

# BDE MAKA SKA

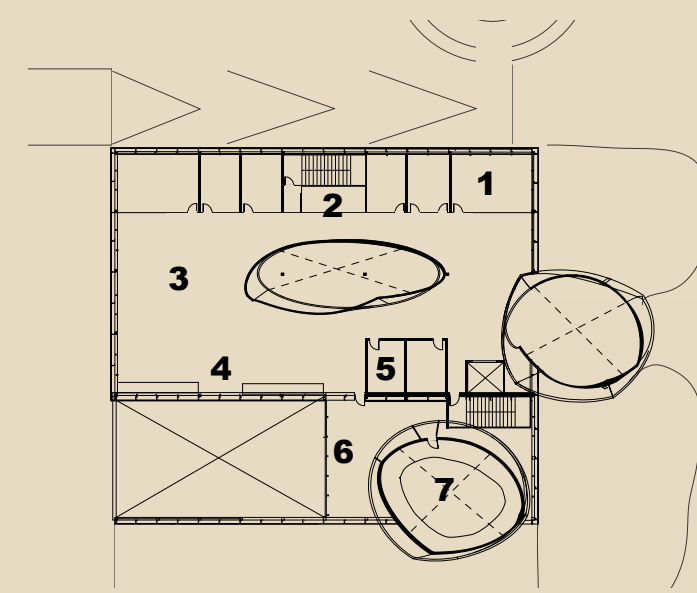
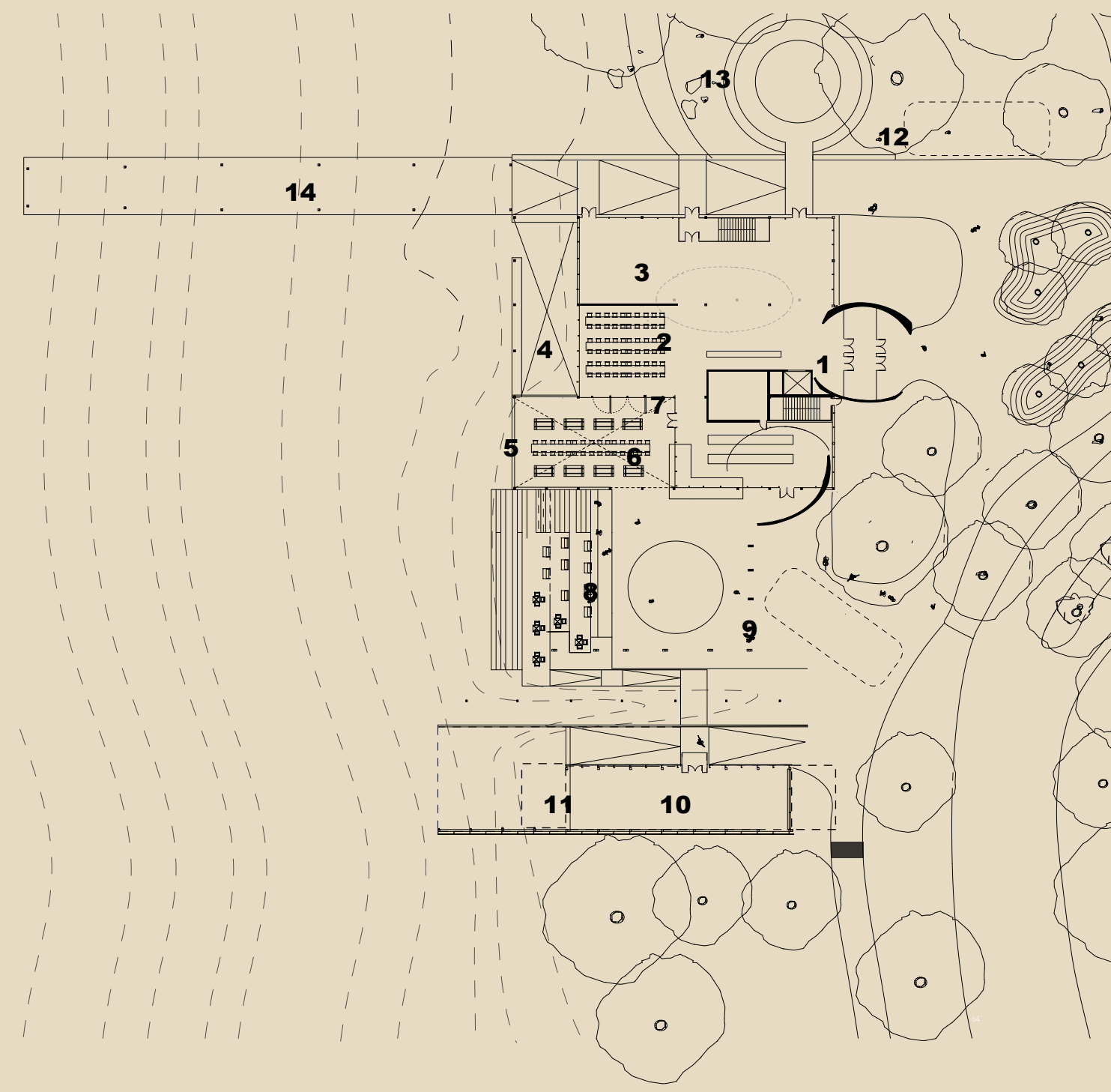
[TEK] food co-op

Traditional ecological knowledge (TEK) and the trajectory of contemporary urban society continue to clash. Yet, there are shared values, prospects, and goals embedded in food as a means of teaching and creating community that is invested in place. Architecture, and the design process serves as a vehicle to investigate and reimagine more productive shared futures that tangle ecology, recreation, community, and culture. These principles can connect people of many coats and colors through shared land management, traditional food production/preparation, healthy lifestyle, and place-based cuisine. These practices embed a person in place. If sustainability is to be a primary tenet of urban life in Minneapolis, this project emphasizes the importance of Traditional Ecological Knowledge (TEK) in creating respect, understanding, and value of our shared ecological and cultural resources and by doing so, creates a wealth of indigenous culinary knowledge sharing and development.

The project site, just south of a small passage between Lake of the Isles and Bde Maka Ska has seen multiple histories. From early Dakota settlement to its contemporary use as a recreation and leisure site. There is a deep palimpsest here. By creating multiple zones for TEK teaching and learning and traditional food harvest throughout the expanded site (to include the channel and other vegetated area) this project enlists food to help contemporary Minnesotans celebrate the multiple histories that make this place so special to so many people.

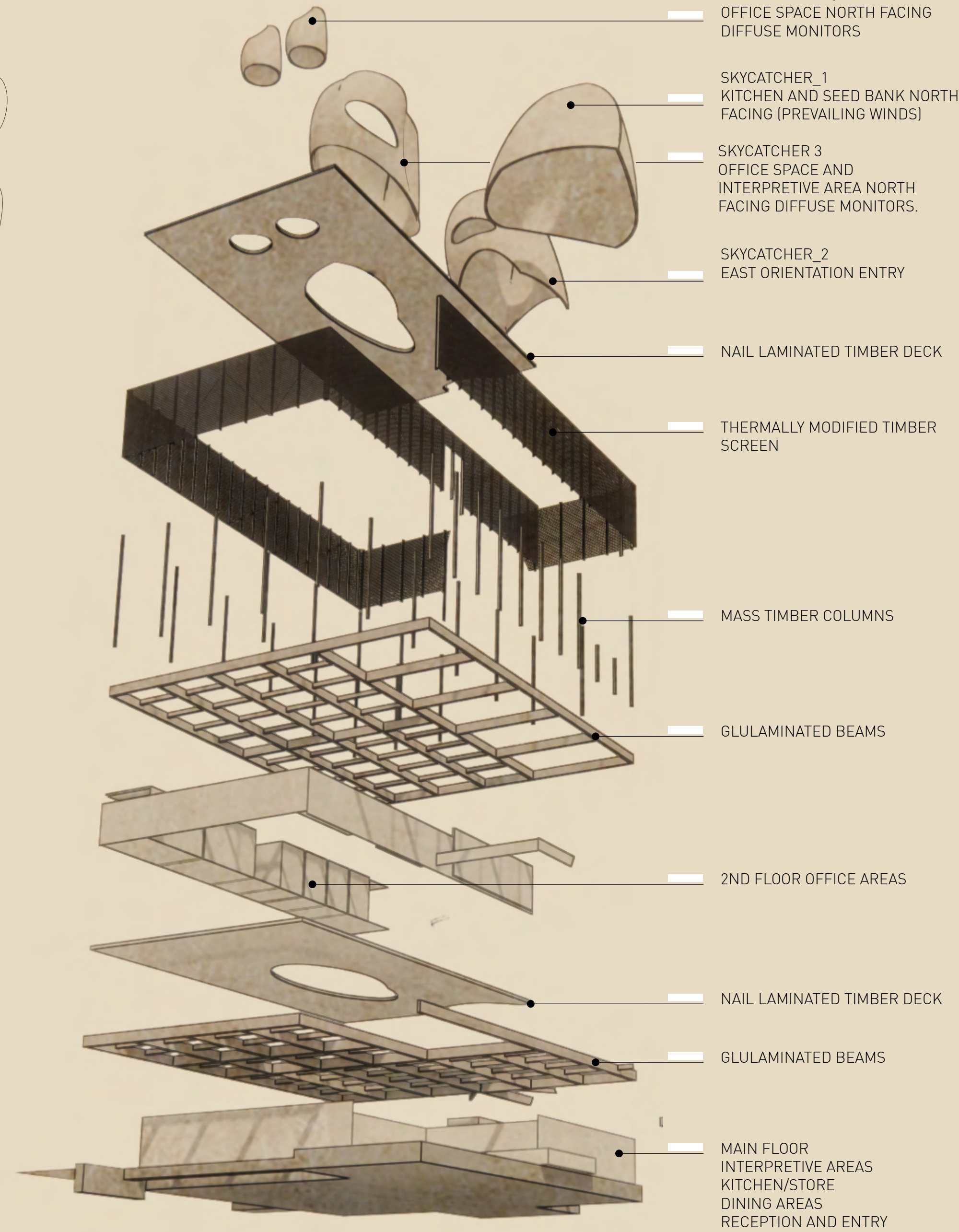
1. Main Public Entry
2. Reception
3. Interpretive Area/Event Space
4. Indoor Eating/Gathering
5. Outdoor Eating/Gathering
6. Kitchen
7. Cold/Dry Store
8. Interactive Night Sky
9. Loading Dock (Drivable Plaza)
10. Bike/Scooter Repair
11. Canoe/Kayak Rental + Launch
12. Future Public Restrooms
13. TEK Experimental Garden
14. Fishing Pier

↑ site/floor plan



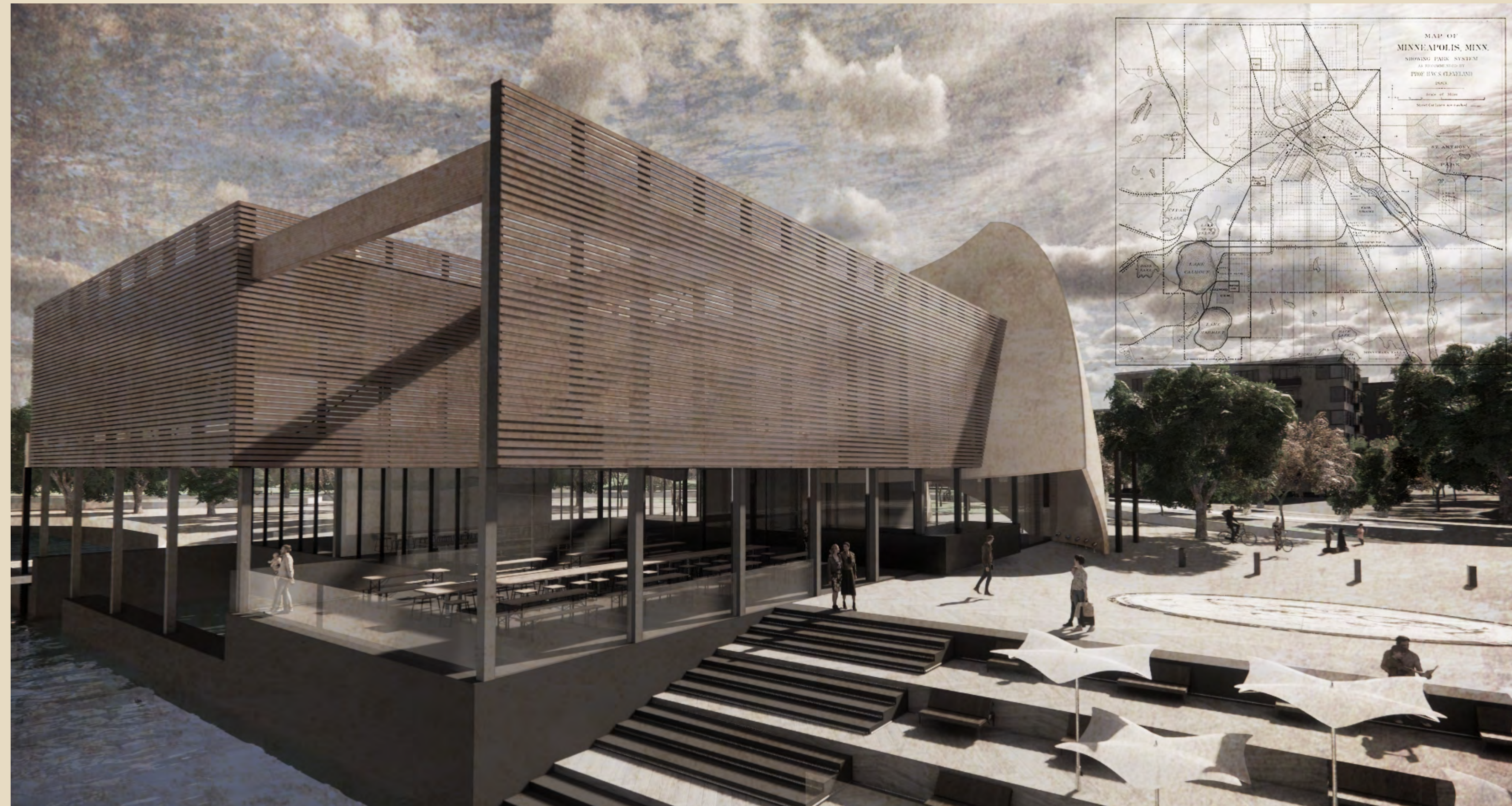
1. Enclosed Office/Meeting
2. Copy/Print Nook
3. Open Office Area
4. Kitchenette
5. Staff Restrooms
6. Terrace
7. Seed Bank Catwalk

↑ upper floor plan



↙ perspective assembly

main building - parts and pieces



↙ view of outdoor dining area and public plaza



- 1. Main Entry + Interpretive Area
- 2. Fishing Pier
- 3. Kitchen and Dining
- 4. Public Plaza
- 5. Canoe Rental + Launch
- 6. Experimental Garden
- 7. Detectable Warnings @ Bike Path
- 8. Renovated Kiosk
- 9. Loading Area
- 10. Tabled Intersection (lt gray)
- 11. Visual Signal @ Entrance to Table
- 12. Traditional Ecological Learning Station #1  
-Prairie Species + Sun/Salt Tolerant  
-Pollinators
- 13. Traditional Ecological Learning Station #2  
-Shade Tolerant Species + Fungus,  
-Birds + Bugs + Rodents
- 14. Traditional Ecological Learning Station #3  
-Aquatic Plant Species  
-Amphibians + Fish + Water Birds

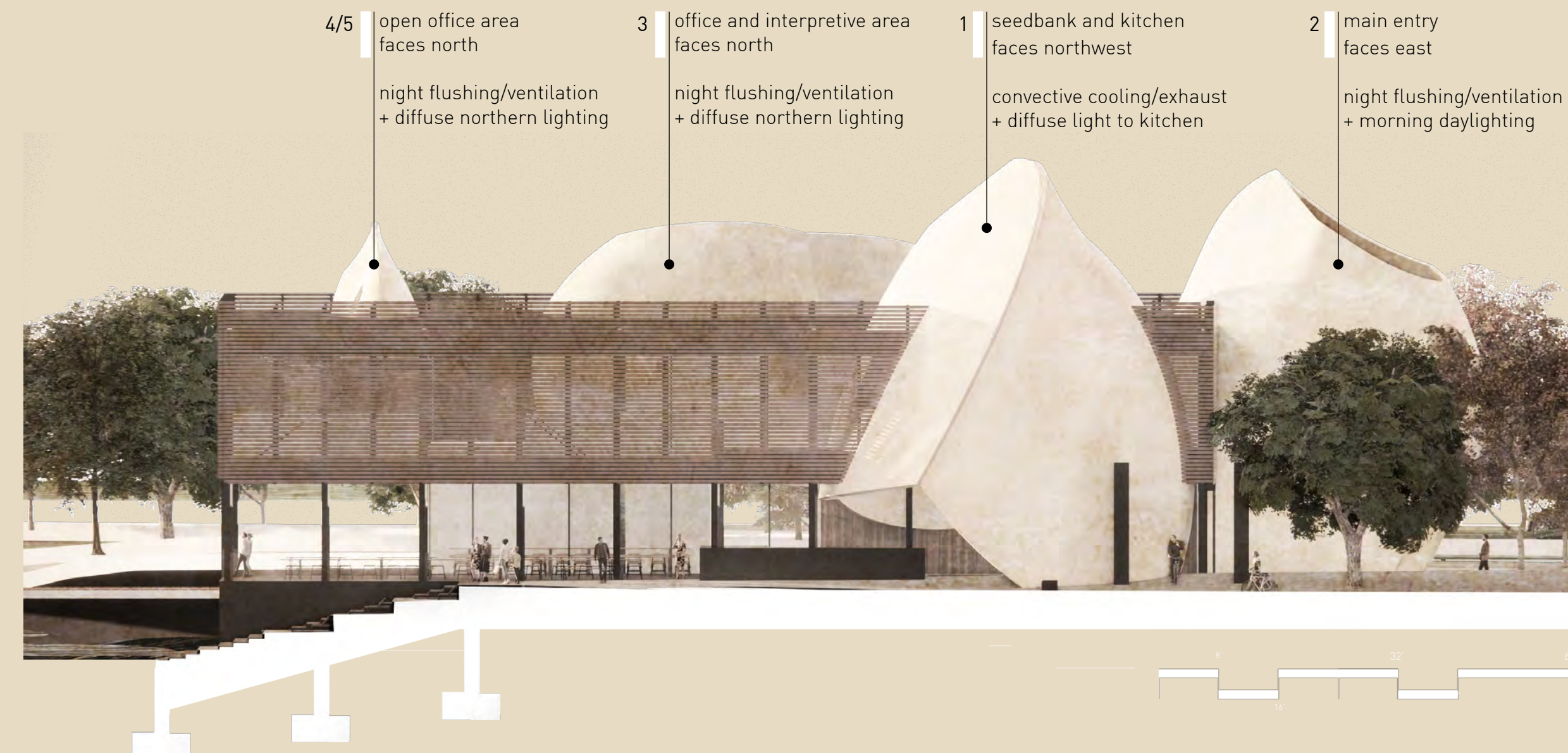
**urban site plan**  
creating a gateway @ Bde Maka Ska

The northern lotus is a plant used by indigenous peoples in MN. Like most flowers, it's petals open in response to their surroundings. The prevailing winds and direction of sunlight give the lotus a unique ability, while being an aquatic tuber, to power its many edible parts in an aquatic environment.

Sailing is a deeply rooted tradition in Minneapolis lakes during spring, summer and fall. Sails are manipulated to allow wind to bring the boat in almost any direction. Combinations of main, jib, and spinnaker sails on small boats can make a day with only a small amount of wind on Bde Maka Ska into a fuel free activity.

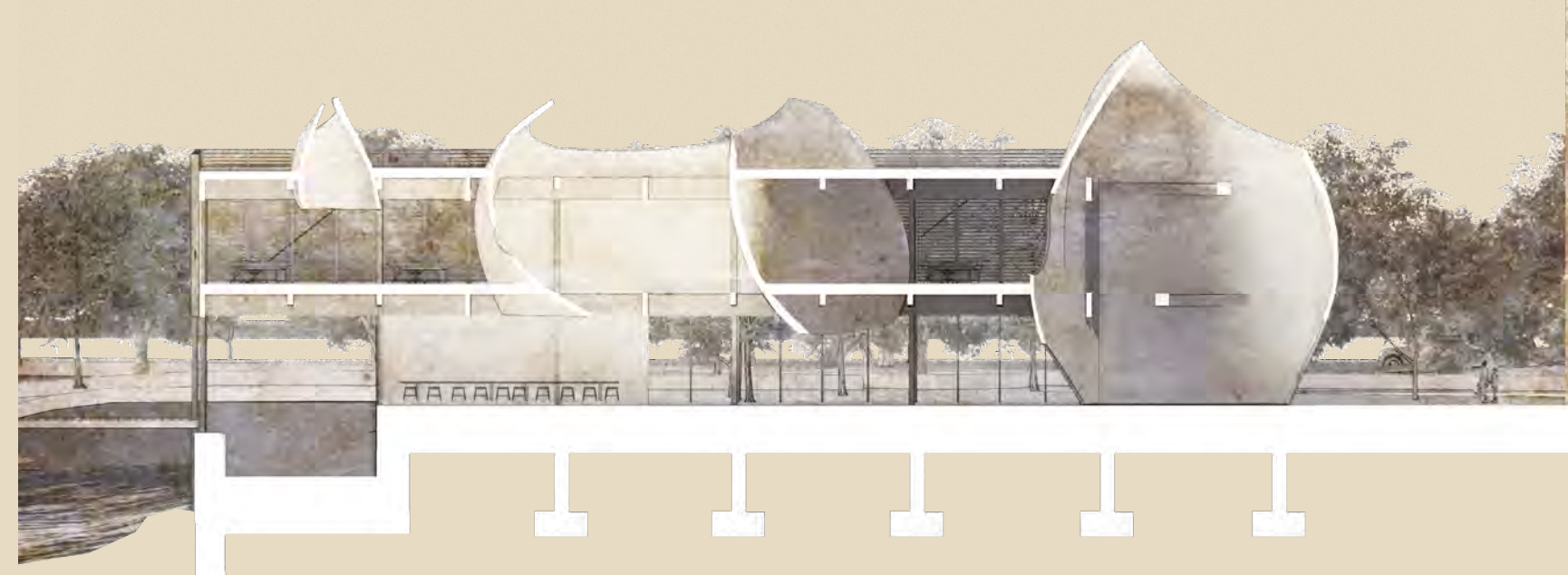
Plains Native Americans constructed a few types of dwellings depending on season and available resources. One of those dwellings is the incredibly efficient and adaptable Tipi. Flaps are manipulated with differing climatic conditions [wind direction, rain, snow, etc.] to allow the interior environment to deal with huge temperature swings and a wild variety of weather patterns characteristic of the glacial lakes and plains of Minnesota.

**CATCHING Air Wind Water Light**

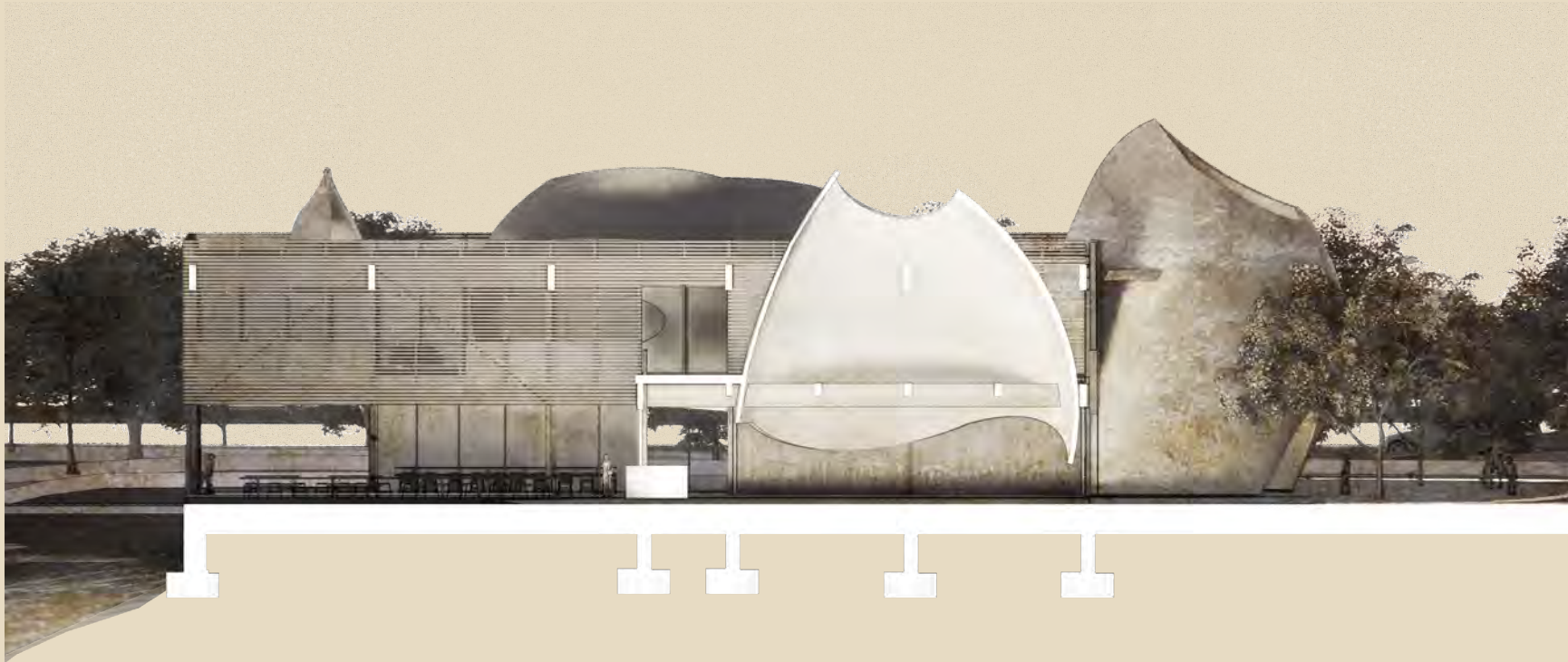


- 4/5 open office area faces north  
night flushing/ventilation + diffuse northern lighting
- 3 office and interpretive area faces north  
night flushing/ventilation + diffuse northern lighting
- 1 seedbank and kitchen faces northwest  
convective cooling/exhaust + diffuse light to kitchen
- 2 main entry faces east  
night flushing/ventilation + morning daylighting

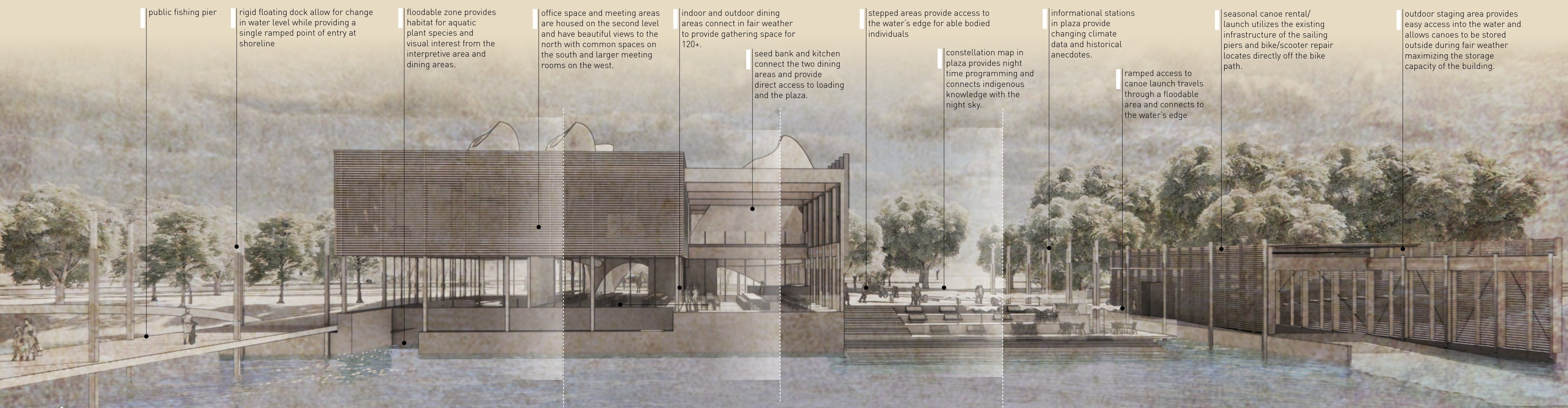
**plaza section + south elevation**  
section through kitchen + seed bank



**sky catchers 2/3/4**  
section through entry + interpretive + offices



**sky catcher 1**  
section through kitchen + seed bank



public fishing pier

rigid floating dock allow for change in water level while providing a single ramped point of entry at shoreline

floodable zone provides habitat for aquatic plant species and visual interest from the interpretive area and dining areas.

office space and meeting areas are housed on the second level and have beautiful views to the north with common spaces on the south and larger meeting rooms on the west.

indoor and outdoor dining areas connect in fair weather to provide gathering space for 120+.

seed bank and kitchen connect the two dining areas and provide direct access to loading and the plaza.

stepped areas provide access to the water's edge for able bodied individuals

constellation map in plaza provides night time programming and connects indigenous knowledge with the night sky.

informational stations in plaza provide changing climate data and historical anecdotes.

ramped access to canoe launch travels through a floodable area and connects to the water's edge

seasonal canoe rental/launch utilizes the existing infrastructure of the sailing piers and bike/scooter repair locates directly off the bike path.

outdoor staging area provides easy access into the water and allows canoes to be stored outside during fair weather maximizing the storage capacity of the building.

**view from bde maka ska**

SKY CATCHER 2/3/4

SKY CATCHER 1

PLAZA SECTION