

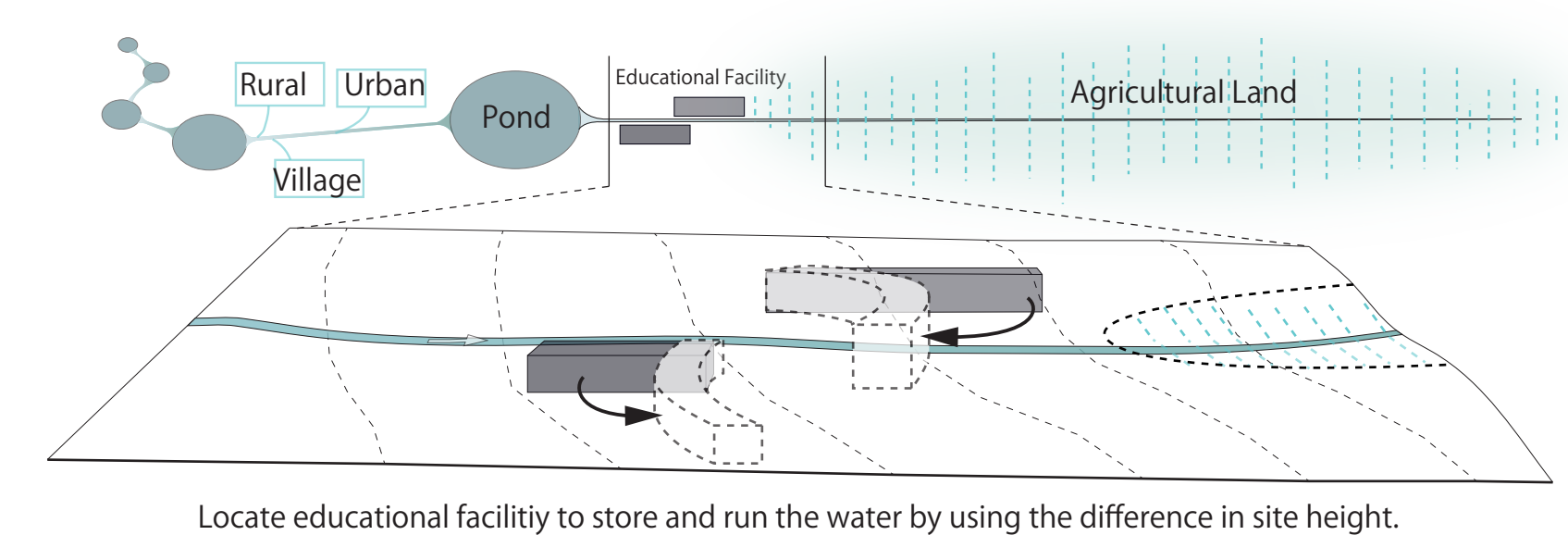
Symbiosis with irrigation



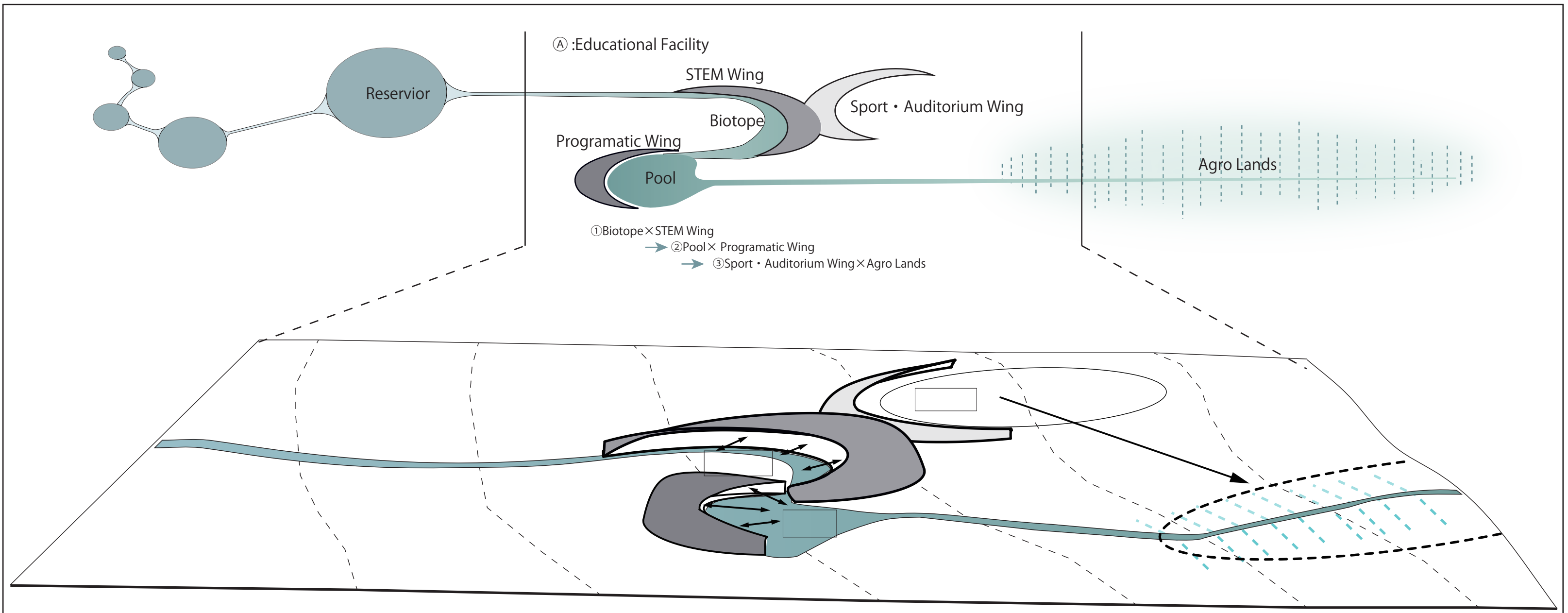
Risk-free view (Exterior Perspective 1) - A water and green expanse spreads inspires new styles of architecture and new educational program

CONCEPT : Symbiosis with irrigation

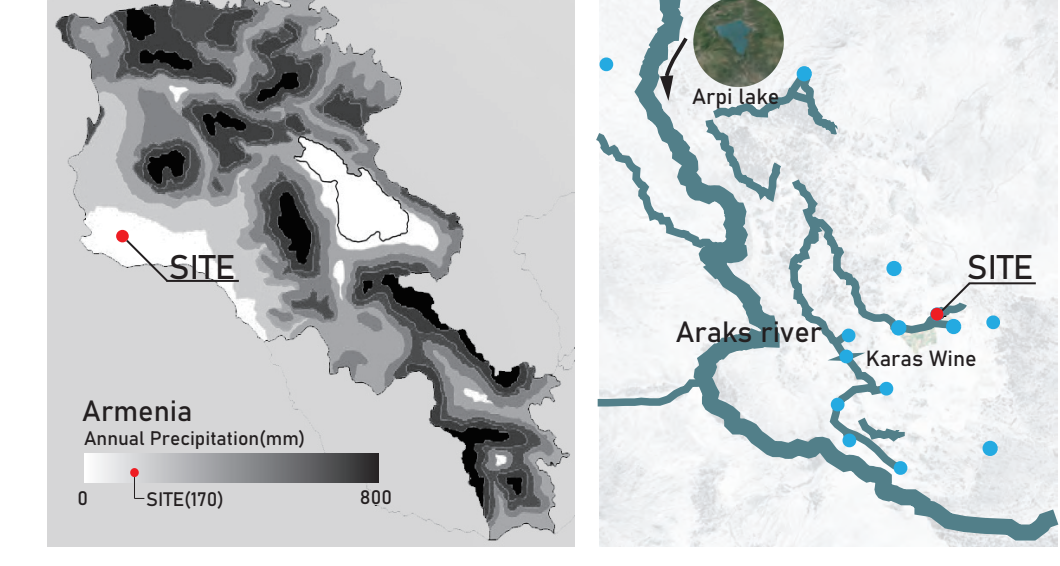
In areas with low amounts of rainfall, bodies of waters such as reservoirs, lakes, and wells, become a vantage point for communities to be borne out of. As such, the COAF SMART Campus of Armavir is similarly shaped in coherence with the water system, to form a new community and educational base. Here, the educational facilities are oriented to incorporate the height difference of the site to store water. Upstream, the water is used by the children to grow plants and play. This water is then put into use as agricultural water on Agro Lands. By maximising the various uses of water, this proposal visualises the step-by-step use of water without waste and incorporate it into education. This will form an innovative water-related educational program imperative to this area, not seen in any nearby surrounding schools. The architecture integrated with the irrigation system, cultivates vast lush agricultural land, enhancing the value and symbolism of the COAF Center, along with its unique educational program.



Symbiosis with irrigation

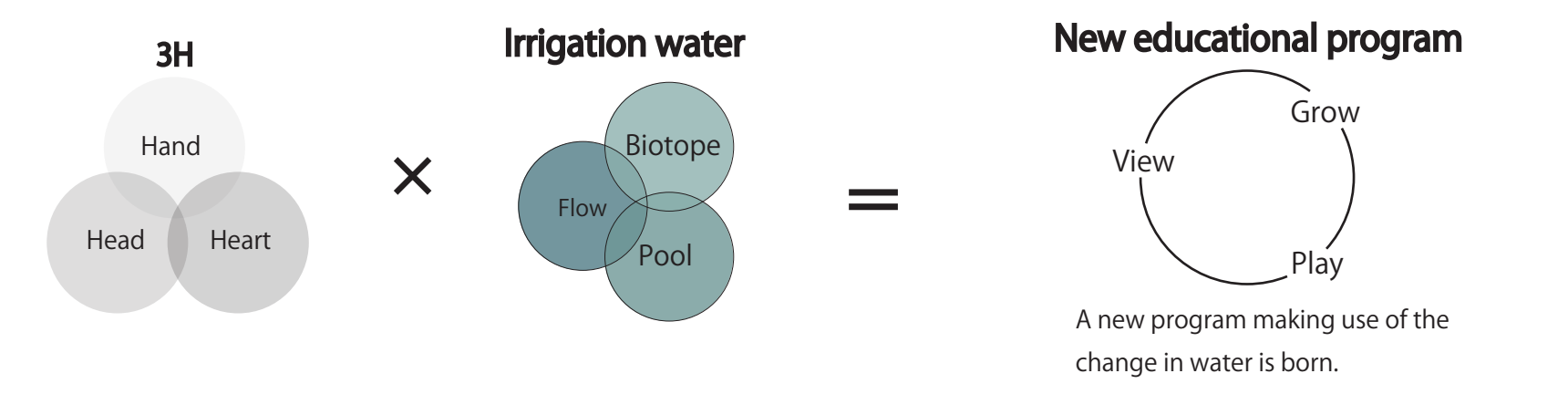


BACKGROUND



As an area neglected from the national irrigation system, small scale networks of waterways connecting housing and farmland are commonplace. However, the functionally driven dull waterways do not form communities woven out of the water network. Additionally, the limited amount of rain-water makes water a scarce resource. As such, by combining the irrigation system to the architectural design, the water system forms the foundation of a new community.

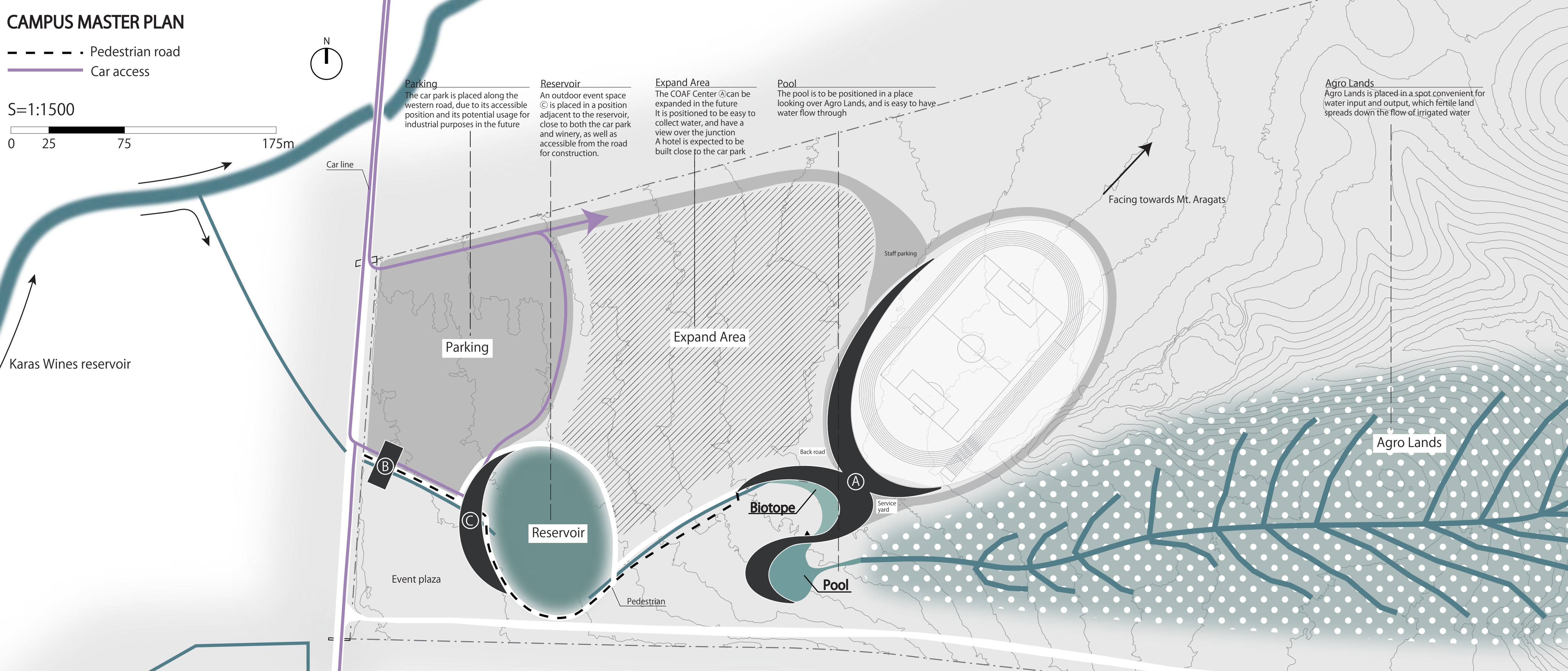
Upstream, children are fostered in a nature rich environment, growing plants whilst playing in the water, which is then reused as agricultural water for Agro Lands. In other words, what is envisioned is an educational program that visualizes the step-by-step use of water while limiting waste, forming an architecture which is fused with the irrigation system to nurture a lush Agro Lands.



CAMPUS MASTER PLAN

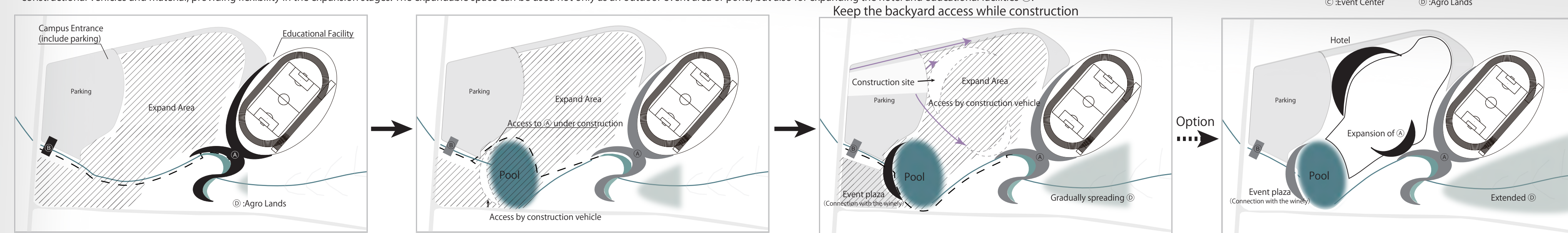
--- Pedestrian road
— Car access

S=1:1500
0 25 75 175m



FLOW CHART : The expandable area between the campus entrance ② and education facility ① allow for flexible expansion in-stages

This masterplan scheme proposes to place the campus entrance ② by the road on the western side of the site, and the educational facilities ① furthest from the road, to allow for future expansion in the center, whilst also accounting for its views. The flow of the water choreographs the access path, smoothly connecting the entrance to the main area. The placement of the car park along the road allows for user convenience, whilst securing access routes for constructional vehicles and material, providing flexibility in the expansion stages. The expandable space can be used not only as an outdoor event area or pond, but also for expanding the hotel and educational facilities ①.

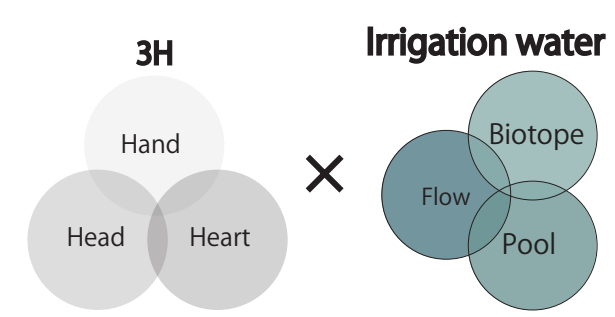


Karas Wines

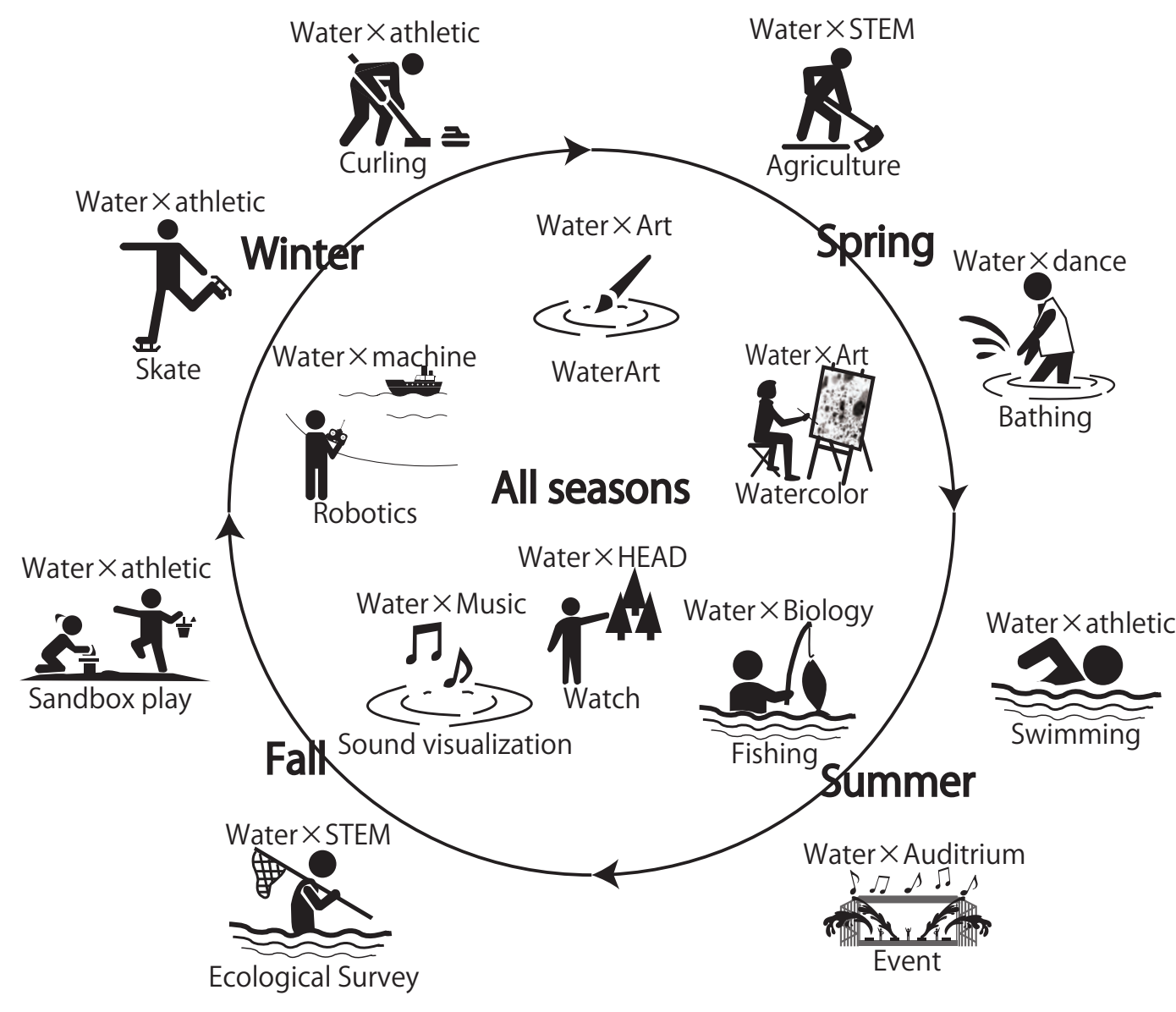
① Educational Facility
② Campus Entrance (include parking)
③ Event Center
④ Agro Lands

New educatrional program

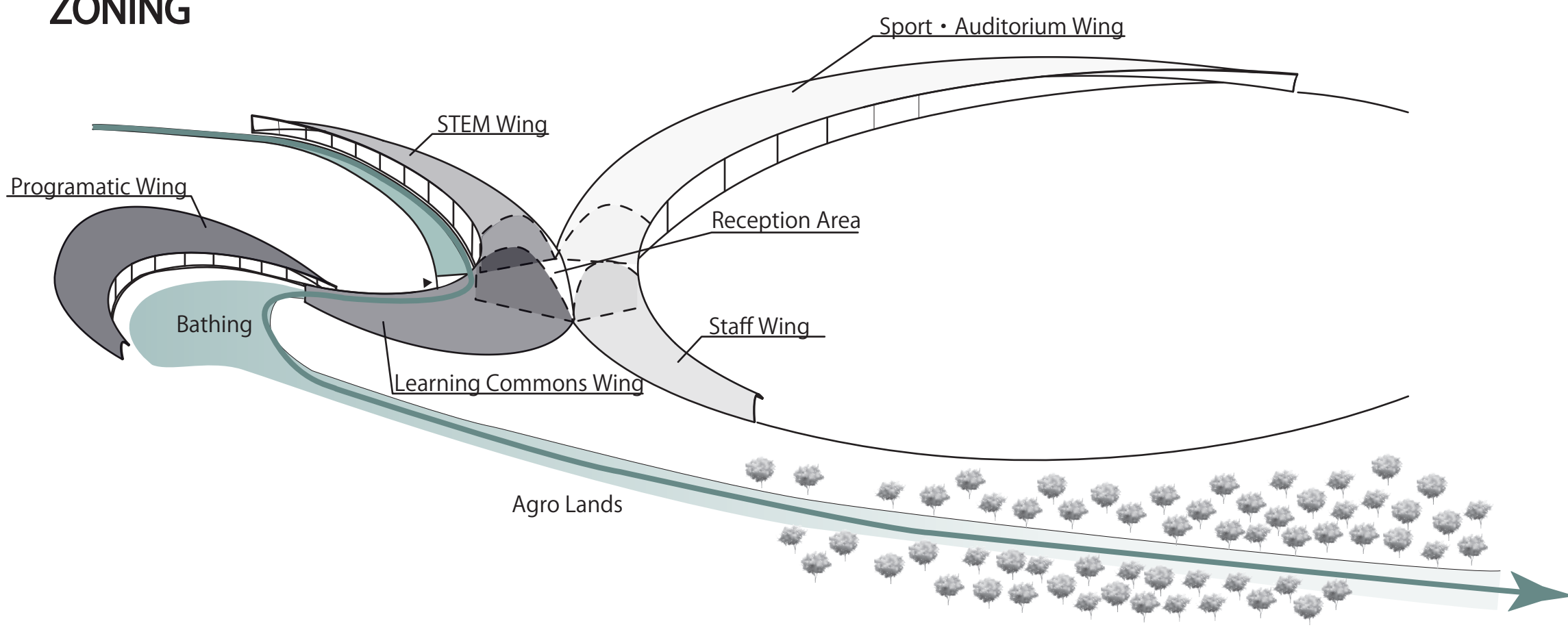
New activities which incorporate irrigation water change throughout the year with the seasons and temperature



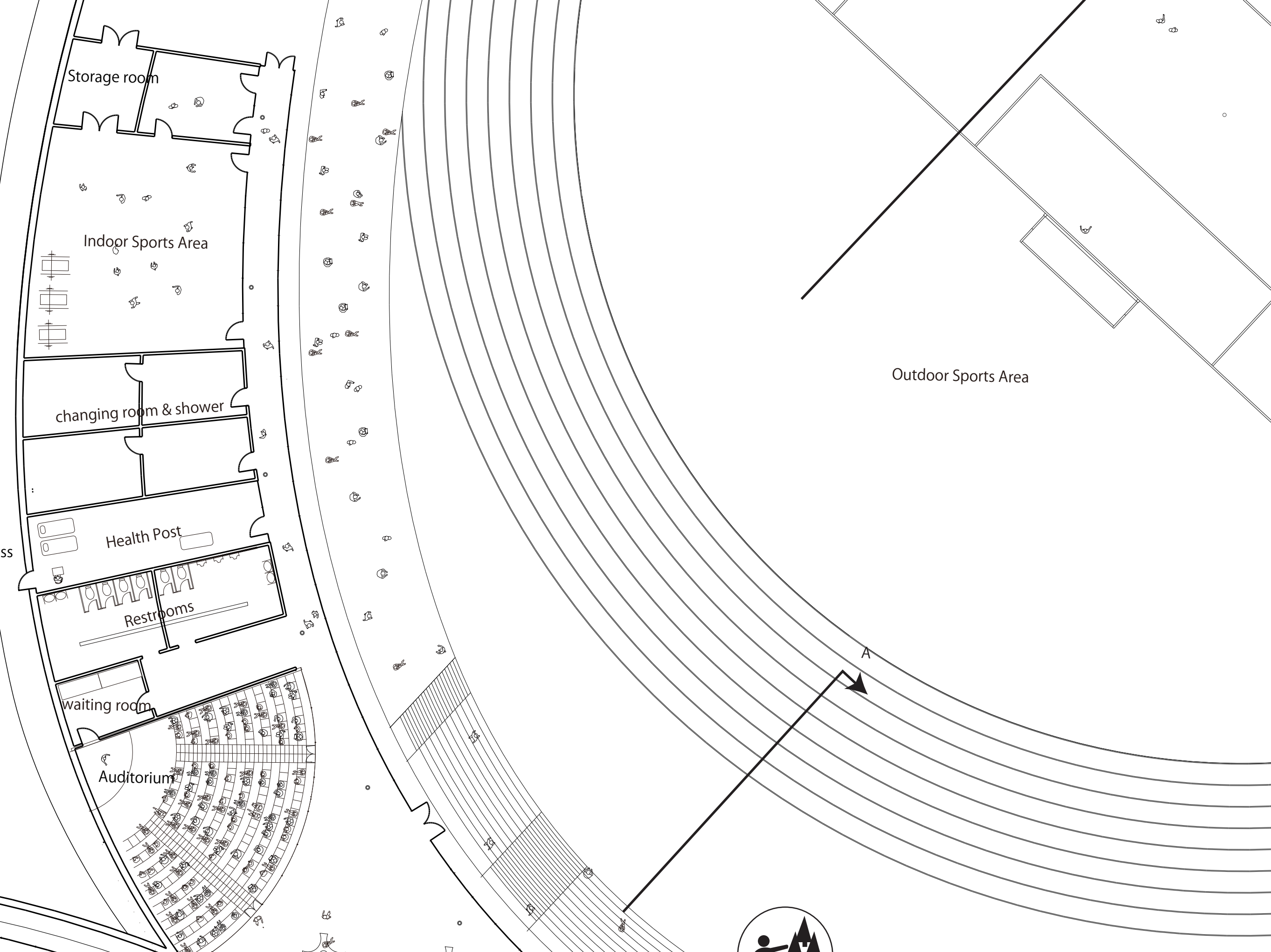
This program combines conventional 3H with water from the irrigation system, which will form a new educational scheme, which could not have been done on this originally dry land.



ZONING

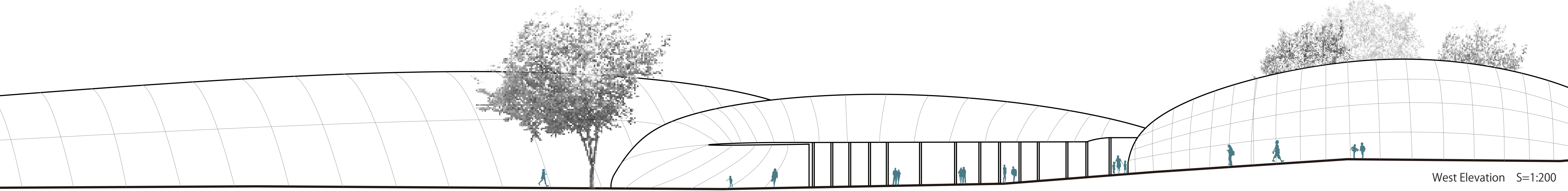


- STEM Wing**
The STEM Wing is the first area seen when approaching the facility. This placement adjacent to the path allows local skilled students from nearby public schools to use STEM and SDDS facilities. In addition, the biotope in front of the STEM Wing provides a close connection to a relevant component in the educational facility.
- Learning Commons Wing**
The cafe and library are located in the central part of this facility and will form an open space for users. The biotope spreads out towards the front and can be viewed. The culture corner will be a key area for events and activities.
- Programatic Wing**
The programmatic wing specialized for 3H face the bathing pool, and the output of each program can be incorporated in a hydrophilic space. In addition, the two programmatic rooms will be arranged and planned for multifunctional versatility.
- Staff Wing**
As the staff wing is adjacent to the lobby in the reception area, the facility is easily managed by the staff. In addition, as it is separated from the other areas and its accessibility to the sports area and Agro Lands make its placement suitable.
- Sport - Auditorium Wing**
The indoor sports area and the outdoor sports area are adjacent to each other, providing a connected space. There is also an under-roof spectator seat at the end of the wing, to allow for comfortable viewing.

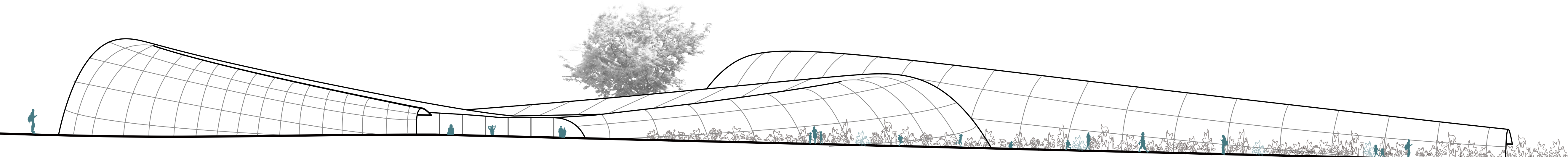




Interior Perspective 1: Overlooking Agro Lands from Programmatic Wing

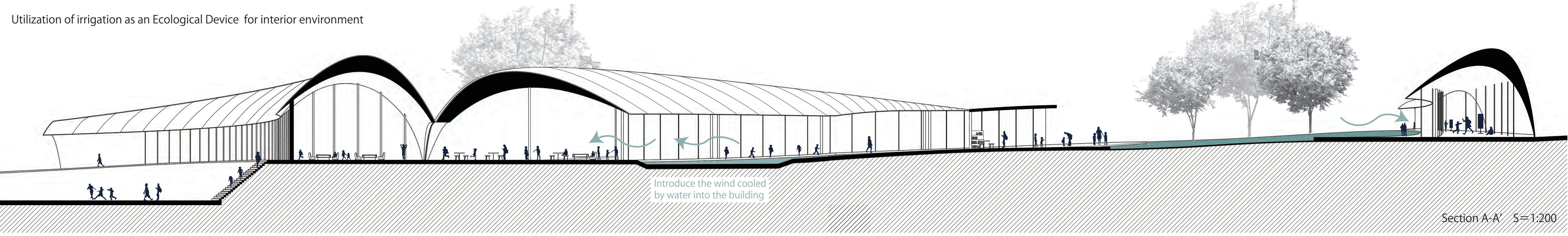


West Elevation S=1:200

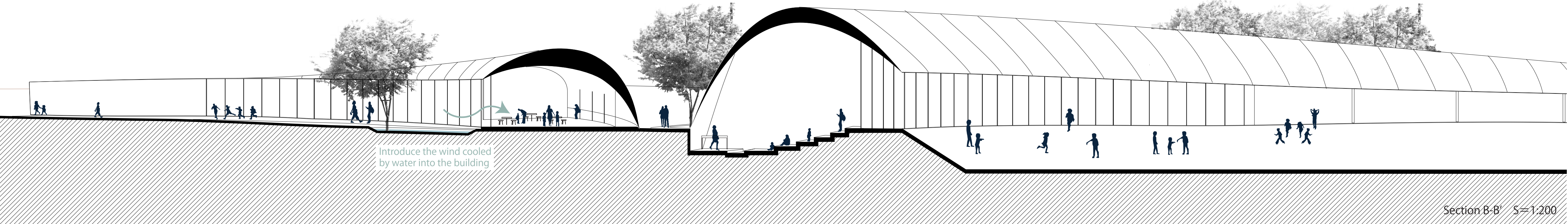


South Elevation S=1:200

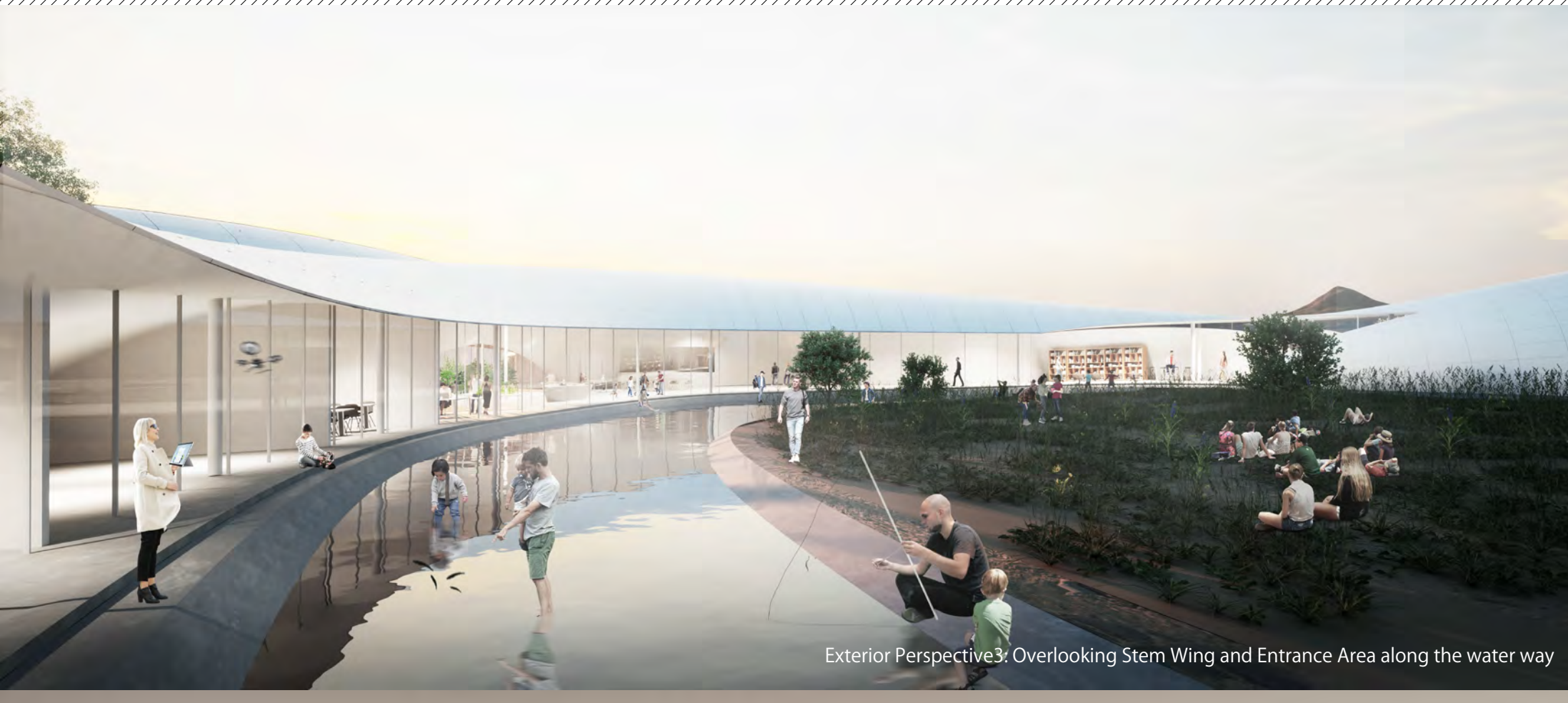
Utilization of irrigation as an Ecological Device for interior environment



Section A-A S=1:200



Section B-B S=1:200



Exterior Perspective 3: Overlooking Stem Wing and Entrance Area along the water way



Interior Perspective 2: Reception Area where dramatic experience in the diverse communication space shaped by the intersection



Interior Perspective 3: Overlooking Programmatic Wing from Learning Commons Wing