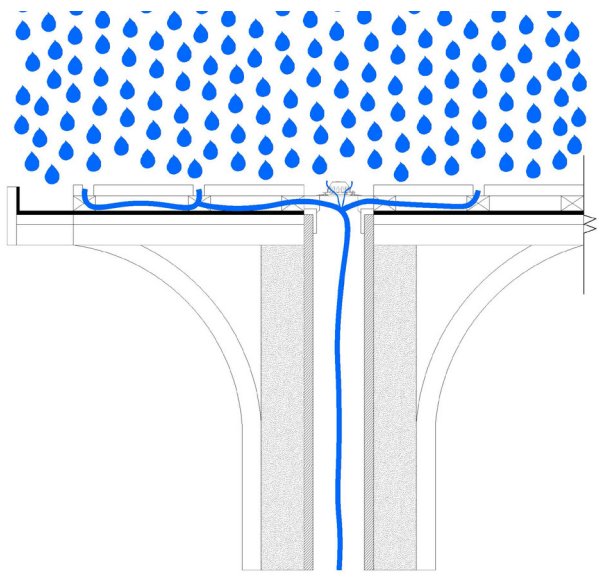
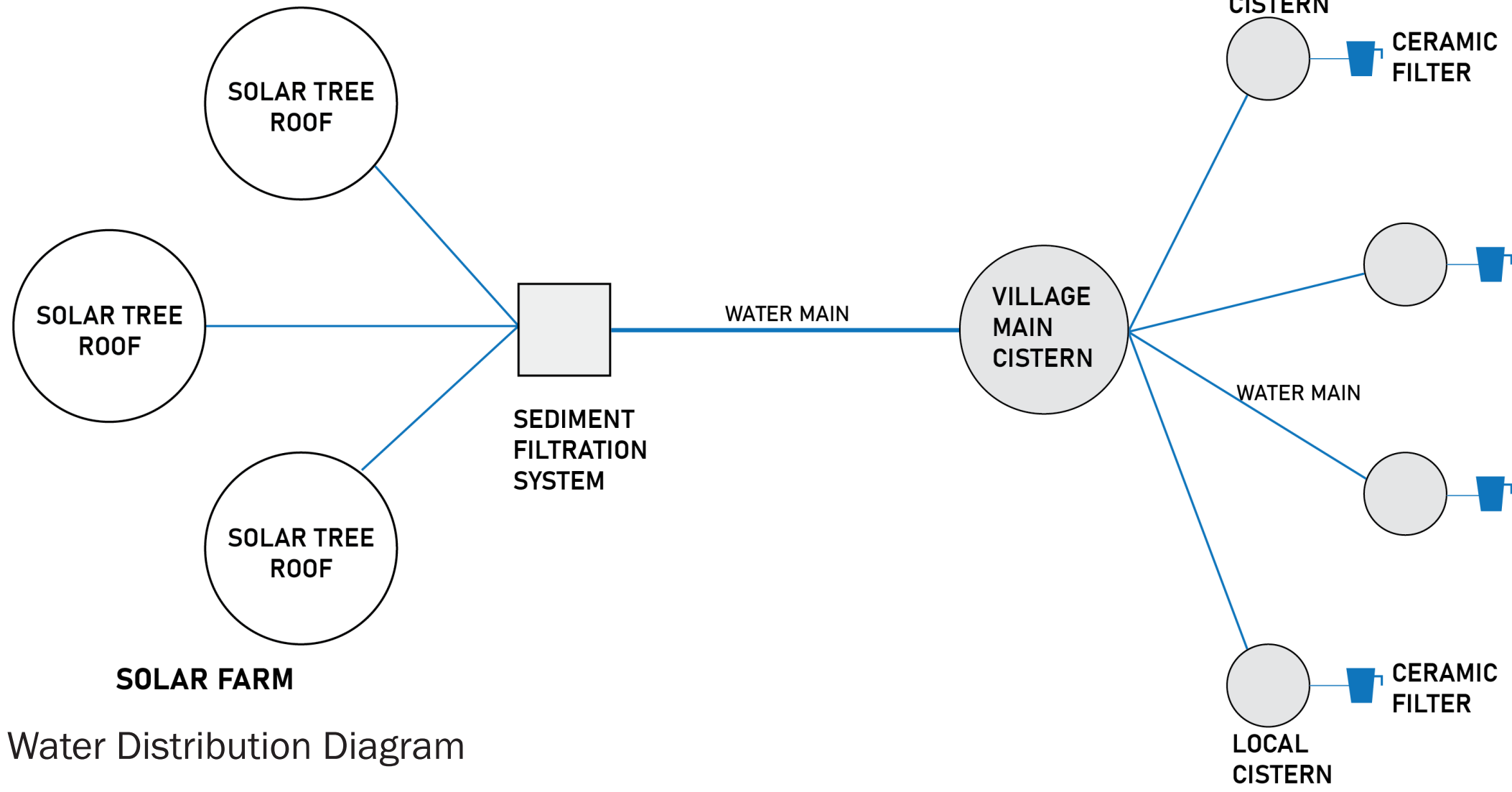


# Rainwater Collection

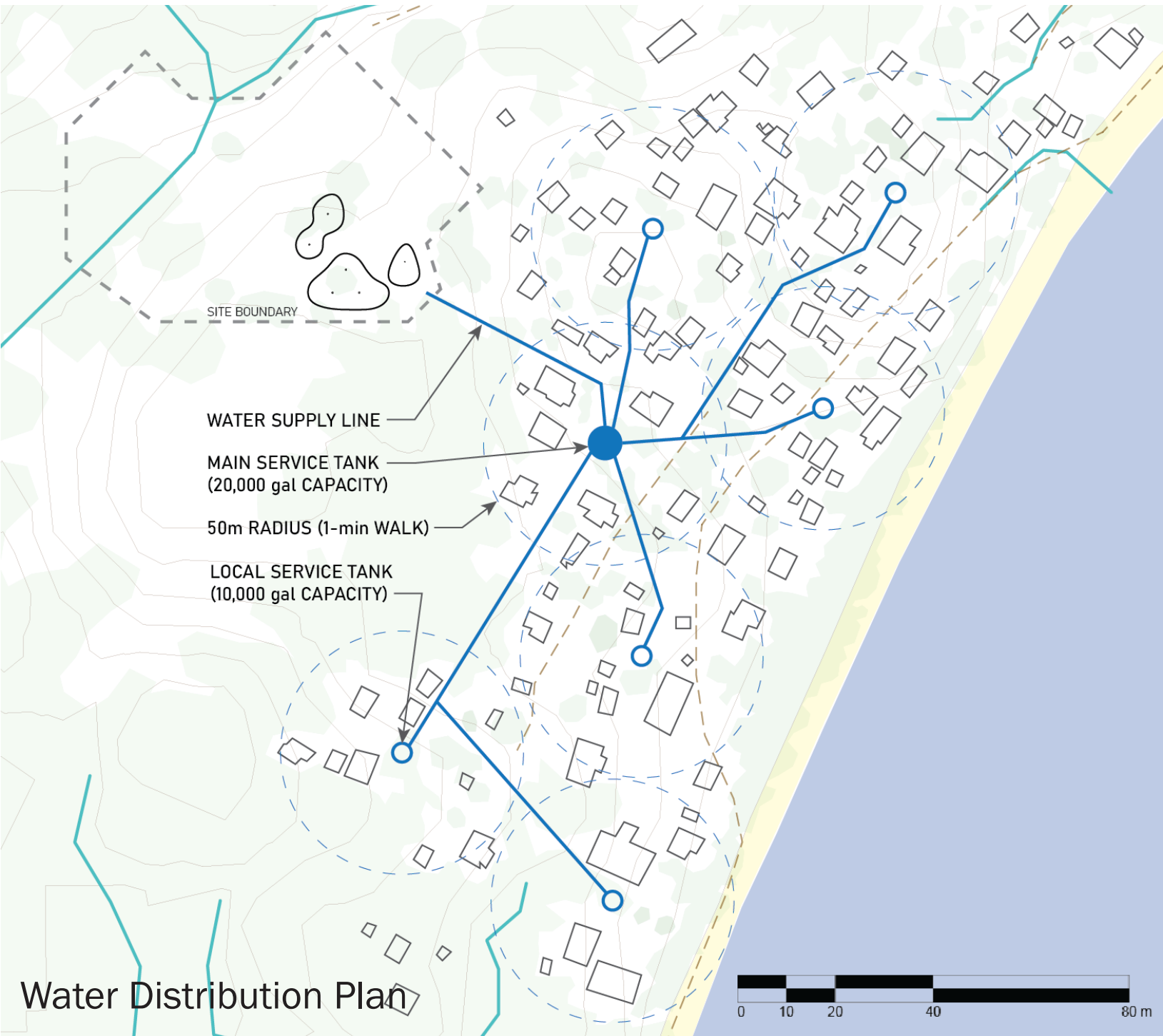
The decentralized rainwater distribution system extends beyond the site, aiming to provide residents with easy access to water and ensure uninterrupted service to the village. Water collected from the Solar Farm will initially pass through an on-site sediment filtration system before moving to the village's main cistern. From there, it will be distributed to smaller, localized service cisterns strategically placed throughout the village to ensure most residents are within 50 meters (a one-minute walk) of a water source. Each local cistern will be equipped with a ceramic filter, providing residents with clean water for domestic consumption.



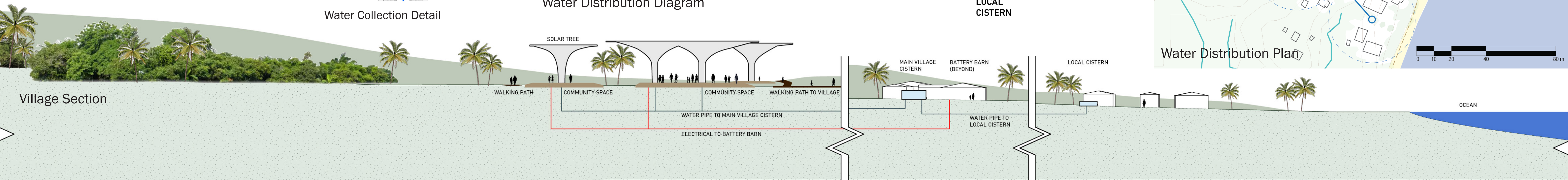
Water Collection Detail



Water Distribution Diagram



Water Distribution Plan



Village Section

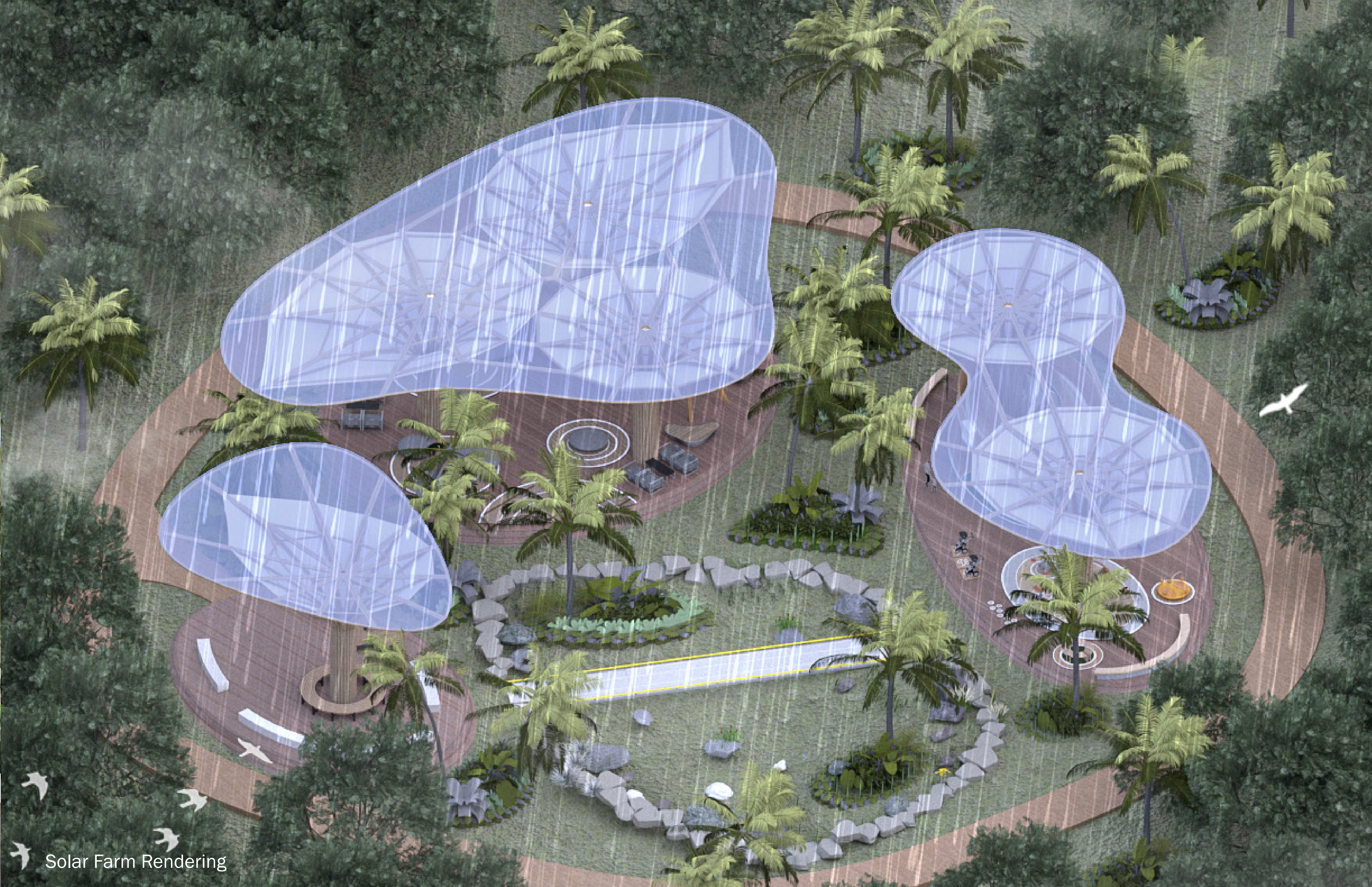
Month	Precipitation (mm)	volume (m³)
1	343	264.8
2	292	225.4
3	341	263.3
4	160	123.5
5	89	68.7
6	65	50.2
7	45	34.7
8	65	50.2
9	70	54.0
10	102	78.7
11	132	101.9
12	178	137.4
Year	1882	1452.9

The Solar Farm is projected to harvest 1453M<sup>3</sup> of rainwater annually. As the precipitation in Fiji varies drastically during the course of a year, the seasonal variation of harvested rainwater is pronounced (See the Table). It is the highest in the wet months (January through March), and lowest in the dry months (May through September). The monthly average is 121M<sup>3</sup>. The disparity of seasonal rainfall requires large capacity cisterns so that rainwater harvested in the wet season could be carried over for extended periods for use in the dry season.

Water Collection Data



Solar Farm Rendering



Solar Farm Rendering