

ASWAN · EGYPT

RE:MNANT

The Aswan High Dam stopped the Nile flood in 1970. With it went the only germination trigger five native riparian species on Salsiga Island ever had and the natural snail control that kept Bilharzia out of Aswan's irrigation canals. Remnant puts the flood back: five stone basins staggered by elevation across the island's granite, each flooding for the exact duration its species needs, feeding a linear production chain that sends seedlings, seed stock, and fodder downstream by felucca, no mechanical systems, no grid connection, only topography and a notch in a wall. Remain. Return. Regenerate.



Inside: Chopping, Packaging and storing process, seed extraction, packaging and storing in underground vaults.

Propagator Bins for seed production, germination and storage, with a perforated roof, minimizing direct sunlight.

Scenario 2: Flood gate operation during the water table. Internal permeability with a perforated roof, water level raised to control the water table.

Scenario 1: High water table operation during the flood. Internal permeability with a perforated roof, water level raised to control the water table.

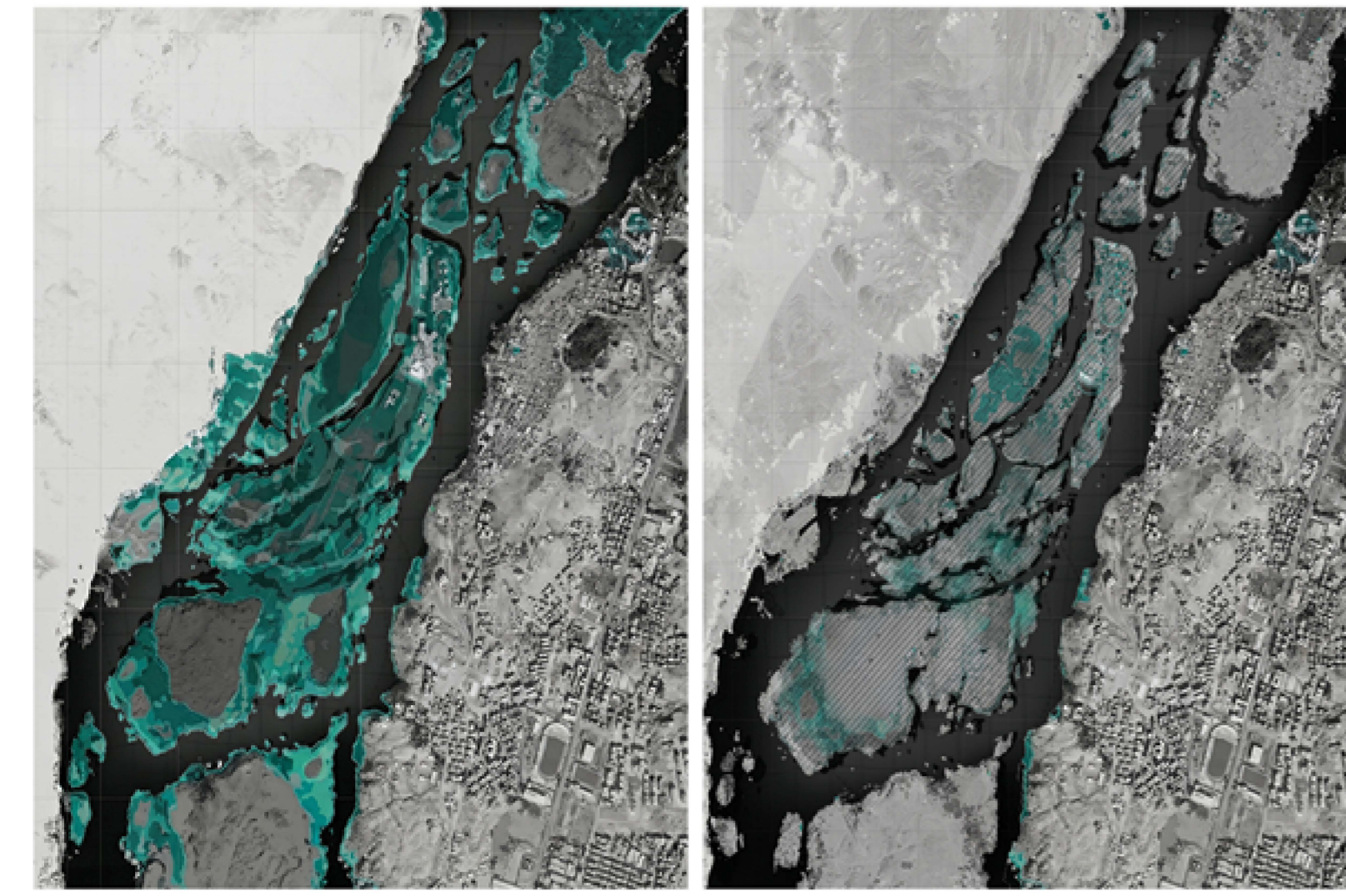
Variable flow rate of water holes with sedimentation and elevate soil quality.

Internally perforated basins: River level flooding the basin, increasing water percentage in soil, perfect for seed germination.

Floating deck, works in both scenarios, helps with the harvesting and replanting of the endangered species.

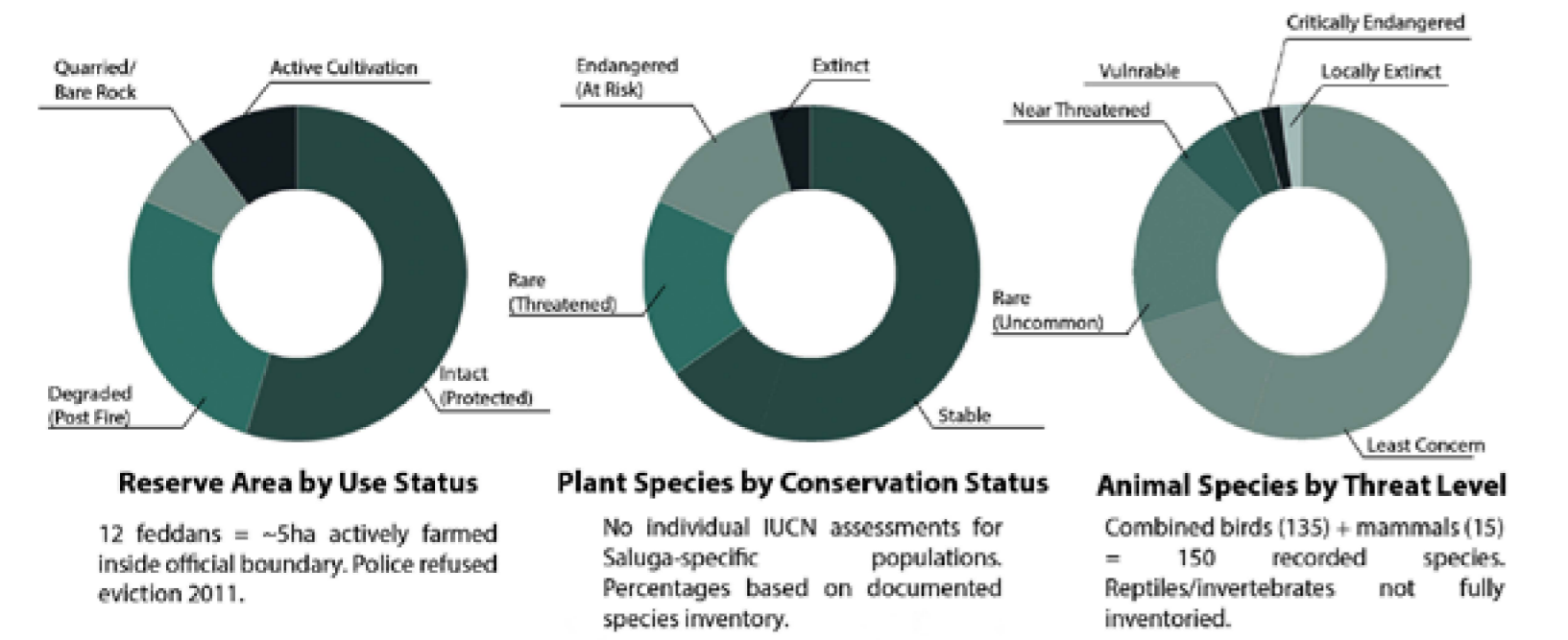
PROBLEM STATEMENT

The last Nile Valley gallery forest in Egypt, just 0.5 km², now stands unmonitored, understaffed, burned, and encroached upon, its key species already gone; its collapse is not local but systemic, driven by the Aswan High Dam's end of the Nile flood that once sustained all regeneration, leaving decades of stagnation in an arid region with no natural recovery, what remains is an isolated, unprotected fragment, one disturbance away from permanent loss.

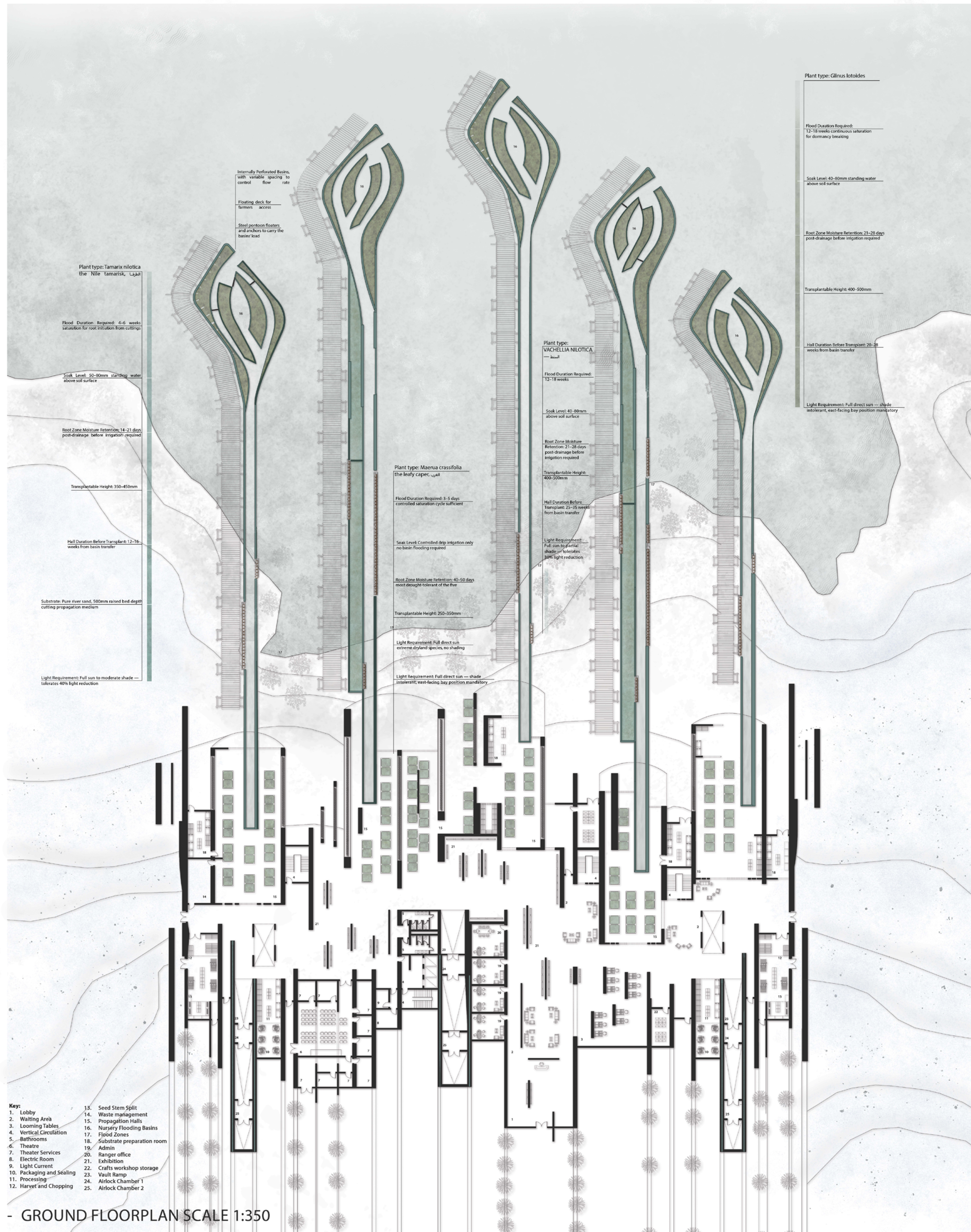
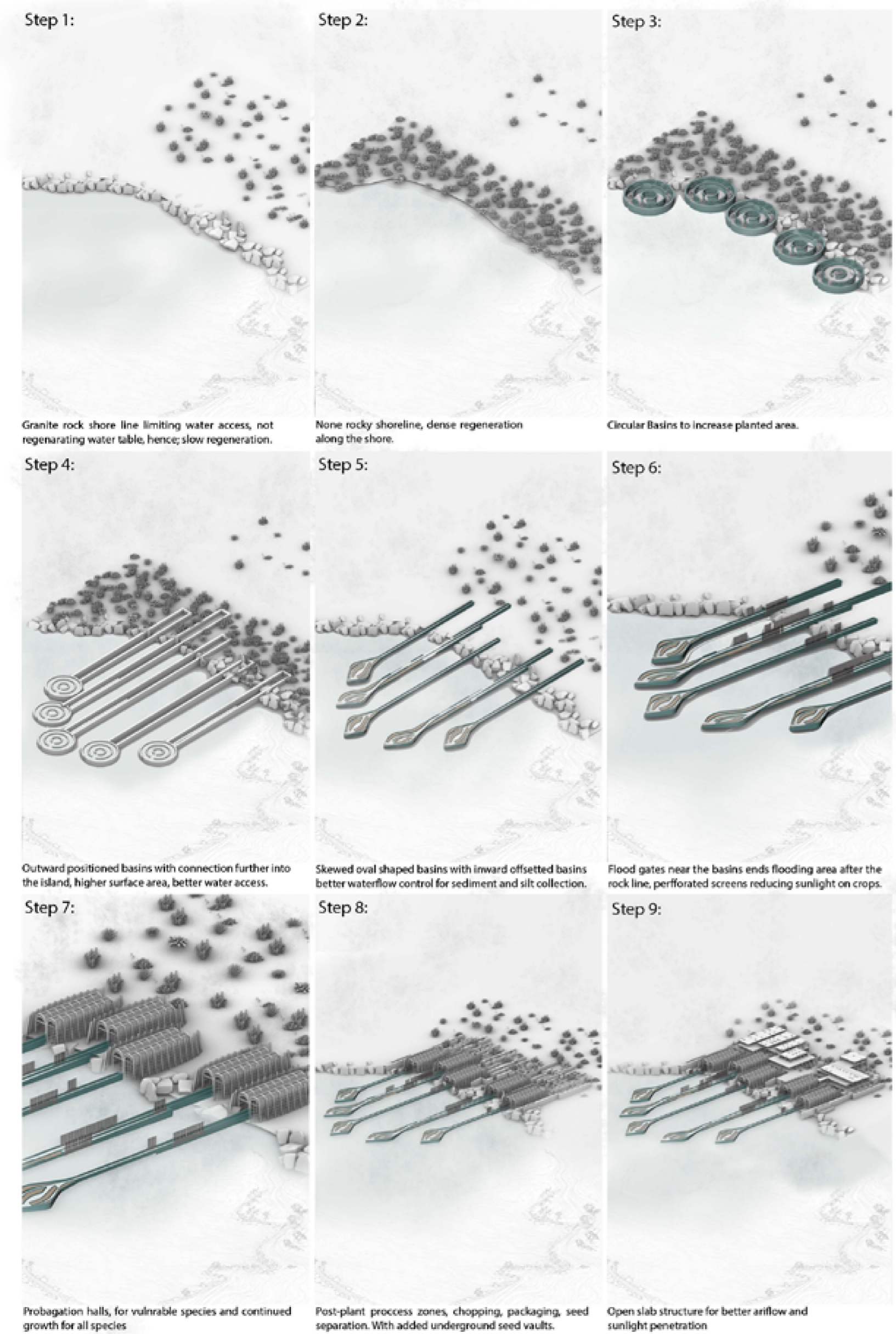


Vegetation Drop
 Silt and Sediments Absence
 Base stage up until 2009 with all plants still maintaining regular reproduction. Current state is suffering a whopping 65% loss in total vegetation leaving some species endangered.

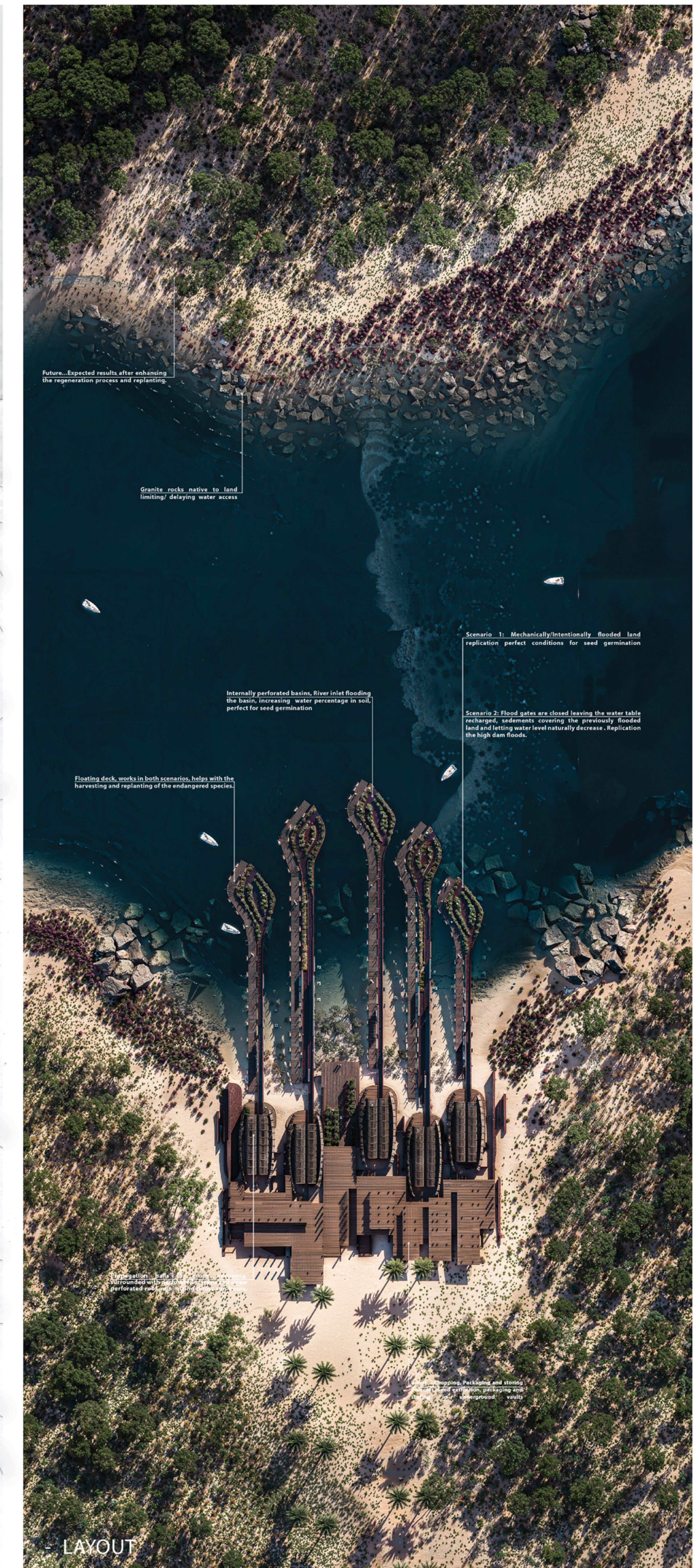
CURRENT SITUATION



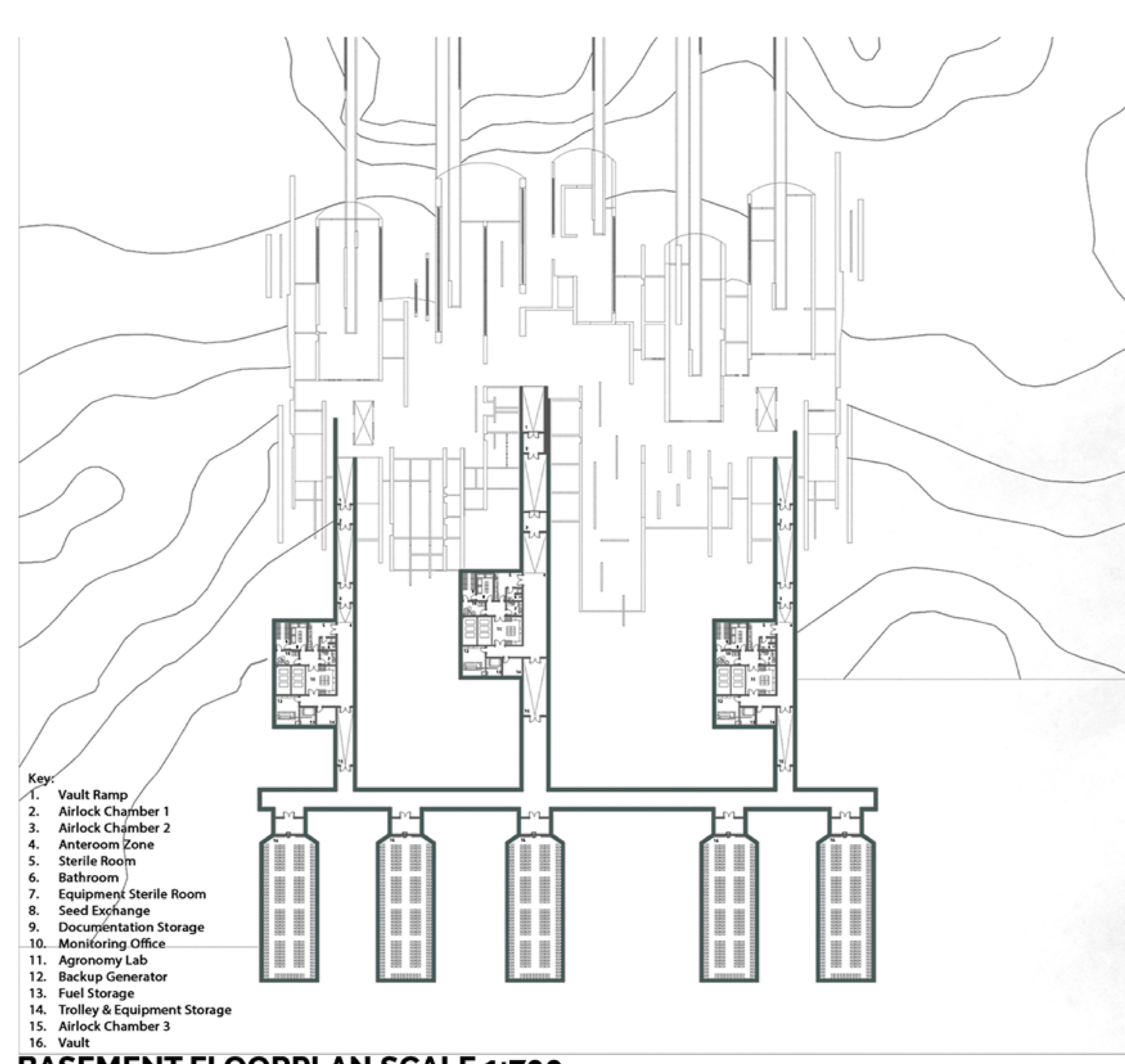
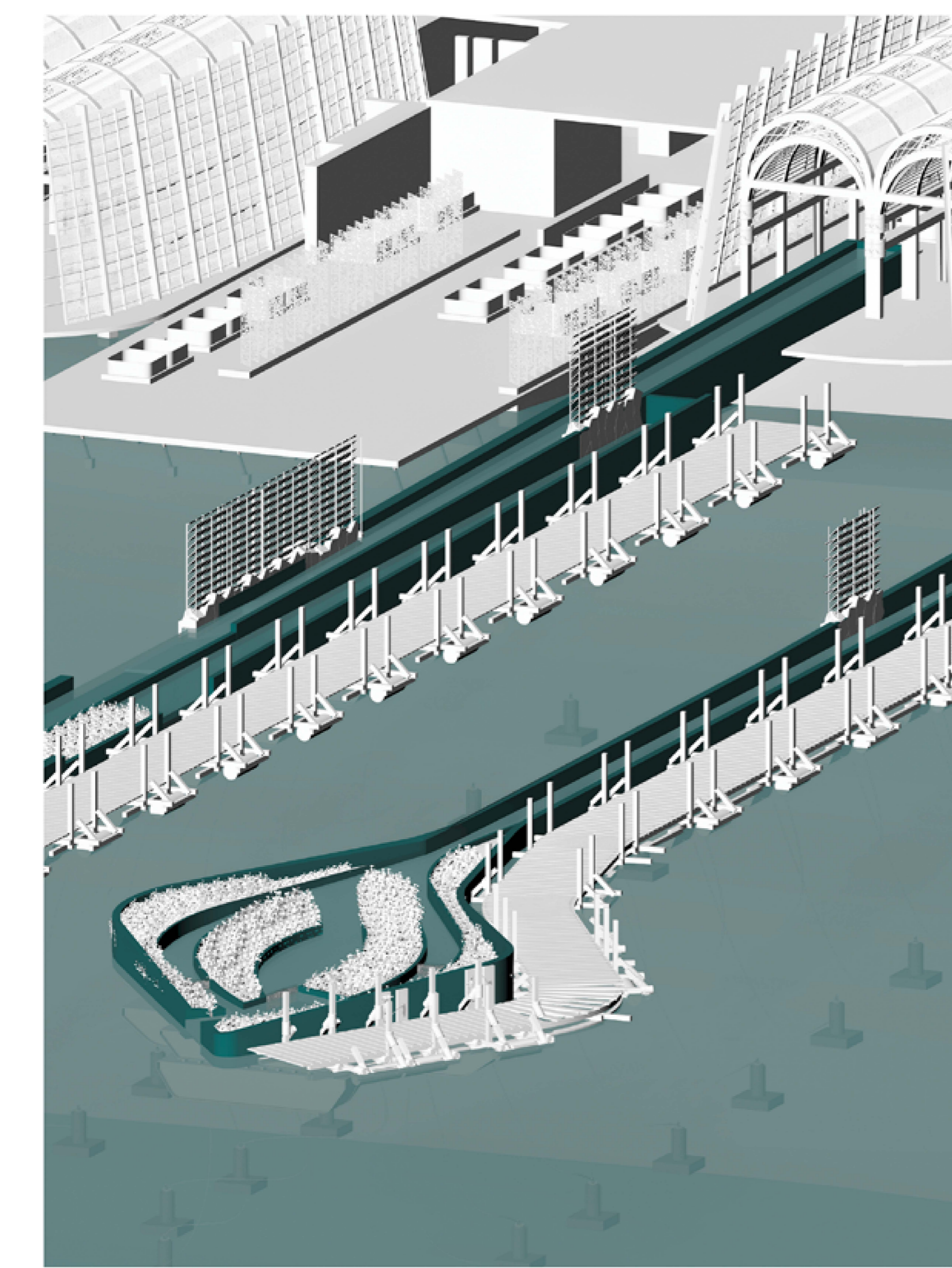
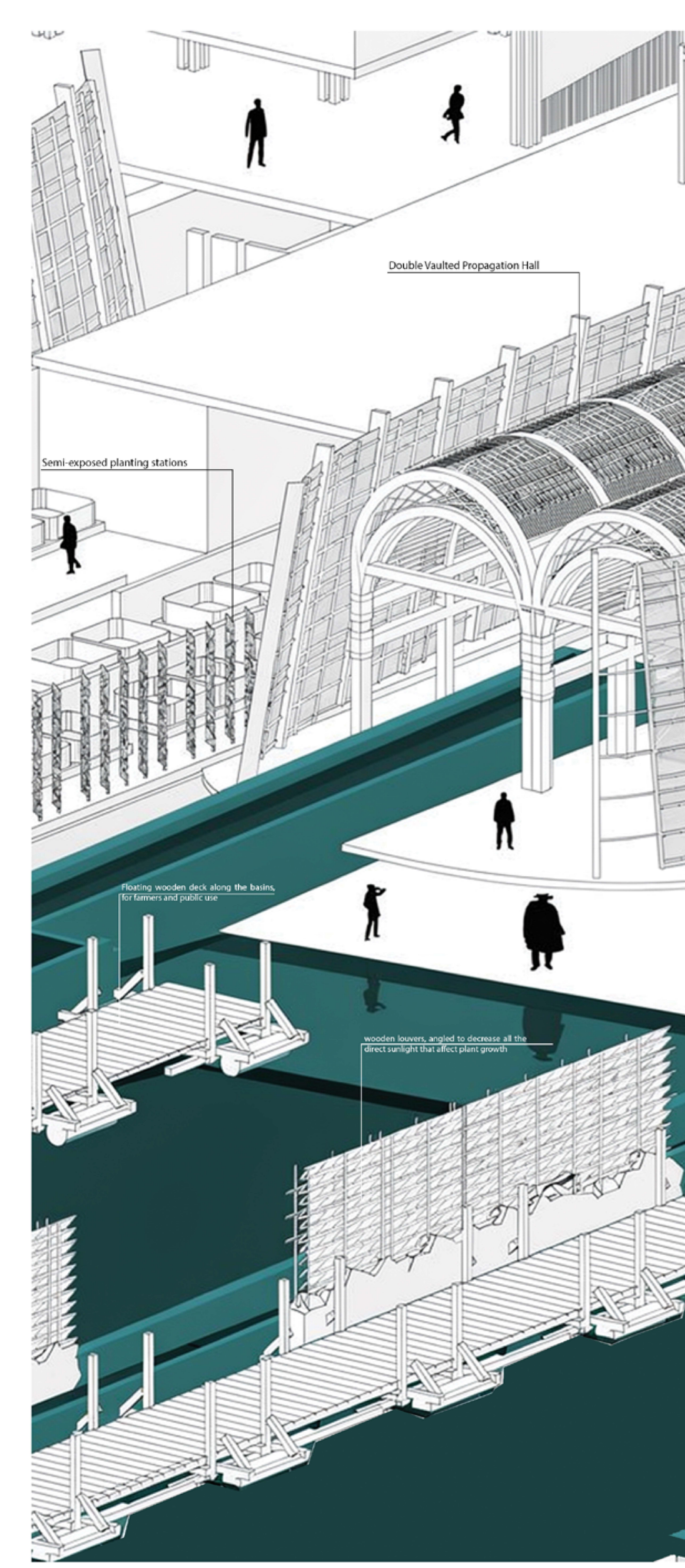
SOLUTION & FORM GENERATION



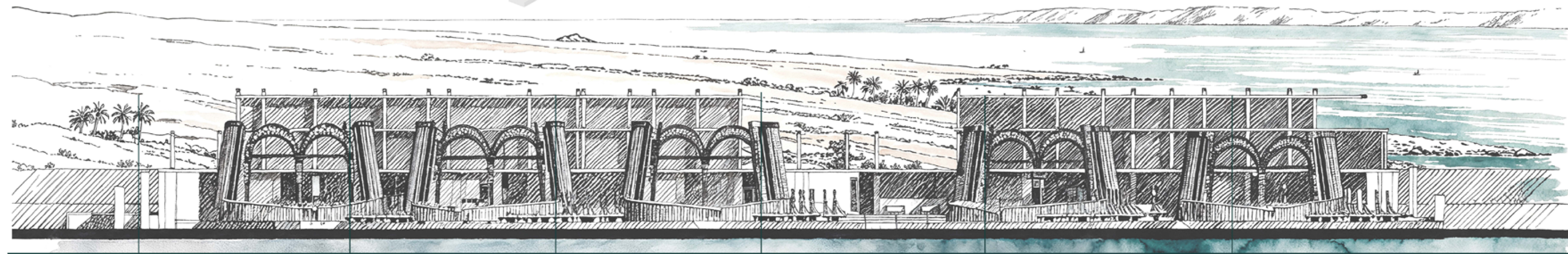
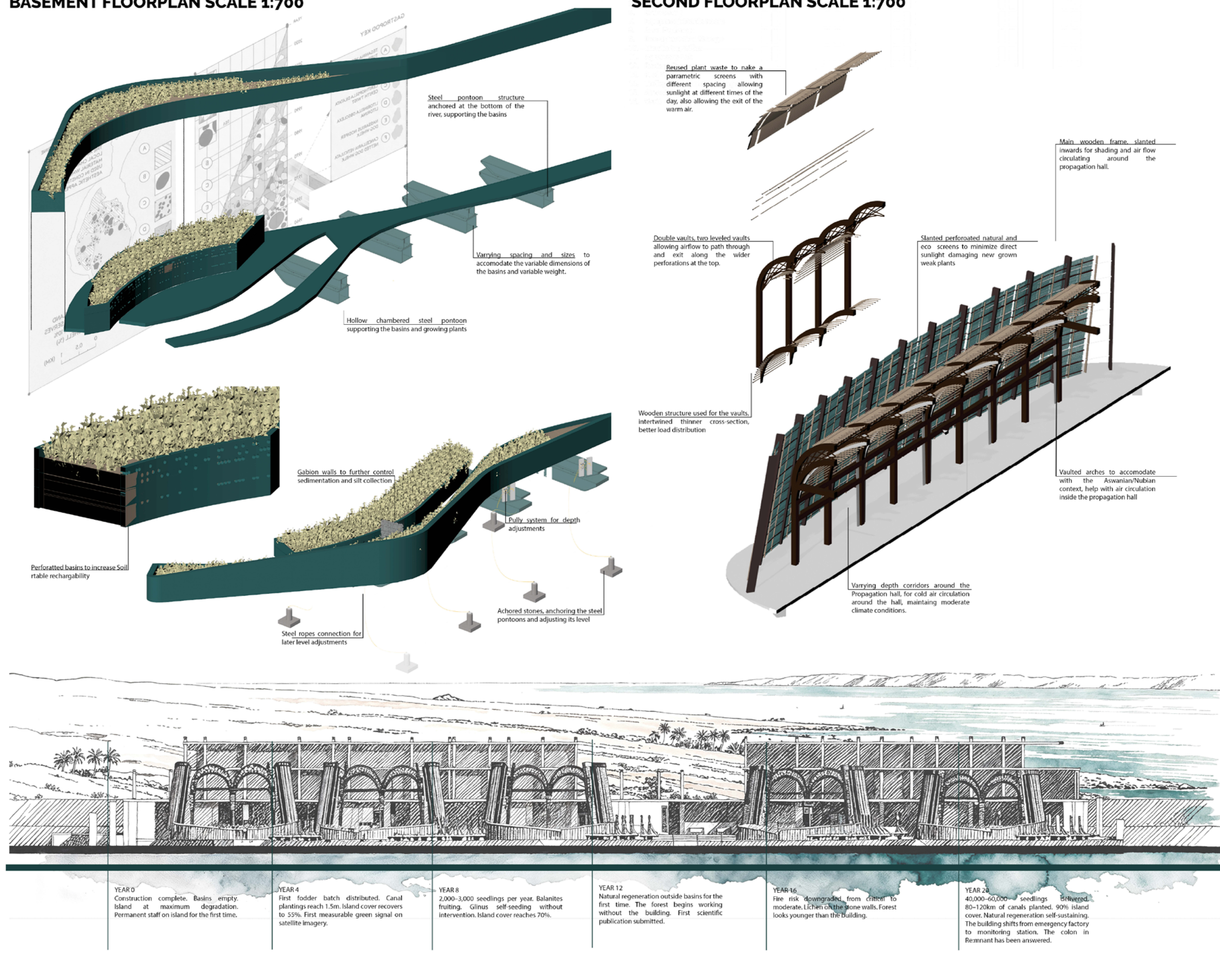
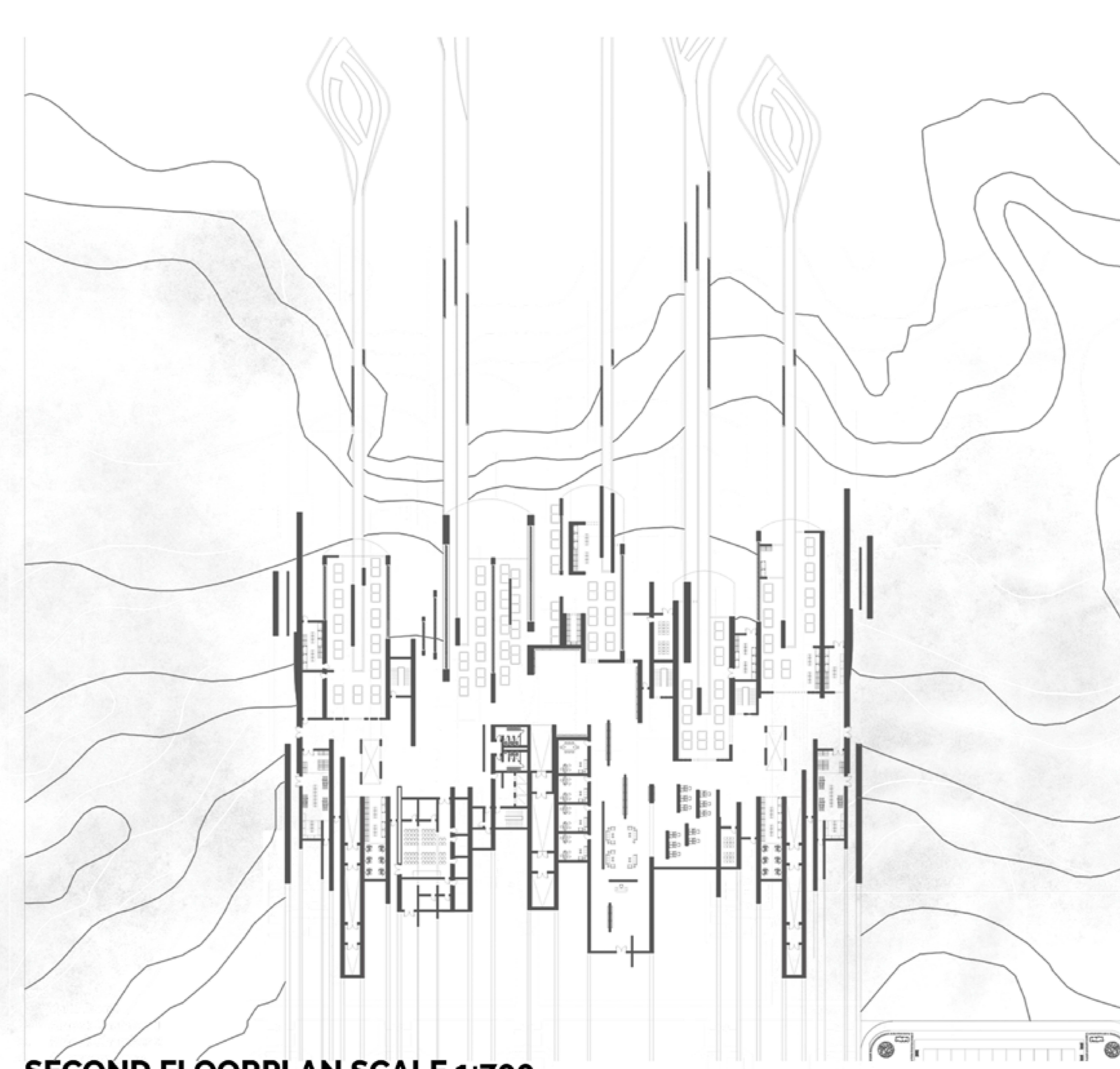
- GROUND FLOORPLAN SCALE 1:350



- LAYOUT



- Key:
1. Vault Ramp
 2. Airlock Chamber 1
 3. Airlock Chamber 2
 4. Anteroom Zone
 5. Sterile Room
 6. Bathroom
 7. Equipment Sterile Room
 8. Seed Exchange
 9. Documentation Storage
 10. Monitoring Office
 11. Agronomy Lab
 12. Backup Generator
 13. Fuel Storage
 14. Trolley & Equipment Storage
 15. Airlock Chamber 3
 16. Vault



<p>YEAR 0 Construction complete. Basins empty. Island at maximum degradation. Permanent staff on island for the first time.</p>	<p>YEAR 4 First fodder batch distributed. Canal plantings reach 1.5m. Island cover recovers to 35%. First measurable green signal on satellite imagery.</p>	<p>YEAR 8 2,000-3,000 seedlings per year. Balanites fruiting. Glinus self-seeding without intervention. Island cover reaches 70%.</p>	<p>YEAR 12 Natural regeneration outside basins for the first time. The forest begins working without the building. First scientific publication submitted.</p>	<p>YEAR 16 Fire risk downgraded from critical to moderate. Echin on the stone walls. Forest looks younger than the building.</p>	<p>YEAR 20 40,000-60,000 seedlings. Sowed 80-120km of canals planted. 90% island cover. Natural regeneration self-sustaining. The building shifts from emergency factory to monitoring station. The colon in Remnant has been answered.</p>
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