THESIS 2010

Context Analysis

Sketches/Model - Economic Dynamics
Creation - Destruction

LEGES, EXISTING BLOCKS
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Time
Pessimistic

EXTREME

Life Cycle, Natural
success / decline

Unit to Whole - Share - Carry
Growth - Decline
What is Left Behint?

After Destruction (Fire/Flood)
Water/Waterfront Space
After Creation (Natural/Manmade)
Share with Classic Moment

Friday 22 - 3D model, existing development

Business Figures

Pre-FAB
Sout, Containerized
Structure - Flexible Use
-soil, Semis
-units

Pre-FAB
Sout, Containerized
Structure - Flexible Use
-soil, Semis
-units

45° 33' 20.48" N
95° 54' 25.42" W
**Organization**
- Orientation

**Community**
- Outreach
- Connection

**List of Clients**
- BOCARD
- CHEMISTRY/BIOCHEM
- COMPUTER SCIENCE
- ENVIRONMENTAL STUDIES
- MATHEMATICS

**Pre-professional**
- DENTISTRY
- ENGINEERING
- LAW
- MEDICINE
- NURSING
- PHYSICAL THERAPY
- VETERINARY

**Careers**
- ACTUARY
- STATISTICIANS (Masters) D.C.R.T
- ENVIRONMENTAL SCIENTISTS - STUDY POLLUTION, RESEARCH ROLES
- CONSULTANTS
- SYSTEMS ANALYST OT
- COMPUTER SCIENTIST OT
- ARBOURIST O.C.G.T
- PT

**Chasy Fruity System**
- BDIA
- LIFEGUARD

**Existing Needs/Expansion**
- MEDICAL CENTER
- BUSINESS COURT HOUSE
- FIRST NATIONAL BANK
- CUSTOMER SERVICE CENTER
- WILLIAMS
- MEDICAL CENTER
- MEDICAL CENTER
- MEDICAL CENTER
- SUITE
SYSTEMS

Panels between Structure - LARGEST SPACE
Panels attached to Structure - FRAME/CELLS
UNIT

Exterior Structure

Scenario #1: Single Researcher

1 Researcher

Start: Lab Station - Well Equipped ECS
Office - Storage, Organized
Toilet/Sink

Research on Brain of Animal, need space for testing, documentation, analysis, and presentation

Step 2: 2 Researchers

Power Lab Space

Step 3: 4 Researchers

1 Conference Reception
Add Lab to System Measures

Footnote

Step 4: 10 Researchers
2 Parsons Recreational
Conference, Presentation/Research
Step 1: Location
Office
Reception
Approach & further

Step 2: Mathematics
1 Commercial
2 Offices
Reception
Multi Floor
10 AM

Step 3: Mathematics
5 Rooms
20 Rooms
Conference Room
Panel

Panel System:
Joint/Connection
Structure Pro Span
Panel Structure

Foundation

Multiple Floors?
Little Need on Site
High Speed/Lift/Elevator

Less envelope
Cost

3 Paths
Systems Flexibility
Section

Recessed Structural Framing
**Systems:**

- **Rexroth Framing**

  **Details:**

  - Passive Systems
    - Passive Solar Heat
    - Natural Ventilation
    - Operable Windows
    - Frame Connection

  - Raised Access Floor System

- **Panels:**
  - SKIN
    - Insulation
    - Moisture Barrier
  - Durable/Decomposable

- **Materials:**
  - Copper/Aluminum/Steel
  - Wood

- **Foundation:**
  - Low Impact
  - Easy Installation
  - Removed Quickly
FLEXIBILITY

Ce 5's - Elements Change at Apparent Rates

How do elevations change for seasons?

SECTION

Multi-Story Capacity

Control Future Expansion

ISSUES:

Circulation between floors
Stairs
ADA ramps/elevators

PROS:

Cornerwise - Better V to SA ratio
Aesthetics
Solar access
Scale
S 10' × 3' 2"
4' 8" × 2' 10"

11 3/4
12" × 12'
10' x 11' x 10'
3' 6" x 1' 11"

100 ft
2000
20 4/4

80 mm SERIES

TRANSPORT

PIERIES 60'

LEVEL: 9 COOL UNIT
2: COLUMNS P.H.
S. ROAD: 1 FLOOR
SYSTEMS

Foundation:
- Pin Foundation
- Secure Beam Bracket
- Post - Adjustable Bracket

Structure:
- Beams
- Columns / Columns
- Joints 1/2" x 1/2" x 1/2"
- Floor Joists - How it connects to beams
- Roof Beams

Panels:
- Base Panels
- Solid Panel
- Roof Panel
- Wall Panel
- Skylight
- High Boundary
- Metal Plate

Connections:
- HVAC
- Plumbing
- Electrical

INTERIORS:
- Furnishings

SITE:
- Master Plan
- Revit Retox

12%" | 6.5%" | 3 1/8"