The main idea of our master plan development is "Growing", which means a transformation from agricultural production to urban development. This transformation is aimed at improving the neighborhood and providing a balance between the city and the natural environment.

Based on the improvement of infrastructure, we will develop various programs such as community center, visitor center, market and research center. All the development can still benefit from the urban farming landscape. After about 40 years, a new neighborhood will emerge around the old ore wall.

The development of the architecture project is also based on this dynamic process. The building will change its programs according to the different phases of the master plan. Initially, it is a warehouse combined with market hall. After about 20 years, when the South area becomes a more attractive and accessible place for the rest of Chicago, a museum program will be added and combined with the market and warehouse.

In short, at first the building is directly focused on farming storage and selling, and finally it will be transformed to farming exhibition, education and branding.
THE CONTRAST OF SPACE AND PROGRAM

For the people passing by, the building appears as a sculpture-like volume set on top of the horizontal ore wall, which is a contrast between old and new. In the west end where the building is facing the lake shore drive, the big open plaza and glass facade are going to give people the feeling of welcoming and lead them into the building. For the north facade it also tries to stress the feeling of floating and contrast of materials.

When people come inside, they can experience the contrast of spaces and materials. The market space on the ground floor is free and open, which makes it possible for people to meet each other and have all different activities. On the first floor there is the exhibition rooms for the museum, where you can look down at the market and warehouse on the ground floor, but in a more interior environment. The development of the entrance of the museum is aimed at providing visitors the feeling of floating and contrast.

SERVICE DIAGRAM -- HEATING & COOLING

NATURAL LIGHT

SERVICE DIAGRAM -- VENTILATION

The basic idea of the structure is to have trusses standing on top of the concrete ore wall, and the floor for the museum is suspended on the truss structure. And for the ground floor there will be completely free space between the walls. The ground floor is for big space as market or food expo. The first floor is for museum exhibition and the second floor will have office and service space.
Facade construction
- 50 mm Composite board with white coating
- 120 mm Rigid plastic foam board
- 150 mm load bearing truss
- 20 mm wood boards
- 50 mm cement screed with floor heating system
- 120 mm Trapezoidal profile sheet
- 200 mm Load bearing truss

Roof construction
- 150 mm Substrate
- 5 mm Filter fleece
- 40 mm Drainage layer
- 5 mm Filter fleece
- 2 mm Synthetic waterproofing
- 2 mm Protective membrane
- 120 mm Rigid plastic foam board insulation
- 5 mm Vapour barrier
- 300 mm Load bearing truss
Plasterboard 2 No.12.5 mm with white coating
80 mm Aluminium channel framing
Hollow section steel supporting truss
20 mm wood boards
58 mm cement screed with floor heating system
25 mm Sound insolation
40 mm ThermaL insolation
120 mm Trapezoidal profile sheet
900 mm steel beam