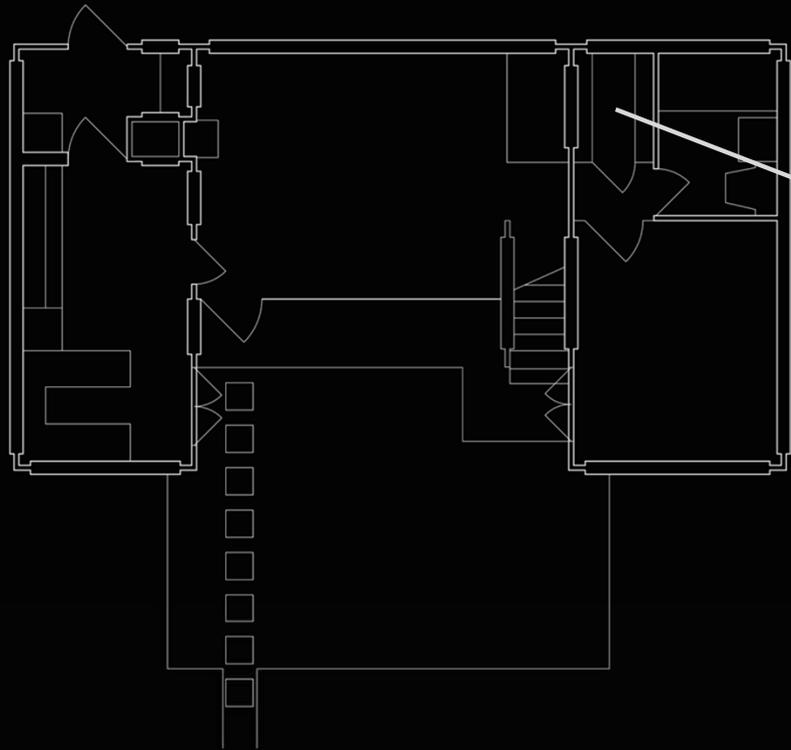


Living Room



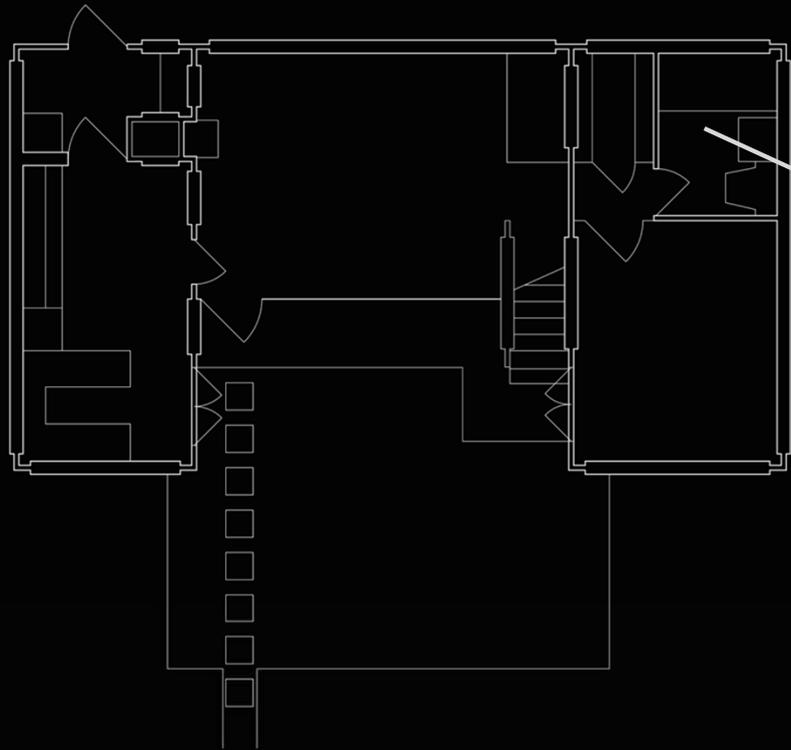
Fireplace





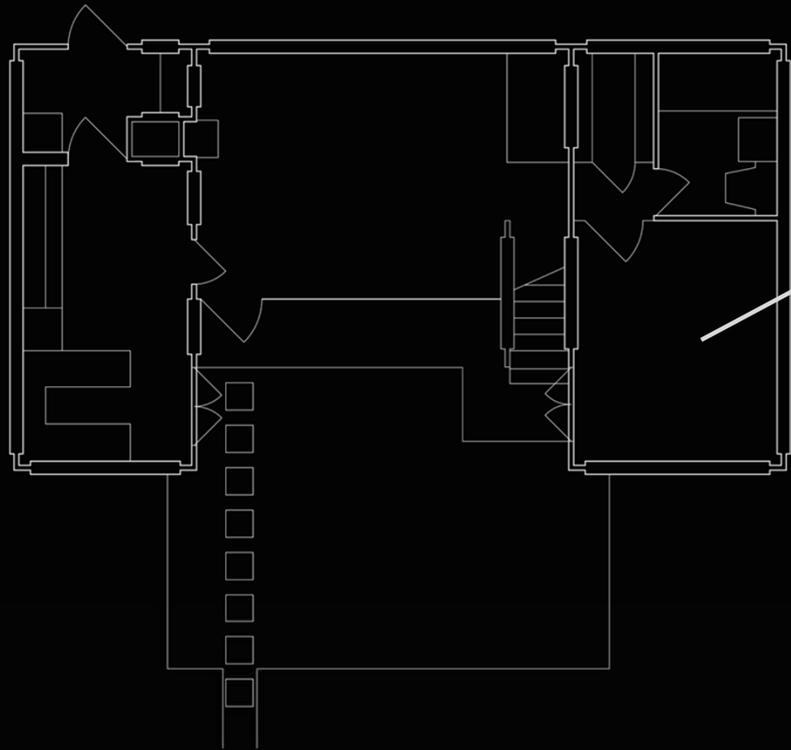
Closet





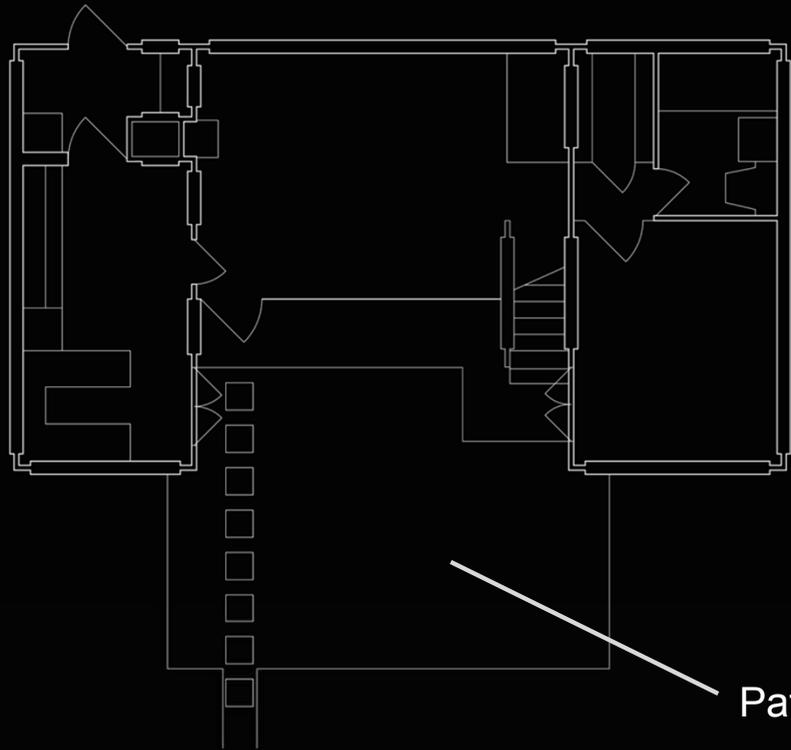
Bathroom





Bedroom

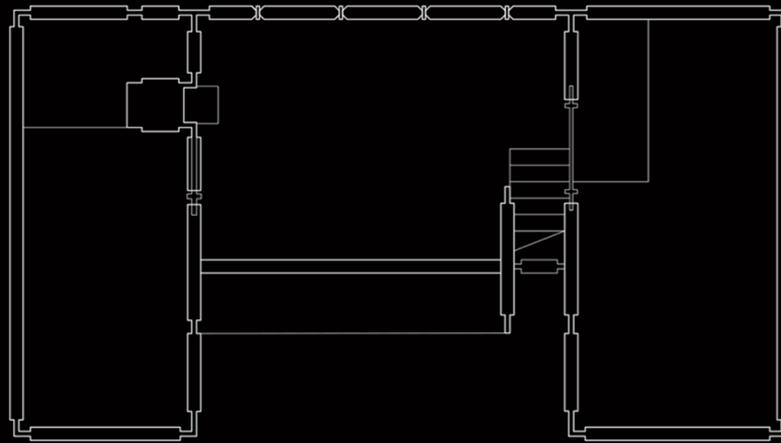
0m 1m 2m 3m 4m

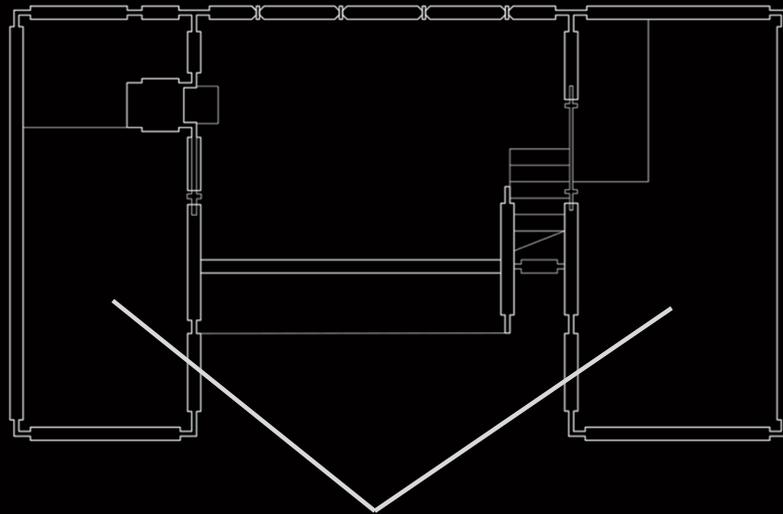


Patio



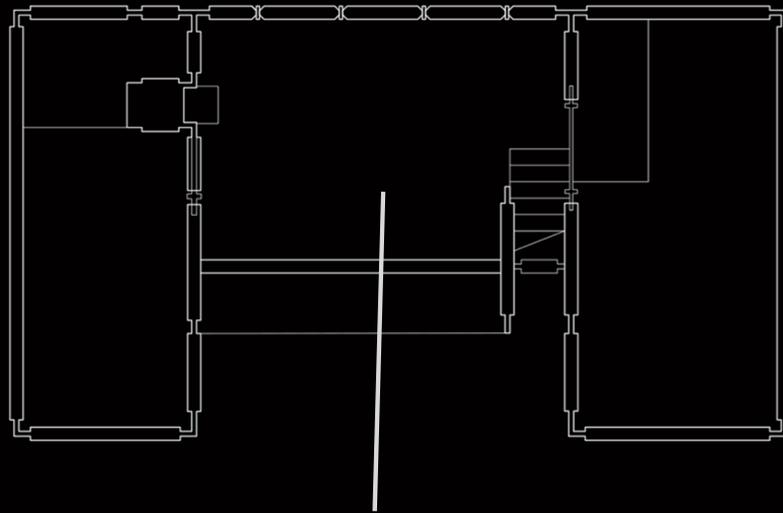
# Upper Level





Roof

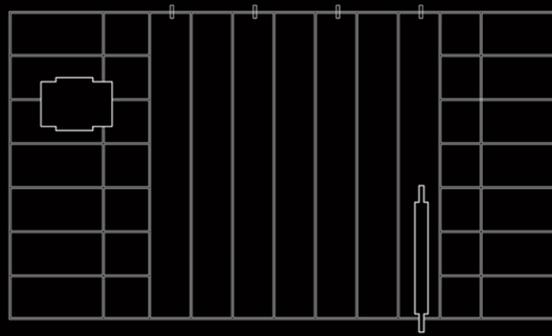




Roof  
Terrace

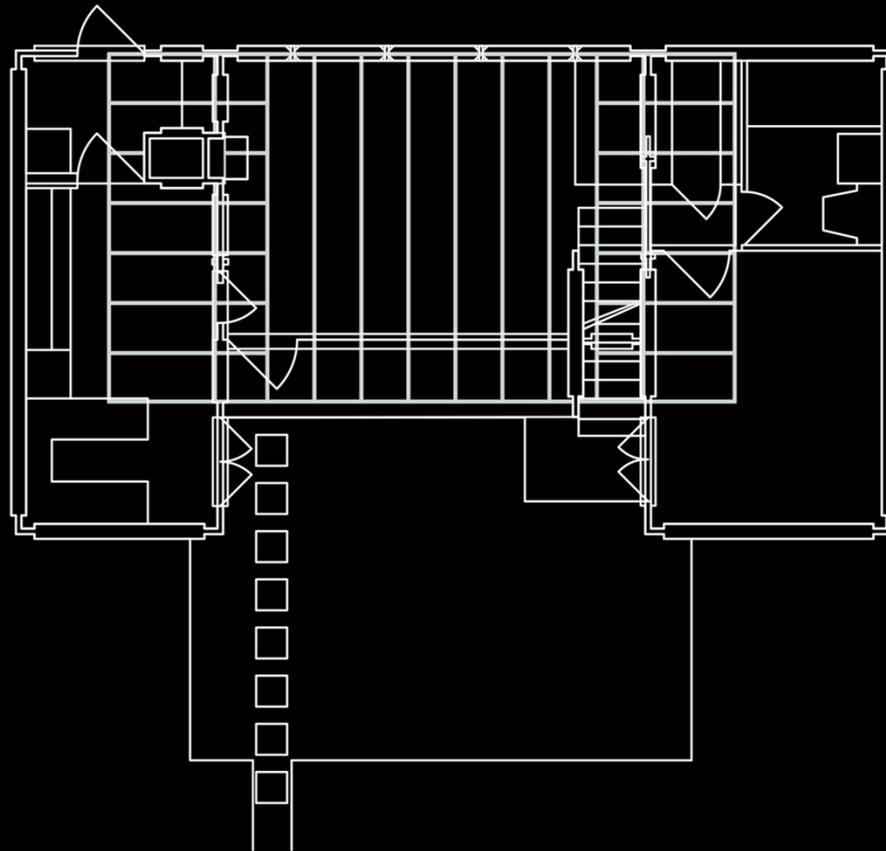


# Pergola



0m 1m 2m 3m 4m

# Superimposed



# Unit Section



0m 1m 2m 3m 4m

## Ventilation

- Narrow buildings, open floor plans and vegetative shading promote natural ventilation
- Steady wind conditions and temperate climate make the site predisposed to wind driven ventilation strategies
- Potential improvements: windows opposite patio sliding doors, ensure all buildings bridge a pressure differential, increase ceiling height

## Sources

1. Sherwood, R. "Modern Housing Prototypes." *El Pueblo Ribera Court.*
2. "Whole Building Design Guide." *Natural Ventilation.*  
<http://www.wbdg.org/resources/naturalventilation.php>
3. "HK Green Building Technology Net." *Natural Ventilation.*  
<http://gbtech.emsd.gov.hk/english/utilize/natural.html>
4. "Measure of Sustainability Embodied Energy." *Canadian Architect.*  
[http://www.canadianarchitect.com/asf/perspectives\\_sustainability/measure\\_of\\_sustainability/measure\\_of\\_sustainability\\_intro.htm](http://www.canadianarchitect.com/asf/perspectives_sustainability/measure_of_sustainability/measure_of_sustainability_intro.htm)

## Photos

1. [http://lab3js.blogspot.ca/2013\\_09\\_01\\_archive.html](http://lab3js.blogspot.ca/2013_09_01_archive.html)
2. [http://www.savewright.org/wright\\_chat/viewtopic.php?p=52984&sid=19f56696880404adb94bab98a6e806f7](http://www.savewright.org/wright_chat/viewtopic.php?p=52984&sid=19f56696880404adb94bab98a6e806f7)