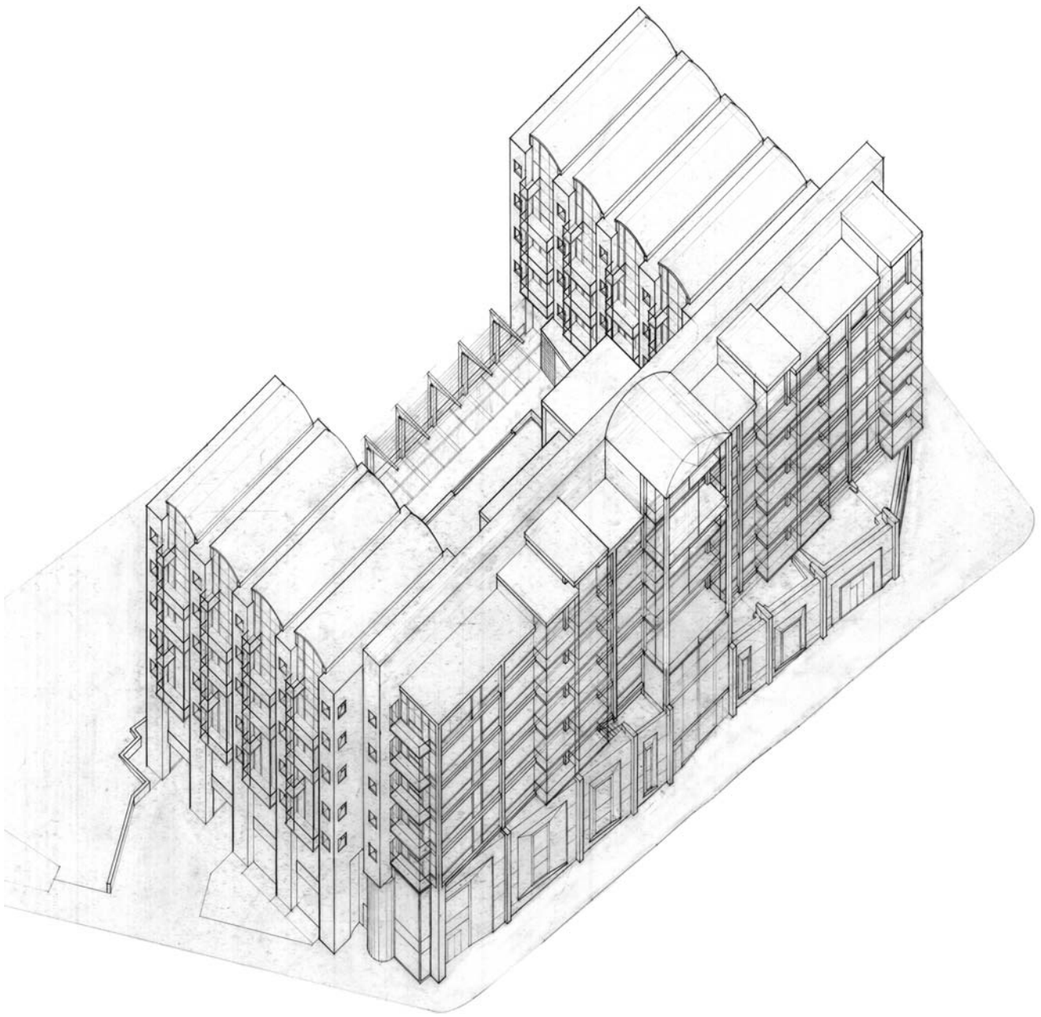


Design Thesis submitted to the faculty of the College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University, in partial fulfillment of the requirements for the degree of

Master of Architecture

Approved:

Jaan Holt, Chairman

Marco Frascari

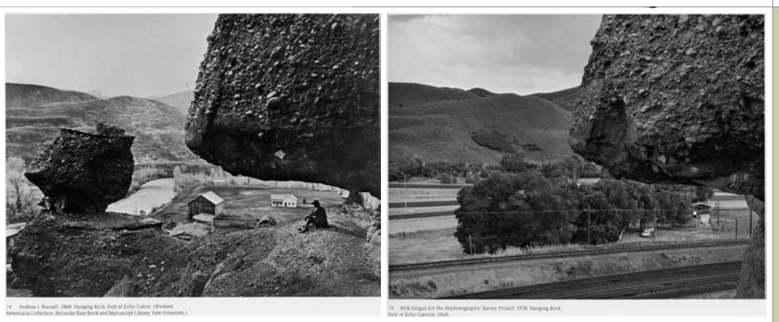
Ron Kagawa

thesis post-defense document

PERMANENCE AND TEMPORALITY

BETTER URBAN LIVING THROUGH PROVISION OF NATURAL LIGHT, NATURAL VENTILATION, GREEN SPACE, AND A PLACE FOR COMMUNITY

R. David Chambers



FEBRUARY 1998

Matched photographs, or "rephotographs," are one or more photographs of the same subject which are made specifically to repeat an existing image. Examples are commonplace and often used to illustrate the effects of time and change, such as parents' snapshot albums of growing children posed in front of the same familiar backdrop (the house), repeated year after year. The peculiar ability of photo pairs such as these to refer to unseen periods of time and intervening events became an important factor in the creation of the Rephotographic Survey Project.

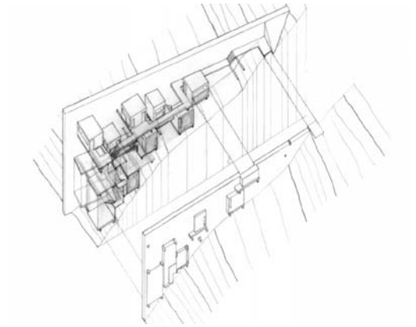
Mark Klett, Second View: The Rephotographic Survey Project

This duality is fundamental to our understanding of photography. As an image, the photograph can be both document and picture, artifact and art, visual map and carrier of cultural meaning. Although some photographers may place their concern at one extreme or the other, all photographs are necessarily situated somewhere along the continuum between the two poles. But where a viewer "locates" any particular photograph along this continuum, that is, how he understands it, is determined by more than one photograph itself.

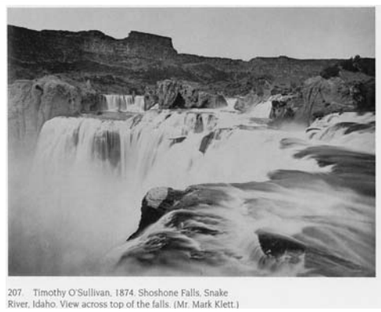
Paul Berger, Second View: The Rephotographic Survey Project

Whether the photographer wondered what the site would look like a century later, the question is not raised by his photograph. . . . In the century between their work and ours, natural and manmade changes had left marks on the sites.

JoAnn Verburg, Second View: The Rephotographic Survey Project



the basis



207. Timothy O'Sullivan, 1874. Shoshone Falls, Snake River, Idaho. View across top of the falls. (Mr. Mark Klett.)

208. Mark Klett for the Rephotographic Survey Project, 1980. Shoshone Falls, restricted water flow, Twin Falls, Idaho.

This thesis is an exercise in ideas of two realms, theoretical and practical, and an effort to mix the two to create architecture.

The theoretical thesis is exemplified in the pairings of photos seen on the bottom of each page, taken from Second View: The Rephotographic Survey Project. As the reader examines the pairs of photos changes over time can be seen in each. Typically the greatest changes are manifestations of man's existence. I have treated this as a point of departure for the technical thesis of Permanence and Temporality. Man's temporal existence creates permanent reminders in the permanent structure of the earth. This thesis explores the nature of permanence and temporality in materials and uses them to express the classic dichotomy of service and served.

As a practical thesis the project focuses on providing better urban living through natural light, natural ventilation, and the provisions for community and interaction with nature. A modification of Le Corbusier's Unite d'Habitation was explored by narrowing the building to bring natural light further into the unit while widening the unit to get natural light and ventilation even to the service spaces.

ABSTRACT

my thanks and love go to all those who supported me through this process - through the three thesis projects that finally culminated in this one - through the years of school - and through the process of finally attacking and completing this document

pencil pushers:
steve hagman, muzahid ali, bruno carvallo, isabelle curnyn, rosie cuartelon, richard zubic, and lester escobal

model makers:
ozer onkal, gt, richard lucente, and tom canning

last minute legwork:
anthony iorillo, david oviedo kristin o'connell, tomo, and christina flowers

my committee:
jaan, marco, and ron

other advisors:
susan, greg, and howard

parents:
gary & claudette chambers
kit & gary putnam (surrogate)

family and friends

book buddies:
scott heron and lester escobal

all my thanks to . . .

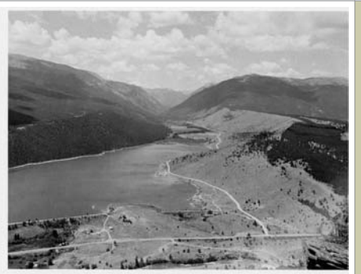
ACKNOWLEDGEMENTS

where to find it

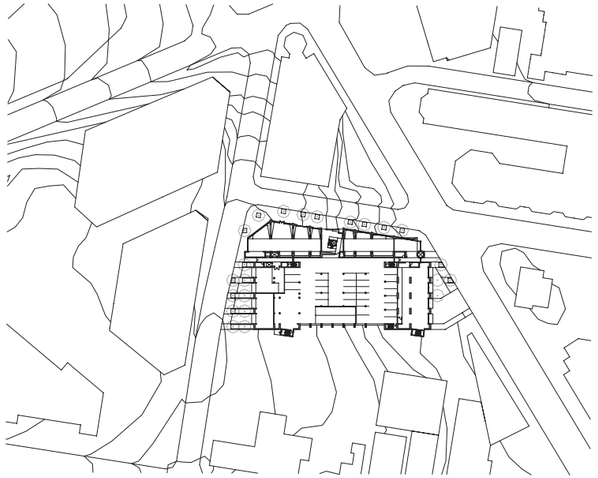
142. Timothy O'Sullivan, 1872. Green River Cañon, Upper Cañon, Great Bend, Uinta Mts., The Horseshoe and Green River below the bend from Flaming Gorge Ridge. (United States Geological Survey.)

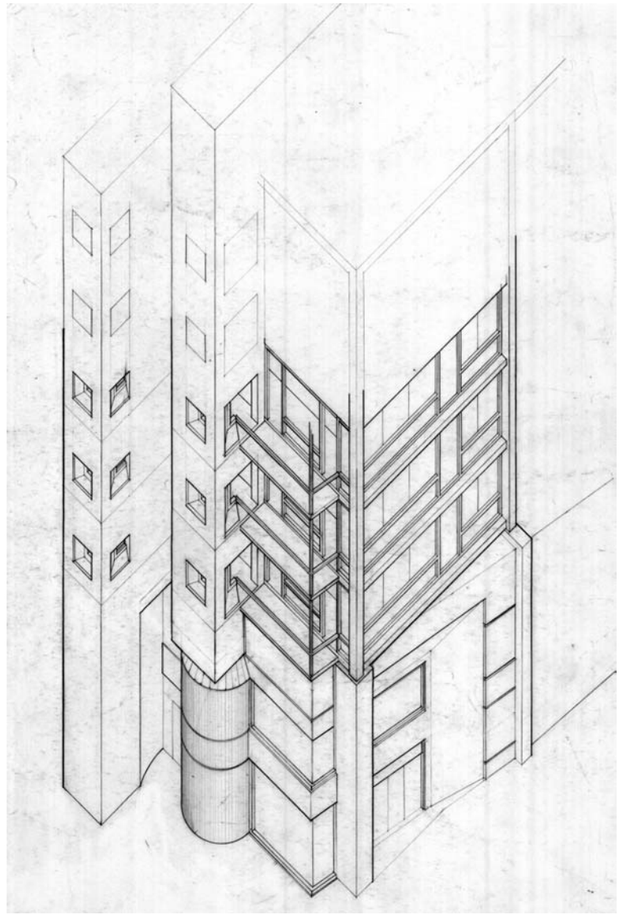
143. Mark Klett for the Rephotographic Survey Project, 1978. Flaming Gorge Reservoir from above the site of the Great Bend, Utah.

50. William Henry Jackson, 1895. Great Morainal Valley of the Arkansas on the mouth of La Plata. (United States Geological Survey.)



51. Gordon Bushaw for the Rephotographic Survey Project, 1978. Morainal Valley above Clear Creek Reservoir, Colo.



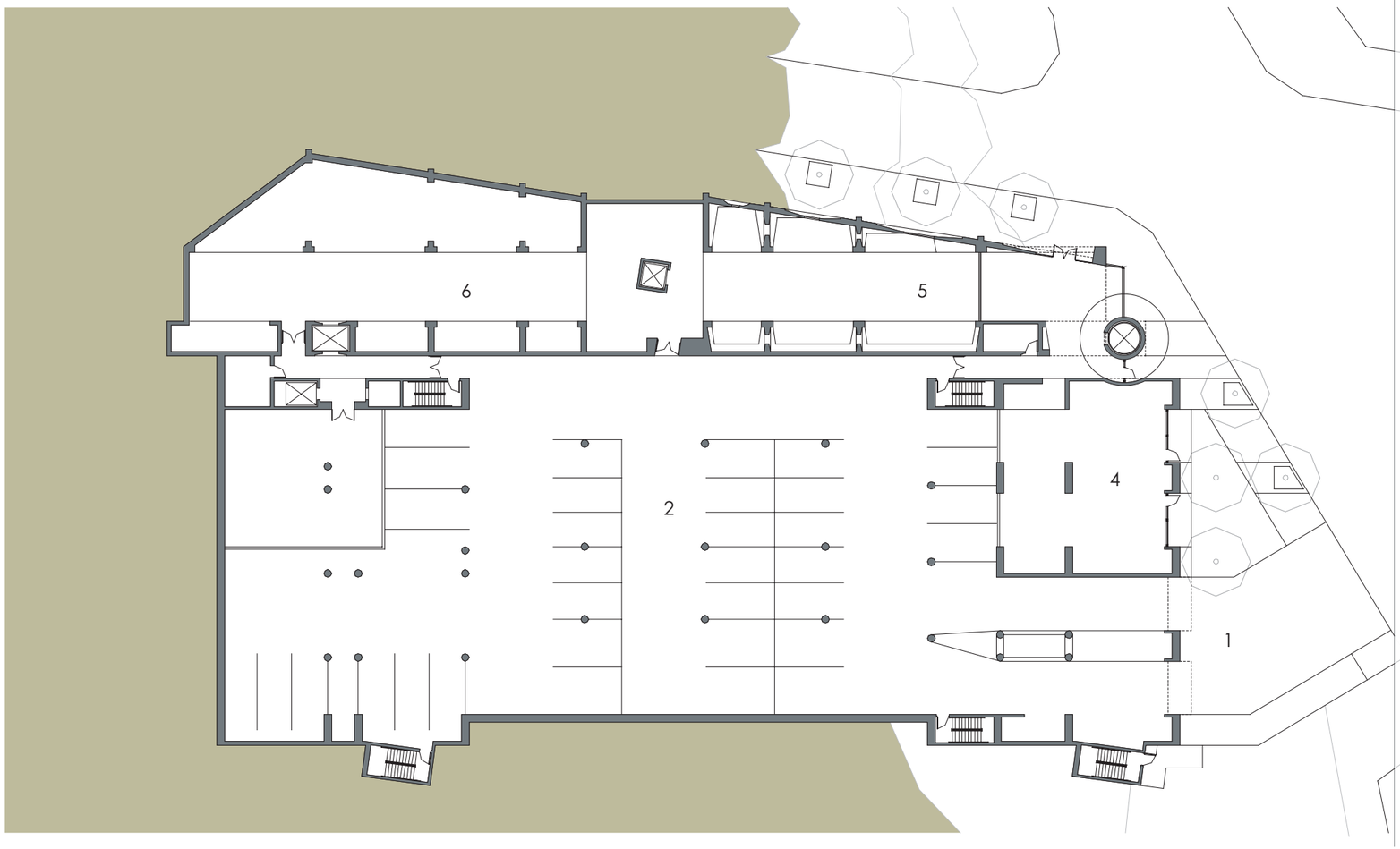


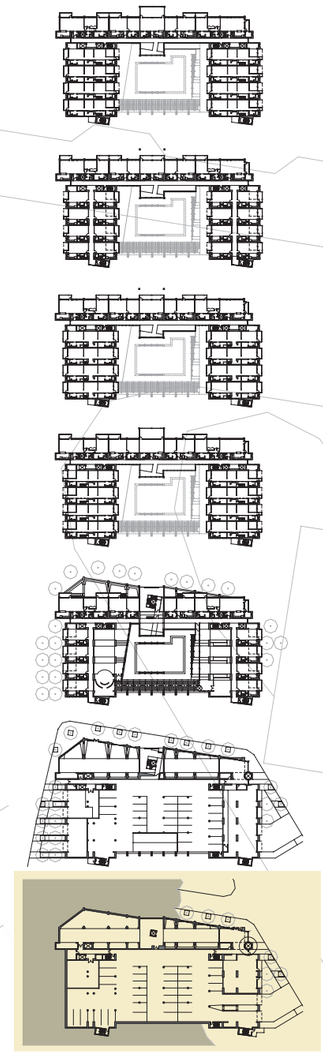
The scheme of the design is regularized by the permanent ribs of the earth into which service spaces are carved. Then the temporal existence of man is stretched across this framework of permanent members to create a mixed use project. The lower two levels of the project are developed into retail and office space while the upper five levels are developed into two styles of apartments: single-level units and two-level 'skip-stop' units.

A central entry for the residential levels brings all residents in through a common path passing through an interior garden atrium and beside the large courtyard. On the lowest residential level at either side of the courtyard are a reading library and a recital hall. Every residential unit is provided with at least one balcony.

The courtyard is placed over the central parking so that the interior court of the residential wings continuously provides the opportunity to commune with nature with large balconies overlooking and giving residents a space of there own to plant a small garden overlooking the larger lawn below.

the project



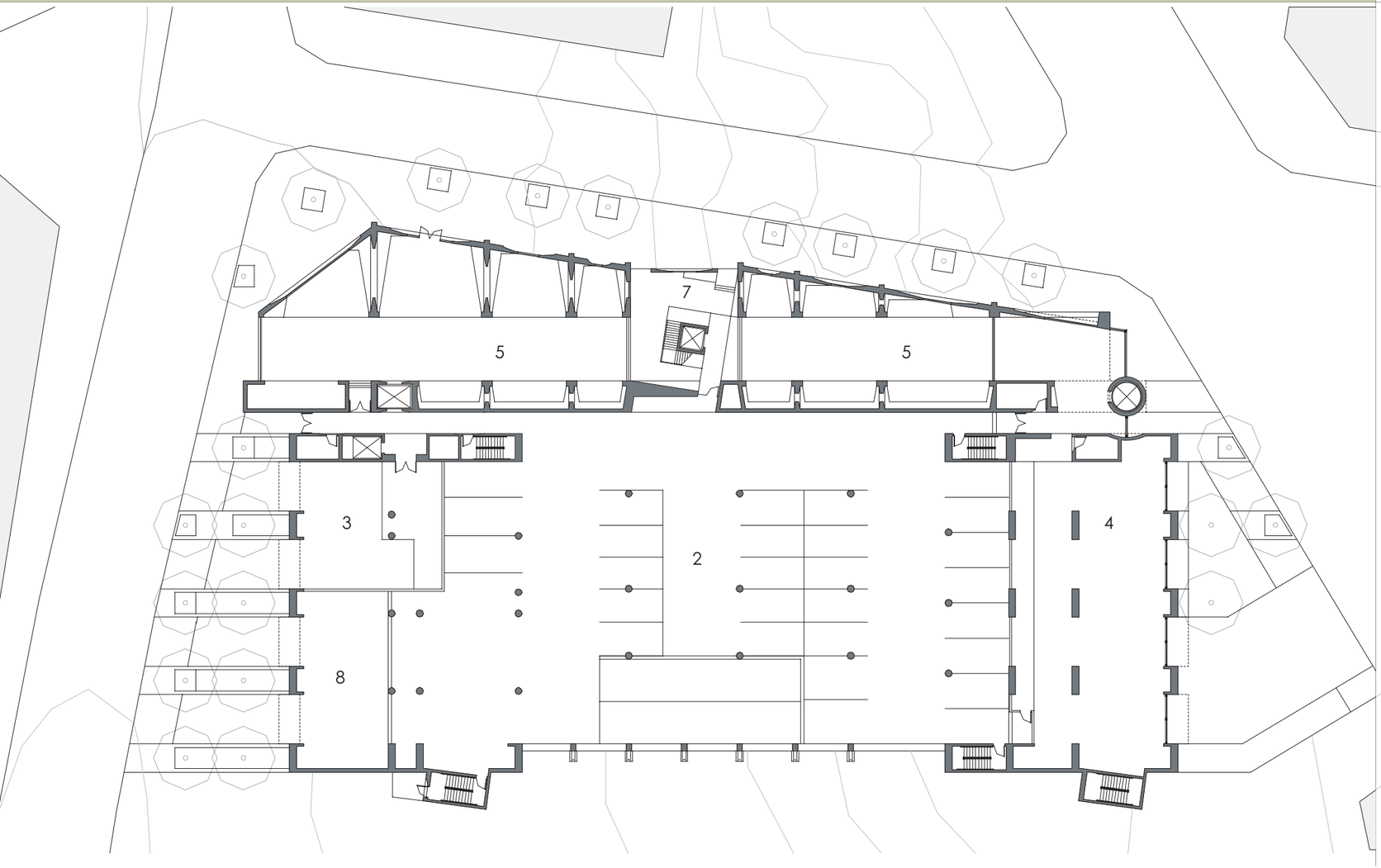


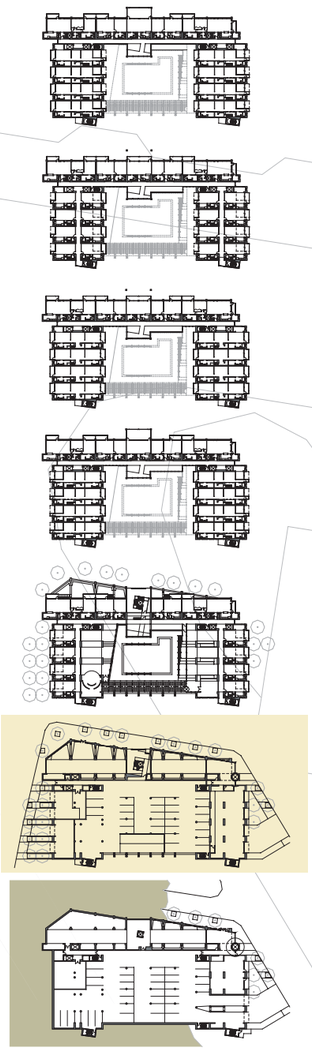
commercial level 1 - office + retail

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage

7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
10 - Recital Hall
11 - Reading Library
12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor

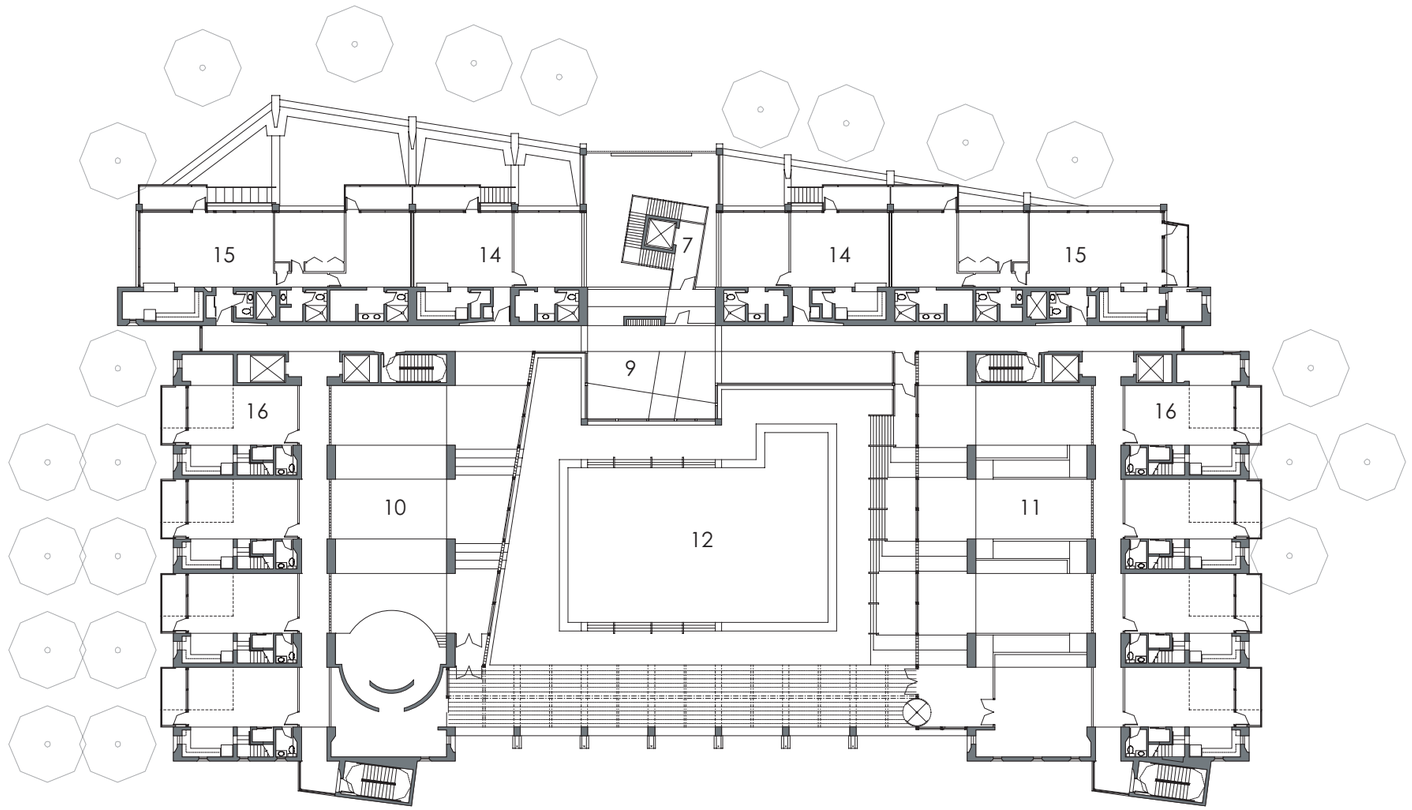


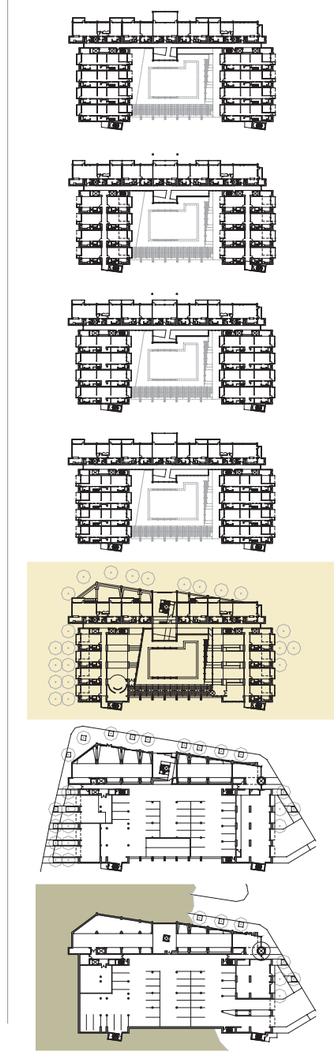


commercial level 2 - office + retail

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
10 - Recital Hall
11 - Reading Library
12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor

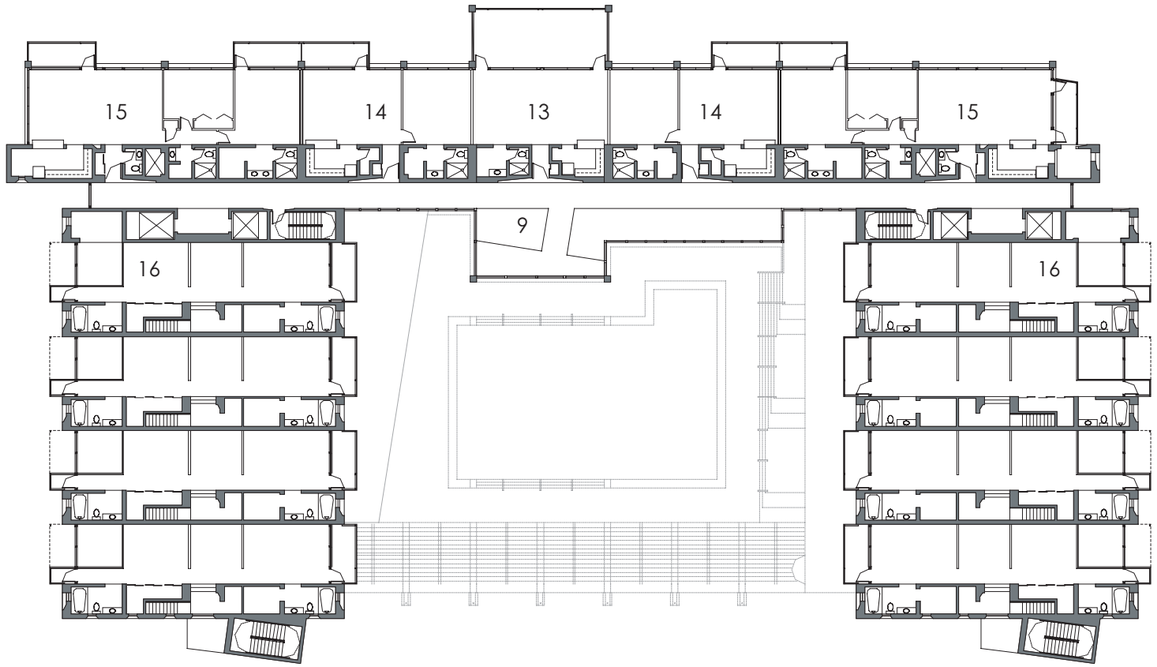


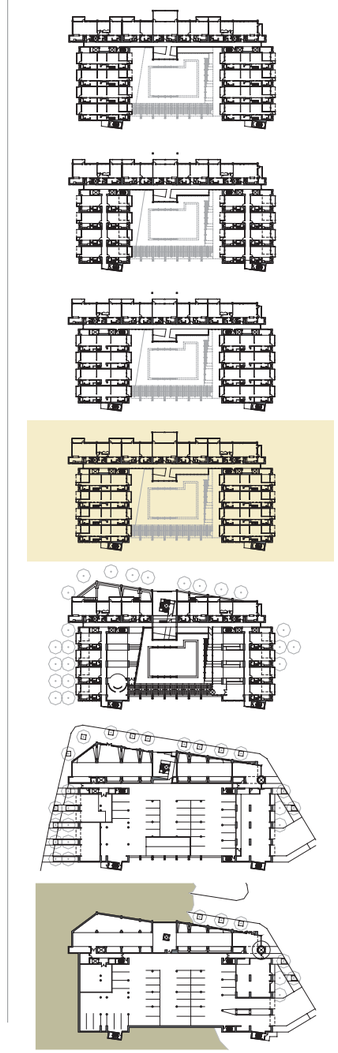


residential - level 1 of 5 - entry

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
10 - Recital Hall
11 - Reading Library
12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor





residential - level 2 of 5

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
10 - Recital Hall
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12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
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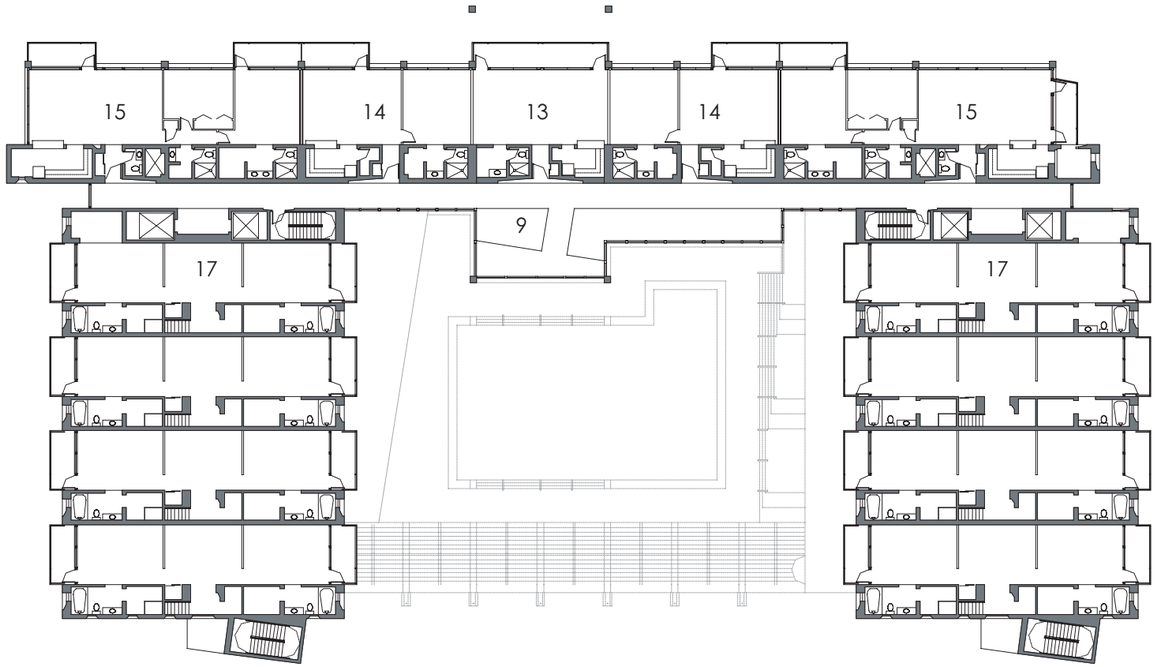
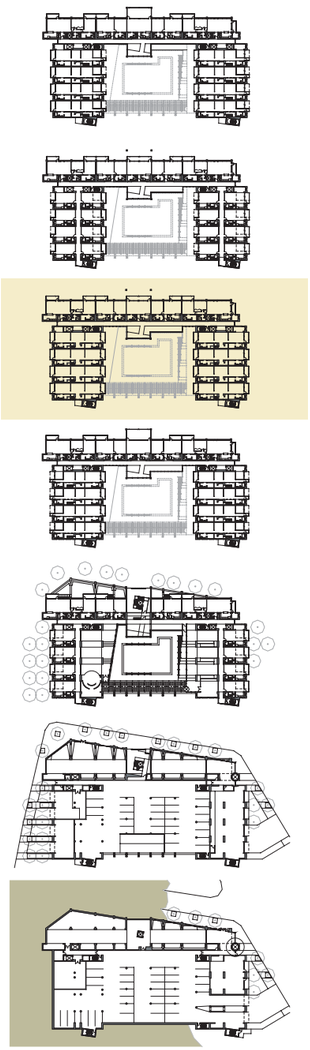
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor





residential - level 3 of 5

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
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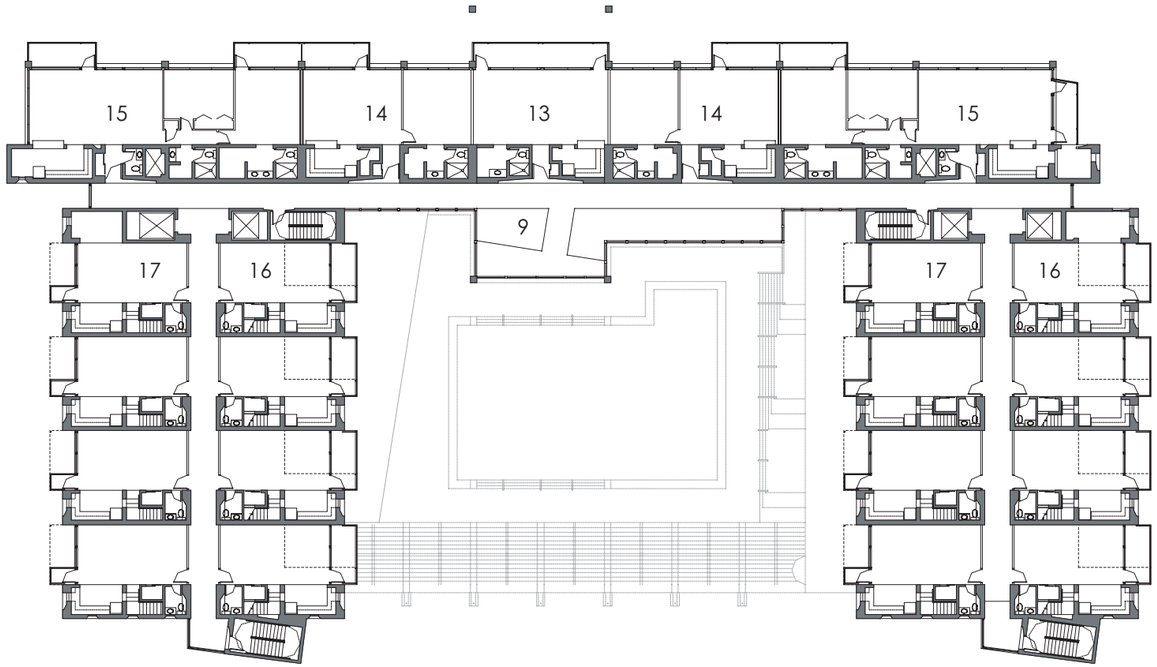
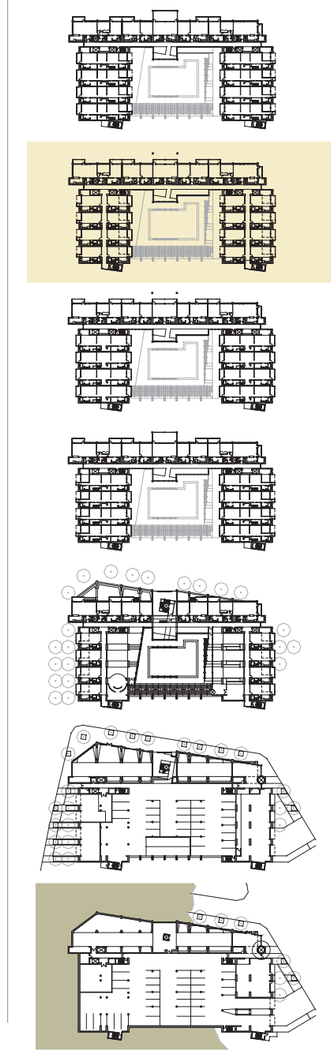
11 - Reading Library
12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor





residential - level 4 of 5

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
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12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
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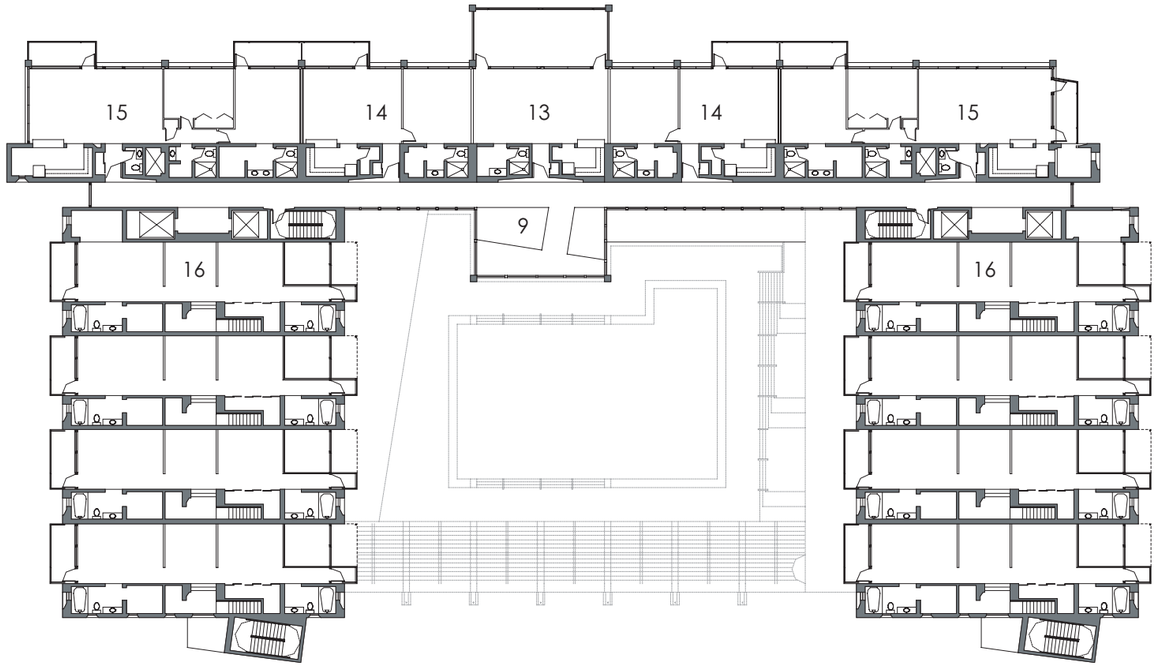

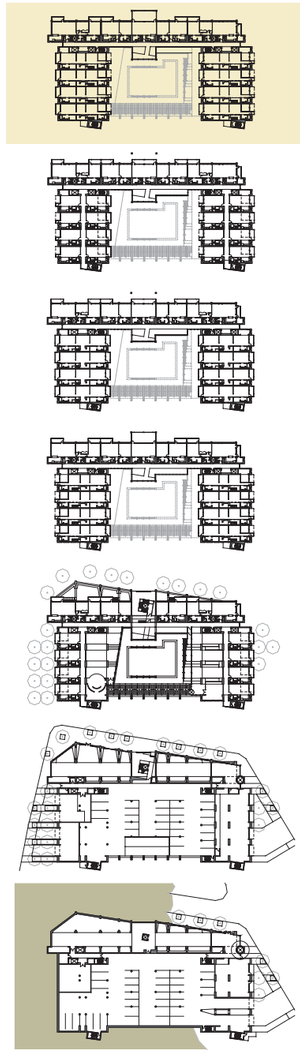

residential - level 5 of 5

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
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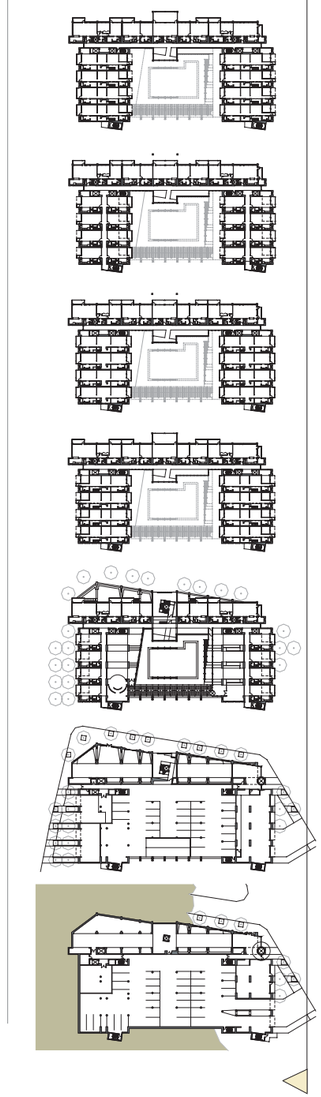
12 - Courtyard
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor

daingerfield road elevation (east)



Legend

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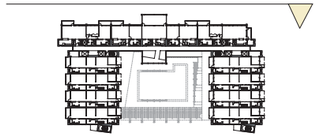
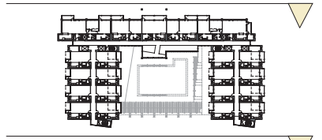
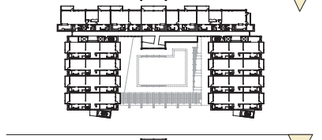
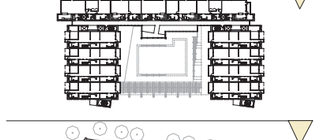
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor

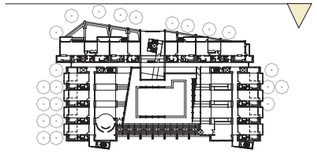
prince street elevation (north)

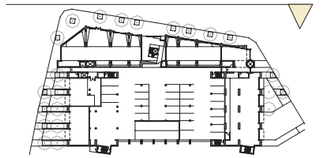


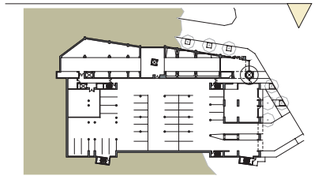












Legend

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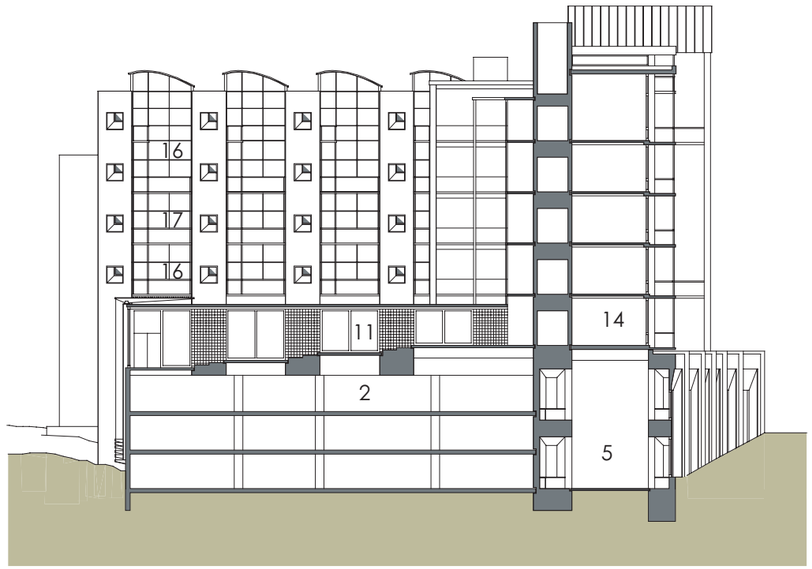
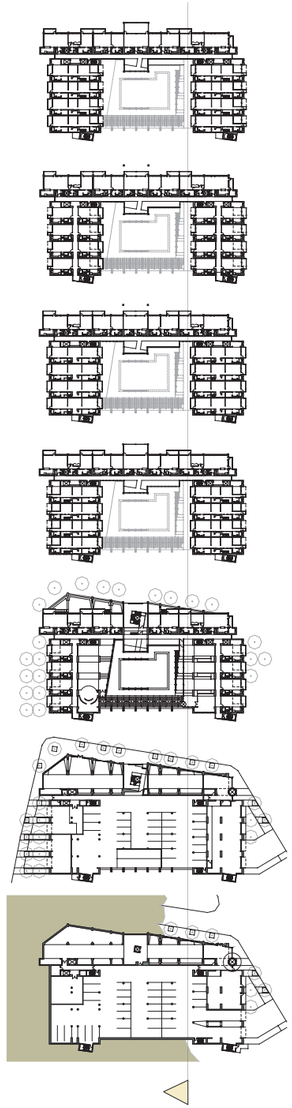
13 - Flat Studio
14 - Flat 1-Bedroom
15 - Flat 2-Bedroom
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor





north-south section a

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
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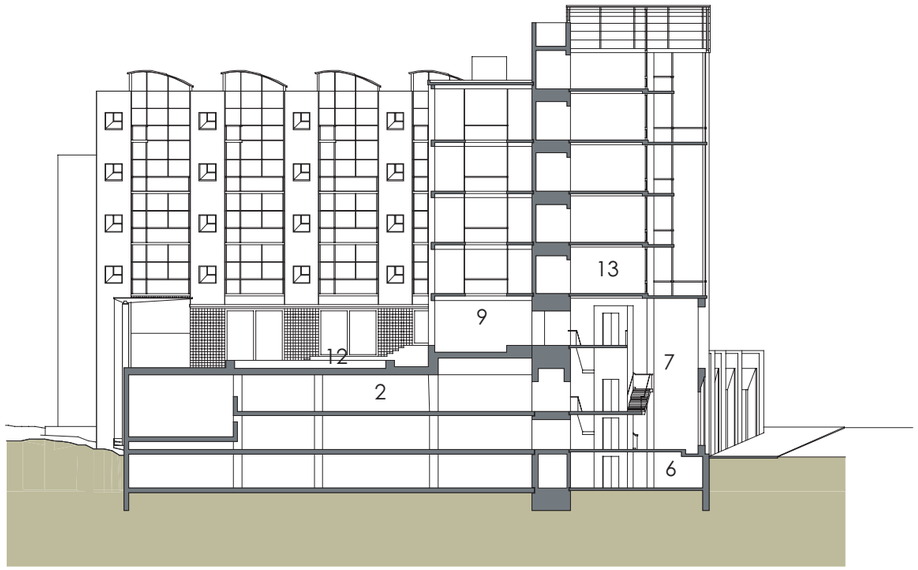

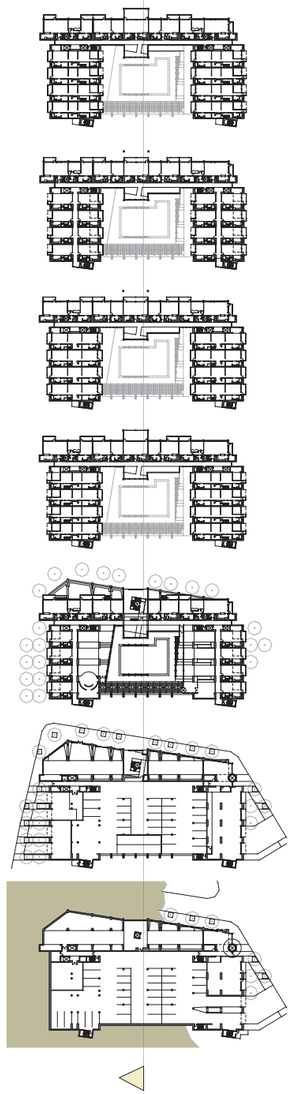

north-south section b

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
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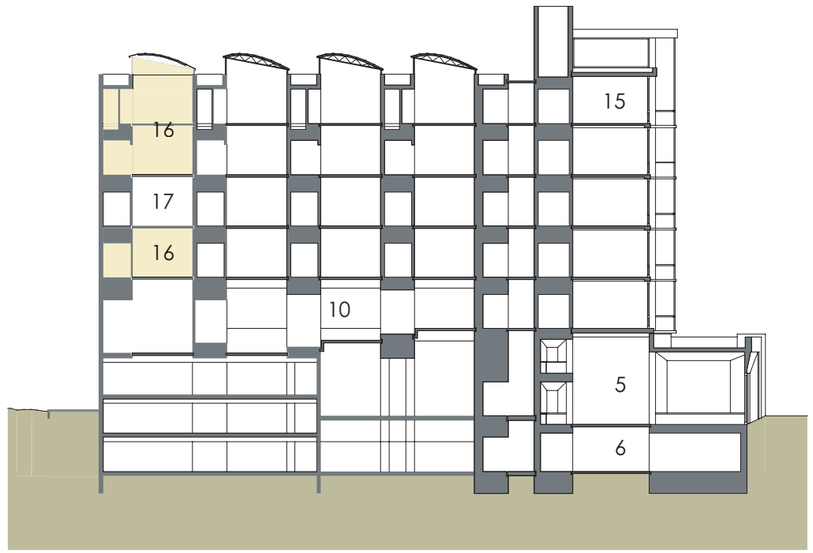
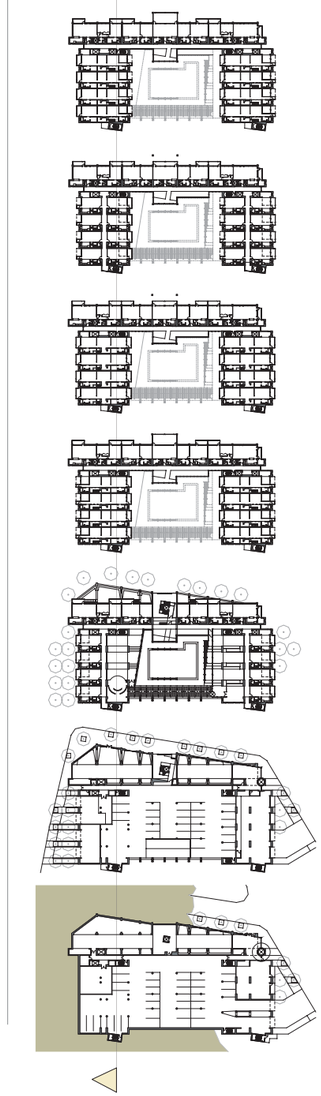
16 - Skip-Stop Bottom Entry
17 - Skip-Stop Top Entry
18 - Skip-Stop Corridor





north-south section c

Legend

1 - Vehicle Entry/Exit
2 - Parking
3 - Loading Dock
4 - Office Space
5 - Retail Space
6 - Retail Storage
7 - Apartment Entry
8 - Apartment Vehicle Entry/Exit
9 - Atrium
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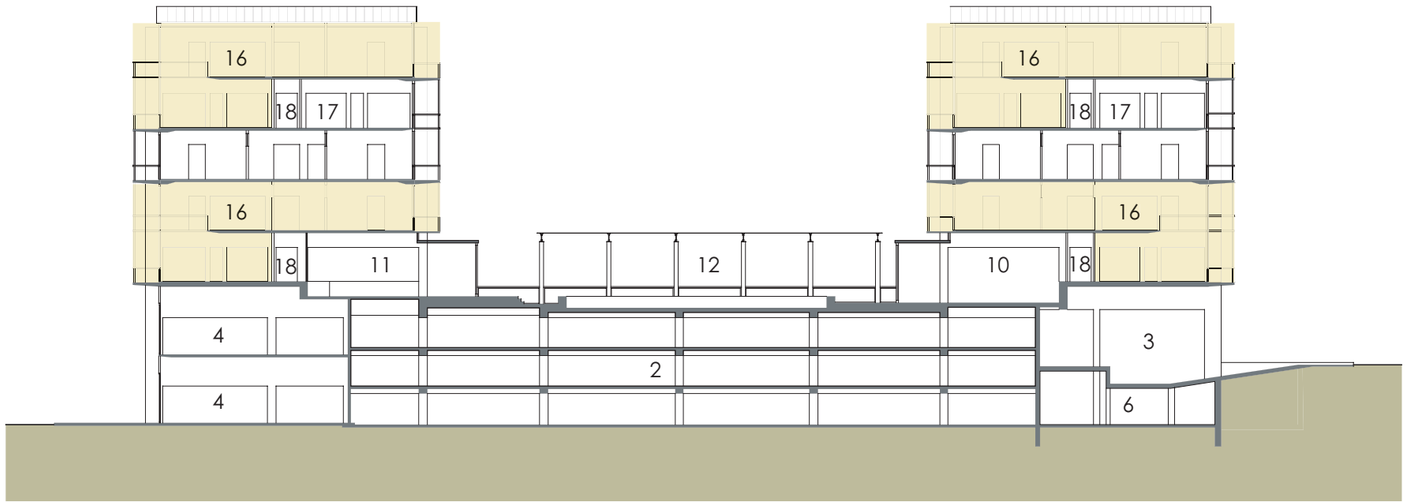
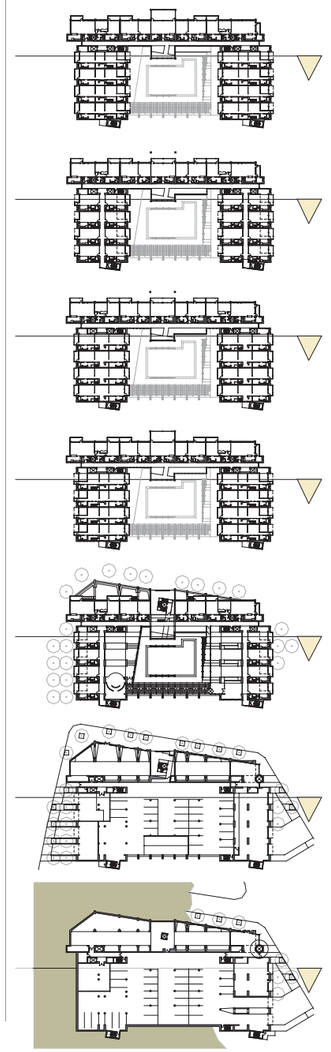


east-west section



Legend

1 - Vehicle Entry/Exit
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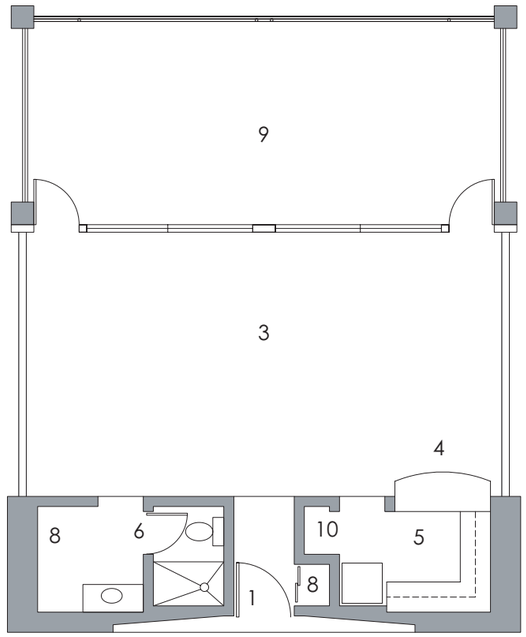
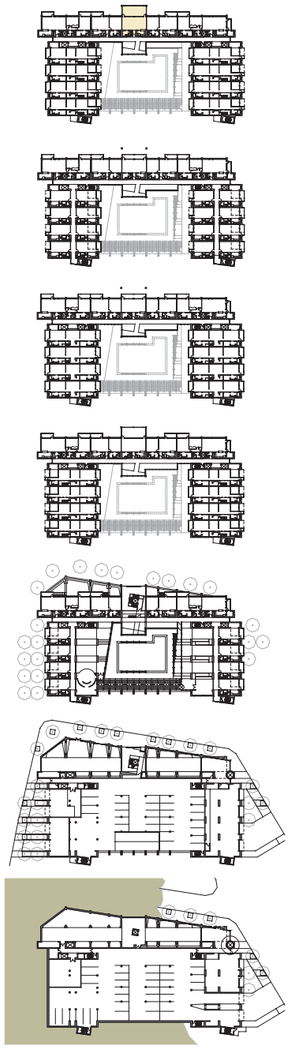
18 - Skip-Stop Corridor

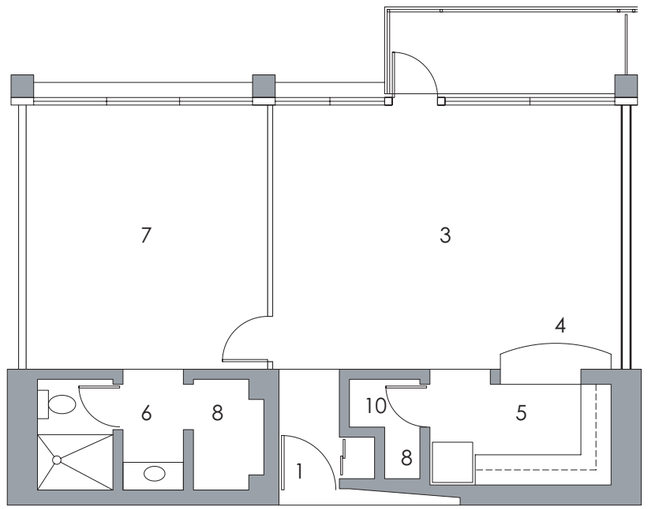


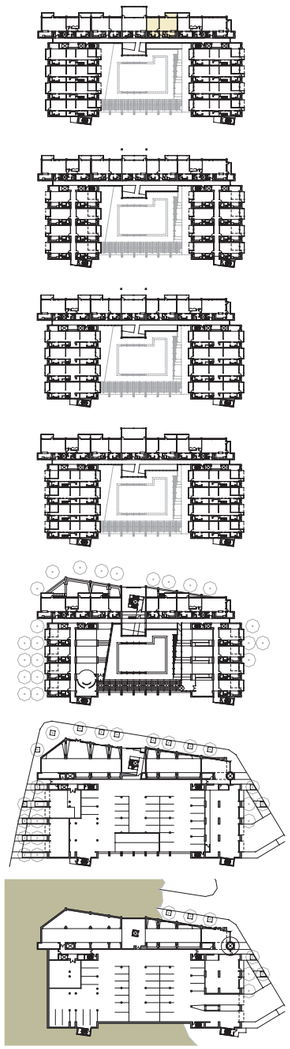


studio apartment

Legend

1 - Unit Entry
2 - Powder Room
3 - Living Room
4 - Dining Area
5 - Kitchen
6 - Bathroom
7 - Bedroom
8 - Closet
9 - Balcony
10 - Utility/Laundry
11 - Sitting Room

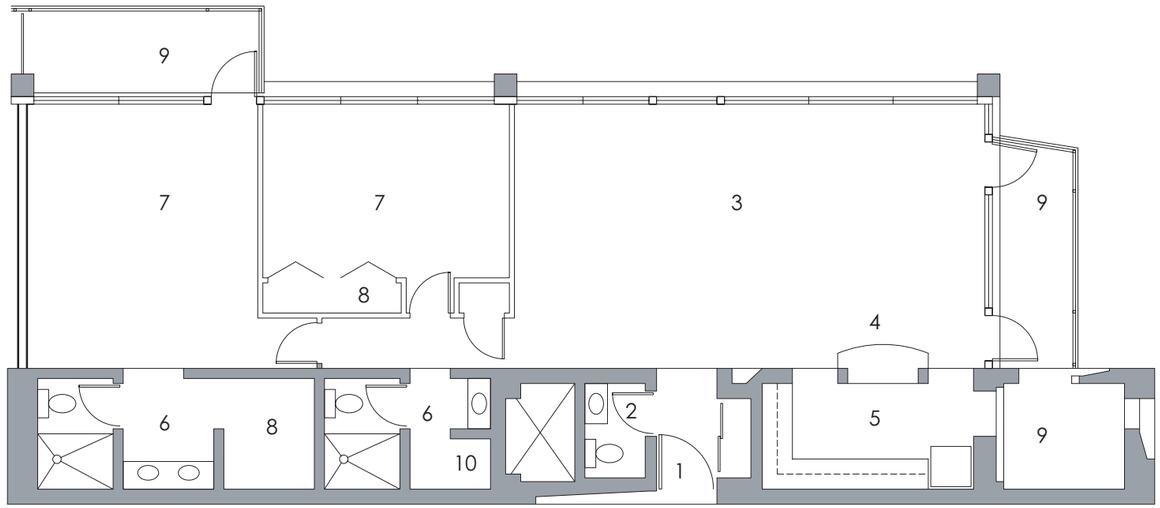


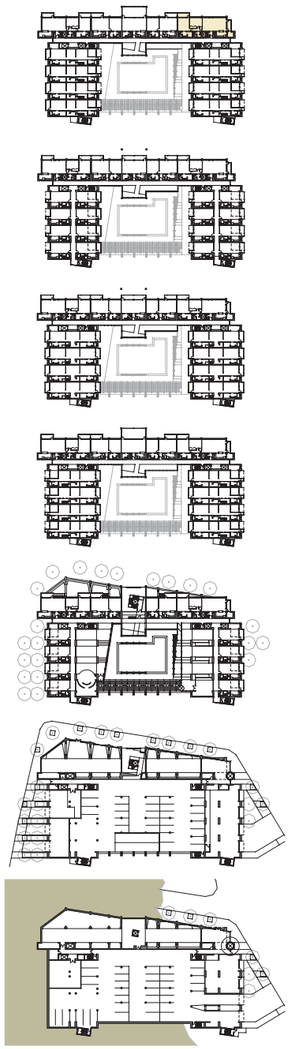


one bedroom apartment

Legend

1 - Unit Entry
2 - Powder Room
3 - Living Room
4 - Dining Area
5 - Kitchen
6 - Bathroom
7 - Bedroom
8 - Closet
9 - Balcony
10 - Utility/Laundry
11 - Sitting Room

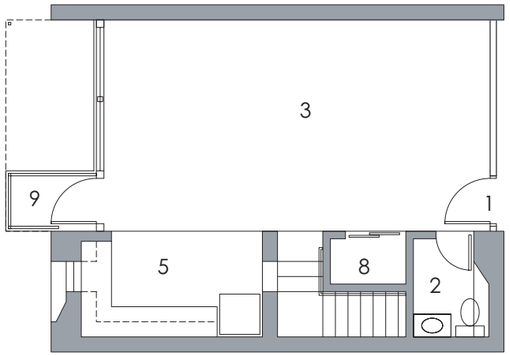




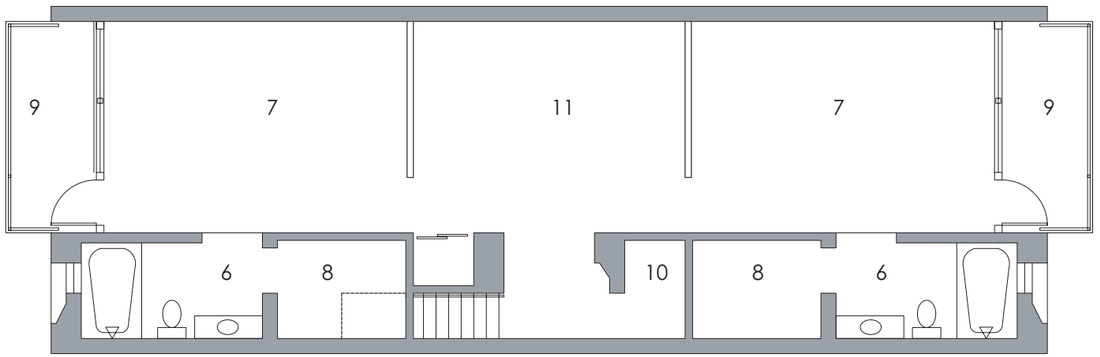
two bedroom apartment

Legend

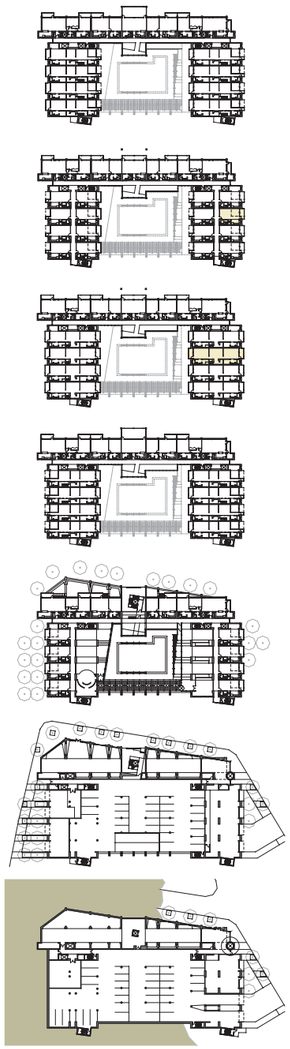
1 - Unit Entry
2 - Powder Room
3 - Living Room
4 - Dining Area
5 - Kitchen
6 - Bathroom
7 - Bedroom
8 - Closet
9 - Balcony
10 - Utility/Laundry
11 - Sitting Room



Entry/Upper Level



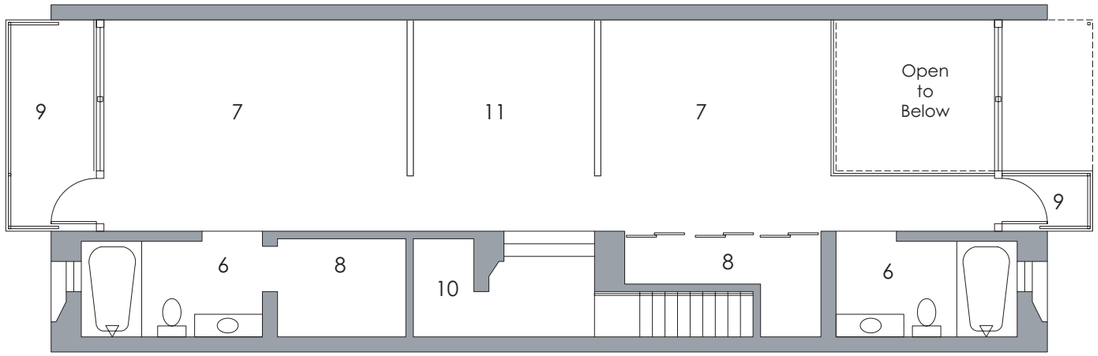
Lower Level



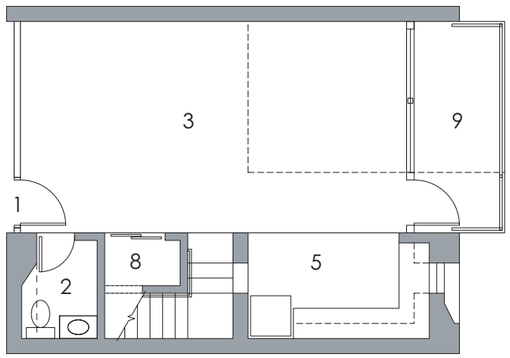
skip-stop type i

Legend

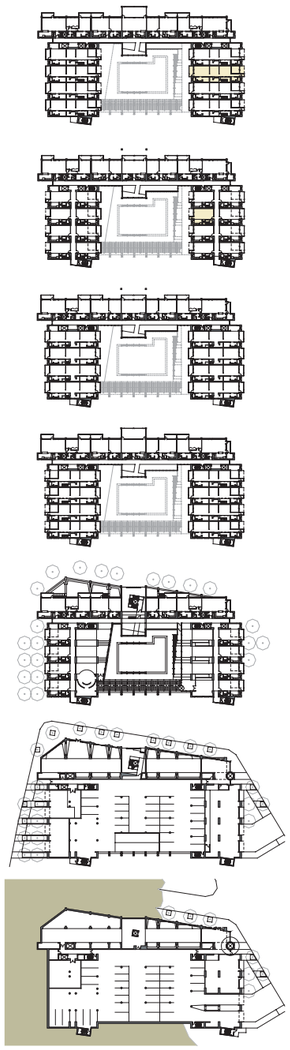
1 - Unit Entry
2 - Powder Room
3 - Living Room
4 - Dining Area
5 - Kitchen
6 - Bathroom
7 - Bedroom
8 - Closet
9 - Balcony
10 - Utility/Laundry
11 - Sitting Room



Upper Level



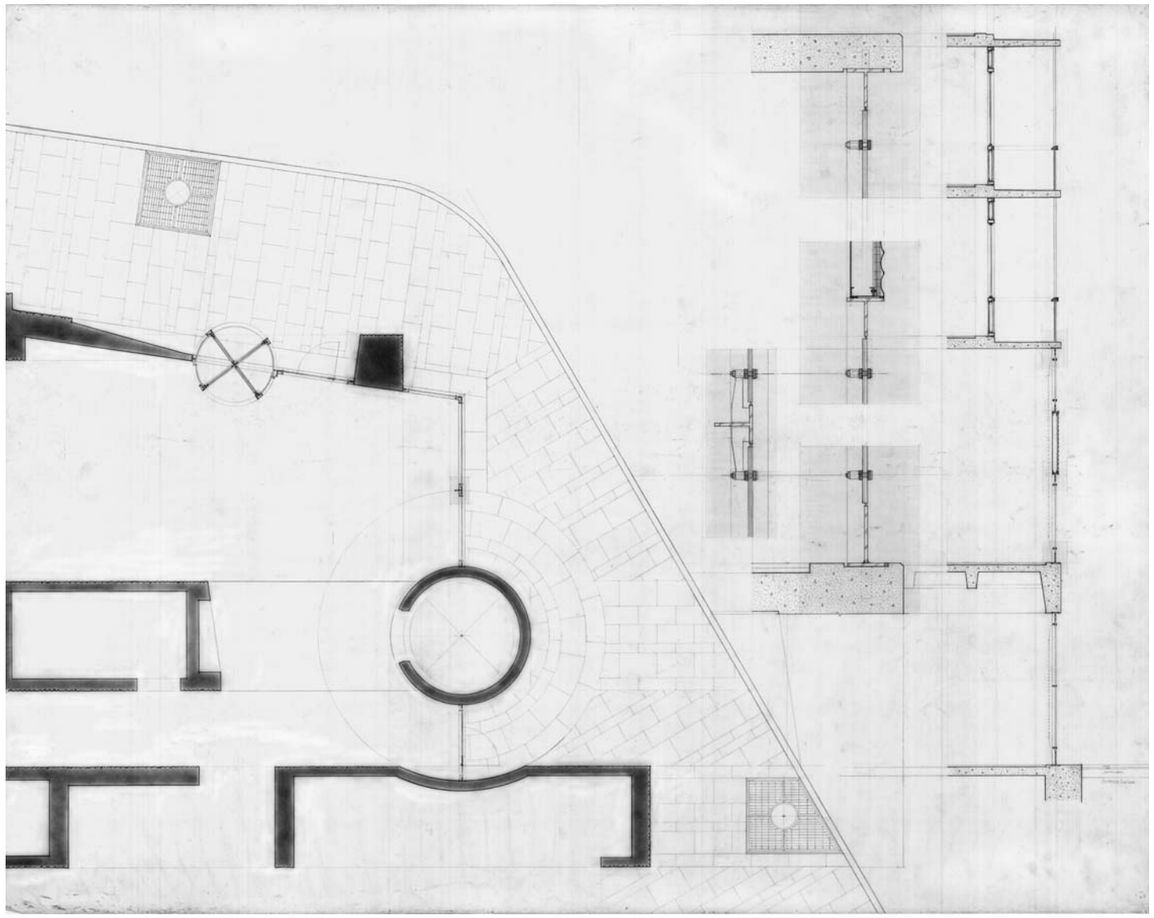
Entry/Lower Level

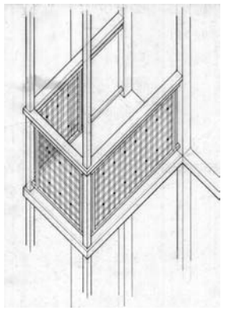


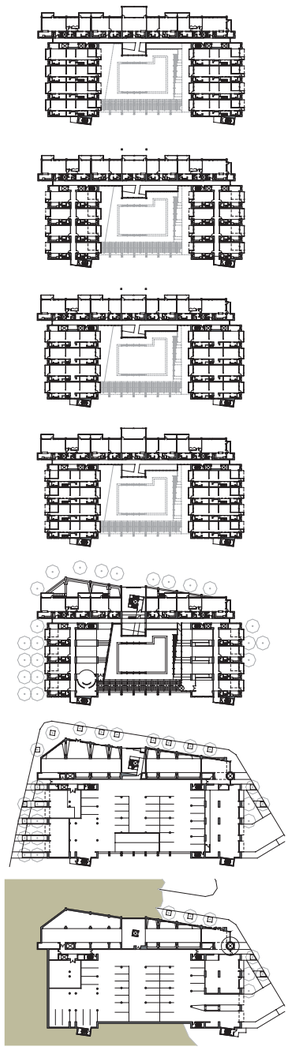
skip-stop type ii

Legend

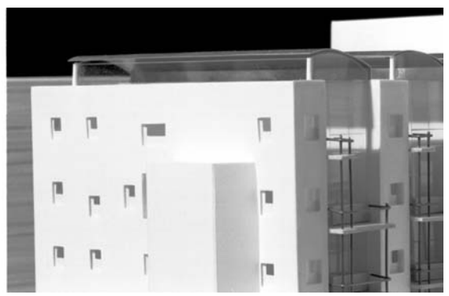
1 - Unit Entry
2 - Powder Room
3 - Living Room
4 - Dining Area
5 - Kitchen
6 - Bathroom
7 - Bedroom
8 - Closet
9 - Balcony
10 - Utility/Laundry
11 - Sitting Room

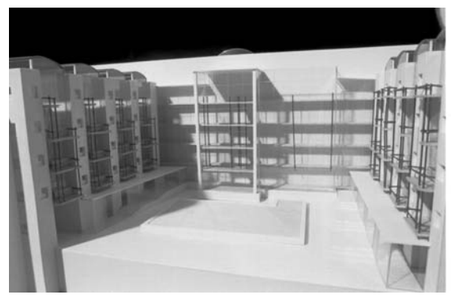






details





Better urban living can be developed and is in fact occurring today. Balconies, natural light, natural ventilation, incorporation of elements of nature are all a part and are successful aspects of this project. The overall effect of these as driving influence for a project is something that should be included in any residential design. The notion of providing for a sense of community in a residential development is a noble ambition. I do not think architecture by itself can ever create a sense of community; however this project exemplifies one solution for providing spaces that can enhance that opportunity and the experience of building a community with your neighbors and friends.

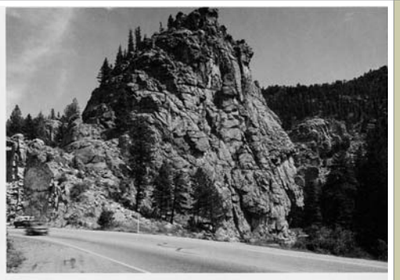
The tectonic thesis of permanence and temporality proved to be an important part of the expression of this project and I believe it was an integral part of the project's success. I believe this theoretical premise provides a great deal of room for exploration and this beginning of that exploration is the true success of this thesis project.

the defense and beyond

144. Timothy O'Sullivan, 1872. Green River Cañons, Upper Cañon, Great Bend, Green River below Horseshoe Bend from Flaming Gorge Cliff. (United States Geological Survey.)

145. Mark Klett for the Rephotographic Survey Project, 1978. Green River Reservoir looking south, Utah.

70. William Henry Jackson, 1873. Castle Rock Boulder Cañon. (United States Geological Survey.)



71. JoAnn Verburg for the Rephotographic Survey Project, 1977. Castle Rock, Boulder Canyon, Colo.

Alexander, Christopher; Ishikawa, Sara; Silverstein, Murray. ***A Pattern Language: Towns • Buildings • Construction***. New York: Oxford University Press, 1977.

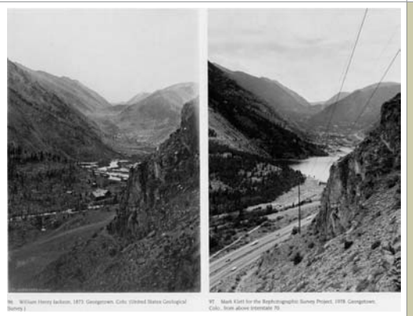
Benedikt, Michael. ***For an Architecture of Reality***. New York: Lumen Books, 1987.

Klett, Mark chief photographer; Ellen Manchester, project director; JoAnn Verburg, project coordinator; Gordon Bushaw and Rick Dingus, project photographers; with an essay by Paul Berger. ***Second view : the Rephotographic Survey Project.*** Albuquerque: University of New Mexico Press, 1984.

Sherwood, Roger. ***Modern Housing Prototypes.*** Cambridge, Massachusetts and London, England: Harvard University Press, 1978.

Watanabe, Hiroshi. "A Cross Cultural Concert in the Far East" ***Progressive Architecture*** (August 1991).

where i found it



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MasterBuilt Companies
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Leapley Construction
Project Manager • 1999-2000

KCF•SHG
Graduate Architect II • 1999

Oldham+Partners (OPx)
Architectural Intern • 1998

where i have been