THE DWELLING IS AN ARCHITECTURAL MANIFESTATION OF MAN'S SEARCH FOR PURPOSE IN HIS FAMILY.
SPACES DESIGNED FOR SOCIAL GATHERING EMPHASIZE MAN'S NEED TO FULFILL HIMSELF IN HIS SOCIETY.
EXPLORING PRINCIPLES OF ORDER

The Principles Defined:

Axis:

An axis may be understood as having two fundamental components: an implied line of movement and a distinct visual focus giving meaning to that line. Thus axis usually is a linear ordering device which relates a beginning and end. Note how the eye sweeps from one end of the ellipse to the other when the term axis is used. In Euclidean geometry, the axis is often imagined as fixed in space--as if either end is permanently anchored--and other elements are rotated around it. Anchors are useful in spatial perception also to give definition. Often, in European cities, streets designed to be broad axiis were lined with facades of pronounced rhythmic vertical elements, increasing the sensation of movement.

Accepting this understanding of axis, the fundamental components can be thought of in unconventional ways stretching the limits of the conventionally recognizable axis. Note the diagram which illustrate that the perceptual qualities of axis work even if the linear path is circumvented due to the location of an obstacle such as a body of water. The perceptual presence of the implied line and related visual focus continue to order the experience even if one is traveling along the circular part of the path towards the anticipated destination. Another example is the placement of the visual focus in near proximity to the path although not exactly on it. The fundamental perceptual qualities of axis remain intact for one traveling along the path. The visual focus still reads as the destination and focus of movement. Thus, axis can be distorted while maintaining perceptual effectiveness.
Proportion:

Proportion has been one of the most enduring of classical ideas despite the historical transformations of technology, philosophy, and economics in the past 2500 years. Proportion has always been a tool for visual decision making. The fundamental issues of proportion are height, width, and depth. Early in the history of architecture, it was believed that mimicking the basic proportions of nature (such as is exemplified in the golden section and the Fibonacci series) in the creations of man produced “beauty.” This norm carried through into modern architecture, as even LeCorbusier despite his seemingly nonclassical aesthetics, frequently used classical proportioning rules to determine relationships of building elements. These laws of beauty which are believed by some to be held in the collective unconscious of western culture seem to re-appear time and again. Thus, they work to give order to compositions from the scale of vases to the scale of cities.

![Diagram of Proportion Examples]

Compositional Balance: symmetry and asymmetry:

Compositional balance is the intuitive sense that the elements of a composition are in balance with each other. This is the secret of the discriminating artist’s eye. In the case of symmetry, the relationship of elements is more formal. Symmetry is the phenomena that the ancients observed in nature and sought to duplicate in their architecture. Of course, symmetry in its pure form rarely exists in nature, symmetry of the natural world is more a general understanding of form. For example; some trees appear to be symmetrical from any direction from a distance when in reality, if scrutinized in detail, they are not symmetrical at all. This observable phenomenon reveals a great truth about the nature of symmetry. Symmetry and asymmetry have ambiguous limits which separate the two. Asymmetry is anything which is not symmetrical, yet it also carries with it some meaning all to itself. Asymmetry elements usually are more than near misses. Asymmetry seems to work best when a tension is created. Note the difference between the diagrams below. There is a gradient represented, but clearly the two on the left are symmetrical and the two on the right are asymmetrical.

![Diagram of Symmetry and Asymmetry Examples]
Datum:
A datum is any point, line, plane, or volume that by its continuity and regularity collects or organizes other elements. Datums inform us about the way spaces work on many different levels. Frequently datums are circulation systems such as corridors, streets, and stairs. Sometimes vertical elements or open spaces serve as datums for other rooms, buildings, or streets. The ambiguity of utility of datum lies in the strength with which a datum asserts itself upon other elements. Notice the following diagrams:

Hierarchy:
A hierarchy is the dissimilarity of similar elements, calling attention to a particular element. Increased importance communicates meaning. Examples of hierarchial elements are voids in walls where entrances are and tower elements which serve as orientational tools. Similar to datum, the effectiveness of an element of hierarchy is in the strength of the contrast between it and its context. Too much ambiguity reduces readability.
Visual Patterns:

There are many visual patterns used to accomplish order. Patterns work by establishing expectations which allow people to anticipate things within the environment. Rhythm, repetition, sequence, and texture are examples. By reading a visual texture, for example, one can understand the unifying quality of a surface treatment without seeing every detail. These patterns work because man can read regularity in his environment. Of course, this device has its limits also if the sense of regularity becomes too ambiguous. How different does the fourth object in a series have to be in order to disrupt the sense of pattern? How much can the texture change across a surface and continuity still be experienced? How broken can a rhythm be until their is no longer rhythm? These are issues which define the effectiveness of visual patterns.

Gestalt:

Gestalt is a psychological term which has to do with human perception in the sense that humans read from their environment whole experiences. Such experiences can be dissected into parts, but gestalt theory suggests that the human mind reads the whole first, before recognizing the parts. This is an especially important idea for environmental design. It is not the details that matter by themselves, but the whole of the details brought together which impact our perception. Thus, one should not underestimate the impact of space or building massing which create the basic scale as compared to particular window details or roof color. People see the whole scene simultaneously. Ambiguity in terms of gestalt comes from the issue of how much of the whole is needed to be present in order to communicate. Overlapping images and patterns creates exciting visual stimulation as several gestalts are readable. However, too many gestalts overlapping such that none of them are readable creates chaos.
Experiential Patterns:

Experiential patterns are similar to visual patterns only understood in the context of moving through and experiencing three dimensional space. Many such patterns can be identified by the same name, yet the four dimensional implications are complex. The grid is a good example of an experiential pattern. In this country, people frequently project themselves through space along the path they are traveling by utilizing their imagination of the grid. Assuming all turns to be at right angles, people frequently keep track of direction or travel towards an unknown destination keeping track of turns guided by their understanding of the grid.

Theme:

The unifying idea that gives unity and order to many diverse elements. A common example of this phenomena is the old classical building, which is added on to with a new modern wing. Often despite the poor skills of the designer, some sense of continuity and order is accomplished. This happens because people are able to interpret meaning from the old and new and make an intellectual connection even if the symbolic visual connections are weak at best. Beyond serving as a default mechanism, this phenomena can be used to intensify the meaning communicated in contrasting or complimentary elements. The means of such communication is in understanding and utilizing cultural symbolism.
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<tr>
<th>Rome at St. Peter's</th>
<th>Acropolis</th>
<th>Elvir</th>
<th>Spanish Steps</th>
<th>Church in Via Cestia</th>
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Object Set
Community Space
Multi-family Dwelling
Urban Intervention:

An Exploration of Order
Louisville, Kentucky

Thesis Program
Spring 1991

Kevin M. Burns
CONTENTS

Abstract
Introduction
Design Criteria
I. Object set
II. Community space
III. Multi-family dwelling
    Units a, b, c, d
    - Living/dining/entertaining space
    - Primary sleeping space
    - Sleeping/special interest space
    - Food preparation space
    - Utility space
    - Bathing/toilet space
    Common area
    - Common corridor/vertical circulation
    - Exterior entry
    - Front lawn
    - Back garden
IV. Urban intervention
    Corner retail nodes
    Neighborhood market street
    Retail connection to the downtown
Space summary
Space relationships
Exterior design criteria
Cost
Appendix
ABSTRACT

OBJECT SET: CHAIR, TABLE, LAMP:
A multi-purpose object which brings order to a space.
An exploration of virtual principles of creation and basic issues of
order.
An expression of man's seeking and creating order in his life.
An expression of ordering principles present in the site, neighborhood,
and community.

COMMUNITY SPACE:
A furthering of the principles of order present in the object.
A community space used by all apartment residents.
An expression of social interaction and personal meditation.
An expression of common entry.

MULTI-FAMILY DWELLING:
A furthering of the principles of order present in the community space.
An expression of four apartment units, each containing as a minimum:
two spaces for sleeping, space for living/dining/entertaining,
space for food preparation, and space for bathing/toilet with
emphasis placed on flexibility and multi-functional
arrangements.

URBAN INTERVENTION:
A furthering of the principles of order present in the dwelling.
A provision of necessary commercial facilities to sustain the village
community, encouraging social interaction among different
socio-economic groups, promoting a hierarchy of pedestrian
scale over automobile scale, encouraging people interaction
with civic and retail facilities, and adding to a healthy mix of
cultural, commercial, educational, and residential urban
elements.
An expression which is both a reflection of culture and a challenge to
culture, responsive to contemporary society's need for
complexity, discovery, and mystery in the built environment;
and expressive of the identity of each element while
contributing to the continuity of the whole.
An expression which reinforces and strengthens existing principles of
order in the community.
INTRODUCTION

The scope of this program is to establish design parameters for a specific academic project testing the following theoretical position:

Man seeks order in his environment through the medium of architecture. Order in architecture is accomplished as man engages his basic physical, social, and intellectual needs and, through this engaging, determines a built environment with ordering principles that through human sensation and perception reinforce a holistic experience of order. A holistic experience of order is at one level a personal subjective phenomenon, yet I believe that there is a universal, objective understanding which is fundamental to the human experience. In this sense, there is an intuitive understanding of order shared by all people which might best be simplified as "An arrangement with respect to which it would matter if it were otherwise." (Peter Caws) Because man seeks (often indirectly) to live an ordered life, he is ever seeking and creating environmental conditions which contribute to his ability to control his life through understanding. This truth of human nature applies to the individual, small family groups, as well as, entire communities and cultures.

This design is both an exploration and test of the utility of ordering principles such as proportion, axis, compositional balance, hierarchy, texture, visual patterns, datum, gestalt, regularity, experiential patterns, and theme.

This program is concerned with the issues of order deriving from the context, the character, the users and their activities, equipment and furnishings, thermal, acoustic, and lighting criteria, and areas and arrangements.
I. OBJECT SET
DESIGN CRITERIA: OBJECT CHAIR

Order:
A multi-purpose object which brings order to a space.
An exploration of virtual principles of creation and basic issues of order.
An expression of man's seeking and creating order in his life.
An expression of ordering principles present in the site, neighborhood, and community.

Character: Minimalist, utilitarian, artful, simple, comfortable.

Light falling on the simple shining object,
The back stands tall and proud and alive,

I sit and slowly my body relaxes into the grasp of the vessel.

The legs mimicking the strength and grace of a standing deer,
The seat reminding me of the hand of the legendary King Kong holding the distressed damsel.

I rise and reluctantly the chair lets me go.

Function: Object should be expressive of its function. Chair should express its essential components: structure and vessel.
DESIGN CRITERIA: OBJECT

Order: A multi-purpose object which brings order to a space.
An exploration of virtual principles of creation and basic issues of order.
An expression of man's seeking and creating order in his life.
An expression of ordering principles present in the site, neighborhood, and community.

Character: Minimalist, utilitarian, artful, simple, comfortable.

Light washing the sleek surface,
Conversation rising in a gentle hush,

People are seated about the table engaged in whispered conversation.

Eyes shifting nervously from person to person,
A hand crashing to the solid table,

The reverberation dies quickly and I nervously remove my hand from the highly textured leg—and deal the final hand.

Function: Object should be expressive of its function. Table should express its essential components: structure and platform.
DESIGN CRITERIA: OBJECT LAMP

Order: A multi-purpose object which brings order to a space.
An exploration of virtual principles of creation and basic issues of order.
An expression of man's seeking and creating order in his life.
An expression of ordering principles present in the site, neighborhood, and community.

Character: Minimalist, utilitarian, artful, simple, comfortable.

Space existing unperceived,
Darkness hovering like a cloud,
A click breaks the silence and the room is revealed.

Light dancing everywhere,
Hierarchy emerging with distinction,
The textured surface glimmers underneath the subdued light of the lamp.

Function: Object should be expressive of its function. Lamp should express its essential components: structure and illuminator.
II. COMMUNITY SPACE
DESIGN CRITERIA: COMMUNITY SPACE

Order:  A furthering of the principles of order present in the object.

A community space used by all apartment residents.

An expression of social interaction and personal meditation.

An expression of common entry.

Character:  Light, flexible, minimal, cheerful, dignified, multi-purpose, simple and complex.

Light pouring into the room from the East window,
People walking and talking on the porch,

Two people are sitting at one of the tables engaged in conversation.

The lamp lighting the walls and floor,
Soft music floating quietly out of reach,

The residents are gathering for a discussion of the art festival taking place outdoors along the street.

Activity/User/Time frame:  This space will be the most significant common space in the dwelling. People will likely use this space for conversation, mail gathering, waiting for rides, relaxing meditating, parties, etc. This must be a multi-functional space which can be adapted to many uses with little effort.

Equipment/furnishings/auxiliary spaces:  Furniture should be independent and adaptable. Furniture could reinforce the versatility and quality of the different kinds of interaction taking place in the space.

Thermal/acoustics/lighting:  Space should take advantage of natural cooling from wind and natural lighting and heating from sunlight. Ambient temperature of 68°F-75°F needed. Natural lighting will give space more life. Artificial light should be used to provide lighting at night in the absence of natural light. Light should reinforce activities and movement and reinforce sense of warmth and comfort. Light might be used to reinforce security and residents' pride in their homes (dignity).

Area/arrangement:  375-450 square feet
III. MULTI-FAMILY DWELLING
DESIGN CRITERIA: MULTI-FAMILY DWELLING

A furthering of the principles of order present in the community space.
An expression of four apartment units, each containing as a minimum: two spaces for sleeping, space for living/dining/entertaining, space for food preparation, and space for bathing/toilet with emphasis placed on flexibility and multi-functional arrangements.

UNIT A Designed for a family which emphasizes individual exploration and growth, the pursuit of one's own interests, with less emphasis given to family togetherness. Time spent together as a family becomes very special time, with the family acting as a support mechanism for the individuals.

UNIT B Designed for a family which emphasizes family togetherness, de-emphasizing the importance of the family member's time to themselves. This family scenario would desire ample amounts of space for family members to either participate together in group activities or to be involved in diverse activities with in the same space. Sleeping spaces would likely be used for sleeping only.

UNIT C Designed for a family which entertains frequently, and thus requires both ample space for public activities and also private spaces for those family members which desire to avoid company.

UNIT D Designed for a family which does not fit typical family models, the single parent of two children.
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT A

LIVING/DINING/ENTERTAINMENT SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: warm, dignified, comfortable, simple, pleasant.

Light streaming in from windows located high on the wall brightening walls and ceiling.
Fire burning in the hearth suppressing the cold outdoors.

The balcony which overlooks the front yard and sidewalk is filled with snow, increasing the sense of warmth of the fire indoors by extreme contrast.

Books lying open on the table with the light overhead highlighting the texts.
Steam rising from the open oven door forecasting midmorning dessert.

The stereo which sits in the corner of the room is playing softly the music of Johann Sebastian Bach as background to my reading.

Activity/user/time frame: Space will likely be home a family of 2-5 people. This space, more than any other space in the unit must be adaptable to changing activities such as informal eating, study, leisure reading, entertaining, family conversation, television viewing, game playing, etc. Space may be used twenty-four hours a day, but will primarily be used during daytime and evenings. This space will be de-emphasized in this particular unit as compared to the individual spaces, but time spent in this space when family is together should be time of the highest quality possible.

Equipment/furnishing/auxiliary spaces: Space may need built-in storage and movable storage equipment such as built-in bookcases, seating, tables, cabinets, and shelves.

Thermal/acoustics/lighting: Space should take advantage of natural cooling from wind and natural lighting and heating from sunlight. Ambient temperature of 68°F-75°F needed. Natural lighting will give space more life. Artificial light should be used to provide lighting at night in the absence of natural light. Light should reinforce activities and movement and reinforce sense of warmth and comfort. Light might be used to reinforce security and residents pride in their homes (dignity).

Area/arrangement: 200-250 square feet

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT A
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT A

PRIMARY SLEEPING SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces are of particular emphasis.

The light bursting in and sliding down the wall, 
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space, 
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: Resident will primarily use space for sleeping at night, but space must be adaptable for daytime sleeping or other daytime waking activities such as reading, meditating, television viewing, etc. With this particular unit, more emphasis will be put on pursuit of individual interests. Space will need to be able to accommodate diverse activities.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests, and one or more lighting fixtures/lamps. Storage space for clothes and personal property.

Thermal/accoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT A
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT A

SLEEPING/SPECIAL INTEREST SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces are of particular emphasis.

The light bursting in and sliding down the wall,
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: This space will be used for many different purposes. Sometimes as a guest bedroom, sometimes as a studio or sewing room, and in some cases as a permanent bedroom for children.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.
SLEEPING/SPECIAL INTEREST SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces are of particular emphasis.

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Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

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Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: This space will be used for many different purposes. Sometimes as a guest bedroom, sometimes as a studio or sewing room, and in some cases as a permanent bedroom for children.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user’s pursuit of personal interests, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT B

LIVING/DINING/ENTERTAINMENT SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: warm, dignified, comfortable, simple, pleasant.

Light streaming in from windows located high on the wall brightening walls and ceiling,
Fire burning in the hearth suppressing the cold outdoors,
The balcony which overlooks the front yard and sidewalk is filled with snow, increasing the sense of warmth of the fire indoors by extreme contrast.

Books lying open on the table with the light overhead highlighting the texts,
Steam rising from the open oven door forecasting midmorning dessert,
The stereo which sits in the corner of the room is playing softly the music of Johanne Sebastian Bach as background to my reading.

Activity/user/time frame: Space will likely be home a family of 2-5 people. This space, more than any other space in the unit must be adaptable to changing activities such as informal eating, study, leisure reading, entertaining, family conversation, television viewing, game playing, etc. Space may be used twenty-four hours a day, but will primarily be used during daytime and evenings. This space will be emphasized in this particular unit as compared to the individual spaces, and time spent in this space when family is together should be time of the highest quality possible. Family members should be able interact in a variety of ways within this space—often simultaneously.

Equipment/furnishing/auxiliary spaces: Space may need built-in storage and movable storage equipment such as built-in bookcases, seating, tables, cabinets, and shelves.

Thermal/acoustics/lighting: Space should take advantage of natural cooling from wind and natural lighting and heating from sunlight. Ambient temperature of 68°F-75°F needed. Natural lighting will give space more life. Artificial light should be used to provide lighting at night in the absence of natural light. Light should reinforce activities and movement and reinforce sense of warmth and comfort. Light might be used to reinforce security and residents pride in their homes (dignity).

Area/arrangement: 300-350 square feet
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT B

PRIMARY SLEEPING SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces will be de-emphasized as compared to the family group space.

The light bursting in and sliding down the wall,
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: Resident will primarily use space for sleeping at night, but space must be adaptable for daytime sleeping or other daytime waking activities such as reading, meditating, television viewing, etc. With this particular unit, more emphasis will be put on pursuit of individual interests. Space will need to be able to accommodate diverse activities.

Equipment/furnishings/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 120-150 square feet.
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT B

SLEEPING/SPECIAL INTEREST SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces will be de-emphasized as compared to the family group space.

The light bursting in and sliding down the wall,
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: This space will be used for many different purposes. Sometimes as a guest bedroom, sometimes as a studio or sewing room, and in some cases as a permanent bedroom for children.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 120-150 square feet.

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT B
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT C

LIVING/DINING/ENTERTAINMENT SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: warm, dignified, comfortable, simple, pleasant.

Light streaming in from windows located high on the wall brightening walls and ceiling,
Fire burning in the hearth suppressing the cold outdoors,
The balcony which overlooks the front yard and sidewalk is filled with snow, increasing the sense of warmth of the fire indoors by extreme contrast.

Books lying open on the table with the light overhead highlighting the texts,
Steam rising from the open oven door forecasting midmorning dessert,
The stereo which sits in the corner of the room is playing softly the music of Johann Sebastian Bach as background to my reading.

Activity/user/time frame: Space will likely be home a family of 2-5 people. This space, more than any other space in the unit must be adaptable to changing activities such as informal eating, study, leisure reading, entertaining, family conversation, television viewing, game playing, etc. Space may be used twenty-four hours a day, but will primarily be used during daytime and evenings. This space will be emphasized in this particular unit as compared to the individual spaces in the sense that this family will use this common space to entertain those that they invite into their home.

Equipment/furnishing/auxiliary spaces: Space may need built-in storage and movable storage equipment such as built-in bookcases, seating, tables, cabinets, and shelves.

Thermal/acoustics/lighting: Space should take advantage of natural cooling from wind and natural lighting and heating from sunlight. Ambient temperature of 68°F-75°F needed. Natural lighting will give space more life. Artificial light should be used to provide lighting at night in the absence of natural light. Light should reinforce activities and movement and reinforce sense of warmth and comfort. Light might be used to reinforce security and residents pride in their homes (dignity).

Area/arrangement: 300-350 square feet

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT C
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT C

PRIMARY SLEEPING SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces are of particular importance as spaces of retreat when guest are being entertained in the living/dining/entertaining space.

The light bursting in and sliding down the wall, Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space, Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: Resident will primarily use space for sleeping at night, but space must be adaptable for daytime sleeping or other daytime waking activities such as reading, meditating, television viewing, etc. Space will need to be able to accommodate diverse activities.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT C

SLEEPING/SPECIAL INTEREST SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces are of particular importance as spaces of retreat when guests are being entertained in the living/dining/entertaining space.

The light bursting in and sliding down the wall,
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: This space will be used for many different purposes. Sometimes as a guest bedroom, sometimes as a studio or sewing room, and in some cases as a permanent bedroom for children. Space will need to be able to accommodate diverse activities.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/accoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT C
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT D

LIVING/DINING/ENTERTAINMENT SPACE

Order: A furthering of the principles of order present in the community space.

Character: warm, dignified, comfortable, simple, pleasant.

Light streaming in from windows located high on the wall brightening walls and ceiling.
Fire burning in the hearth suppressing the cold outdoors.
The balcony which overlooks the front yard and sidewalk is filled with snow, increasing the sense of warmth of the fire indoors by extreme contrast.
Books lying open on the table with the light overhead highlighting the texts,
Steam rising from the open oven door forecasting midmorning dessert,
The stereo which sits in the corner of the room is playing softly the music of Johann Sebastian Bach as background to my reading.

Activity/user/time frame: Space will likely be home a family of 2-5 people. This space, more than any other space in the unit must be adaptable to changing activities such as informal eating, study, leisure reading, entertaining, family conversation, television viewing, game playing, etc. Space may be used twenty-four hours a day, but will primarily be used during daytime and evenings. This space will need to reinforce healthy family activity amidst a less than ideal family structure—that of a single parent. Time spent in this space when family is together should be time of the highest quality possible. Family members should be able interact in a variety of ways within this space—often simultaneously. Parents with small children will need to be able to keep an eye on them while performing other tasks.

Equipment/furnishing/auxiliary spaces: Space may need built-in storage and movable storage equipment such as built-in bookcases, seating, tables, cabinets, and shelves.

Thermal/acoustics/lighting: Space should take advantage of natural cooling from wind and natural lighting and heating from sunlight. Ambient temperature of 68°F-75°F needed. Natural lighting will give space more life. Artificial light should be used to provide lighting at night in the absence of natural light. Light should reinforce activities and movement and reinforce sense of warmth and comfort. Light might be used to reinforce security and residents pride in their homes (dignity).

Area/arrangement: 200-300 square feet.

DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT D
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT D

PRIMARY SLEEPING SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces will be emphasized along with the family group space.

The light bursting in and sliding down the wall,
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: Resident will primarily use space for sleeping at night, but space must be adaptable for daytime sleeping or other daytime waking activities such as reading, meditating, television viewing, etc. Space will need to be able to accommodate diverse activities. To encourage healthy adult life, privacy should be a priority. A separate entrance into bedroom may be needed.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 150-200 square feet.
DESIGN CRITERIA: MULTI-FAMILY DWELLING UNIT D

SLEEPING/SPECIAL INTEREST SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: quiet, personal, scaled down, relaxing, able to be adapted to express identity of user(s), able to accommodate and be expressive of diverse interest of user. In this particular unit, individual spaces will be emphasized along with the family group space.

The light bursting in and sliding down the wall,  
Birds singing in harmony outside the window,

The alarm sounds with vicious accuracy informing me that the time has unfortunately arrived.

A gentle breeze filtering into the space,  
Fresh flowers increasing the awareness of wakening,

I roll out of bed and find myself standing in the center of my familiar bedroom on a beautiful summer morning.

Activity/user/time frame: This space will be used for many different purposes. Sometimes as a guest bedroom, sometimes as a studio or sewing room, and in some cases as a permanent bedroom for children.

Equipment/furnishing/auxiliary spaces: Furnishings and equipment should contribute to identity and allow for maximum flexibility of use. Murphy bed may be one means of allowing for flexibility and also conserving space. Besides a bed, space should have a minimum of one chair, one table, desk, or other workspace for the user's pursuit of personal interests, and one or more lighting fixtures/lamps, storage space for clothes and personal property.

Thermal/acoustics/lighting: Space needs to be adaptable with operable windows. Space must be comfortable to allow for quality sleep. 68°F design temperature in winter; 72°F design temperature in summer. There should be soft ambient white noise to block other sounds which could disturb sleep. Space should provide natural daylight but this must be controllable. Artificial lighting is needed for reading at night. Lighting needs to be correlated with bed and/or chair.

Area/arrangement: 180-200 square feet.
DESIGN CRITERIA: MULTI-FAMILY DWELLING ALL UNITS

FOOD PREPARATION SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: Clean, simple, minimal, organized, light,

Brightness altering my senses immediately,  
Aromas lifting the spirits of everyone in the house,

The door shuts behind me and I look across the room of familiar people for the one who’s attention I need.

Shiny cabinets glistening with sweet smelling things,  
Human bees bustling around each other—oblivious to me,

I turn to leave and carefully snatch the dark chocolate cookie from the white plate on the white table in the white room.

Activity/user/time frame:  This space shall be used primarily three times a day immediately precedings meal time. All typical cooking, food preparation, and clean up tasks should be anticipated.

Equipment/furnishing/auxiliary spaces:  1 range with overhead hood, refrigerator, double bowl sink, disposal, dishwasher (optional), and allowance for small appliances. Built in sinks should provide typical work service of 36”.

Thermal/acoustics/lighting: lighting conditions should be low glare. Thermal comfort should be a priority in spite of range and other appliances which will tend to overheat the space. Accoustical privacy is appropriate to keep noise levels from within space from distracting others outside food preparation area whenever possible.

Area/arrangement:  130-160 square feet

DESIGN CRITERIA: MULTI-FAMILY DWELLING ALL UNITS
DESIGN CRITERIA: MULTI-FAMILY DWELLING ALL UNITS

UTILITY SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: Utilitarian, simple, comfortable, light, pleasant

Washer and dryer sitting along the wall,
Light illuminating the ironing work surface,

The inner wall is covered with storage units.

A small table sitting in the corner allowing area for reading and writing,
A clean durable floor allowing room for storing boxes and laundry.

The faint hum of machines and mechanical equipment fills the background.

Activity/user/time frame: Space will be used by all users infrequently as they need to use washing facilities and storage space.

Equipment/furnishing/auxiliary spaces: washing machine, dryer, mechanical equipment (water heater and geothermal unit)

Thermal/acoustics/lighting: Washers and driers typically produce heat. Balance should be sought between the expense of cooling/heating this auxiliary space and the need to provide some comfort for those using this space. Lighting should be cheerful. Natural lighting may not be possible, but a dark dreary space should be avoided.

Area/arrangement: 75-100 square feet
DESIGN CRITERIA: MULTI-FAMILY DWELLING ALL UNITS

BATHING/TOILET SPACE

Order: A furthering of the principles of order present in the community space and object set.

Character: Utilitarian, simple, comfortable, light, pleasant

_Bubbles collecting inside the bath tub,
Steam rising to heat the room._

A hot bath in the middle of the clean glossy room provides warmth to the surrounding area and invites the onlooker.

_Patterns of color filling the eyes,
Bright light illuminating the ceiling._

Relaxing in the steamy water, I lean back and read my book as the music adds softly to the ambience.

Activity/user/time frame: All users will use this space infrequently on a daily basis.

Equipment/furnishing/auxiliary spaces: Fixtures should include minimally a toilet, a bath/shower, a lavatory, and a linen closet.

Thermal/acoustics/lighting: Balance should be sought between the expense of cooling/heating this auxiliary space and the need to provide some comfort for those using this space. Comfort level in this space will be most directly related to warmth of space as users will seldom be fully dressed when using space. Lighting should be cheerful. Natural lighting may not be possible, but a dark dreary space should be avoided.

Area/arrangement: 100-120 square feet
DESIGN CRITERIA: MULTI-FAMILY DWELLING COMMON AREA

COMMON CORRIDOR/VERTICAL CIRCULATION

Order: A furthering of the principles of order present in the community space and object set.

Character: Brightly lighted, cheerful, engaging, maintenance free, minimal, simple, elegant.

Light shimmering from above falling softly on each stair tread,
Hardwood treads rising up and out of site,

The sound of feet on the stairs echoes through the hall.

People entering through the front door
People passing by me and up the stairs,

The corridor is constantly filled with moving people.

Activity/user/time frame: Residents will use this space all day to move up and down, going to and leaving from their respective units.

Equipment/furnishing/auxiliary spaces: stairs

Thermal/acoustics/lighting: Space should be comfortable. Balance should be sought between the expense of cooling/heating this auxiliary space and the need to provide some comfort for those using this space.
DESIGN CRITERIA: MULTI-FAMILY DWELLING COMMON AREA

EXTERIOR ENTRY

Order: A furthering of the principles of order present in the community space and object set.

Character: peaceful, simple, acting as both a space for gathering people, continuing the community space outdoors, and as an introduction to the dwelling.

Feet resting on the wooden rail,
Conversations bouncing around playfully,

A laid back atmosphere permeates the space.

People looking out into the street,
People walking in the shade,

Rain falls gently in the yard reinforcing the sense of warmth and security.

Activity/user/time frame: Residents will use this space all day to move up and down, going to and leaving from their respective units.

Equipment/furnishing/auxiliary spaces: Outdoor seating, tables, etc.

Thermal/acoustics/lighting: Space will of course be primarily lighted by natural light, however, artificial lighting will be needed for night use. Porch should be open to match context.

Area/arrangement: 150-250 square feet
DESIGN CRITERIA: MULTI-FAMILY DWELLING COMMON AREA

FRONT LAWN

Order: A furthering of the principles of order present in the community space and object set.

Character: Open, peaceful, shaded, looking into St. James Court.

*Trees shading the level grass lawn,*  
*A breeze shimmers through the grass,*

The front lawn is one of many green plots running along the street.

*The sun shining on the lawn,*  
*People sitting on the wall along the sidewalk,*

A car drives by slowly and then turns in front of the fountain and heads down the other side of the street.

Activity/user/time frame: space will be primarily used as a transition space one moves through to enter dwelling.

Equipment/furnishing/auxiliary spaces:

Thermal/acoustics/lighting:  Natural, shaded

Area/arrangement:  20% of overall lot.
DESIGN CRITERIA: MULTI-FAMILY DWELLING COMMON AREA

BACK GARDEN

Order: A furthering of the principles of order present in the community space and object set.

Character: Quiet, reflective, shaded, stimulating, simple

Wind blowing through the screen of vegetation,
Water flowing from the fountain,

The collage of stones, plants, fountain, and trees become an interesting and dynamic composition.

Seasons changing rhythmically,
Sunlight returning daily,

The space becomes a site of seeking and creating.

Activity/user/time frame: Multi-functional space should allow for refuge and summer entertainment of all residents. Space should prompt reflection and meditation.

Equipment/furnishing/auxiliary spaces: Space should be equipped with outside furniture which contribute to the wholeness of space.

Thermal/acoustics/lighting: Natural
IV. URBAN INTERVENTION
DESIGN CRITERIA: URBAN INTERVENTION

A furthering of the principles of order present in the dwelling.
A provision of necessary commercial facilities to sustain the village community, encouraging social interaction among different socio-economic groups, promoting a hierarchy of pedestrian scale over automobile scale, encouraging people interaction with civic and retail facilities, and adding to a healthy mix of cultural, commercial, educational, and residential urban elements.
An expression which is both a reflection of culture and a challenge to culture, responsive to contemporary society’s need for complexity, discovery, and mystery in the built environment, and expressive of the identity of each element while contributing to the continuity of the whole.
An expression which reinforces and strengthens existing principles of order in the community.

a. Corner Retail Nodes
   completing the partially existing pattern of retail on corner of Fourth Street and Magnolia.

b. Neighborhood Market Street
   completing the partially existing pattern of retail running parallel to and from three to five blocks north of Broadway.

c. Retail Connection to Downtown
   Completing string of retail development north of central business district.
SPACE SUMMARY

Community space 415
Multi-family dwelling unit A 920
  Living/dining/entertaining space 225
  Primary sleeping space 175
  Sleeping/special interest space 175
  Food preparation space 145
  Utility space 90
  Bathing/toilet space 110

Multi-family dwelling unit B 940
  Living/dining/entertaining space 325
  Primary sleeping space 135
  Sleeping/special interest space 135
  Food preparation space 145
  Utility space 90
  Bathing/toilet space 110

Multi-family dwelling unit C 1020
  Living/dining/entertaining space 325
  Primary sleeping space 175
  Sleeping/special interest space 175
  Food preparation space 145
  Utility space 90
  Bathing/toilet space 110

Multi-family dwelling unit D 945
  Living/dining/entertaining space 250
  Primary sleeping space 175
  Sleeping/special interest space 175
  Food preparation space 145
  Utility space 90
  Bathing/toilet space 110

Common area
  Exterior entry 200

Total assigned area: 4400
Total unassigned area (including common corridor, vertical circulation, walls and partitions, closets, etc.) 1900

Gross area: 6300

*Areas based on mean averages
SPACE RELATIONSHIPS

UNIT PLAN

GARDEN

CIRCULATION

LAWN

UNIT

UNIT

COMM.

UNIT

UNIT

PORCH

SECTION

UNIT

UNIT

COMM.

UNIT

COMM.

UNIT
## COST ANALYSIS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Cost</td>
<td>6300 gsf x $60/sf</td>
<td>$378,000.</td>
</tr>
<tr>
<td>Fixed Equipment</td>
<td>(10% of Building cost)</td>
<td>$37,800.</td>
</tr>
<tr>
<td>Site Development</td>
<td>(5% of Building cost)</td>
<td>$18,900.</td>
</tr>
<tr>
<td><strong>Total Construction Cost</strong></td>
<td></td>
<td><strong>$434,700.</strong></td>
</tr>
<tr>
<td>Site Acquisition</td>
<td></td>
<td>$20,000.</td>
</tr>
<tr>
<td>Demolition</td>
<td></td>
<td>$10,000.</td>
</tr>
<tr>
<td>Movable Equipment</td>
<td>(2% of Building cost)</td>
<td>$7,560.</td>
</tr>
<tr>
<td>Professional Fees</td>
<td>(10% of Building cost)</td>
<td>$37,800.</td>
</tr>
<tr>
<td>Contingencies</td>
<td>(5% of Building cost)</td>
<td>$18,900.</td>
</tr>
<tr>
<td>Administrative Costs</td>
<td>(3% of Building cost)</td>
<td>$11,340.</td>
</tr>
<tr>
<td><strong>Total Budget</strong></td>
<td></td>
<td><strong>$540,300.</strong></td>
</tr>
</tbody>
</table>
THE PROCESS: CONTEXT DESCRIPTION AND ANALYSIS

COMMUNITY:

Louisville is located in the Ohio River Valley. It is in many ways a typical midwest city. Like most other midwest cities, the gridiron is the primary ordering element in the city layout. The city was founded along the south bank of the river. Its growth pattern was primarily a concentric layering of rings spreading southward from the central business district. Presently the central business district covers about 12-15 square blocks surrounded by commercial development in three directions. Beyond this ring, as one progresses south there exists a mix of residential and commercial development which borders the northern border of Old Louisville residential community—one of the oldest residential areas in Louisville. Louisville, as viewed from the air or as a pedestrian, has a distinct texture of voids and solids. Likewise, visual patterns such as rhythm and repetition contribute to the rivertown's character. Breaks in the texture of older parts of the city, such as newer suburban development are disrupting to the whole. Continuity could be regained by the establishment of decentralized village communities throughout the city which maintain their own identity while providing a healthy residential base to the central business district. If such a socially self-sustaining village is to come about in Louisville, Old Louisville has the best chance as it already possesses many of the necessary amenities. It is, however, lacking small scale commercial resources.

NEIGHBORHOOD:

Old Louisville is a small district of large Victorian homes which once housed many of the elite in Louisville. The most significant street in the district is St. James Court. St. James Court has a particular visual rhythm and perceptual regularity all its own. Any addition to it would require the same vocabulary. The court is a datum about which the residential units are located. The entrance to the axis is immediately adjacent to Louisville's Central Park. While this neighborhood once contained many single family dwellings, the present market has prompted several of these to be changed into multi-family units. To construct a building today which matches the scale of the surrounding houses, one must value a multi-family dwelling is the only reasonable market response.

DWELLING SITE:

There is one major hole in the St. James streetscape. One overgrown lot, with one story buildings set back off the street, stands out as a misfit in the pattern of two and three story dwellings on either side and across the street. Most of the dwellings are similar in composition and scale but very different in articulation. Front porches and projecting entries and third story spaces which extend out of the roof are examples of compositional similarities. Material diversity and construction details exemplify diversity of articulation.

SPACE:

The hierarchical space, community room, will likely face East into St. James Court and likely require a strong visual connection to sidewalk and street.

OBJECT:

Multi-purpose object should be an expression of the ordering principles of the site.
Community

River:
Rivers frequently provided the catalyst for early urban developments. A river's presence is nearly always experienced far beyond its banks. Physically, it is a continuous reminder of the result of the conflict between man's contrived grid and nature's dynamic forces. Sociologically, cities such as Louisville, which have built their economies from the river, maintain certain rivertown qualities even into modern times. Bridges, barges, industry, and Victorian town houses still communicate the character of the days when river traffic was the primary traffic into the city. Any alteration to the City of Louisville must be of the same character, even if expressed in contemporary terms.

Grid:
Allowing people (familiar with it) to be oriented in space, the grid is one of the most important examples of both visual patterning and experiential patterning as a device for ordering the environment. The mind projects the grid into space and is thus able to anticipate movement though space by interpreting the placement of the grid in the environment. For example, a person traveling through a city organized on a grid might determine his/her direction of travel if he/she knows the general direction of a destination by taking \( x \) number of right turns and \( y \) number of left turns. The grid on Louisville is slightly off an exact north/south coordination, but it is close enough to be a useful approximation. Since the grid can be experience nearly all the time in a city organized upon it, the design should reference it in an ordered and subtle way.

Neighborhood

Axis/Datum:
St. James Court is a grand axis which consequently serves as a datum for the residences organized along it. This axis is perhaps the most obvious ordering device at work in the context and must be responded to with delicacy.

Objects In A Series:
There exists in Old Louisville a certain rhythm of objects adjacent to one another. This texture is both visible from an aerial photograph, as well as, by encountering the neighborhood as a pedestrian. Old three story houses with Victorian details on similar sized lots creates the continuity of rhythm as well as exerting a particular scale and vocabulary. The actual site of the dwelling is the one break in the regular rhythm of objects. An object (dwelling) of similar scale and massing is needed, and any contemporary addition to the old community must be sympathetic.

Experiential pattern: Connection of green spaces:
Central park is a square block within the heart of Old Louisville. It exists as a oasis of green space within the density of the city. It is linked to the great mall of St. James Court which in turn continues the green space connection into the front yards of the neighborhood houses. The opportunity is therefore present to recognize the linkage of green spaces and continue the transition on into the house, and even into the back garden.
Theme: Residential (quiet character):
Old Louisville is primarily a sanctuary of the oldest residences in the city. Any addition to St. James Court must maintain the quiet character and atmosphere of the residential context. Most of the people living in the area are either renters (many of which are students), established older people, or younger professionals.

Site

Visual/experiential pattern: juxtaposition and penetrations of forms/volumes:
Looking at the specific objects (houses), other common patterns can be distinguished. Most houses along St. James Court have a distinctive entrance volume penetrating or otherwise juxtaposed with a larger volume. The larger volume is usually composed of two full levels and then a third level within the roof and penetrating from the roof. Masonry is the most common material in the exterior although some houses also utilize wood for decoration of porch detailing. Often windows, turrets, and even parts of rooms penetrate from the volume giving clues about what is located inside. The new dwelling should utilize similar but reinterpreted systems of articulation.

Visual pattern: vocabulary of material and details (texture):
Connections and transitions between different components of the neighboring dwellings are often places of great detail such as cornices, doorways, window trim, moldings, and balconies. The new dwelling can be designed and detailed the same way with a more contemporary vocabulary of detail to express contemporary connections, technology, and materials.

Experiential pattern: utilization and manipulation of light:
Many of the houses are designed to take ultimate advantage of light with southern/northern exposures, high windows, and reflective surfaces. This dwelling can be an exploration of contemporary techniques which utilize light to enhance living.
Community

River: Rivers frequently provided the central for early urban development. A river's presence is nearly always experienced or bypassed by banks. Physically, it is a common reminder of the result of the interaction between man's continued grid and nature's dynamic forces. Structurally, cities such as Louisville, which have built their experience from the river, maintain certain inherent qualities even into modern times. Bridges, bridges, industry, and thoroughfares became and communicate the strength of the days when river traffic was the primary traffic into the city. Any alteration to the City of Louisville must be of the same character, even if expressed in contemporary terms.

Grid: Allowing people (human beings) to be oriented in space, the grid is one of the most important examples of both visual organization and spatial organization as a device for ordering the environment. The most perfect grid is a space and is then able to accommodate movement through space by organizing the placement of the grid in the environment. For example, a person traveling through a city organized on a grid might determine further direction of travel if he had known the general direction of a destination by taking "X" number of right turns and "Y" number of left turns. The grid on Louisville is slightly off an exact north/south orientation, but it is close enough to be a useful approximation. Since the grid can be approximate nearly all the time in a city organized upon it, the design should reference it in an ordered and subtle way.