

overall perspective view of the site

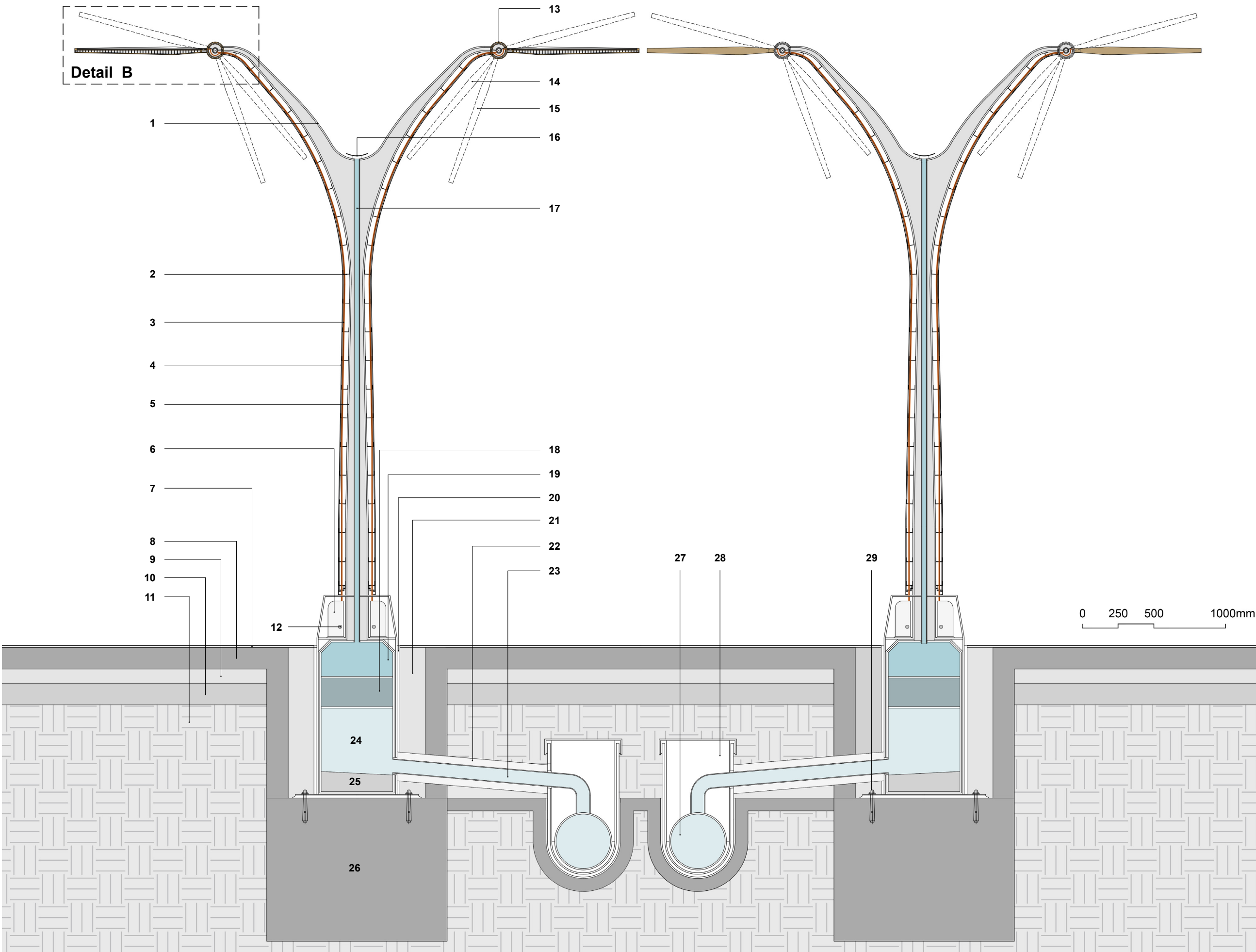


view toward the dance studio



1. Stainless Steel Rainwater Collector with Nano Coating
2. Aluminum Cladding Fixing
3. Electric Wire
4. Aluminum Cladding with White Color Coating
5. Stainless Steel Structure
6. Distribution Box
7. a. Top Coating Layer(permeable polyurethane coating)
b. Permeable Surface Layer(Permeable polyurethane)
c. Permeable Cushion Layer(EPDM rubber granules)
d. Primer Layer(Permeable polyurethane primer)
8. Permeable Paving Layer(permeable concrete)
9. Crushed Stone Base Layer(Permeable crushed aggregate)
10. Subgrade Stabilization Layer(Compacted soil mixed with sand)
11. Existing Soil Layer
12. Electric Wire Cable
13. Rotatable Aluminum Round Tube
14. 'a' type / (-130 to +15) Degree Rotatable Panel
15. 'b' type / (-110 to +15) Degree Rotatable Panel
16. Rainwater Outlet
17. 40mm diameter Waterpipe
18. Secondary Water Filter
19. Primary Water Filter
20. Perimeter Sealant
21. Cement Filling
22. Insulation Foam and Epoxy Coating
23. 100mm diameter Waterpipe
24. Filtered Water
25. Inclined Screed Layer
26. Concrete Foundation
27. 400mm diameter Waterpipe
28. Protective Stainless Steel Container
29. Bolting

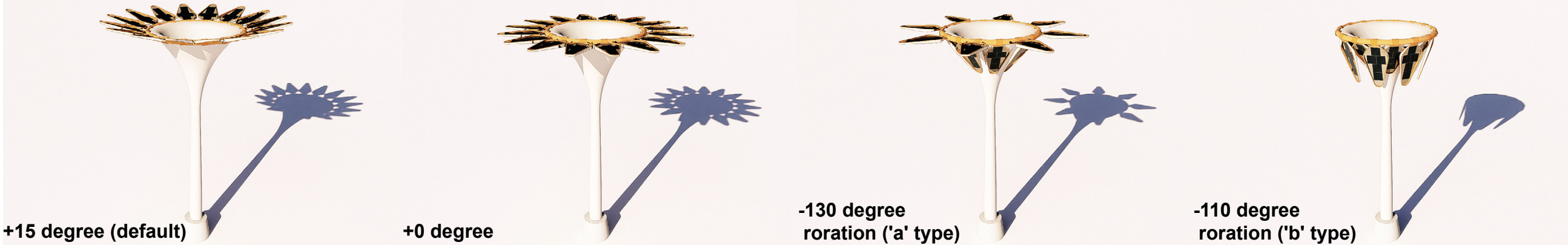
Section A



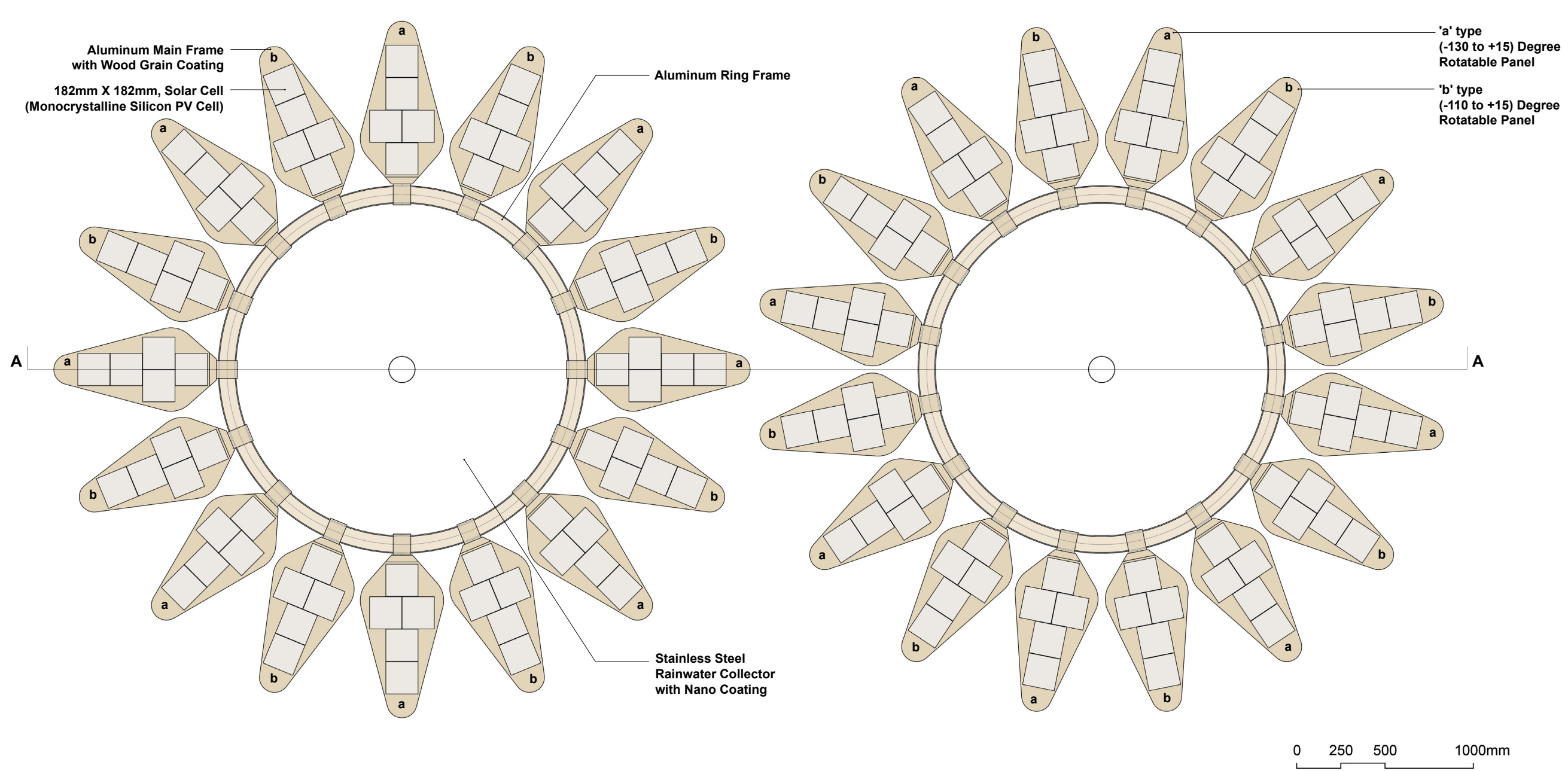
Prototyping and Pilot Implementation Statement

The prototyping and pilot implementation for the cultural amusement park center on flower-shaped sunshade modules integrating monocrystalline silicon PV panels and rainwater harvesting systems, completed within 5 months. Prototyping involves building a single module to test energy (138 MWh annually for 169 modules) and potable water (226,181 liters) performance, maintaining the original design as intended, and is finalized within 2 months. The pilot phase deploys 10–20 modules in a park section for 3 months to assess scalability and reliability, using IoT sensors for monitoring and training local residents in installation and maintenance. The community collaborates through an advisory group during prototyping to align cultural elements and participates in the pilot phase via school programs, job creation, and cultural events, ensuring the park reflects sustainability and community needs.

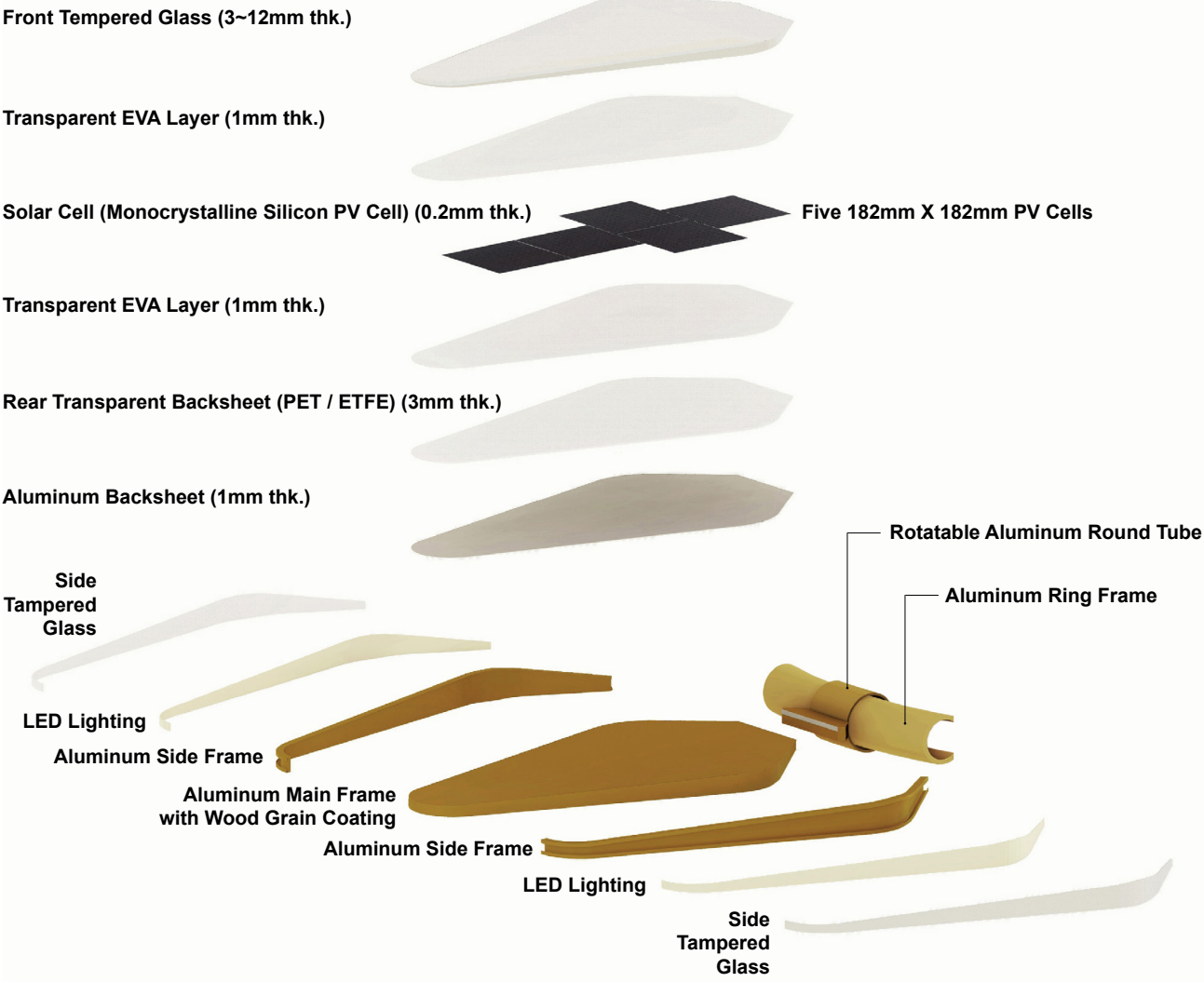
Transformation of Flower-Shaped PV Panels



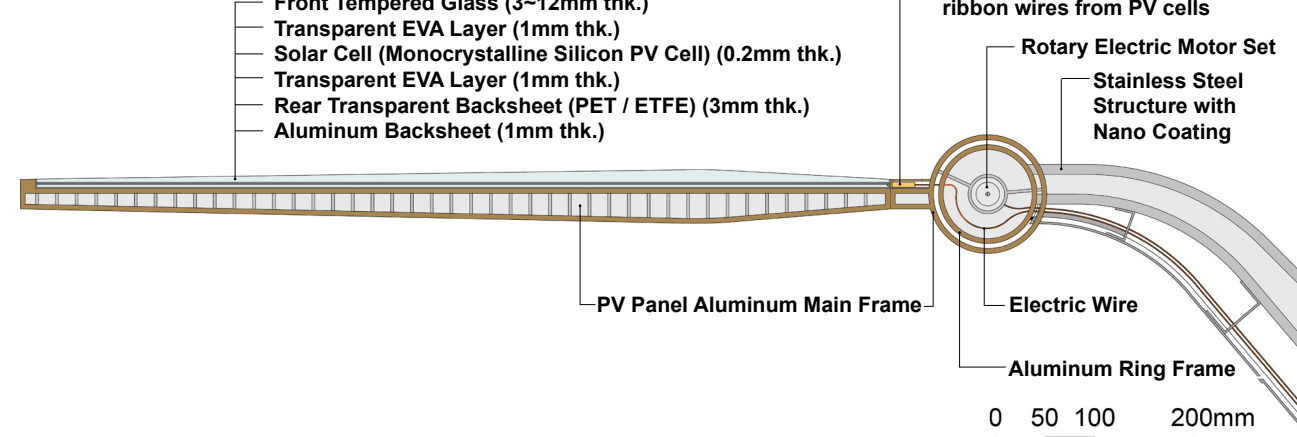
Top Plan



Components of PV panel



Detail B



night view enhanced by lighting

