Breaching the borders:

creating a place of gathering between historic walls

Urban fragment and building of interdependent places

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Complex Projects_Chicago_South Works
P5 Presentation
15/12/14
introduction
South Works
Site previous US Steel manufacturing
South works nowadays
Adjacent neighborhood
Chicago Lake Shore
Chicago Lake Shore
approach
The Boards

issues

framework

narratives
Framework

preservation

reaction

emancipation

segregation

evolution

The area should be a new center of the city

The site should be in opposition to the loop

The site should generate more urban density

The site should be divided in different parts

Empower people through education and job creation

Framework

COMPLEX PROJECTS
CHICAGO SOUTH WORKS

The Framework outlines the idea, implications, and approaches for the complex projects in Chicago's South Works area. The framework aims to guide the development and implementation of these projects, ensuring they address the needs of the community and enhance the urban environment.
Narratives
masterplan

conditioning spaces and atmospheres
Mapping points of interest and points of tension
Unique spaces
Extending three streets adjacent neighborhood
Introducing spatial and social atmospheres

SOCIAL AMBIANCE

REACTIVE
10am - 2pm
- Commercial
- Public
- Market

ACTIVE
7am - 6pm

WORK
TRANSPORT
Public
Neighborhood+
Residential+
other

PUBLIC
PUBLIC
OPEN
OPEN

INTRODUCED

EXISTING, TIFF

7am - 6pm  16-65 yrs

8am - 12pm + weekends  All ages

7am - 6pm  16-65 yrs

STATION

NEIGHBORHOOD
NEIGHBORHOOD
NEIGHBORHOOD

PUBLIC

Public Neighborhood +
Residential +
other

PUBLIC

PUBLIC

PUBLIC

PUBLIC

PUBLIC
mapping tension points
Introducing new spatial element to break monotony
Adjusting atmosphere to the new spine
Two parts

modification of the grid & phenomenological adjustment
Connecting and influencing the adjacent neighborhood
Orientation towards the water and interest points
Catalyst “seeds” for development masterplan
spine
A spine is connecting and opposing housing several aspects:

- **Form**: void “valley” in the built environment
- **Infrastructure**: connection and taste of different atmospheres
- **Fragmented function**: added local functionality
- **Sustainable solution**: stores and processes stormwater
Spine as spatial void in the built environment
Stormwater management plan

Southworks stormwater management plan

- 9% to Chicago's combined sewer
- 91% filtered and returned to Lake Michigan

26 acres
Central Park, New York

LA river revitalization, Los Angeles

The big U, Lower Manhattan

Rio Turia, Valencia
fragment
tension points

spine as functional catalyst with a connecting element

with

water canal with a depth border (no interaction)

ore walls with physical border separating its atmosphere from the surroundings
existing qualities
building
Intersection spine and ore walls
Positioning the building mass
Function
Catalyst for empowerment site

The new working class locates itself at specific places for two reasons; economic and lifestyle.

“What they look for in communities … the opportunity to validate their identities as creative people.”

Richard Florida
Opportunities manufacturing on site
what to make?
Update manufacturing into the 21st century

NEW MEDIA INSTITUTE

Make the digital ...Physical
Concept program
visitors

artists
Use of walls for programmatic diversity
Introduce the route as connecting element
Use build mass as border between two different atmospheres
Open up the central spaces to allow active squares to form
Interaction through walls
Create incisions to allow continuity atmosphere ore walls
Functional division and possible extension
Input heat pump system with canal water input
Input: local wall based induction unit with water based heating/cooling
Output: mechanical ventilation

Basic heating: floorheating with a heatpump based on temperature water canal

grey water system from rainwater roof
Adjust openings to promote continuity
Case study

8th Chinese Flower Expo Information Centre / LAB architecture
Use of structural element as movement line and as border line of two atmospheres
Steel beam
wooden sloped roof
Prefab wooden walls (stability factor)
Concrete foundation

Structural composition

Two possible steel beam profiles
Room for light and electric fixtures

Dimensions:
- 250
- 200
- 500
Relationship user with steel beam
Relational sections border
Facades
Effect looking frame on the inside facade
Effect looking frame on the outside facade
References outside facade
Decay of the wooden panels

Western Red Cedar
SECTIONAL FRAGMENT 1:50

- **V1a**: interior wooden panels 30mm
- **V1b**: horizontal battens 21mm
- **V2a**: wooden framework 400mm
- **V2b**: thermal insulation in prefab
- **V3**: vertical battens 17mm
- **V4a**: vapor control layer
- **V4b**: vertical cladding 12mm
- **V5**: wooden plate 12mm
- **V6**: wooden plate 21mm
- **V7**: wooden plate 30mm
- **H1**: vertical cladding 12mm
- **H2a + b**: zinc gutter
- **H4a**: wooden plate 21mm
- **H4b**: wooden plate 12mm
- **H5**: wooden plate 50mm

**NOTE**: The image also includes a section labeled "Fragment building".