

One.one 1.1



2008.03-2008.06

Re-order_reconstruction of deductive organization

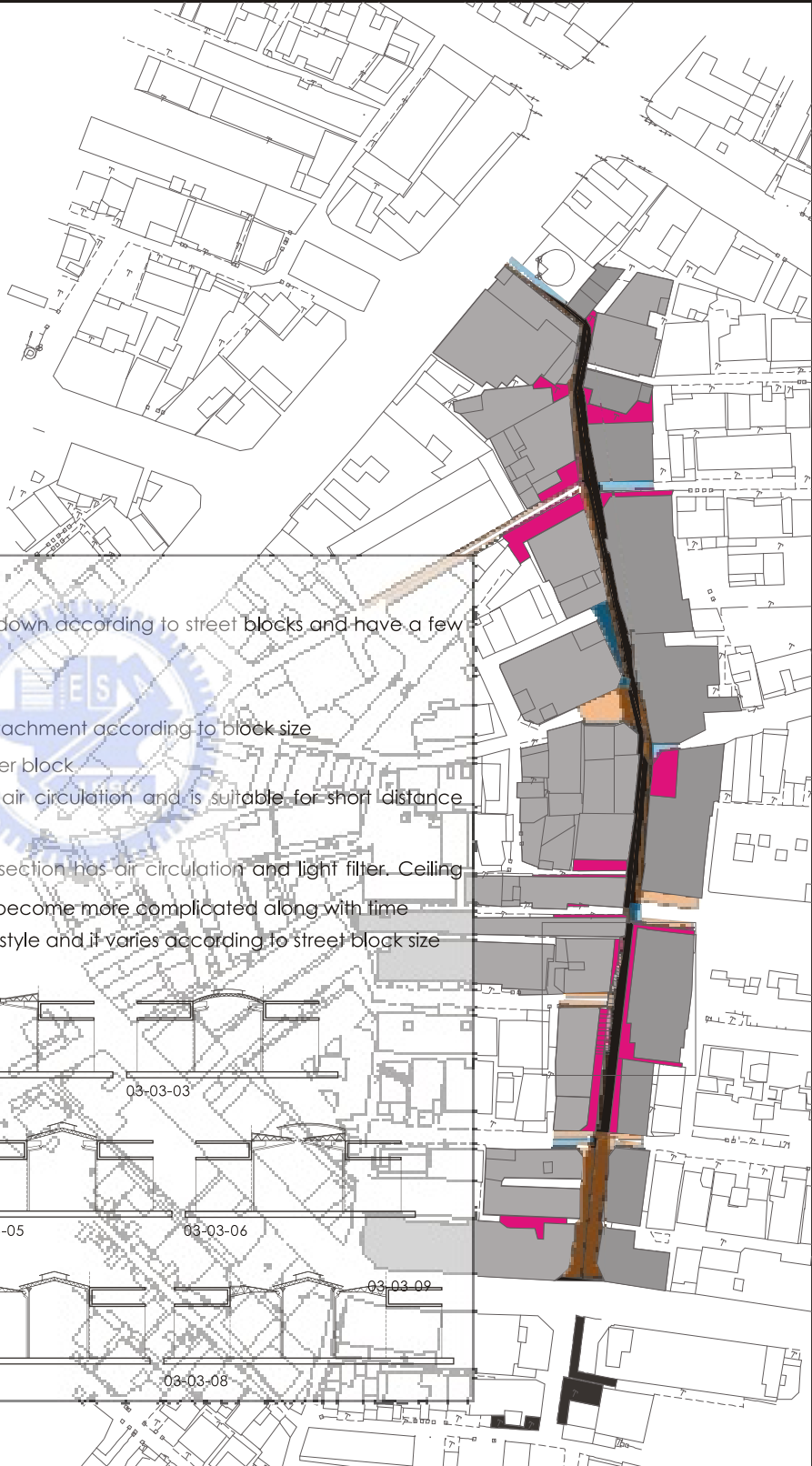
We choose to observe the ceiling of the food market in the city because people can see everywhere in the city. As time passes, the ceiling has different form and is continuous to be added. The only purpose is to change properties of the space like covering, taking shelter from rain, extending the building active space and becoming the affiliated space.

Re-order_reconstruction of deductive organization

Re_Grille

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ceiling form mapping

Ceiling form will enlarge and narrow down according to street blocks and have a few similar properties:

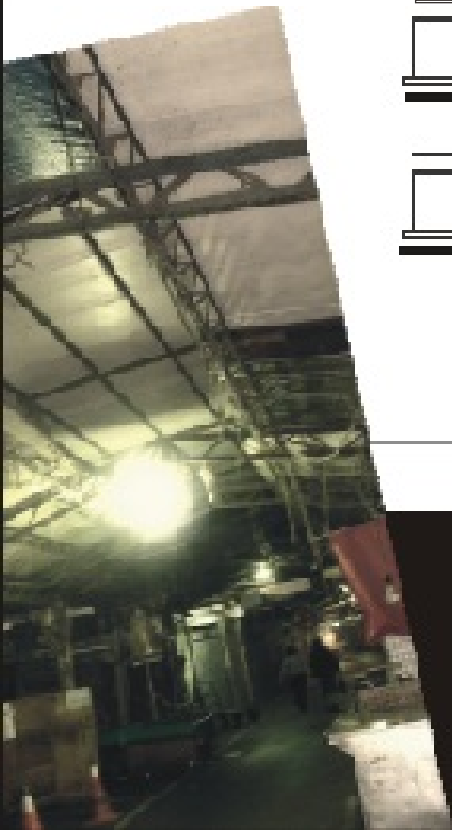
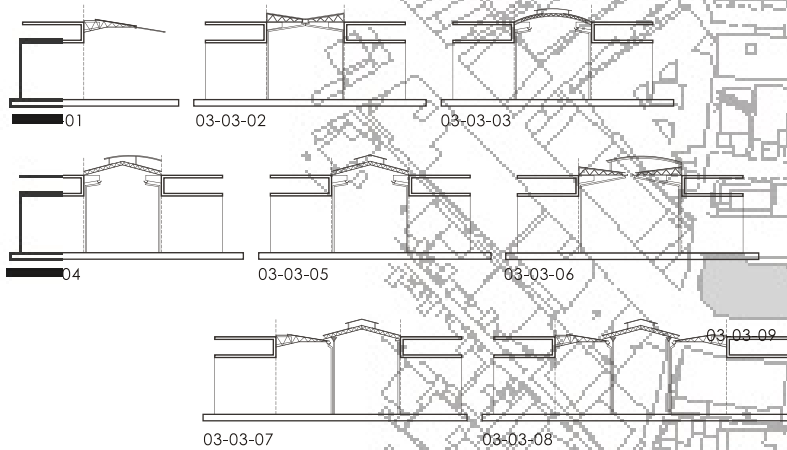
- 1. enclosed street block
- 2. capability of water drainage
- 3. ceiling would change and grow attachment according to block size

(03-03-01) entrance ceiling exists corner block

(03-03-02) arlier ceiling form has no air circulation and is suitable for short distance streets

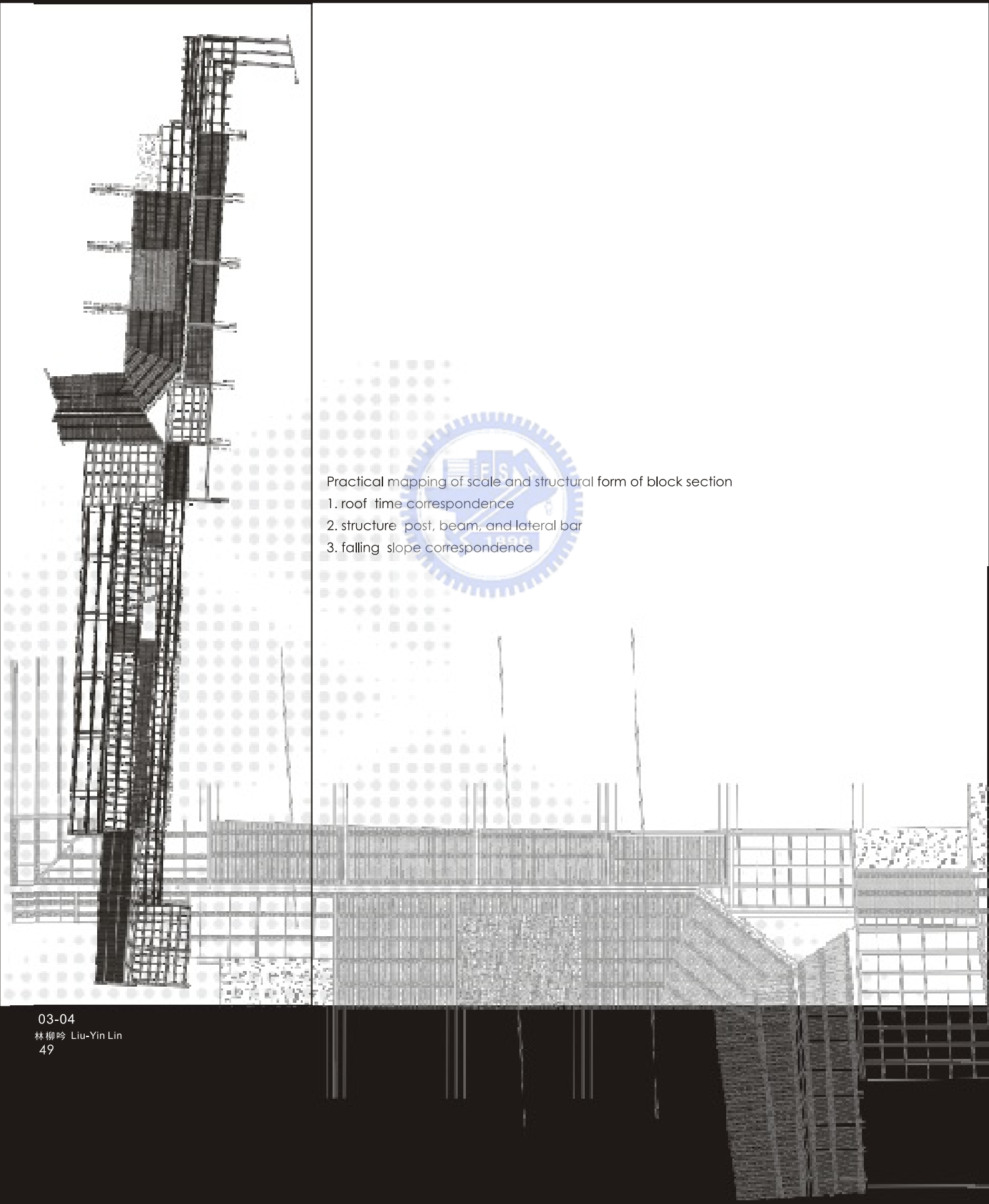
(03-03-03-06) Ceiling form of middle section has air circulation and light filter. Ceiling form would develop more styles and become more complicated along with time

(03-03-07-08) Metamorphosis of basic style and it varies according to street block size



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Re_Grille

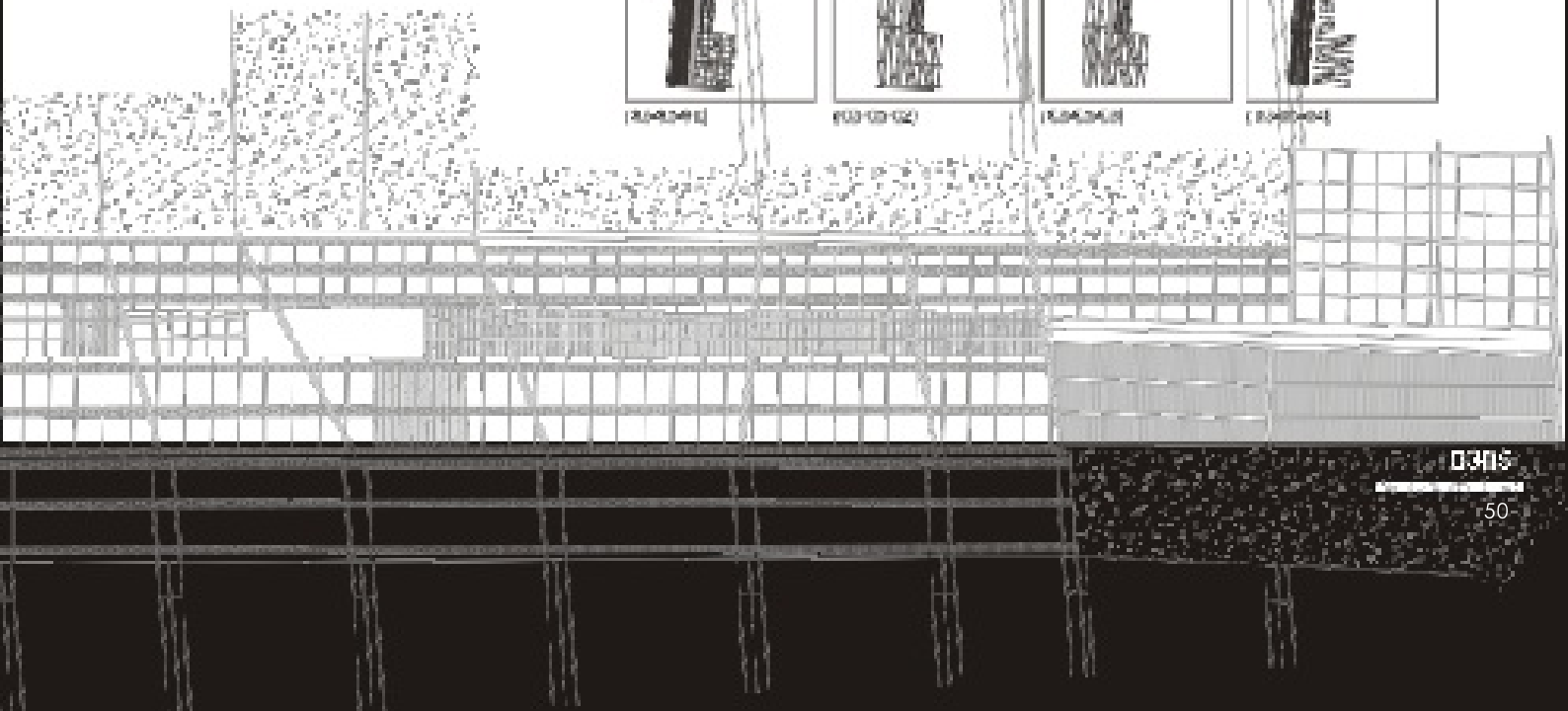
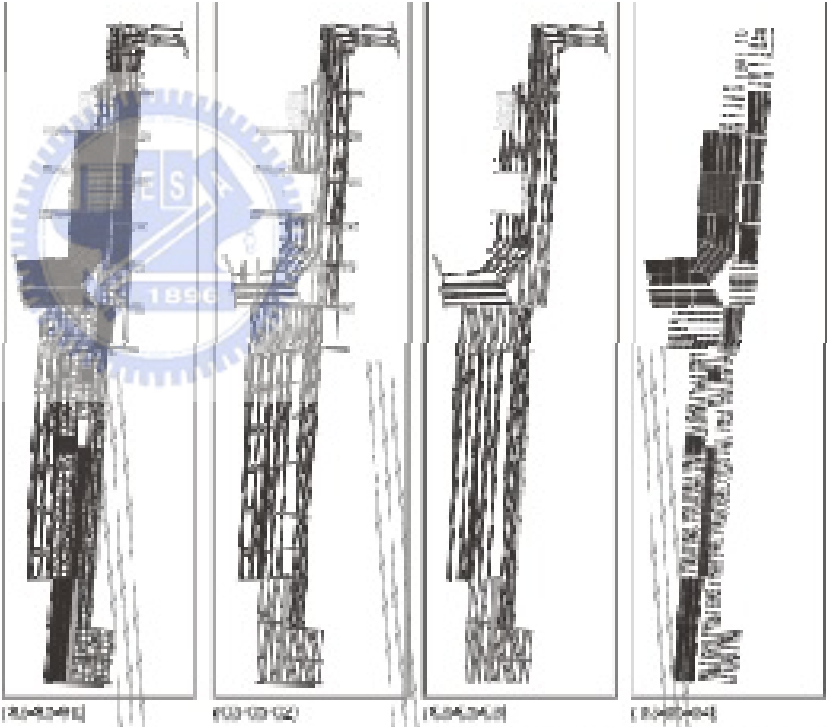


Practical mapping of scale and structural form of block section

1. roof time correspondence
2. structure post, beam, and lateral bar
3. falling slope correspondence

I realized Graphic Code from abstract pattern that the roof ceiling appearance of density comes from coexistence of major roof structure and minor bar. We could read and deduce back the size, material, and style from the short dash barcode.

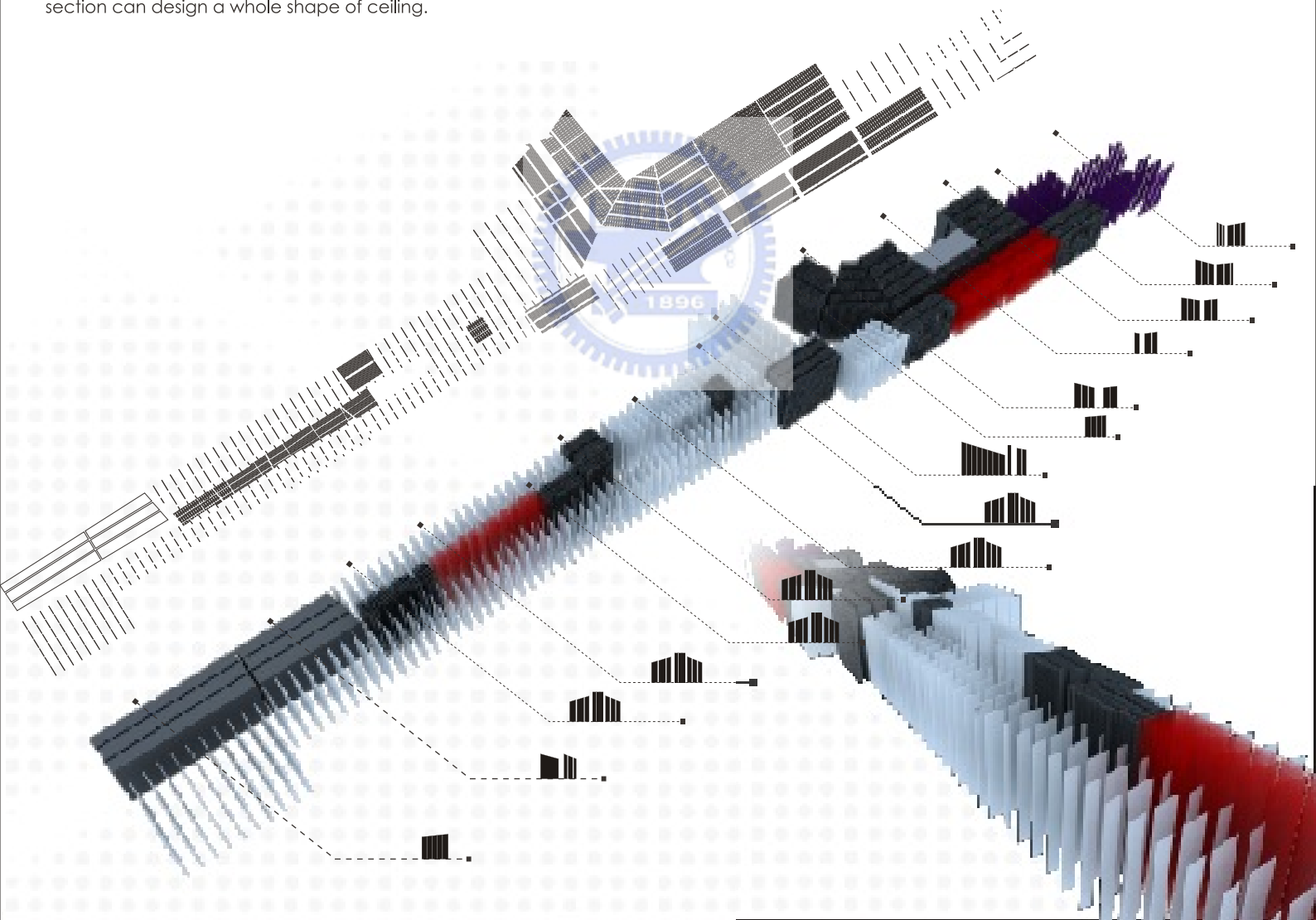
- (03-05-01)
complete mapping of street ceiling
- (03-05-02)
structural bar diagram
- (03-05-03)
Vertical bar diagram
- (03-05-04)
roof diagram after mergence

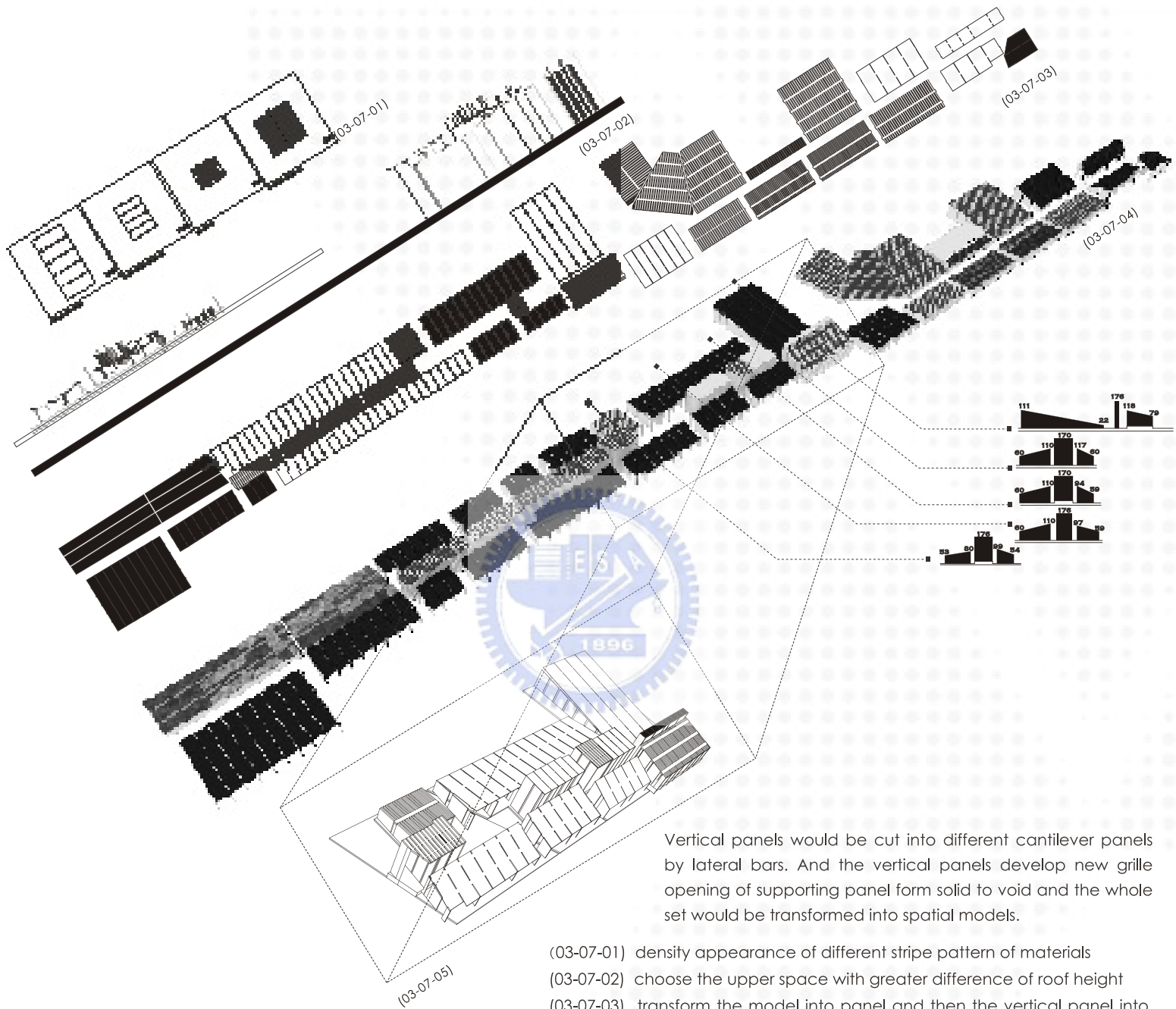


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Roof diagram after mergence will transform into model.
Different materials come out different thick and limpud vertical
board and its height reflects the height of ceiling. Different
section can design a whole shape of ceiling.





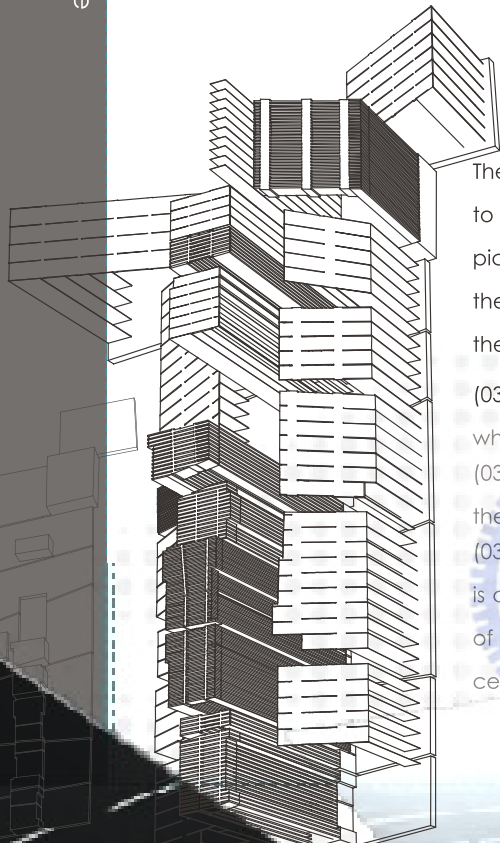
Vertical panels would be cut into different cantilever panels by lateral bars. And the vertical panels develop new grille opening of supporting panel from solid to void and the whole set would be transformed into spatial models.

- (03-07-01) density appearance of different stripe pattern of materials
- (03-07-02) choose the upper space with greater difference of roof height
- (03-07-03) transform the model into panel and then the vertical panel into grille opening
- (03-07-04) suspend supporting panel from grille opening
- (03-07-05) abstract spatial model

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Re_Grille

Model space



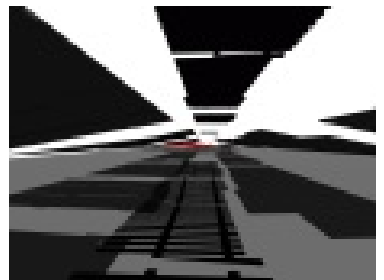
The opening formed will be a surface features to measure building structure of the drawing picture and to transfer it into a light. By the way, the light having different frequency will reflect the speed.

(03-08-01) Stand broad converts into the broad which is opened.

(03-08-02) The higher board is, the more obvious the shadow is.

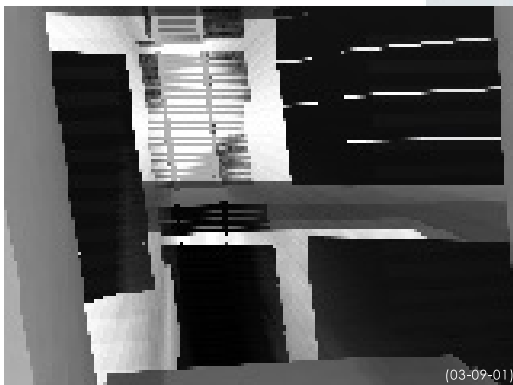
(03-08-03) The bottom end of the space model is changed from the ceiling. This vertical edition of structure is the same as horizontal pole in the ceiling of the baseplate.

(03-08-01)

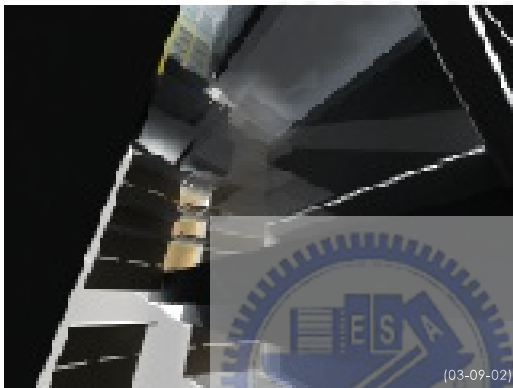


(03-08-02)

(03-08-03)



(03-09-01)



(03-09-02)



(03-09-03)

(03-09-01-02) Stand the spatial model vertically and discover a skin system with thickness

- 1 change view direction
- 2 continuous spatial characteristic

(03-09-03) Relationship of ceiling and allies after transformation become another continuous new relationship which links outward skin and vertical homogeneous levels together.

(03-09-04) site is located at Green Alley, Taichung

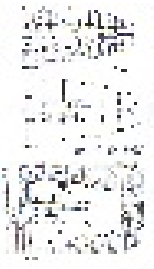
(03-09-05) I choose this building for the linkage design between skin system and space because the elevator tubes were set around the outskirts of building plan

(03-09-06) Combination of space and model

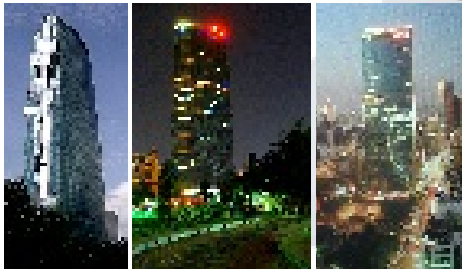
(03-09-04)



(03-09-05)



(03-09-06)





The best combination of space and model is one.
One. 1.1. The building "The One" in Taichung is an
example, it combine with its surface system and it
will have a different display according to different
program.

ONE . ONE



(03-11-01)
Because of interfering in surface system, we combine the slope with the elevation of grille and surface system and show spacing unbalanced grill.

(03-11-02)
Because there is a slope in the street system, when it places into the building space, it will transfer it to 90 degree of corner. It becomes corner space and merges all space of every floor.

One . one elevations

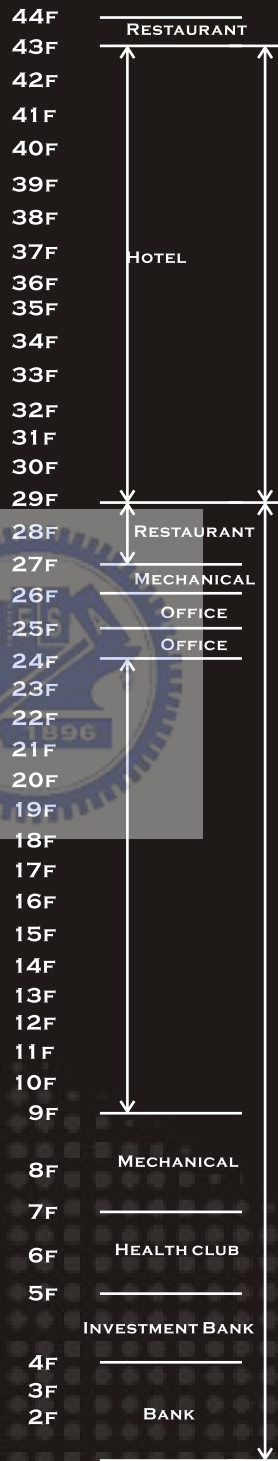
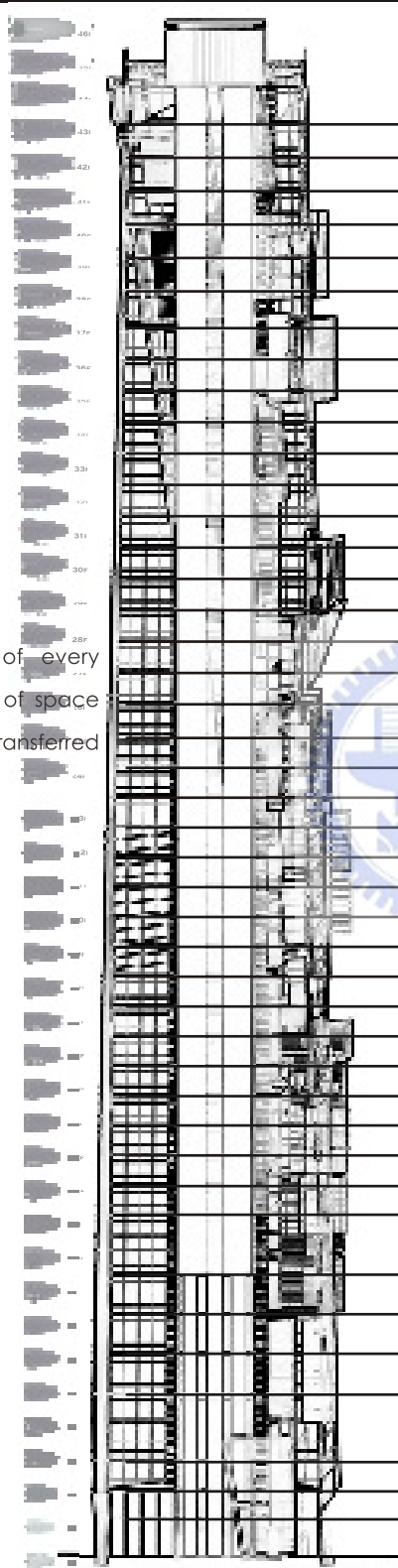
(03-11-01)

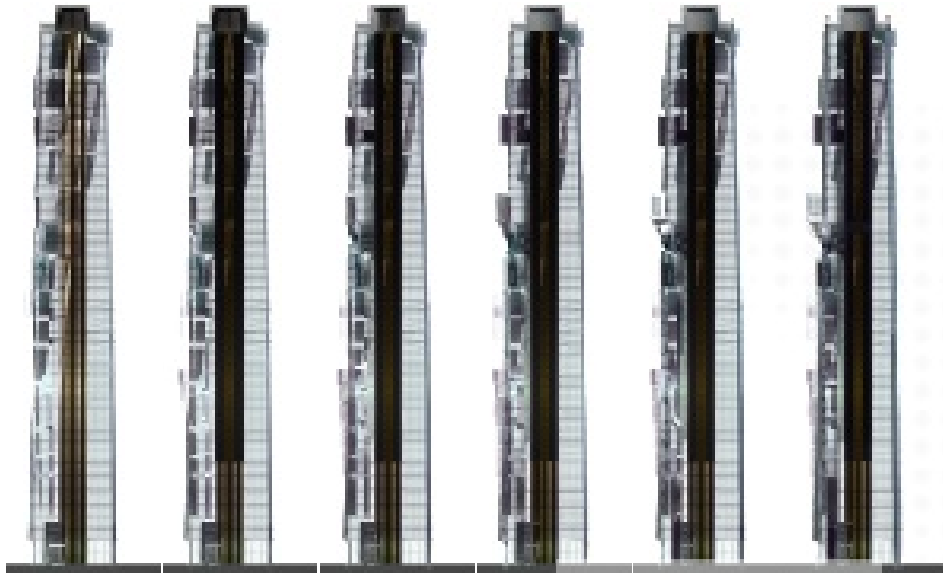
(03-11-02)

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Re_Grille

To analysis the program of every program, complex function of space can let the surface system transferred in to 90 degree meaningful.

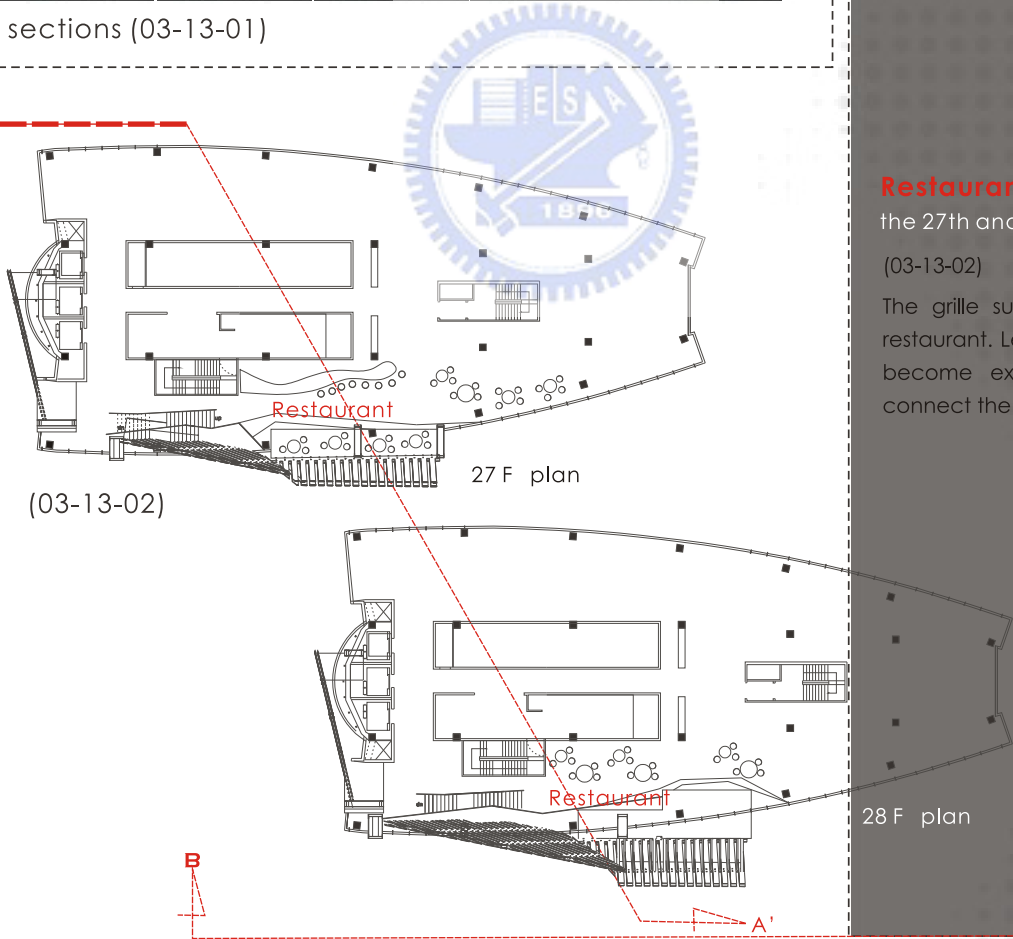




One . one sections (03-13-01)

(03-13-01)

The sections shows of one. One 1.1 is like a X-ray to understand the appearance of different grille in different floor. Let prominent grille become balcony and concave grill become a part of space.



(03-13-02)

27 F plan

Restaurant

the 27th and 28th story of 1.1

(03-13-02)

The grille surface system is a part of restaurant. Let the grid structure sloping become extension of the stair and connect the space.

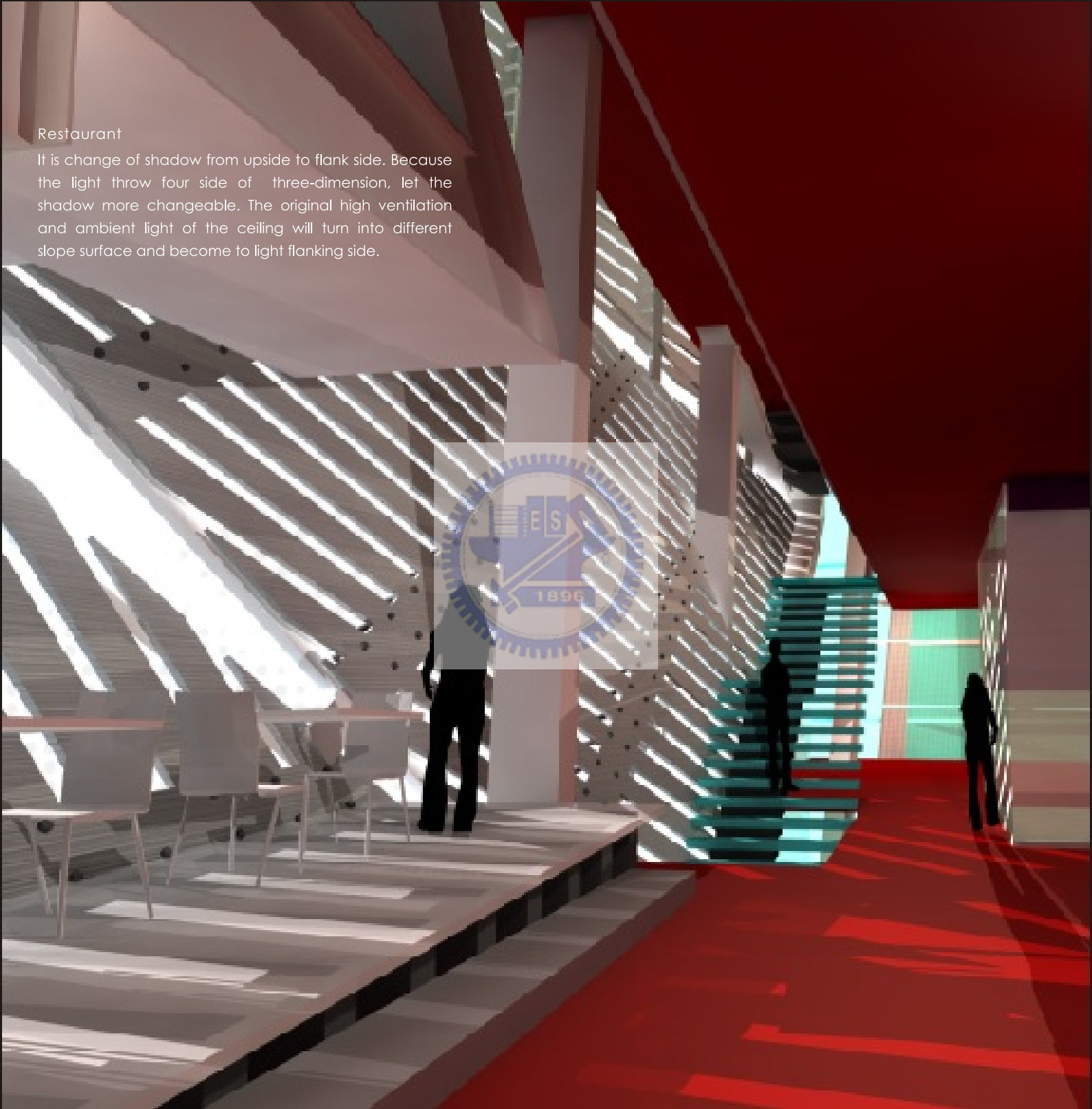
28 F plan

Re-order_reconstruction of deductive organization

Re_Grille

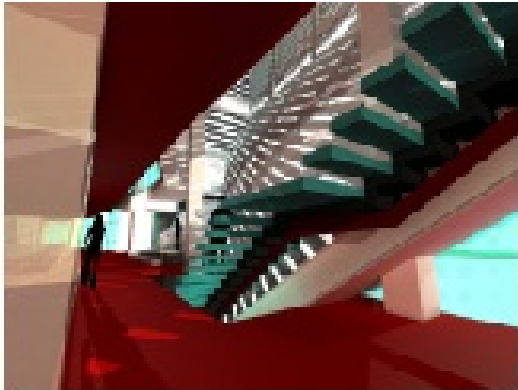
Restaurant

It is change of shadow from upside to flank side. Because the light throw four side of three-dimension, let the shadow more changeable. The original high ventilation and ambient light of the ceiling will turn into different slope surface and become to light flanking side.



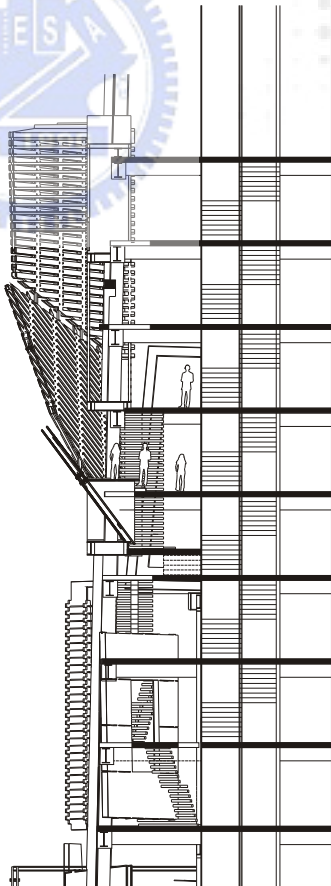
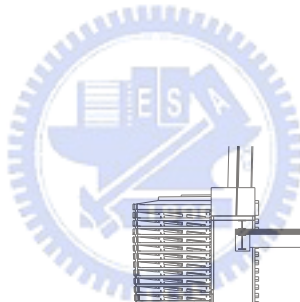
Restaurant

(03-15-01)



(03-15-01)

The grille surface system is a part of restaurant. Let the grid structure sloping become extension of the stair and connect the space.



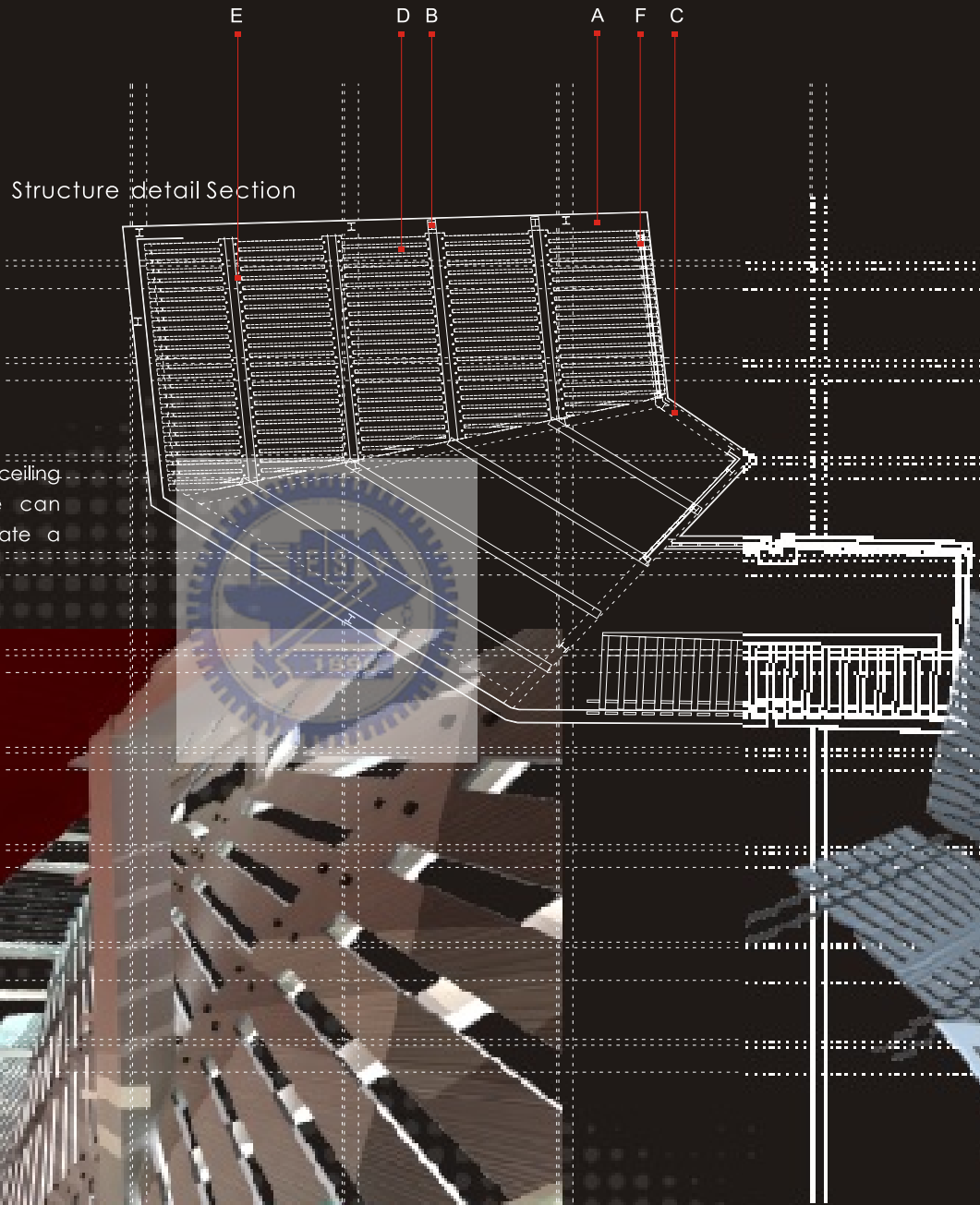
Restaurant Section A



Restaurant Section A 03-15

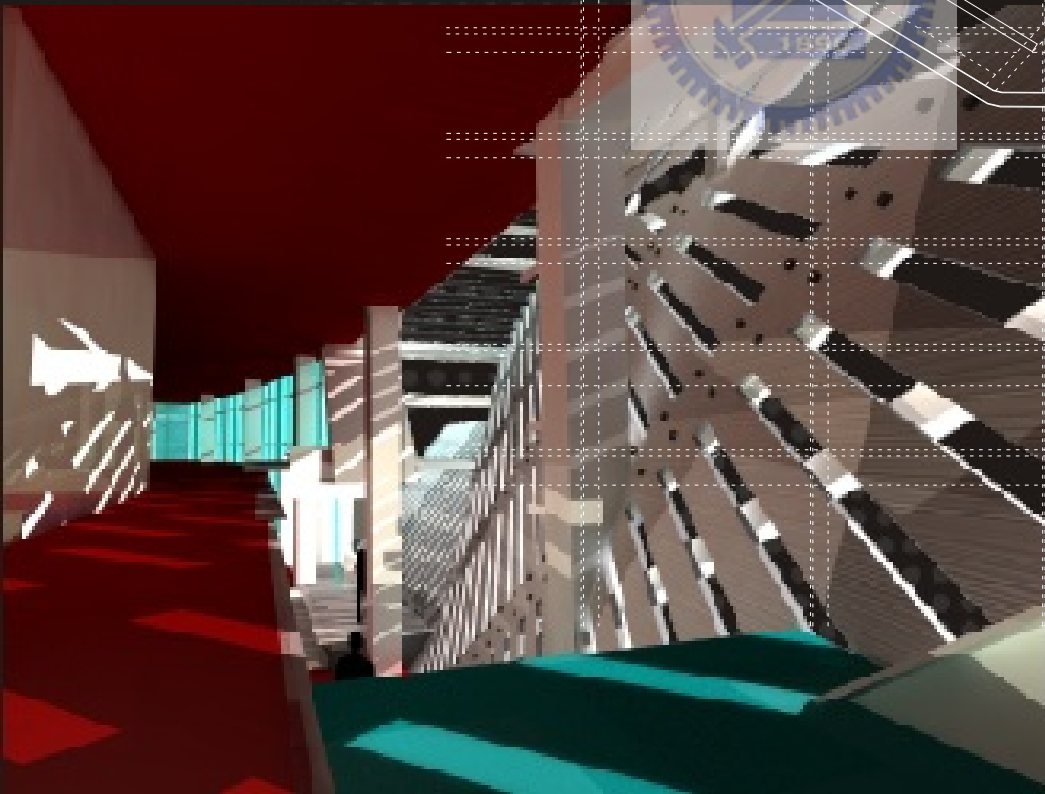
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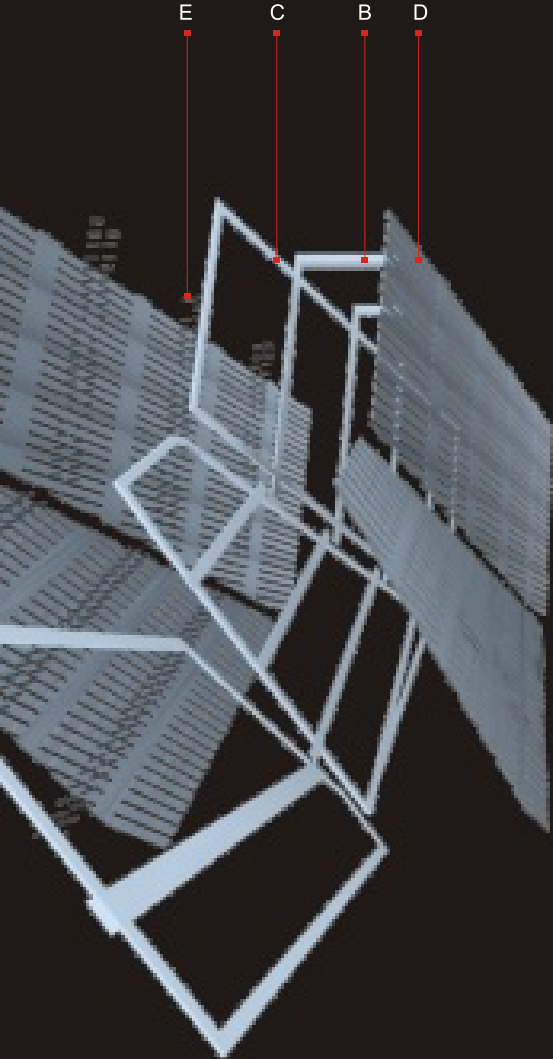
Re_Grille



(03-16-01)

The restaurant structure is just like ceiling structure. Different appearance can observe the same form and create a flowing space.



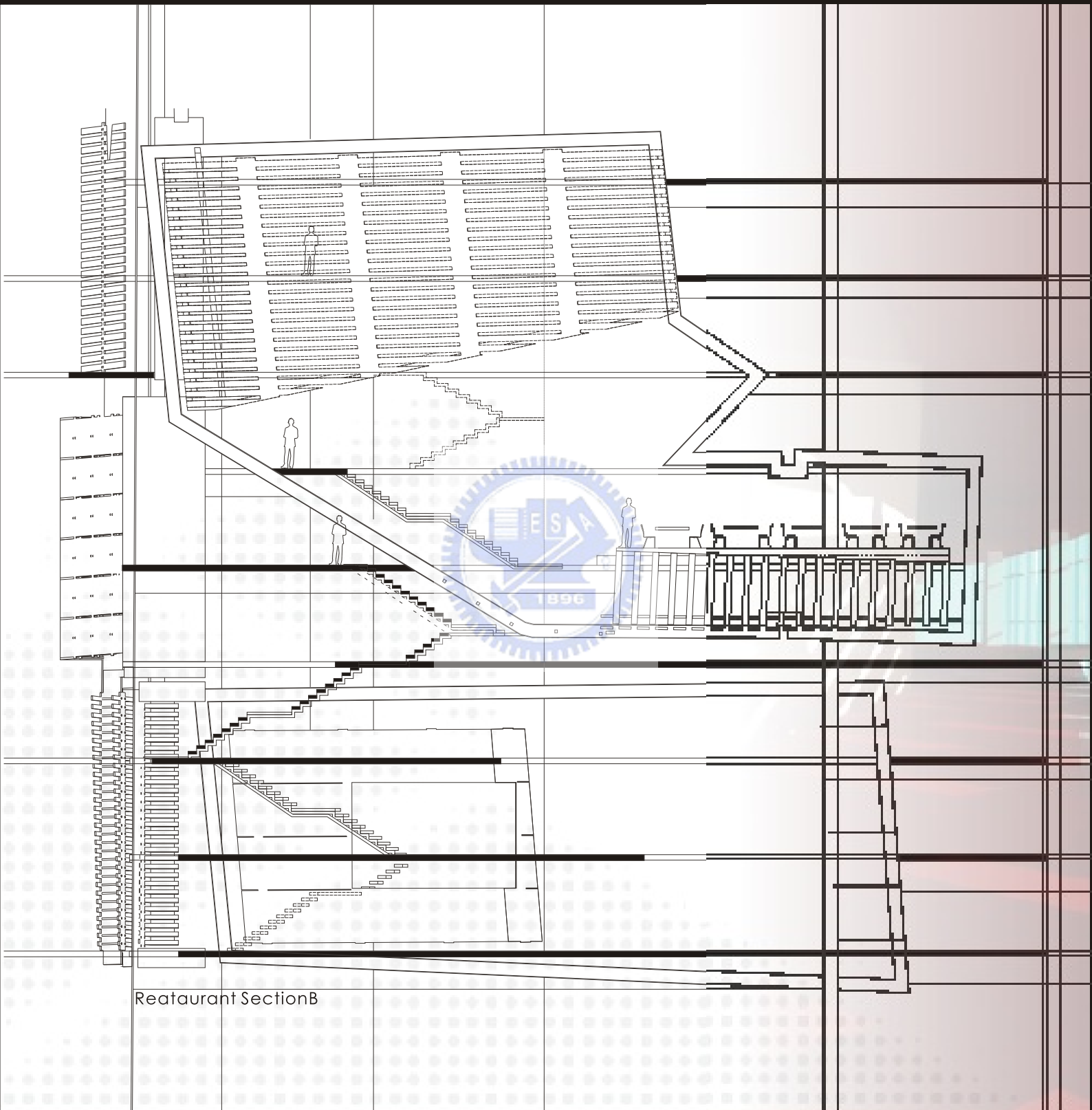


Structure

- A 488mmx300mm steel I-beam
- B 200mmx200mm H
- C 30mmx60mm galvanized steel battens
- D 30mmx60mm galvanized steel battens
- E 16mm dia. Threaded steel bolt
- F 100mmx100mm steel tube

Re-order_reconstruction of deductive organization

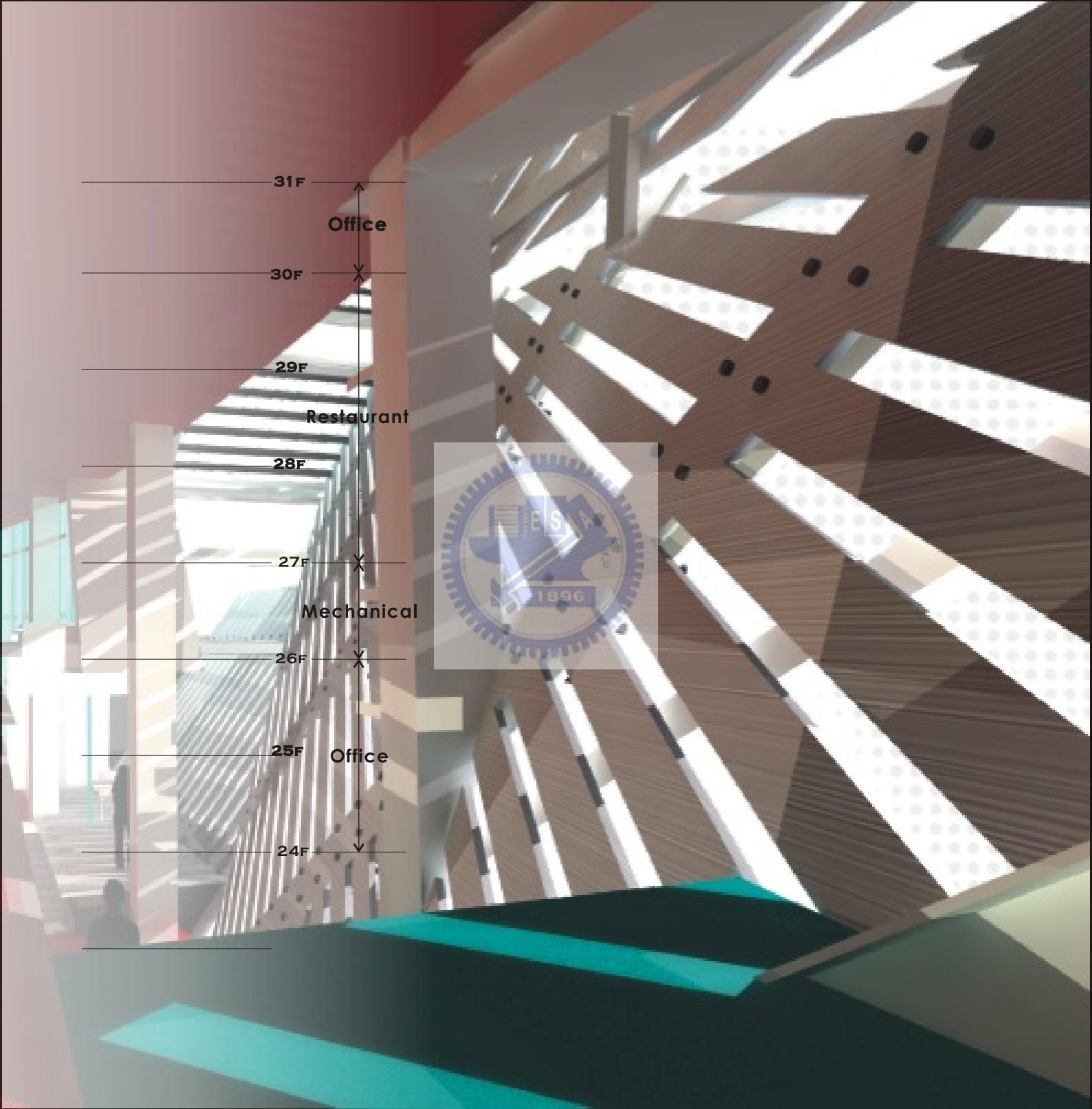
Re_Grille



03-18

林柳吟 Liu-Yin Lin

63

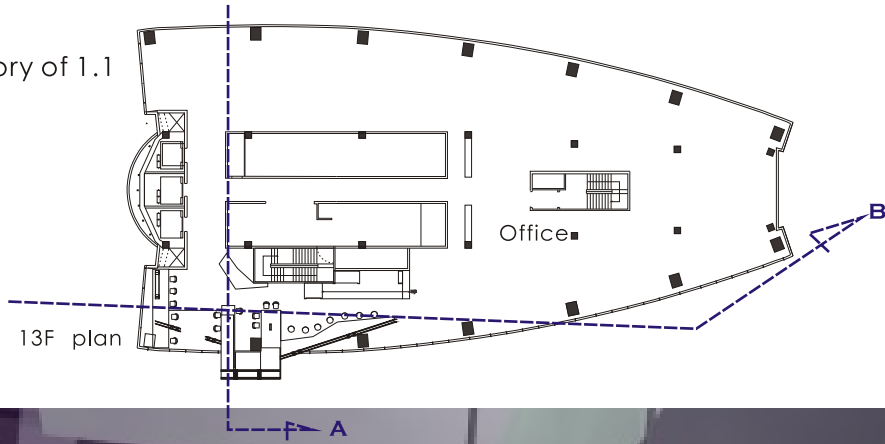


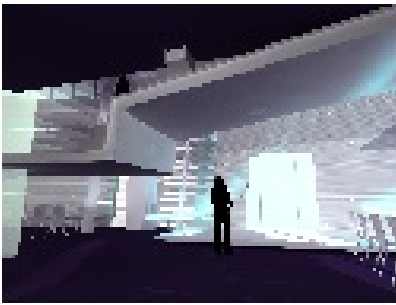
Re-order_reconstruction of deductive organization

Re_Grille

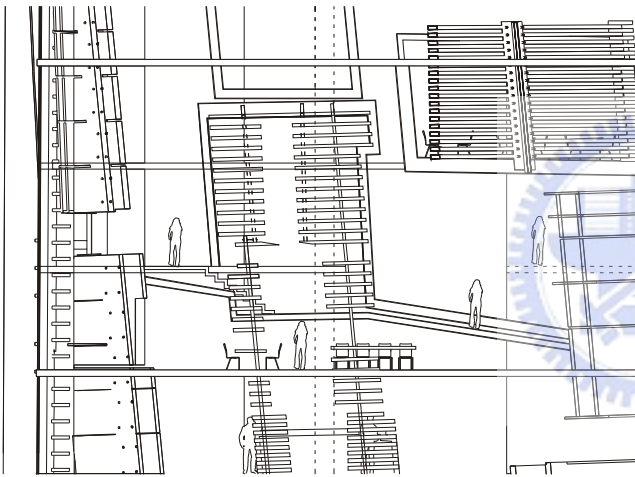
Office cafe

the 13th and 14th story of 1.1





(03-21-01)



(03-21-02)

(03-21-01)

The escalator is exported in the face of office café.

(03-21-02)

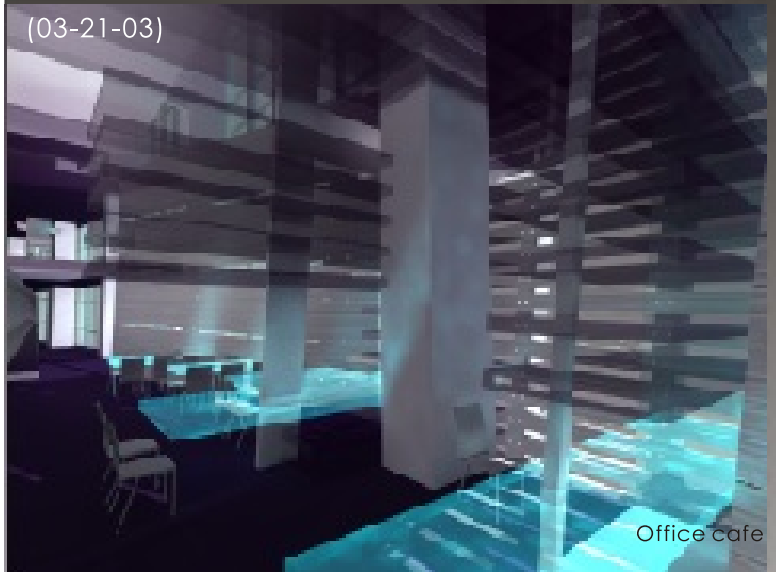
Section A, it is more closed daytime to the part of the grille, and it will become a shining element in the evening.

Office cafeSection B

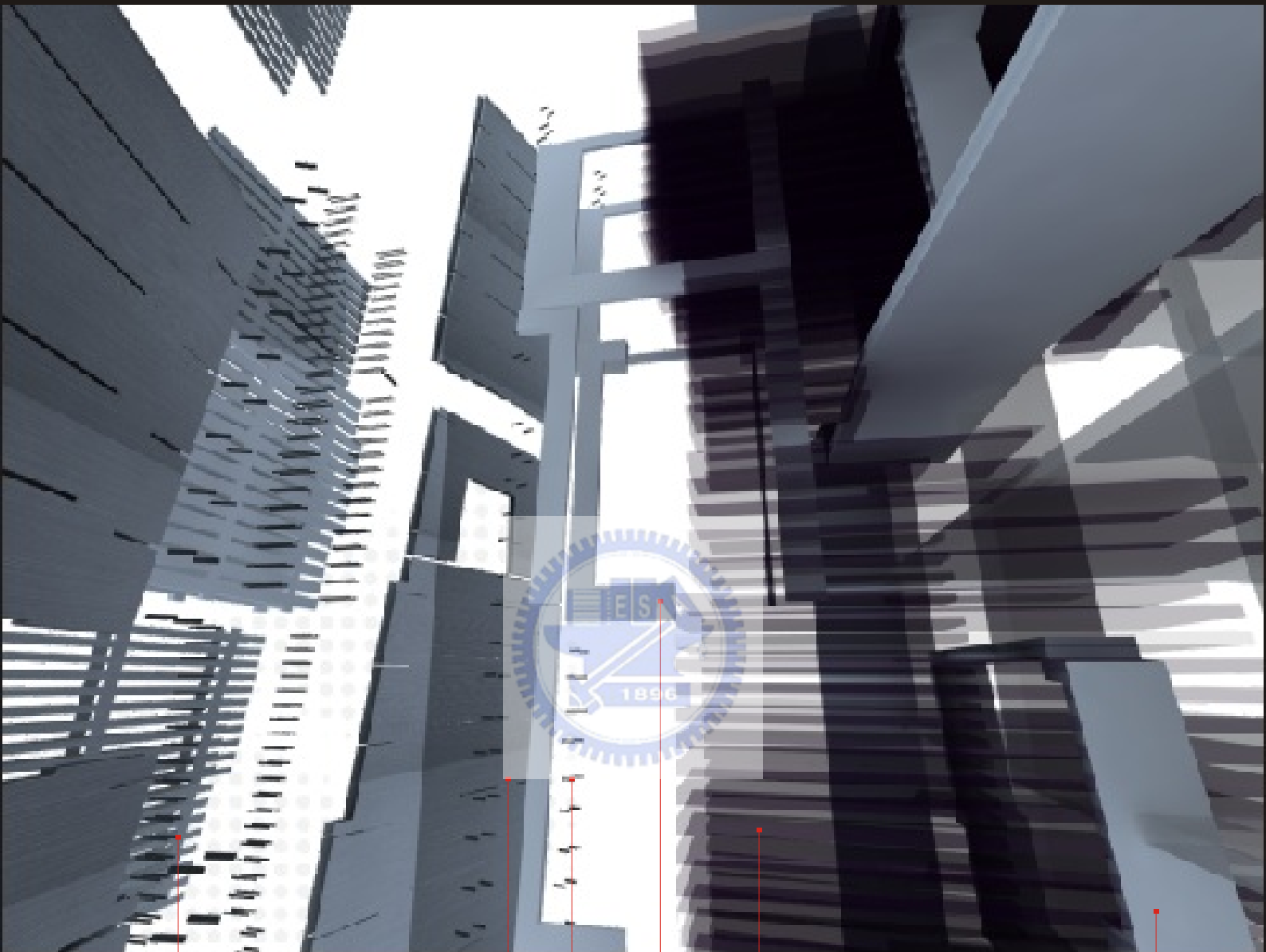
(03-21-03)

The horizontal board extends to the room. It can decorate the original structure, too, and at the same time adheres to the original structure, too.

(03-21-03)



Office cafe



Structure Detail

- A 488mmx300mm steel I-beam
- B 200mmx600mm steel I-beam
- C 30mmx60mm galvanized steel battensx2
- D 30mmx200mm galvanized steel battensx2
- E 16mm dia. Threaded steel bolt
- F 30mmx500mm galvanized steel battens

D

E

B

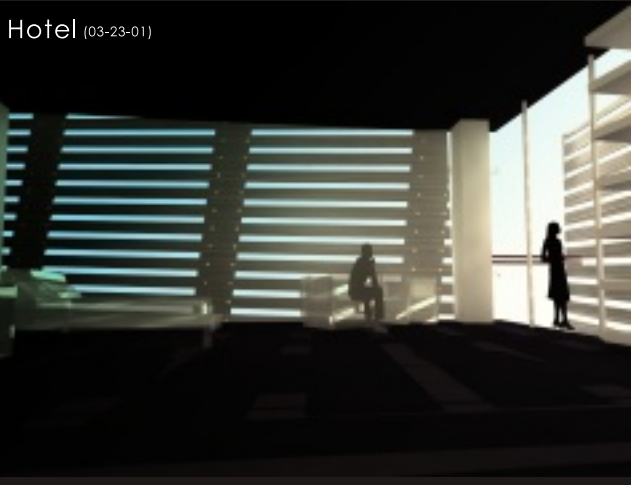
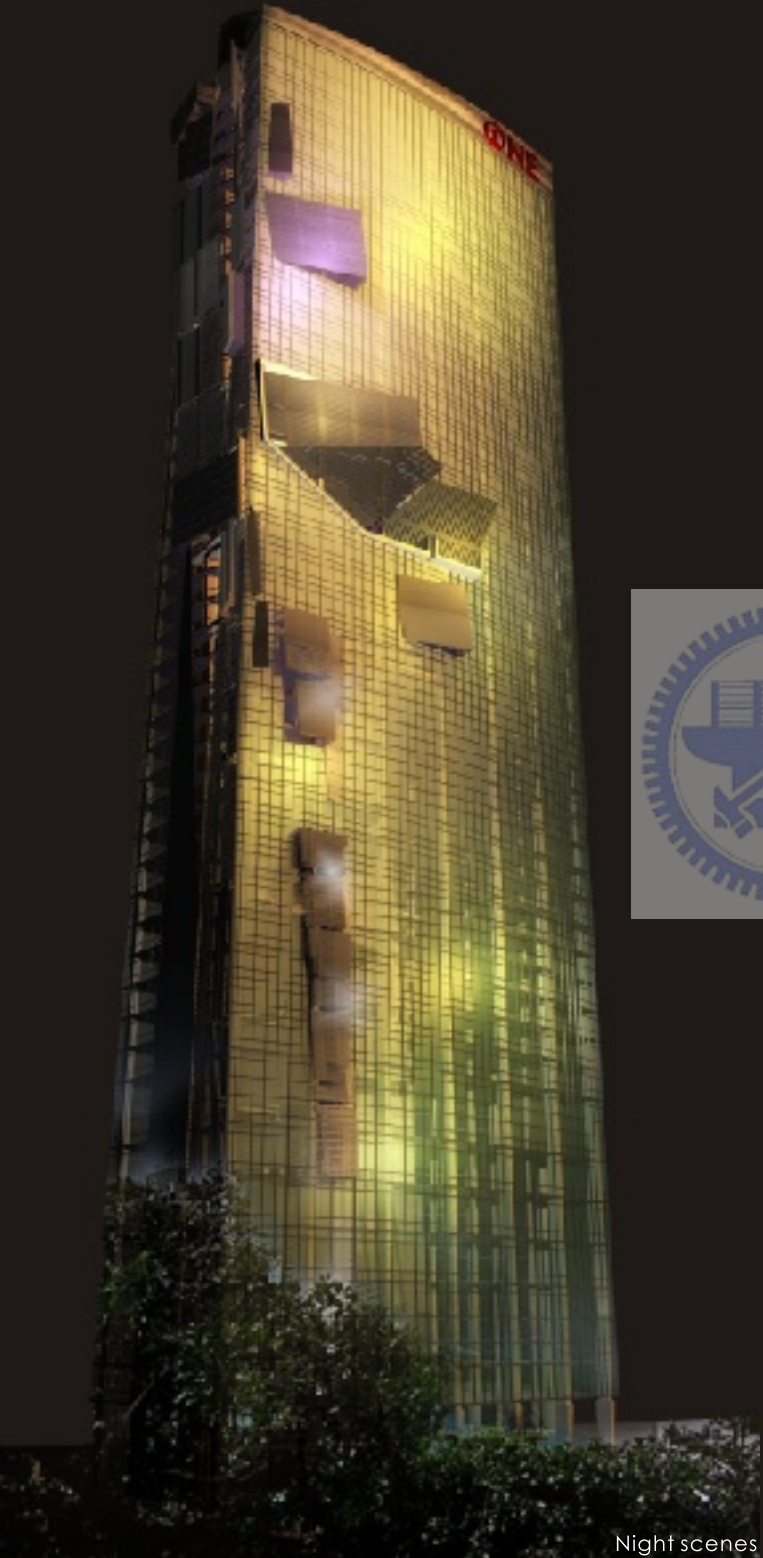
E

A

Hotel Elecator

(03-23-01)
The hotel spaces combine with the grille,
that stand out of the grille is the balcony
and become the part of the elevation.

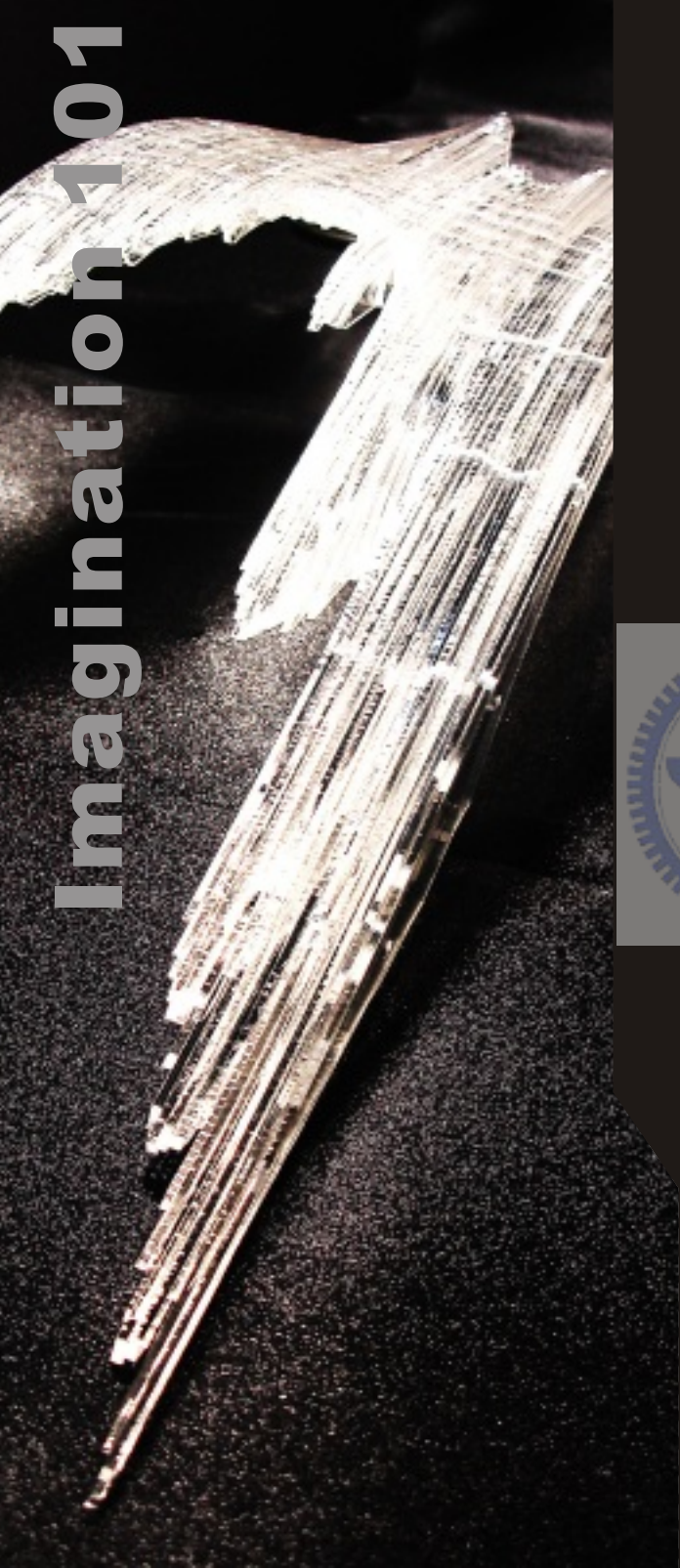
(03-23-02)
The shadow of the grid different frequency
changes on the stairs



Night scenes

Re-order_reconstruction of deductive organization
Re_Weaving

Imagination 101



2007.09-2007.12



Re-order_reconstruction of deductive organization
Re_Weaving
Imagination 101

Re-order_reconstruction of deductive organization

Re_Weaving



$E=1$

$$Q(x,y) = (x^2 - y^2) \cos(\sqrt{2}y)$$

$$P(x,y) = (x^2 - y^2) \sin(\sqrt{2}y) \quad F=1, \frac{E+P}{2}$$

$$Q(x,y) = \cos(\sqrt{2}y)$$

$$P(x,y) = \begin{pmatrix} (x^2 - y^2) \cos(\sqrt{2}y) \\ (x^2 - y^2) \sin(\sqrt{2}y) \\ \cos(\sqrt{2}y) \end{pmatrix}$$

$$W(x,y,z) = \begin{pmatrix} x^2 \\ x^2 y^2 \\ \cos(\sqrt{2}y) \end{pmatrix}$$

$M = \text{Diagonal}(\sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2})$

$F=1$

$E=1$

$$Q(x,y) = (x^2 - y^2) \cos(\sqrt{2}y)$$

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$F=1$

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$$W(x,y,z) = \begin{pmatrix} x^2 \\ x^2 y^2 \\ \cos(\sqrt{2}y) \end{pmatrix}$$

$M = \text{Diagonal}(\sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2}, \sqrt{2})$

$F=1$

Weaving Parametric Surfaces Imagination 101



$$f = 1 + \frac{\text{FRAME}}{20}$$

$$R = 1$$

$$x(u, v) = (R - v) \cos(2u^2)$$

$$y(u, v) = (R - v) \sin(2u^2)$$

$$z(u, v) = \sin(v) f$$

$$Q(u, v) = \begin{bmatrix} (R - v) \cos(2u^2) \\ (R - v) \sin(2u^2) \\ \cos(2u^2) f \end{bmatrix}$$

$$\text{Map}(x, y, z) = \begin{pmatrix} x^2 \\ x \cos(y^2) \\ \sin(2z) \end{pmatrix}$$

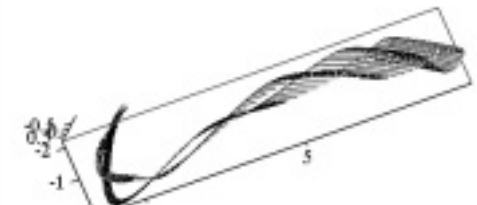
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f = 1



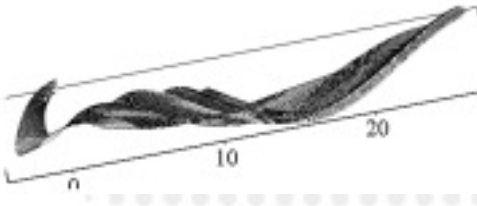
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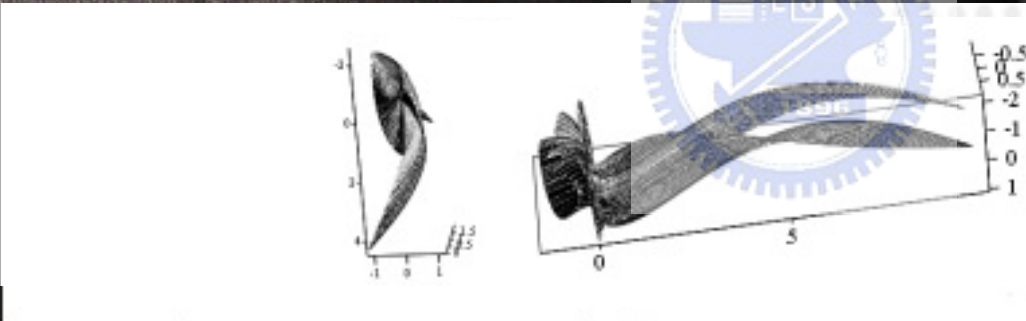
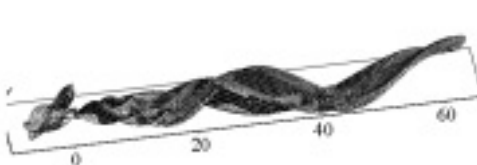
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f = 1



M = CreateMesh[0.2, 2, 2, 5, 200, 200, 8seg]

f = 1



$$R = 2$$

$$x(u, v) = (R - v) \cos(2u^2)$$

$$y(u, v) = (R - v) \sin(2u^2) \quad f = 1 + \frac{\text{FRAME}}{20}$$

$$z(u, v) = \sin(v) f$$

$$Q(u, v) = \begin{bmatrix} (R - v) \cos(2u^2) \\ (R - v) \sin(2u^2) \\ \cos(2u^2) f \end{bmatrix}$$

$$\text{Map}(x, y, z) = \begin{pmatrix} x^2 \\ x \cos(y^2) \\ \sin(2z) \end{pmatrix}$$

M = CreateMesh[0.2, 2, 2, 4, 200, 200, 8seg]

f = 1

$$R = 1$$

$$x(u, v) = (R - v) \cos(2u^2)$$

$$y(u, v) = (R - v) \sin(2u^2) \quad f = 1 + \frac{\text{FRAME}}{20}$$

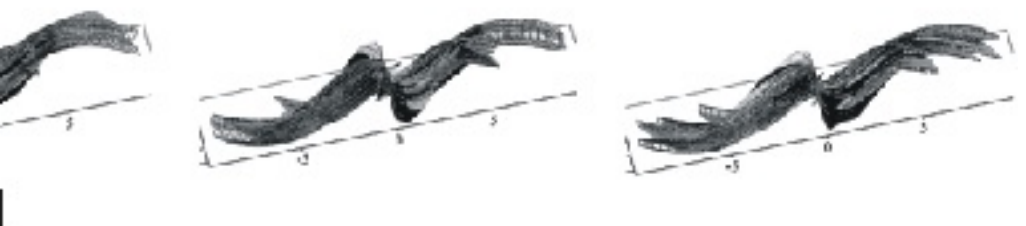
$$z(u, v) = \sin(v) f$$

$$Q(u, v) = \begin{bmatrix} (R - v) \cos(2u^2) \\ (R - v) \sin(2u^2) \\ \cos(2u^2) f \end{bmatrix}$$

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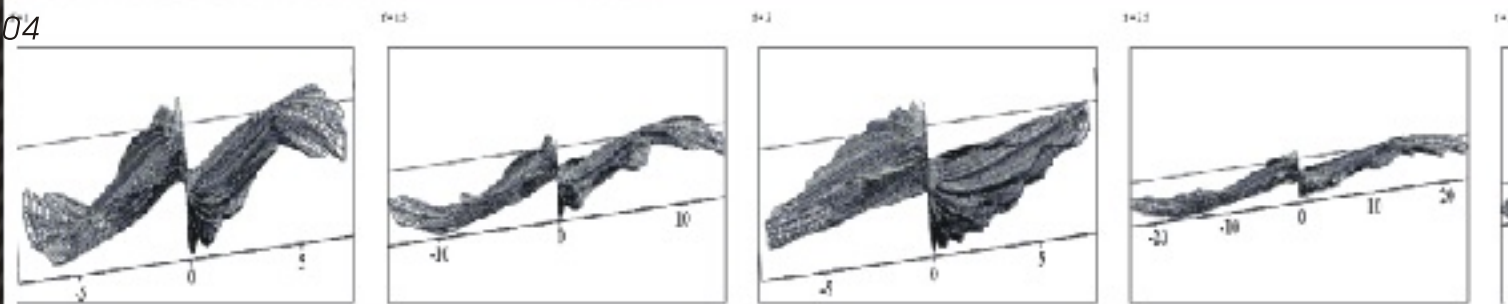
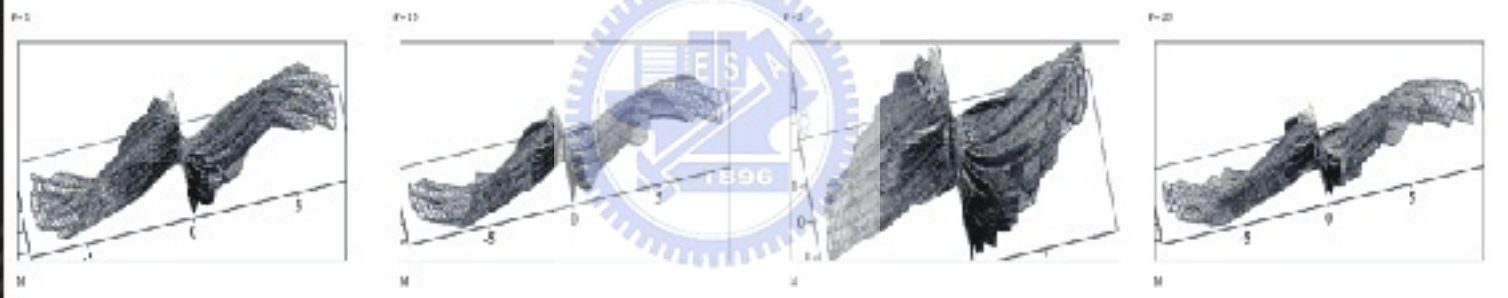
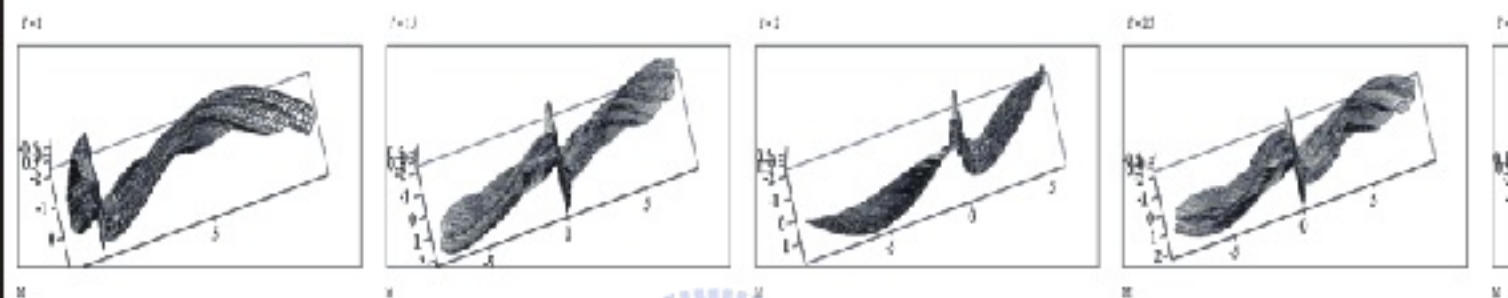
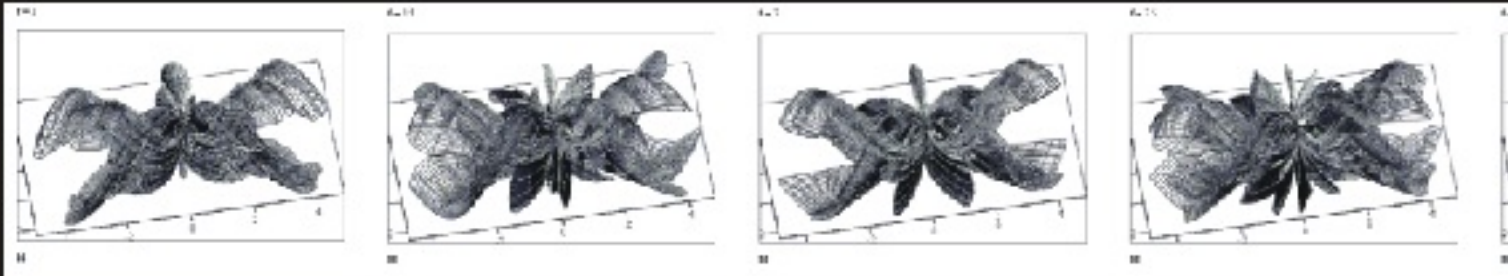
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f = 1

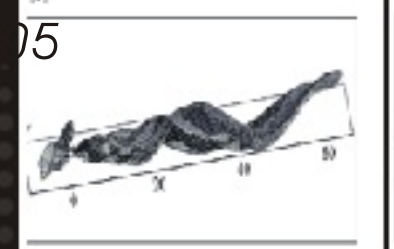


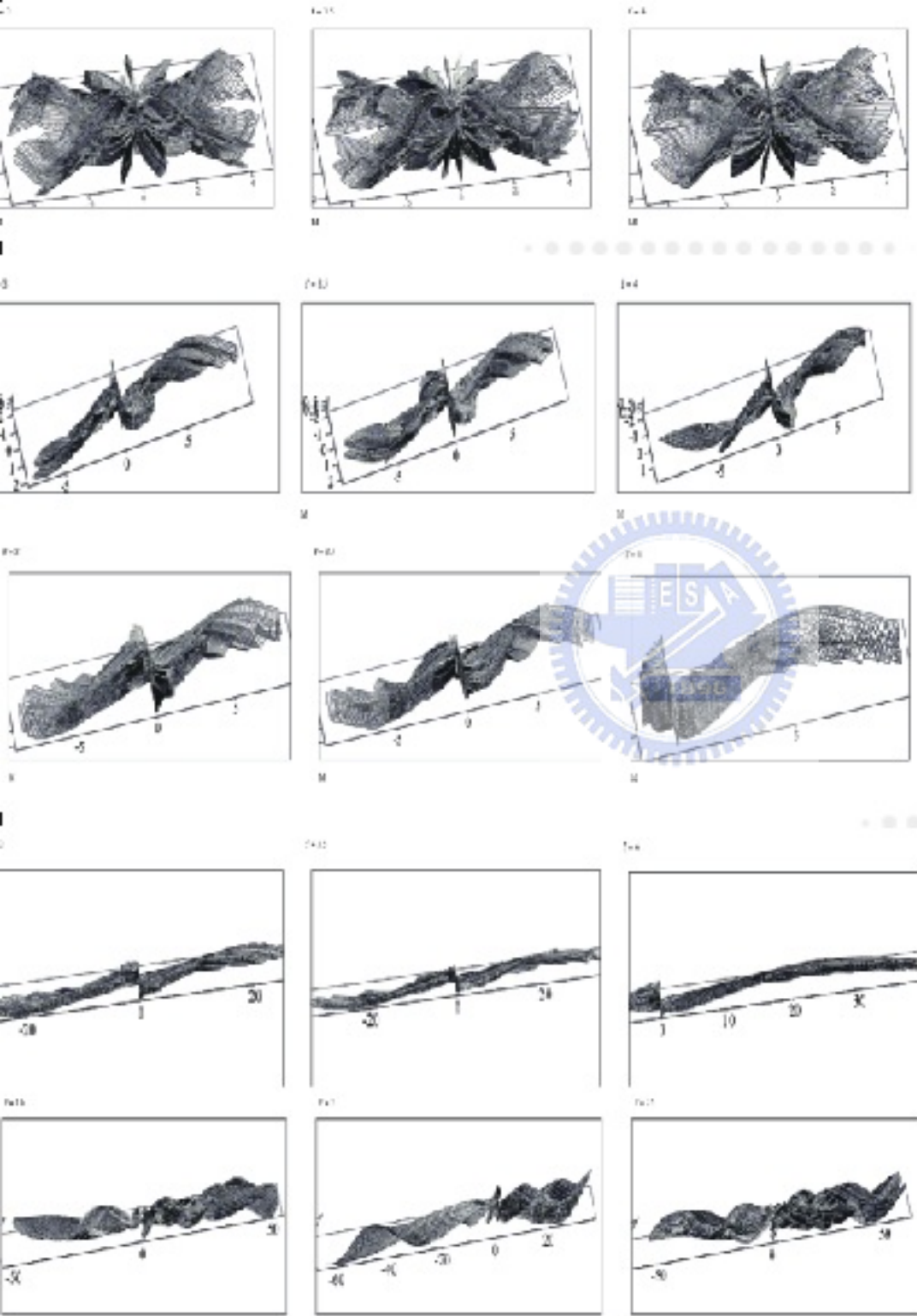
Re-order_reconstruction of deductive organization

Re_Weaving



$F = 1 + \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$	$F = 1 + \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$	$F = 1 + \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$	$F = 1 + \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$	$F = 1 + \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$ $\frac{1}{20} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20} \cdot \frac{1}{1} = \frac{1}{20}$
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Re-order_reconstruction of deductive organization

Re_Weaving

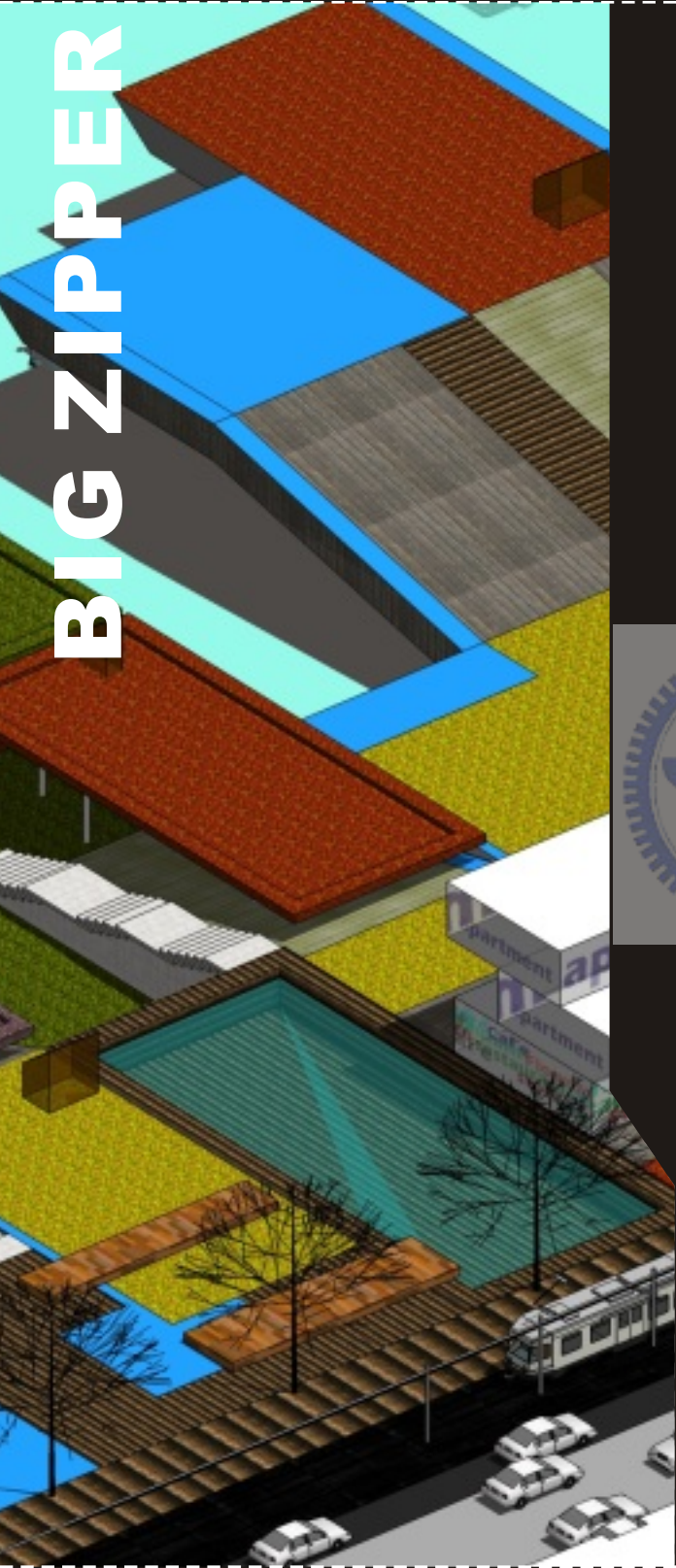




Imagination 101

Re-order_reconstruction of deductive organization
Re_WORK SHOP

BIG ZIPPER



Workshop NCTU October 26 - October 30, 2007-10-25
Redevelopment options for the Schiedamsedijk in Rotterdam
Jaakko van 't Spijker

Chao, Po-Yu
Lin, Liu-Yin
Lin, Hsin-Her
Lien, Chia-Ching
Tsai, Chia-Wen



2007.10.26-2007.10.30

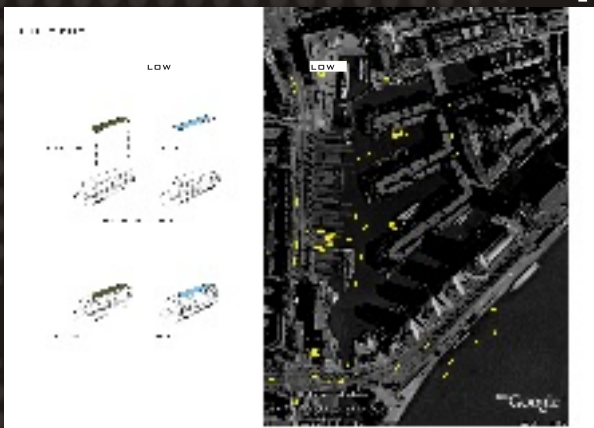
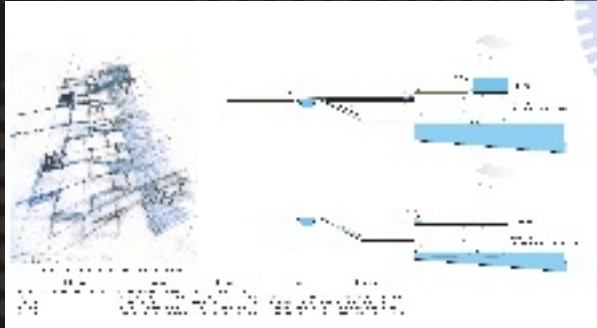
Re-order_reconstruction of deductive organization

introduction

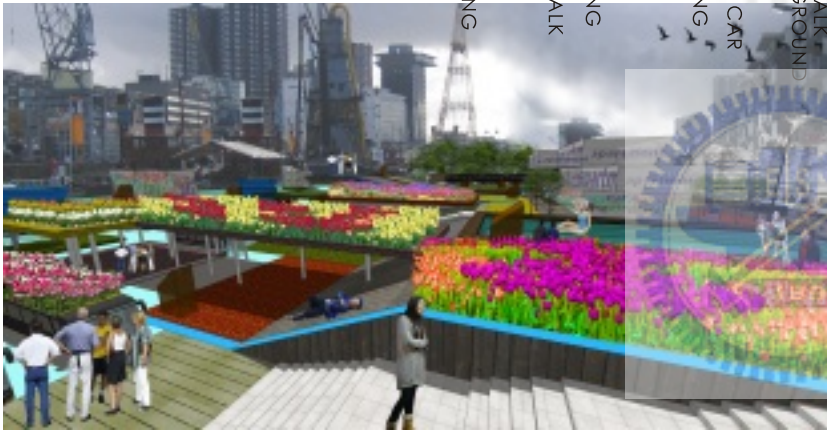
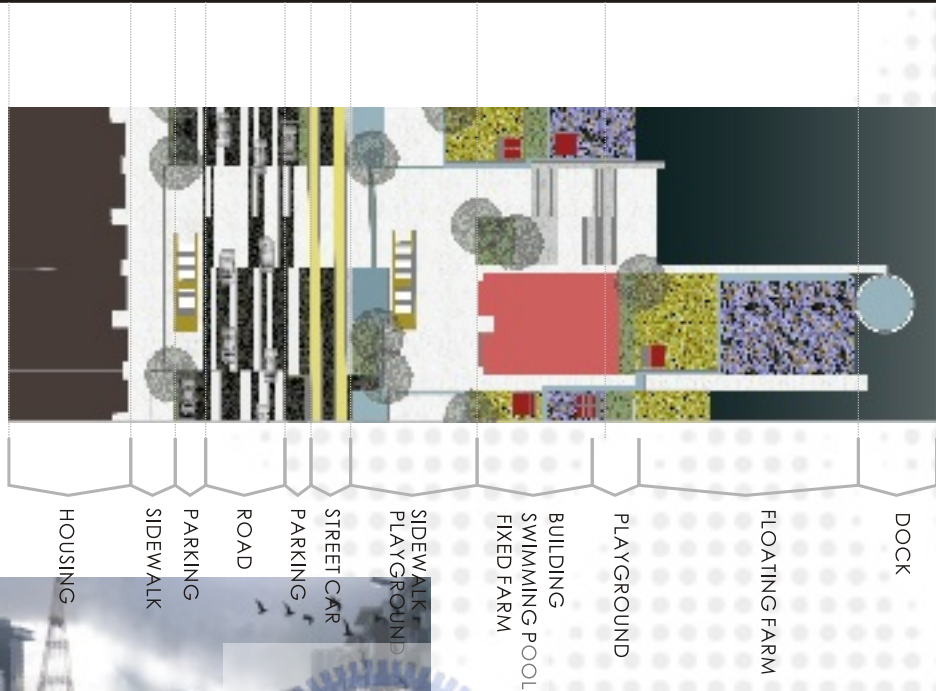
Rotterdam has traditionally developed as a port city. Since the 1970's, most of the bulk ports have moved out of the city and transformed into larger scale new ports, closer to the sea. About 15 years ago, Rotterdam has started to redevelop into a waterfront city, where the center and the water should be much more connected. For this purpose, a new bridge was built (the Erasmus Bridge) and large scale developments were started up on the south bank of the Maas river (The 'Kop van Zuid'). As the waterfront projects are in progress, it is becoming evident that the connection between the old center of Rotterdam and the river remains weak. Between the central boulevard, the Coolingsingel and the Erasmusbridge, there runs a stretch of road called the Schiedamsedijk which is not living up to its potential as a main connector between city and river.

Re-order_reconstruction of deductive organization

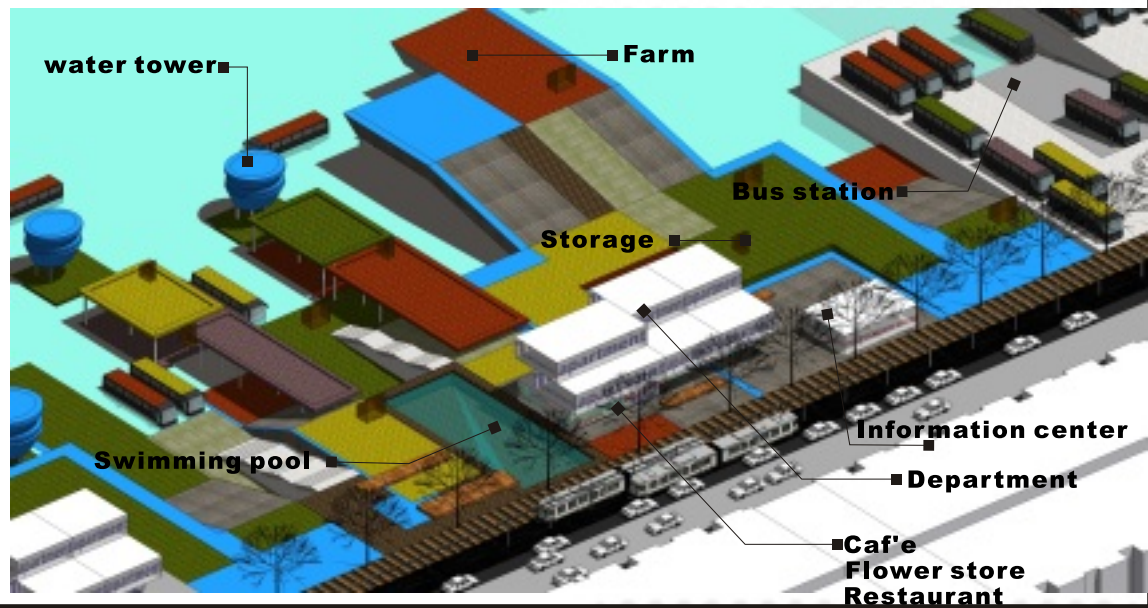
Re_WORK SHOP



Redevelopment options for the Schiedamsedijk in Rotterdam
BIG ZIPPER



The workshop will start with an introduction about this piece of city, its character, history, policies and public space qualities. As the role of public space and continuity of the city-scape is of increasing importance in the field of architecture and urbanism today, and is one of the large subjects in the international architecture debate currently, the introduction will also touch on some trends and developments going on in the Netherlands and in the world.



NextGEN Library



2007.02-2007.03

Re-order_reconstruction of deductive organization

This exhibition is a collection of works done in two studios aim to host research-assisted investigations of the library in the digital age of information.

We focus our study on a broadened sense of the books and activities in the library based on the critical discussion about the Cultural, Social, Ritual, and Symbolic System. Further, this studio explores a new spatial conception i.e., "transformative and interactive space" based on the concept of "change." The investigation centers around three types of change: formal, spatial, and relational, that manifest architecturally as a morphing enclosure (the skin) with adaptation programs (the organs) and their variable in-betweens (the space in-between). Then comes a question: how does one comprehend such a spatial system where a constant is relatively missing, and hence impossible to establish a reference point? The concept of "Anatomical Position" was introduced as a basis for developing descriptive models to conceptualize the dynamic space in question. Moreover, the discussion was extended from the physical to the cyber space and their interfaces.

Re-order_reconstruction of deductive organization

Re_Exhibition

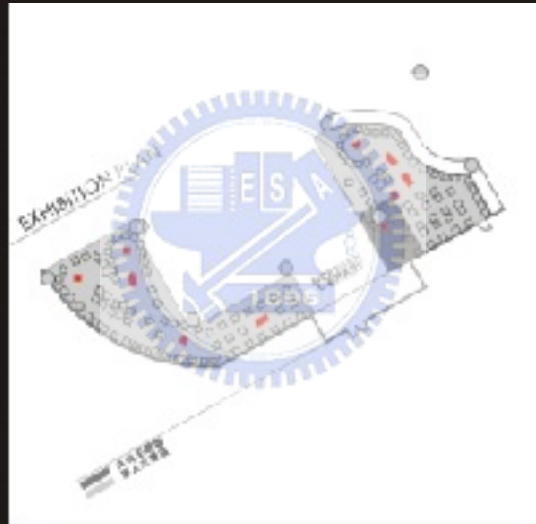
NEXT GEN LIBRARY: Digital Library for the Future

The future library is a collection of services and is the combination of digital resources and the traditional resources. It is a digital and physical library.

We focus our study on a broadened sense of the books and activities in the library based on theoretical exploration about the cultural, social, spatial and service system. Through this study, we created a new idea of digital library. The digital library is an interactive environment on the concept of change. The interpretation of change required three steps: we changed formal space and relationship that function architecturally as a morphing envelope; the book was integrated into the space; the service and the management system were integrated together. Through a system that uses the concept of a dynamic system, change is constant in relative terms, and it is impossible to establish a reference point. The concept of functional form was introduced as a basic form developed to accommodate models to be used with the program. However, the discussion was extended from the physical to the cyberspace and their interface.

NEXT GEN LIBRARY

HEAD
NECK
BODY
HAND



Architectural design studio

- 01 01 01 | Arrival
Arrival / entrance gallery
- 01 01 02 | Reading
Reading room / library
- 01 01 03 | Media
Media / interactive body
- 01 01 04 | Virtual
Virtual reading room
- 01 01 05 | Reading
Reading room / library
- 01 01 06 | Media
Media / interactive body
- 01 01 07 | Virtual
Virtual reading room
- 01 01 08 | Reading
Reading room / library

Digital design studio

- 01 01 09 | Reading
Reading room / library
- 01 01 10 | Reading
Reading room / library
- 01 01 11 | Reading
Reading room / library
- 01 01 12 | Reading
Reading room / library



