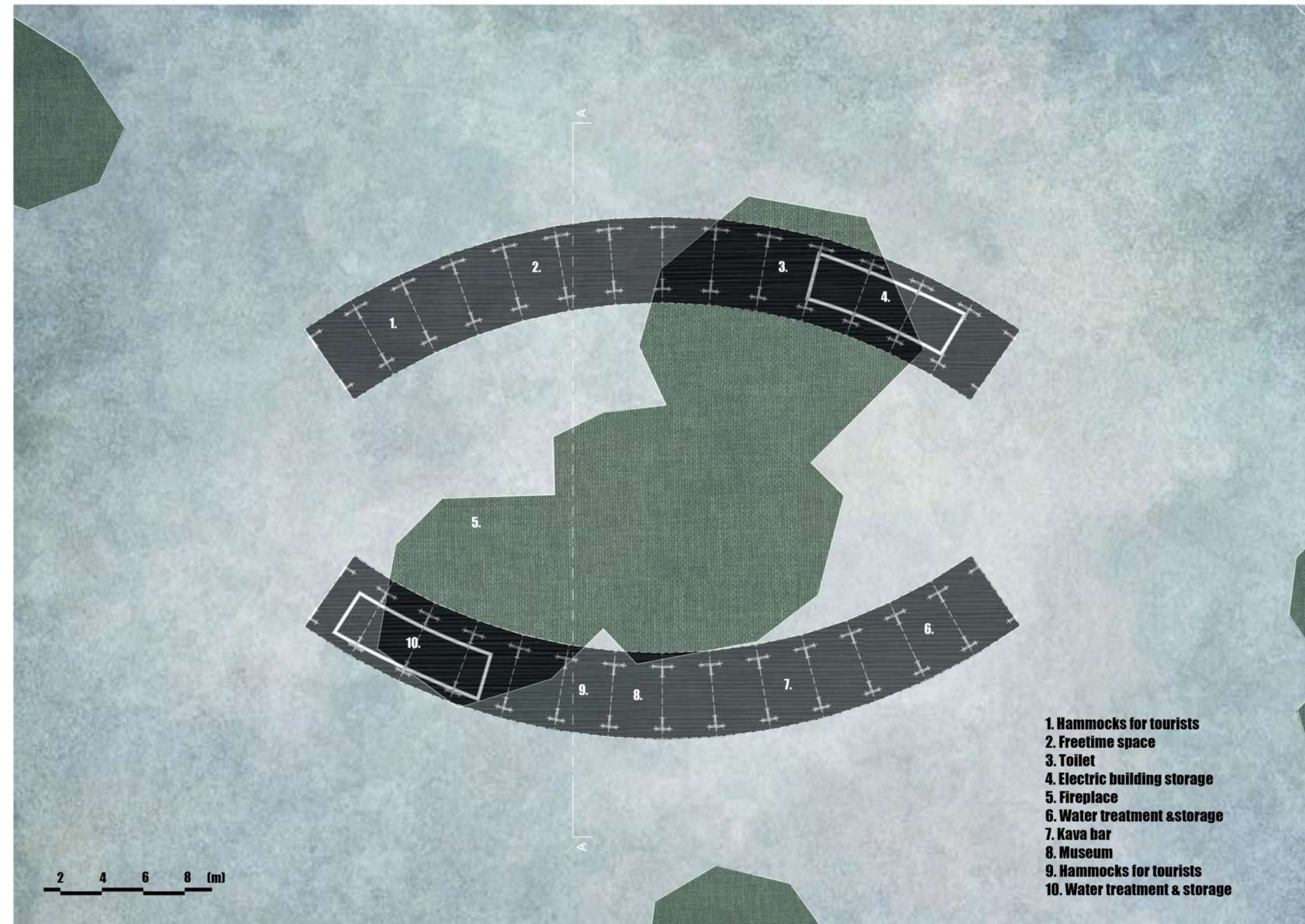


LAGI 2025

The Eye of FIJI



The need for installing solar panels and collecting water made an impact on the design process as well. We wanted a structure to be sustainable, light and friendly. We chose bamboo for the main structural elements, the roof could be metal sheets, as for the foundation we decided on ground screws. All these materials are easy to manufacture, ship and construct. The spooler panels can be installed on the roof, the angle of the roof is optimal for it. We followed the answer in the Q&A, which said 400 square meters of solar panels should be enough for the design. Our installation generates approximately 86,000 kWh of electricity per year using solar panels installed on 300 square meters of roof. It also collects up to 750,000 liters of rainwater annually, which is treated and stored for use in drinking, sanitation, and facility operations. The system inputs are sunlight, rainfall, and human activity, while its outputs are electricity, treated water and organic waste. These resources support key functions such as the Kava bar, museum, water treatment area, and tourist facilities.