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COMMERCE&HOTEL

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商业酒店

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한국경제신문

>> COMMERCE

7TH HEAVEN BUILDING

Location Nonhyeon-dong, Gangnam-gu, Seoul, Korea Site Attribute General Commerce, General Resident, Central Aesthete Site Area 1,145.5m² Building Area 572.34m² Total Floor Area 4,971.53m² Building Coverage Ratio 49.96% Floor Area Ratio 249.29% Building Scope B3–6F Structure RC Exterior Finish T4 Aluminum Composite Panel, Neoparies Crystalized Glass, T24 Pair Glass, T12 Tempered Glass, ZUAI Stone Interior Finish Floor_T20 Ipe Wood / Wall Ceiling_Paint on Mortar Design Period 2004.10–2005.3 Construction Period 2005.9–2006.11 Architecture Design Lew Jai-eun, Han Cheol-soo | ARCHITECTS GROUP SEE Design Team Kim Sang-hyun, Kang Boo-mi, Jang Sung-hyun, Lee Kyoung-seok, Lee Dong-shin Interior Design 1–5F_D Square / 6F_ARCHITECTS GROUP SEE Construction JANGHAK Engineering & Construction Client Whang Cheung-wung Photographer Lee Ki-hwan

Users of a commercial building have some common. First, they try to make the given space suitable for them. Second, they try to represent their personalities through the exterior. It can cause a trouble as it confuse the city though it is one of the representative features of commercial buildings. Third, because the surface area is maximized in most cases, interactions with the city can be quite restricted. For a commercial building, characterized spaces are required because the identity of the building is important in their business. The more they represent their identity, the more effective their promotion can be. The represented identities are competitive but also interconnected and continuously variable. A city stuffed with these buildings is unpredictable and uncontrollable. The architectural order which is artificially given to the city can be a reason for the confusion. Because uncontrollable factors of that reject the existing order system or sometimes the variation is unacceptable within the system.

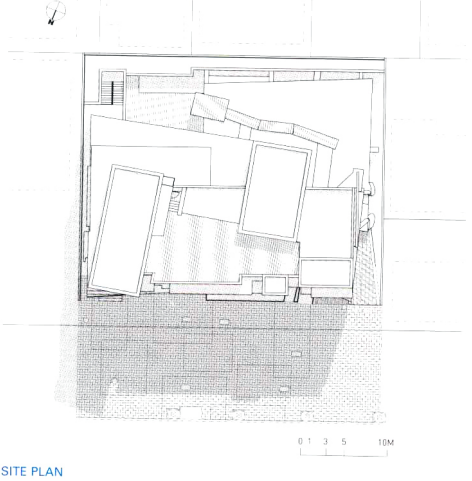
PLURALITY One more thing causing confusion of the city is 'plurality'. When the confusion is regarded as negative, a building may be built based on the order system, or architectural value of it. However, when users are satisfied with the order or value, the city gets confused again. Confusion is a sort of conflicts between wrongful rules and efforts to overcome it. Interactions based on plurality are not confusion, but are 'natural' phenomena.

OVERLAPPING Variability and interaction are common features of an organism. As seen in all creatures in the nature system, 'evolution by interactions' can be seen in an artificial intelligent body realized by computer. And it is the case for cities. Individual buildings form and change the status of the city by harmonizing and competing with others. Unlikely the nature system, interactions in a city can be overlapped. Poor villages formed at the foot of a mountain is a case. The overlapping exists in a city. An overlapping can be represented in the process that images created by users occupy the surface of a building. An overlapped configuration or artificially created space can control organic attribute of users which cannot be easily ruled by regulations of the city.

PLAN The parts adjoining the facade of the building were fragmented into small hexahedrons. Those elements were formalized as a transparent glass window, balcony, semi-transparent glass window, or an opaque wall. The different spaces made of different hexahedrons in both size and the quality represent different identities and characteristics. They have different ceiling height and form of the floor. However, this building has partly raised floor which produces a variety of the space. The deck placed on the second floor adjacent the road helps the building to actively interact with the road, and the balconies on the facade bring vitality to the street. Formalized hexahedrons were used for a specific use. The hexahedron adjoining the street attracts pedestrians with its strong red color, and the top of the hexahedron coated with surrealistic metals symbolize its status as the highest point. The overall configuration of the building is an overlapped silhouette of hexahedrons. Variable and unpredictable identities of the users are projected onto the surface of overlapped hexahedrons which form the facade. However, gaps are generated in the process of overlapping the hexahedrons. Though the gaps, urban spaces mutually interact and underground and the ground are connected. Flow of the light and the air coming out of the gap constitutes the underground which resembles the ground. The glass hexahedron on the first floor is linked to the underground through the sunken garden adjoining the road and helps the underground exposed to the street.

This project was conducted considering the characteristics of users of the building. In designing the spaces, users demands were considered rather than individual's taste or value. This unintentional architecture was perfectly completed by the owner's intention.'Beauty may be a creature of human, but also can be a true evolution of the components that organize the nature system.' Text by Han Cheol-soo

Exterior of 7th heaven building. The special elevation has a identity.

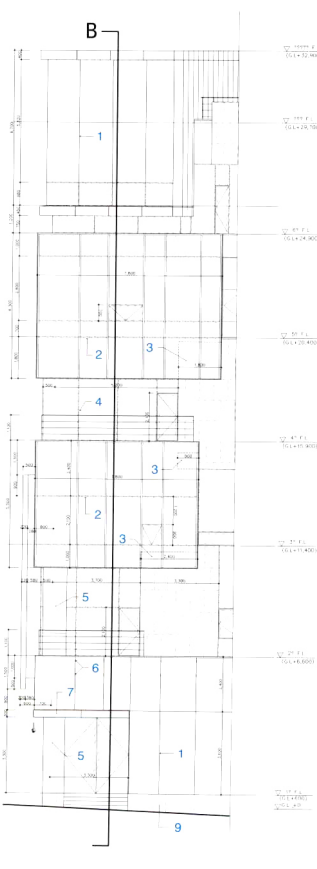


SITE PLAN

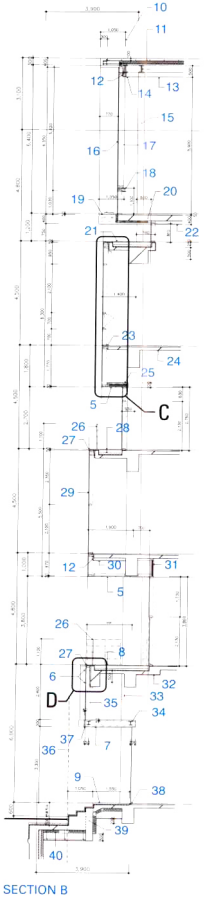
Front viewed from the road

A facade is constructed by the overlapped frames formed by the box.

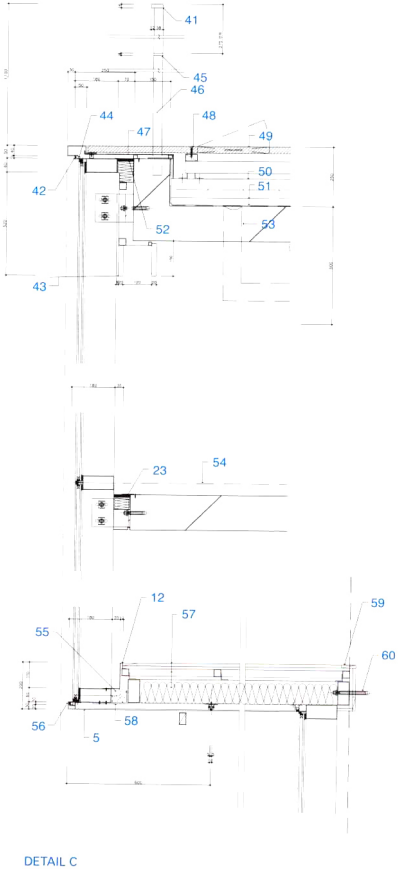
1 RIB GLASS COMMISSURE
2 STRUCTURAL GLAZING(HORIZONTAL BAR TYP)
3 INSIDE STONE FINISHING SURFACE EXTENSION
4 STRUCTURAL GLAZING(ALL BAR.-TYP)
5 T4 ALUMINUM COMPOSITE PANEL
6 BRACKET INSTALL FOR INSTALLING SIGNBOARD(TYP)
7 CANOPY(T1.2 SST'L SUPER MIRROR FIN)
8 T28 PRESERVATIVE FLOORING, APP. COLOR OIL STAIN
9 T30 APP. STONE FIN
10 STEEL-FRAME INSTALLING POSITION
11 T0.8 ZINC FOLDING(W=600) / T3 WATERPROOFING SHEET ON PRIMER / T12 WATERPROOF PLYWOOD 2PLY / C-100X50 PURLIN(@1,000) / T125 INSULATION
12 T1.2 ST'L PL, ELECTROSTATIC POWDER COATING
13 CEILING FINISHING SURFACE
14 120X120 STEEL CURTAIN BOX, BAKING PAINT
15 ST'L COLUMN(FIREPROOF PAINT-2 HOURS, METALLIC PAINT)
16 T12 TEMPERED GLASS(W / SAFETY FILM)
17 T25.52 RIB GLASS(W=250)
18 H-150X150X7X10(FOR WINDOW FIXING)
19 SST'L SUPER MIRROR PANEL(OPEN JOINT)
20 T250 SLAB(T90 INSULATION)
21 T28 PRESERVATIVE WOOD FLOORING, APP. COLOR OIL STAIN
22 T9.5 GYPSUM BOARD 2PLY, APP. PAIN TING
23 FIREPROOF MATERIAL FOR BETWEEN SLABS
24 EXPOSED CON'C FIN
25 T12..5 GYPSUM BOARD 2PLY, APP. PAINTING(T90 INSULATION)
26 STEEL HANDRAIL, ENAMEL PAINT ON RUST PRE VENTING
27 T3 AL. FLASHING, FLUOROCARBON RESIN COATING
28 T28 PRESERVATIVE FLOORING, APP. COLOR OIL STAIN / SLOPE MORTAR ON URETHANE WATERPROOFING
29 T24 PAIRED GLASS
30 T90 INSULATION, GYPSUM BOARD 2PLY, PAINTING
31 TRUSS(T75 INSULATION), GYPSUM BOARD 2PLY, APP. PAINTING
32 T18 INSULATING MORTAR
33 □-76.3-3T SST'L PIPE
34 T1.2 SST'L SUPER MIRROR FIN. / □-40X40 PIPE TRUSS / H-150X150X7X10
35 RIB GLASS
36 AESTHETIC AREA RETREAT LINE(3M RETREAT)
37 WATER DROP GROOVE
38 W=10 SST'L MATERIAL SEPARATOR
39 B10 BAR ARRANGEMENT
40 T125 INSULATION / LIGHT GAUGE STEEL CEILING RIB(M-BAR) / T9.5 GYPSUM BOARD 2PLY, APP. PAINTING
41 50X9T F.B HANDRAIL, APP. PAINTING ON RUST PREVENTION
42 SEALANT ON BACKUP MATERIAL(□-10 DRAINING HOLE INSTALL-@600)
43 APP. PAINTING ON T1.2 ST'L PL / 30X30 ST'L PIPE
44 EPOXY BONDING(WATERPROOFING SHEET END)
45 38X9T F.B, APP. PAINTING ON RUST PREVENTION
46 38X9T F.B BALUSTER(INSTALL WITHIN @1,200)
47 20X120 IPE / T3 MEMBRANE WATER PROOFING FOR EXPOSURE / 1.2T GALV ALUME
48 20X120 IPE / GALVANIZED VIS FIXING / 30X50 GALVANIZED SQUARED PIPE(W / T5 DAMPING RUBBER, WITHIN @450 SPACING)
49 300X300 INSPECTION EXIT(F.D UPPER INSTALL)
50 T60(MIN) PLAIN CON'C FOR SLOPE
51 T3 URETHANE MEMBRANE WATER PROOFING, PROTECTIVE MORTAR
52 FIREPROOF MATERIAL FOR BETWEEN SLABS / INSULATION
53 □-50-75 SST'L DRAINING PIPE (CONNECT TO P.S)
54 FINISHING SURFACE
55 URETHANE FOAM INFILLING
56 SEALANT ON BACKUP MATERIAL
57 APP. PAINTING ON T12.5 GYPSUM BOARD 2PLY / 30X30X1.4 ST'L PIPE / 100X50X2.3T ST'L PIPE (W / T90 INSULATION-NA CLASS)
58 T4.5 F.B(W=120 TRANSOM FIXING, INSTALL WITHIN EVERY @900 SPACING)
59 T12 MDF REINFORCING (CORNER PART)
60 M16 ANCHOR BOLT (FIX ON COLUMN OR SUPPORT ON REINFORCING POST)
61 T12 TEMPERED GLASS
62 60X6T BRACKET FOR INSTALLING SIGN BOARD(HOLE PROCESSING FOR BOLT)
63 GLASS BUTT JOINT
64 STRUCTURAL SEALANT
65 RIB GLASS(SPECIFICATION OF RIB FOLL OWS THE RESULT FROM STRUCTURE CALCULATION)



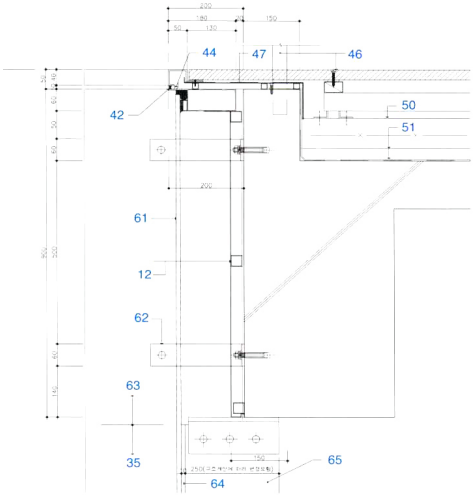
OUTER WALL DETAIL A



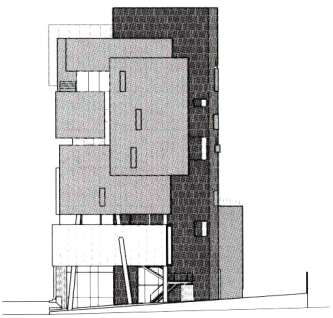
SECTION B



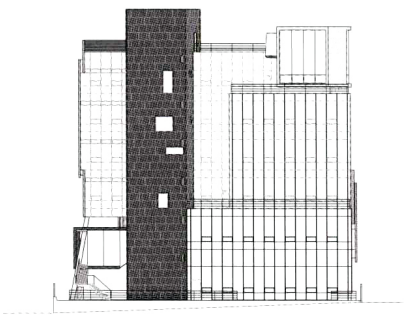
DETAIL C



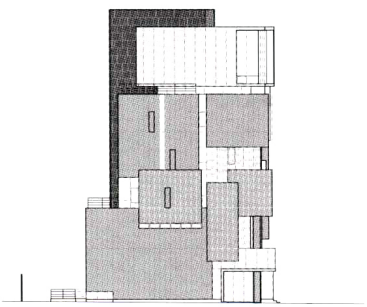
DETAIL D



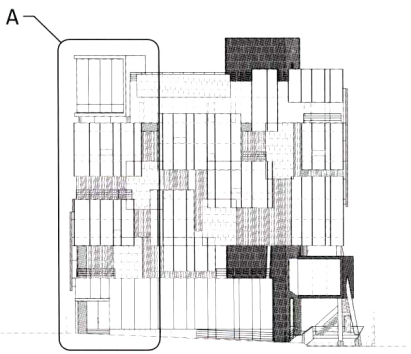
WEST ELEVATION



SOUTH ELEVATION



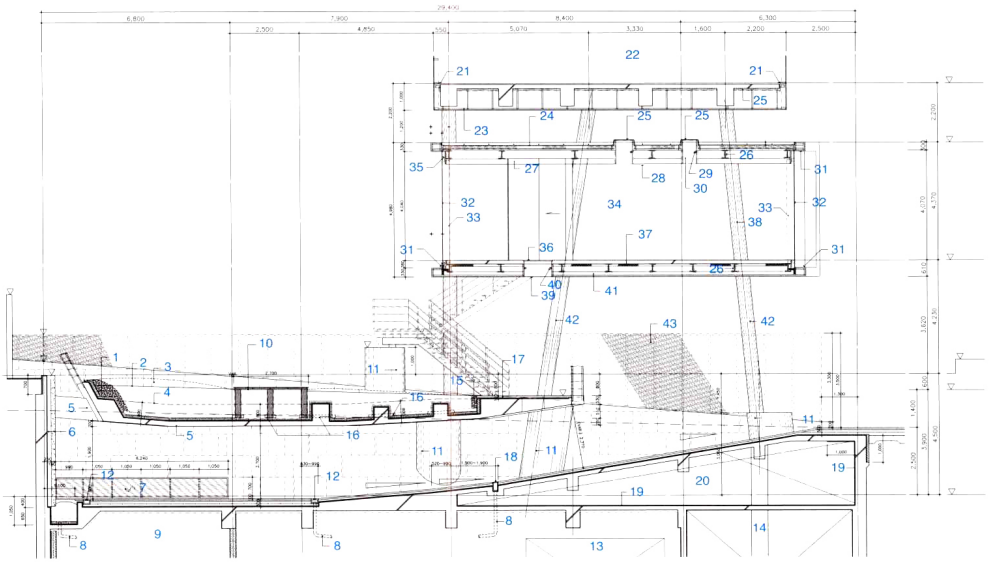
EAST ELEVATION



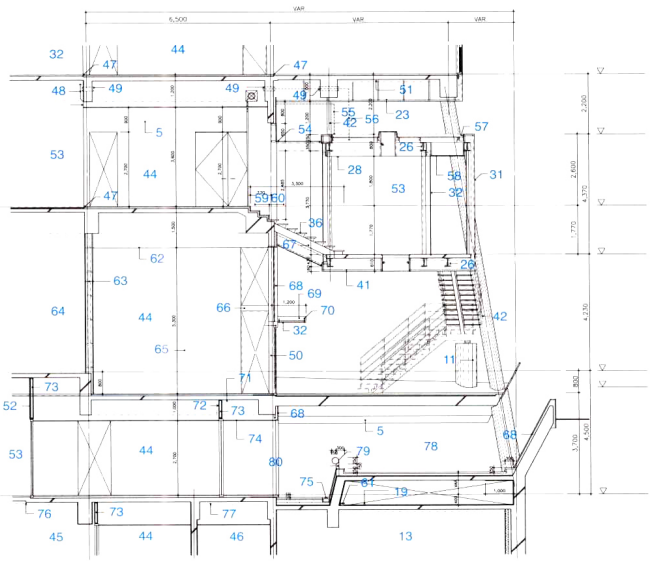
NORTH ELEVATION

Main entrance & mezzanine floor exterior

1 GRAVEL INFILLING FOR LANDSCAPING (FOR DRAINAGE, INSTALL AT LANDSCAPING END)
2 HEIGHT LINE OF TOP OF PARAPET
3 SECURE SOIL(H=1,200) BEYOND
4 BEAM ELEVATIONTION
5 EXPOSED CON'C FIN.
6 □ - 100X50X3.2T @450 / W=150 GABION WALL
7 GALVANIZED GRATING COVER
8 □ - 100 F.D(CONNECT WATER TANK TO WATER-COLLECTING WELL)
9 POWER-GENERATOR ROOM
10 T28X150 PRESERVATIVE WOOD, APP. COLOR OIL STAIN / 30X30 STAINLESS STEEL PIPE @450(W/ T5 DAMPING RUBBER PAD) / 30X50 STAINLESS STEEL PIPE @600
11 APP. COLOR METALLIC PAINT ON EXPOSED CON'C
12 W=200 STONE COVER TRENCH INSTALL
13 WATER TANK
14 DISPOSAL TANK MANAGING LAYER
15 GRAVEL INFILLING FOR LANDSCAPING (FOR DRAINAGE, INSTALL AT LANDSCAPING END)
16 □ - 100 PVC SLAB EMBEDDING
17 T50 HUDONG STONE BURNER FLARING / T40 ATTACHING MORTAR / T27 PROTECTIVE MORTAR / T3 URETHANE WATER PROOFING / CON'C SURFACE LEVELING
18 W=200 GALVANIZED COVER TRENCH INSTALL
19 LIQUID WATERPROOFING B-TYPE, SLOPE MORTAR
20 PIT
21 FIREPROOF MATERIAL FOR BETWEEN-SLABS(TYP)
22 BUSINESS FACILITY (OFFICE)
23 40X40 PIPE CEILING RIB / T1.0 S'STL SUPER MIRROR
24 T0.8 GALVALUME SHEET FOLDING (W=900), FLUOROCARBON RESIN COATING / T12 WATERPROOF PLYWOOD 2PLY, T3 WATERPROOFING SHEET ON PRIMER, SAFETY FILM / C-100X50 PURLIN(@1,000) / T125 INSULATION
25 T12.76 CLEAR LAMINATED GLASS, SAFETY FILM
26 FIREPROOF COATING(2 HOURS)
27 AUTOMATIC DOOR RAIL EMBEDDING
28 CEILING INSTALLING SURFACE
29 INSIDE LIGHTING INSTALL(1 PLACE)
30 T1.2 ST'L PL, BAKING PAINT
31 T4 ALUMINUM COMPOSITE PANEL
32 T12 TEMPERED GLASS(W / SAFETY FILM)
33 T25.52 RIB GLASS (W=250)
34 TYPE-2 NEIGHBORHOOD LIVING FACILITIES (COMMON RESTAURANT)
35 T1.2 ST'L PL, FLUOROCARBON RESIN COATING
36 T25 TRIPLE LAMINATED CLEAR GLASS (6+8+8)
37 URETHANE COATING FIN. / CON'C SLAB / T90 INSULATION
38 FIREPROOF PAINT
39 T6 CLEAR TEMPERED GLASS, SAFETY FILM
40 INSIDE LIGHTING INSTALL(2 PLACES)
41 40X40 PIPE CEILING RIB / CEILING MATERIAL : T4 ALUMINUM COMPOSITE PANEL
42 APP. COLOR METALLIC PAINT ON FIRE PROOF PAINT
43 EXPANDED METAL A, FLUOROCARBON RESIN PAINT ON □ - 100X50X2.3
44 HALL
45 PARKING LOT
46 MDF ROOM
47 S'STL MATERIAL SEPARATOR INSTALL (W=10)
48 APP. COLOR PAINT ON MORTAR
49 □ - 150 SLEEVE(FOR FIRE PIPING)
50 S'STL
51 T90 STYROFOAM(NA CLASS)
52 APP. COLOR PAINT ON T1.2 STL PL
53 TYPE-2 NEIGHBORHOOD LIVING FACILITIES (COMMON RESTAURANT)
54 SPG. SYS
55 GAS PIPING
56 FIRE PIPING CONNECTION(INCLUDING ELECTRICITY)
57 W=120 GUTTER INSTALL
58 T12.5 GYPSUM BOARD 2PLY / APP. COLOR PAINT
59 STONE STAIRWAY
60 GLASS STAIRWAY
61 W=150 OPEN TRENCH
62 T1.2 S'STL SUPER MIRROR
63 APP. COLOR PAINT ON T12.5 GYPSUM BOARD 2PLY / METAL-STUD(65 TYPE) / □ - 100X50 SQUARED PIPE / T30 HUDONG STONE BURNER FLARING(OPEN JOINT)
64 HALL
65 FLUOROCARBON RESIN COATING ON 1.2 STL PL
66 APP. COLOR PAINT
67 PL-16T
68 T30 ZHUAI STONE
69 F.B 12X150
70 SPG. SYS
71 T90 INSULATION
72 T75 INSULATION
73 LIGHT WEIGHT WALL
74 LIGHT GAUGE STEEL CEILING RIB / APP. COLOR PAINT ON T1.2 GALVALUME STEEL PLATE
75 STONE COVER TRENCH INSTALL
76 T55 PERLITE SPRAYING
77 T125 INSULATION
78 PARKING ROAD
79 APP. COLOR PAINT ON □ - 250, T4.5 STL PIPE
80 APP. COLOR PAINT ON 100X22 F.B



MEZZANINE FLOOR LONGITUDINAL SECTION



MEZZANINE FLOOR CROSS SECTION