Fly Ranch is located in the north of Nevada, with unstable rainfall throughout the year. It is divided into dry areas according to the U.S. climate classification, known for high air humidity, large temperature difference between day and night, and strong solar radiation. Based on the climate information, we designed a kind of water collection and shelter device that can switch between day and night. According to the UOM, we planned a new hiking route and direct location for the site. From the morphological analysis, the plan shape of the device originates from the dream catcher net in the local Indus culture. Taking the allegory of capturing the beautiful things in the air at the time of day and night, combining with the Indus feather culture, the plan shape is three-dimensional. From the functional analysis, the device is opened like an umbrella in the daytime, which has the effect of sunlight and ventilation. At the same time, the opened umbrella is composed of solar panels and network structures alternately, collecting rainwater and solar energy in the morning and harvesting them in the evening. The power supply device transformed by solar energy switches its form and lights at night. The device is closed like a tent at night, which plays the role of providing rest for passengers. Looking up from the tent, it is like being covered by a huge dream catcher net, bringing the blessing of capturing dreams.

How dream catcher weaves

2D to 3D