THE ASSIGNMENT
Post-industrial zone revitalisation

600 acre postindustrial site
A New Chicago
THE ASSIGNMENT

Ambiguous context
THE ASSIGNMENT
Ambiguous context
THE POSITION
Bad image of South Chicago
THE ASSIGNMENT
Lack of investment potential
THE ASSIGNMENT
Finding the position: research

MIDWEST STRUCTURAL
MASTERPLAN
Phase 1
THE ASSIGNMENT
Elaboration through scales

Illinois
Cook County
City of Chicago
South-Chicago
THE ASSIGNMENT

TO CONVEY URBAN INTENTION THROUGH MEANS OF ARCHITECTURE
THE STRATEGY

WHAT'S IS IT GONNA BE ???
THE POSITION
The vicious circle of problems

Poverty level
- South Chicago: 37.8%
- Chicago: 23.7%

Unemployment rate
- South Chicago: [graph]
- Chicago: [graph]

Education
- [Bar chart showing education levels]
THE POSITION

THE REAL SOUTH CHICAGO PROJECT
NEIGHBOURHOOD STUDY
Urban character and experience
NEIGHBOURHOOD STUDY
Character determined by the grid

- Streets going from “Nowhere” to “Nowhere”
- No hierarchy of spaces
- No common destination
- No change of character within the walking distance
NEIGHBOURHOOD STUDY
Uses and users

Porch: In the porch children play different games

Corridor: Facebook has many pictures of Chica-
goans standing in their corridor and posing

Backyard: The lawn is used by children to ride the bike

Patriotism: Some families hang the American flag in their garden to show the patriotism

Frontyard: Children use their yard to play with their friends as they feel secure here

Drug business: Drug business mostly happens on the corners of the neighbor-
hood blocks

Stairs: The stairs are used for sitting and observing the neighbors

Security: Some buildings are occupied by local gangs. They stand like security guards

Drugs: Heroin bags can be found on the lawn, next to where all the children play

Car culture: Locals enjoy standing next to their shiny cars.

Lawn-care: Some people like maintaining their lawns: mowing, watering, grubbing up weeds

Plastic chairs: Plastic chairs can often be found almost in each porch. They are used to stare at neighborhood

Fence: Some people use high fence to protect their house from robbers.

Home parties: Many people were sharing their home party photos to their Facebook profile

Gun culture: Facebook provides many pictures of South Chicagoans holding a gun inside their house

Drug business: Facebook provides many photos of South Chicagoans holding a gun inside their house

ROLE OF AN ARCHITECT
TO PROVIDE A PLACE TO SEE, MEET AND LEARN FROM EACH OTHER
THE ANCHOR PROJECT LOCATION
Neighbourhood potential locations

[Map showing potential locations for the Anchor Project with different colors representing various types of buildings and land use.]
THE ANCHOR PROJECT LOCATION

Neighbourhood potential locations
THE ANCHOR PROJECT LOCATION
Site evaluation
THE ANCHOR PROJECT LOCATION

Site evaluation
THE CONCEPTUAL FRAMEWORK

Concentrating the effort
URBAN STRATEGY

- PUBLIC SPACES SUPPORTED BY KEY PUBLIC BUILDINGS
- ROBUST AND FLEXIBLE FRAMEWORK
THE ANCHOR PROJECT
Urban research initiative
THE ANCHOR PROJECT

SOUTHWORKS URBAN RESEARCH INITIATIVE

- AGRICULTURE
- ENERGY
- URBANISM
- INFORMATION
- TRANSPORT
- WATER MANAGEMENT
- MANAGEMENT
- ARCHITECTURE
THE MASTERPLAN
THE ANCHOR PROJECT
Functional framework
THE MASTERPLAN
Future plug-in
THE ORE WALL PARK
The heart of the campus
THE MASTERPLAN
The lakefront destination
THE MASTERPLAN
Continuous public space
THE LEARNING CENTER
The strategic point of the masterplan
THE MASTERPLAN
The lakefront destination
THE MASTERPLAN
Morphological anomaly

BREAKING THE GRID
THE MASTERPLAN
The new neighbourhood center
THE LEARNING CENTER
Urban design
THE LEARNING CENTER
Urban design
THE LEARNING CENTER

Urban design
THE URBAN RESPONSE
INTERSECTION OF THREE ENVIRONMENTS
INTERSECTION OF THREE ENVIRONMENTS
INTRODUCTING DIFFERENT URBAN EXPERIENCES
MEDIATION OF SCALES
BUILDING STRUCTURE

FUNCTIONAL COMPOSITION & URBAN INTENTION
THE LEARNING CENTER
Functional concept

ADMINISTRATION
MEETING ROOMS
COMPUTER ROOMS
LABS
STUDY ROOMS
LANGUAGE SCHOOL
CLASSROOMS
LECTURE ROOMS

VOCATIONAL SCHOOL

LABS
STUDIO SPACES
MODEL HALL
MACHINE ROOMS

WORKSHOP

ADMINISTRATION
COMPUTER LABS
NON-PRINT
RESEARCH MATERIALS
READING SPACE
LOUNGE AREA
STUDY AREA
PRINT COLLECTION

LIBRARY

RETAIL CAFETERIA
CANTINE
DAYCARE
AUDITORIUM
MAINTENANCE & FACILITIES
LOBBY

SHARED FACILITIES
THE LEARNING CENTER

Uses and users

- DAYCARE
- WORKPLACES
- AFTERSCHOOL
- EVENING CLASSES
- VOCATIONAL CLASSES
- OPEN WORKSHOP
- LIBRARY

OPEN EVENTS
THE LEARNING CENTER

Concept diagram

URBAN INTENTION + FUNCTIONAL ORGANISATION + THE MOVEMENT SYSTEM
1.1 EXPLORE LAB
1.2 OPEN WORKSPACES
1.3 HELP DESK
1.4 METAL WORKSHOP
1.5 WOOD WORKSHOP
1.6 CNC
1.7 LASER CUTTER
1.8 3D PRINTERS
1.9 STUDIO ROOM
1.10 AFTERSCHOOL
1.11 OPEN PLAYROOM
MULTIPURPOSE SPACE

CP AGATA MAJCHERSKA
TUTORS: ROBERTO CAVALLO, HUBERT VAN DER MEEL
MSC 4 CHICAGO GRADUATION STUDIO
P4
SOUTH WORKS LEARNING CENTER
BRINGING TOGETHER SOUTH CHICAGO AND THE LAKESIDE DEVELOPMENT

LEVEL 1
SCALE 1:200
SECTION B
SCALE 1:200
4.1 SELF CHECK-OUT
4.2 ON-LINE CATALOGUE
4.3 OPEN STUDY AREA
4.5 QUIET STUDY ROOM
4.7 QUIET STUDY ROOM
4.8 QUIET STUDY ROOM
4.9 BOOK COLLECTION
STRUCTURE
Two structural systems

Bubble deck slab

Double-T floor
STRUCTURE
Two structural systems
STRUCTURE

Two structural systems
CLIMATE
Two climate systems
CLIMATE
Aquifer heating and cooling

Illinois Water & Related Wells

Map Layers
- Reference_Layers
- Water_and_Related_Wells
- Karst_Areas
- Bedrock_Topography
- Aquifers
  - Major Sand and Gravel Aquifers
  - Potential Aquifers less than 50 ft
  - **Major Rock Aquifers less than 300 ft**
  - Major Rock Aquifers less than 500 ft
  - Major Rock Aquifers greater than 500 ft
- Drift_Thickness

Basemaps
- World Topo Map
CLIMATE
Centralised district system
CLIMATE
Heating and cooling

SUMMER

WINTER

A.H.U.
H.EX.
H.P.U.
ENVELOPE
Two facade systems
ENVELOPE
Two facade systems
winds to the south west

outdoor program
natural ventilation to external
program areas, with local use
of fans for still days.

atrium
mixed mode operation

administration
mixed mode operation to
with air supply from atrium
when naturally ventilated,
end exhaust out through
an acoustic double skin

gallery

wind foil
PV wind foil to top of
chimney, radiant heat from
back of panels induces
convective air movement

plaza

living core

+ ve

- ve

carpark

wind