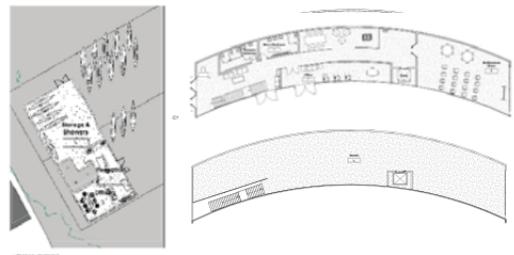
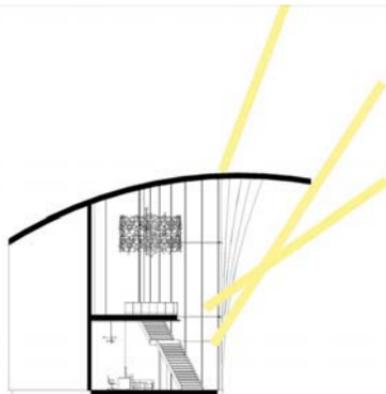


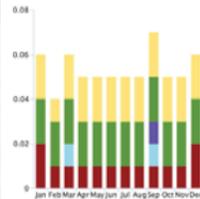
our "Wave Project", we intended to influence the exterior and interior of the building to flow with the naturalistic wavy feel of the bay that is so close to the site. The site, located on the shore of the Romberg Tiburon Center across the bay, looks right out onto a beautiful watery front. From atop a hill within the site, you're able to view a large panoramic view of San Francisco, California, taking in the beautiful San Francisco City landscape as well as the more country and hilly side of California to its left. Taking this into account, we chose to model our building off of the San Francisco Bay Waves, using the wave aspect of the design as a shade structure as well as a beautiful design element that attracts the public. We modelled the entire building off of the Westfield Mall in New York City. We observed how the building made use of the large skeletal spikes coming out of both sides of the building being used as a shade structure, while also using light colors and a large window that sits atop the roof, giving way to large amounts of light. The building had many open areas, including a large open space in the middle that gave way to a large amount of light while also making a really open concept that's welcoming. In addition, we wanted to incorporate a more of a modern, but rustic, feel to the building by having materials such as dark steel, copper, brass, and wood. This represents the rustic but modern aspect of San Francisco (generally SOMA) that's clear to see, and lovely to encounter within the city as well. We also based our sustainable design elements off of the Watsonville Water Resources Center in California that incorporates a large quantity of design elements that would be interesting and useful to add into our design as well. Elements such as a narrow width of the Wave Building with tall windows to allow daylighting and natural heating.



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	Calculated Energy Use (kWh/m ² /year)
HVAC	52 kWh/m ² /year
Lighting	5.88 kWh/m ² /year
Appliances and Plug Loads	6.09 kWh/m ² /year
Domestic Hot Water	51 kWh/m ² /year
Total Building Consumption	25.4 kWh/m ² /year
Total Exhibit Consumption	2 kWh/m ² /year
Gross EUI	25.4 kWh/m ² /year
Renewable Production	15.43 kWh/m ² /year
Net EUI	10.03 kWh/m ² /year



Sustainable Design Elements:

1. Narrow width of building w/ tall windows
2. Allows daylight
3. Mechanical Ventilation
4. Windows allow for natural heating
5. Large overhang roof to allow for shading
6. Concrete flooring to absorb the heat
7. Addition of trees along the staircase and walkways
8. Solar Panels atop roof
- Rain Water Tank

9. A lot of greenery to accommodate CO₂

