Urban Farming Theme Restaurant

Fei Wu 4250893
# CONTENT

<table>
<thead>
<tr>
<th>MASTER PLAN</th>
<th>INDIVIDUAL BUILDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOCATION</td>
<td>LOCATION</td>
</tr>
<tr>
<td>CONDITION</td>
<td>PROGRAM</td>
</tr>
<tr>
<td>ANCHOR</td>
<td>TYPOLOGY</td>
</tr>
<tr>
<td>STRATEGY</td>
<td>CONCEPT</td>
</tr>
<tr>
<td>THE CFD</td>
<td>DESIGNH PROCESS</td>
</tr>
<tr>
<td></td>
<td>DRAWINGS</td>
</tr>
</tbody>
</table>
MASTER PLAN
LOCATION

- Illinois
- Cook County
- City of Chicago
- South-Chicago
CONDITION

NEIGHBOURHOOD
- food desert
- unemployment
- low education
- crime
- vacant lots

SITE
- empty area
- Michigan Lake canal
- Lakefront park
- Ore walls
ANCHOR

URBAN FARMING

- Fresh food
- Farms & plant nursery
- Training
- Job
- Adolescent education
- Tourism

Low-cost
Visible
Sustainable

FOOD DESERT
VACANT PLOTS
LOW EDUCATION
UNEMPLOYMENT
CRIME
BAD IMAGE

support

Office of the Mayor
City of Chicago

March 15, 2013

Mayor Emanuel Launches New “Farmers for Chicago” Network for Chicago Urban Farmers

Growing Power, Inc.

An urban agriculture organization headquartered in Milwaukee, Wisconsin. It is establishing increasing number of urban farms in Milwaukee & Chicago.

Growing Power aims for sustainable food production, as well as the growth of communities through the creation of local gardens and Community Food Systems.

URBAN FARMS IN CHICAGO
STRATEGY

- Extend the existing infrastructure
- Decentralized urban development
- Create linear farming landscape stripes
- Central urban farming district (CFD)
PHASING

5 years

10 years

20 years
The transition of CFD

Production

Enclosed

Production & Service

Open
The extent of theme park

1. Showing urban farming theme to the city

URBAN FARMING!
The extension of theme park

2. Gaining good landscape views

Views to Chicago downtown
The mission of the theme restaurant

1. Offering special dining experience

2. Gaining good landscape views
INDIVIDUAL BUILDING
LOCATION

The intersection of two parks, serving both areas
1. A waterfront public route passes through the building, connecting with all the other recreational routes coming from both parks.

2. With a BRT bus stop and a ferry terminal near by.
LOCATION

visibility

views from the theme park

views from the waterfront park
How do people experience urban farming life in the theme park?

- visit
- farming/harvest
- taste
GOALS

TAKE ADVANTAGE OF THE LANDSCAPE

EMPHASIZE URBAN FARMING THEME
research of the circular building

Yongding Tulou, Fujian China

Ken Iwata Mother and Child Museum, Toyou Ito

INTROVERTED

The duality
research of the circular building

The duality

Niterói Contemporary Art Museum in Rio de Janeiro, Brazil

21 century museum, SANNA
CONCEPT

use the duality of circle to both emphasize the introverted theme garden and extroverted landscape.
EXTROVERTED VIEW
CONCEPT ------- manipulating the courtyard

typical courtyard: isolated from real outside
CONCEPT ------- manipulating the courtyard
DESIGN PROCESS

Initial idea

difficult for structure

solution
carpet; 80 mm reinforced screed, jointless, with integrated heating/cooling foil sealing; 260 mm thermal insulation; vapour barrier. 300 mm reinforced concrete C50/60, fibre-reinforced, jointless, curved.
After developed

South Facade
1 PVC sealant, light grey
   300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved
   220 mm mineral wool; vapour barrier
   12.5 mm plasterboard, curved

2 solar-protection glazing, curved, 10 mm toughened glass + 14 mm cavity +12 mm lam. safety gl.

3 glass fence

4 40mm concrete floor panel
   laminated wood block
   waterproof layer
   cement mortar screeding to falls
   300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved

5 pre-heated/ cooled ventilation duct

6 carpet; 80 mm reinforced screed, jointless, with integrated heating/cooling foil sealing;
   260 mm thermal Insulation; vapour barrier
   300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved

7 12.5 plasterboard
   vapour barrier, 150mm mineral wool
   300 mm reinforced concrete wall C 50/60, fibre-reinforced, jointless, curved
Roof material --- PVC sealant, light grey

Reference project --- Rolex learning center
STRUCTURE DESIGN

Slabs and a circular wall

Combined and work together as a big cantilever
CLIMATE DESIGN

Ventilation

Cooling

Heating
DRAWINGS
OVERALL PLAN
1 PVC sealant, light grey
300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved
220 mm mineral wool; vapour barrier
12.5 mm plasterboard, curved

2 solar-protection glazing, curved, 10 mm toughened glass + 14 mm cavity +12 mm lam. safety gl.

3 glass fence

4 40mm concrete floor panel
laminated wood block
waterproof layer
cement mortar screeding to falls
300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved

5 pre-heated/ cooled ventilation duct

6 carpet; 80 mm reinforced screed, jointless, with integrated heating/cooling foil sealing;
260 mm thermal Insulation; vapour barrier
300 mm reinforced concrete C 50/60, fibre-reinforced, jointless, curved

7 12.5 plasterboard
vapour barrier, 150 mm mineral wool
300 mm reinforced concrete wall C 50/60, fibre-reinforced, jointless, curved
CONCLUSION

Initial idea

DESIGN PROCESS
Thank you!