physical & mental restoration

In A Restorative Nature

a retreat old frontenac, minnesota justin johnson



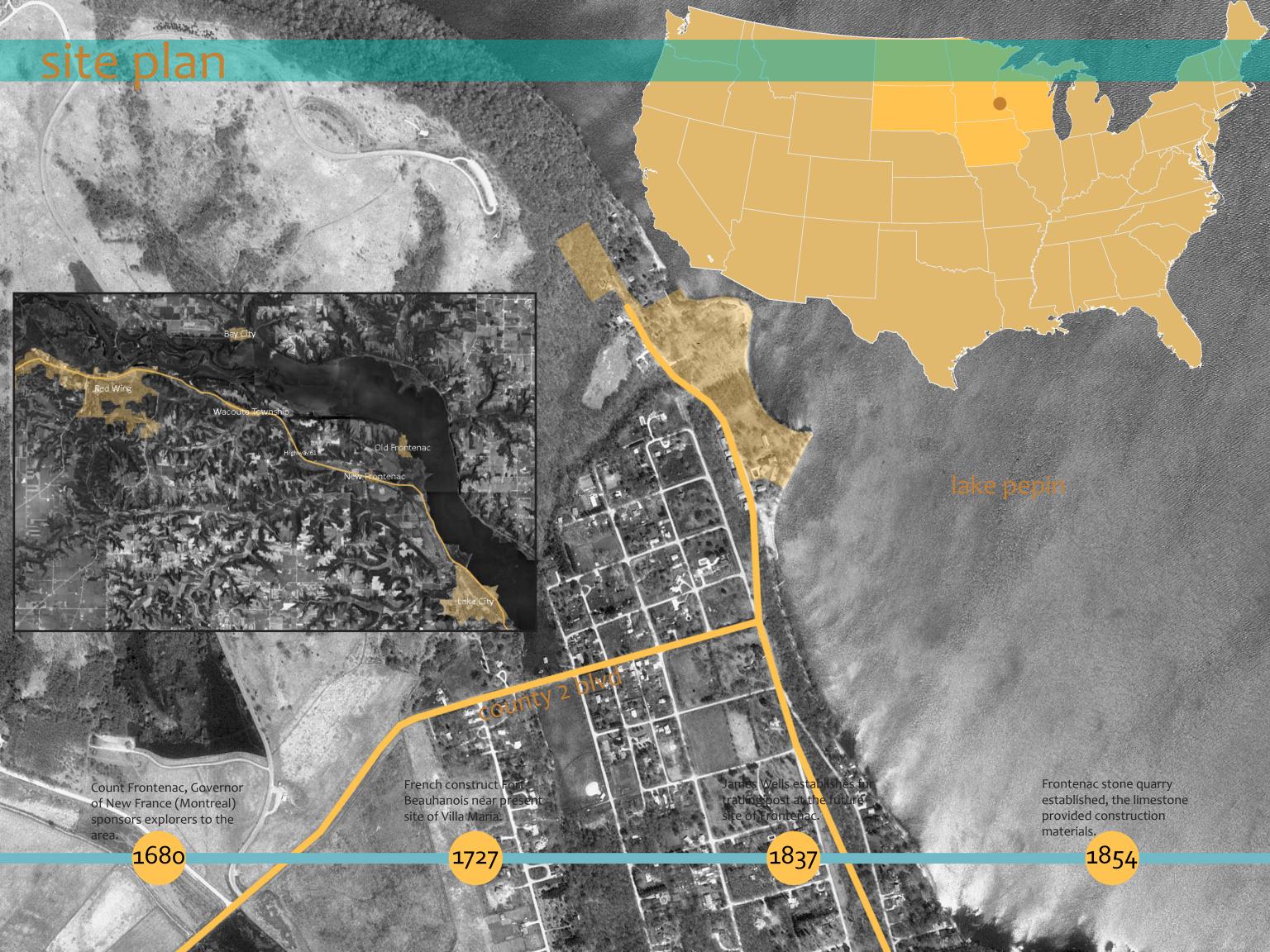
How can architecture influence a better preventative mental healthcare system as an alternative to the current arrangement of inaccessible and sometimes inadequate mental healthcare treatment programs?

A retreat for those looking for a restorative physical and mental cheed for the Minnesota Department of Human Services.

Architecture could aid in the movement from the treatment type of mental healthcare system to a preventative care system.

The treatment type of mental healthcare is expensive and can be avoided or become unnecessary if there were more alternative or preventative options. Architecture can help ease the hardships healthcare is going through by offering new and stress-free spaces though an environmental connection.

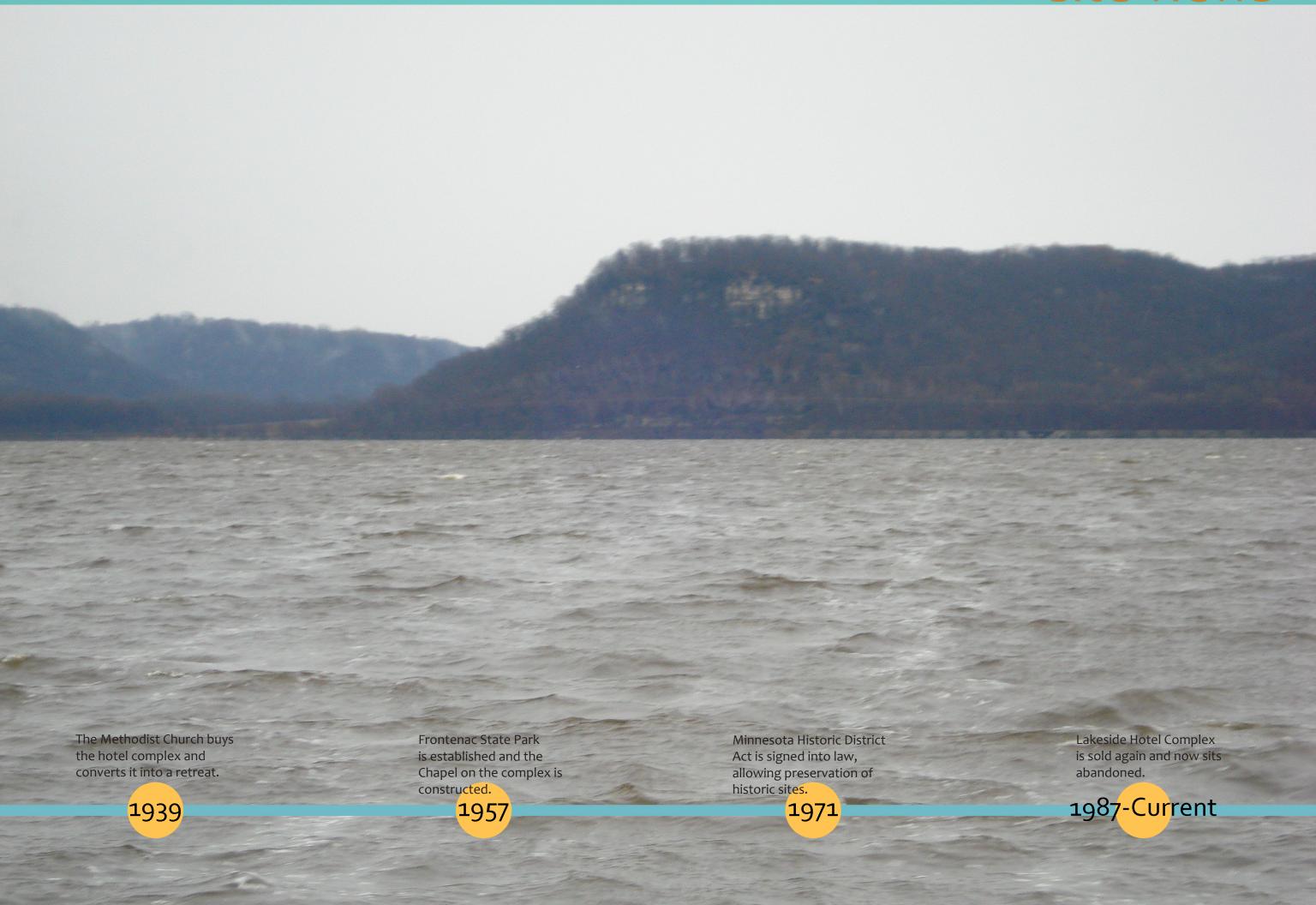
Justification of the current mental healthcare program doesn't offer enough alternatives towards preventative care. If more unique preventative care options were available, especially those relating to the mental point of view, it may help people avoid incurring future financial and health problems.







site views

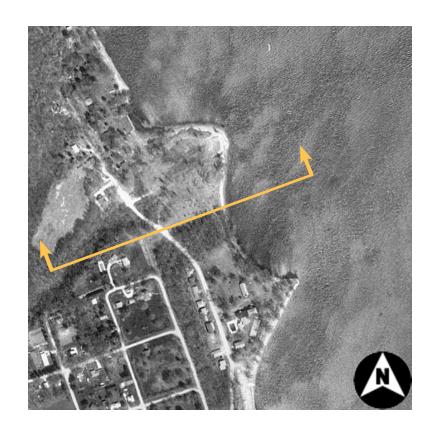




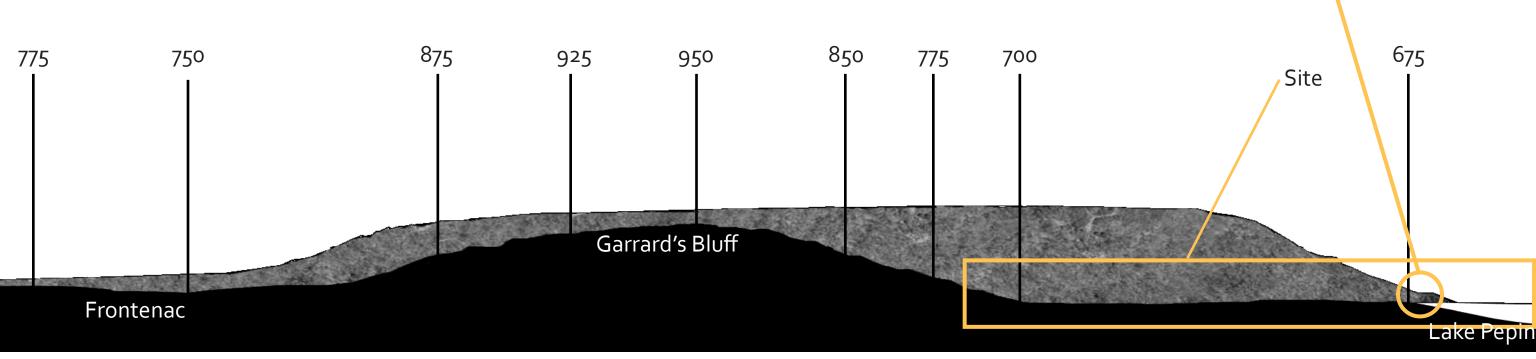


site section

section of the The site was done to better understand the relationship of the site the surrounding environment. While the site is mostly flat, the surrounding area is much dynamic, with more Garrard's Bluff enclosing around much of the site.







user/client descriptions

The Minnesota Department of Human Services

The Minnesota Department of Human Services was originally known as the 'welfare agency' since it's inception in the mid 1800's. The department has had the focus of helping people make transitions and overcoming obstacles in their lives.

The Minnesota Department of Human Services (MDHS) has listed seven priorities for which guide department planning efforts: at-risk adults, at-risk children, reducing disparities, health care, chemical and mental health, home and community-based services and organizational effectiveness.

The MDHS has a simple mission: "The Minnesota Department of Human Services, working with many others, helps people meet their basic needs so they can live in dignity and achieve their highest potential." (MDHS, 2010)

Patients

Demographics

The US ewith the nickname "The Land of 10,000 Lakes" Minnesota has a long standing reputation for it's connection to the wilderness or nature. Even with it's strong tie towards nature it still has a large population, with roughly 5.25 million people calling it home. At about 2.85 million people the Twin Cities area includes about half of the entire state's population. With a consistent growing population in the area there is always a need for various types of mental health facilities.

staff

State 1 director 2 supervisors

- 2 licensed mental health clinicians
- 2 social workers
- 2 welcoming staff
- 1 IT staff
- 1 accounting
- 8 kitchen staff
- 12 severs, dining staff, etc.
- 2 maintenance
- 4 house keeping

project elements

Mental healthcare is a unique field in the fact that both the client and the staff often share the same spaces. There will also be necessary private spaces for staff.

Outdoor Spaces

A large focus for this project will be on the connection with nature that is often forgot within the city. There will be many outdoor spaces for the patients to enjoy including; walking paths, boat docks, gardens, meditating areas, many wooded areas and designated fishing locations.

Commons

The commons area will include many of the public entertainment spaces. There will be an area for meals and service. A lounge that is connected to the outdoors, with the focus again being the connection with nature.

Social Services Offices

The other offices are made public due to the fact that they are used for counseling. These are used by the licensed mental health clinicians and social workers They vary in size but the licensed clinician offices should be a comfortable size to allow for a small group counseling.

Group Rooms

Group counseling and group meetings have become an important aspect for the mental health field. Many recent studies, especially within drug and alcohol abuse, have shown that the relapse rate of those who are in group counseling is much lower versus those who just do individual counseling.

Private Living Quarters

The retreat will have to accommodate the fact that the patients will be at least staying overnight. There will have to be private living quarters available for the patients that include; a bed, storage, and a shared bathroom.

Conference Room (Private)

It is necessary to have a small group conference room for the staff to use for meetings within the mental health division.

Staff Breakroom

The staff breakroom is separate from the public patient areas so the staff has an adequate get away from the work environment.

File Room

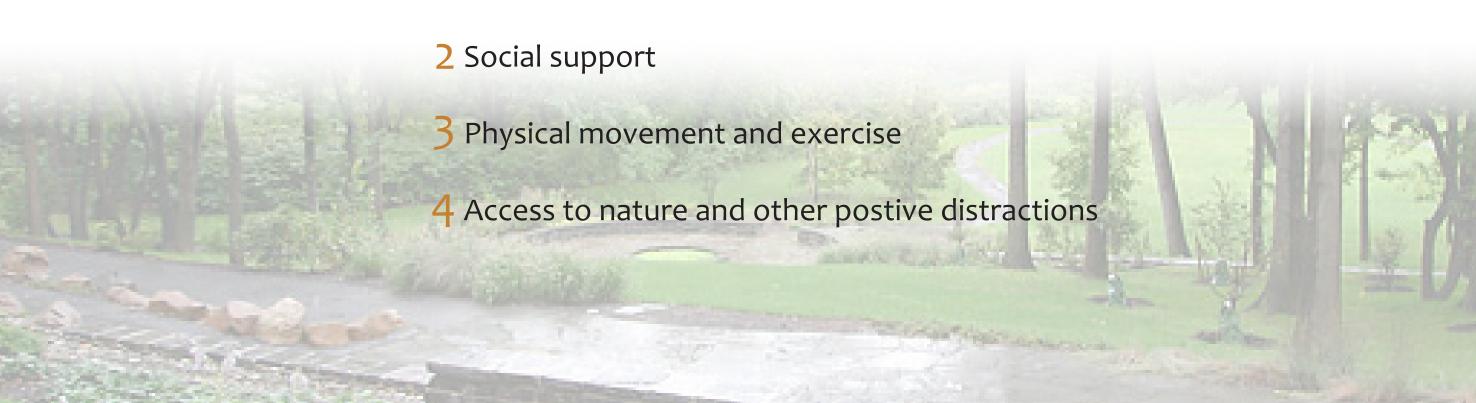
Security is an important aspect in a facility like this. It will need a large fire proof file room that is private and inaccessible to the public.

Administrative Offices

The administrative offices are used for accounting and bookkeeping, insurance, and IT. They are private and must accommodate up to date technological uses.

There are four main goals, or principals, that my project and the theory behind the "healing garden" represent. They are achieved throughout the project as a whole on different levels, both built environment and the natural environment.





research results

The definition of the "healing garden" can be broad, Roger Ulrich refers to it as a "variety of garden features that have in common a consistent

Movement and Exercise Social Support Among patients, visitors, staff Mild Exertion Physical Rehabilitation Natural Distractions Control Plants, flowers, water Temporary Escape Natural sounds Access to Privacy Stress Restoration and Buffering Improved Health Outcomes

tendency to foster restoration from stress and have other positive influences on patients, visitors, and staff or caregivers." (Ulrich, 1999) The type and quality of the garden should be composed of "real nature," like real vegetation, flowers, trees, bushes, and water features. These healing gardens can be either an indoor or an outdoor space, small or big, and some of the best current examples of healing gardens are located in some healthcare facilities. The main rule for it to be defined as a healing garden is that it should have therapeutic or beneficial effects on it's inhabitants. (Ulrich, 1999)

Stress is a critical component of the relationship between us and our surroundings. Stress also becomes important for us to control in our lives because it directly effects several other types of health outcomes such as; the feeling of helplessness, depression, social withdrawal and higher blood pressure. (Cohen, 1991) Under stimulation can also cause increased stress. Patients in nursing homes can suffer from depression due to boredom, because their environments are so under stimulated they become stressful, not unlike the opposite which is over stimulating and stressful. Studies have shown that in when healthcare facilities focus on stress relief or restoration using healing gardens it was widely considered the most important benefit of the patient's stay. (Cooper, Marcus, Barnes, 1995)

Public Spaces

Entry and Reception:	1000 S.F.
Indoor Gathering Spaces:	4500 S.F.
Resource Room/Library:	1200 S.F.
Dining (Indoor):	3200 S.F.
Outdoor Dining:	600 S.F.
"Movement Spaces":	Undefineable
Conference Room:	600 S.F. @ 2
Fire Circle & BBQ:	500 S.F.
Outdoor Meditation:	500 S.F. @ 2
Healing Gardens:	<u>Undefineable</u>
	13.200 S.F.

Private Spaces

Living Quarters:	600 S.F. @ 24
Counseling Offices:	400 S.F. @ 4
	16,000 S.F

Employee Spaces

Breakroom:	800 S.F.
Commercial Kitchen:	1300 S.F.
Laundry:	1200 S.F.
Maintenance:	1600 S.F.
	6,700 S.F.

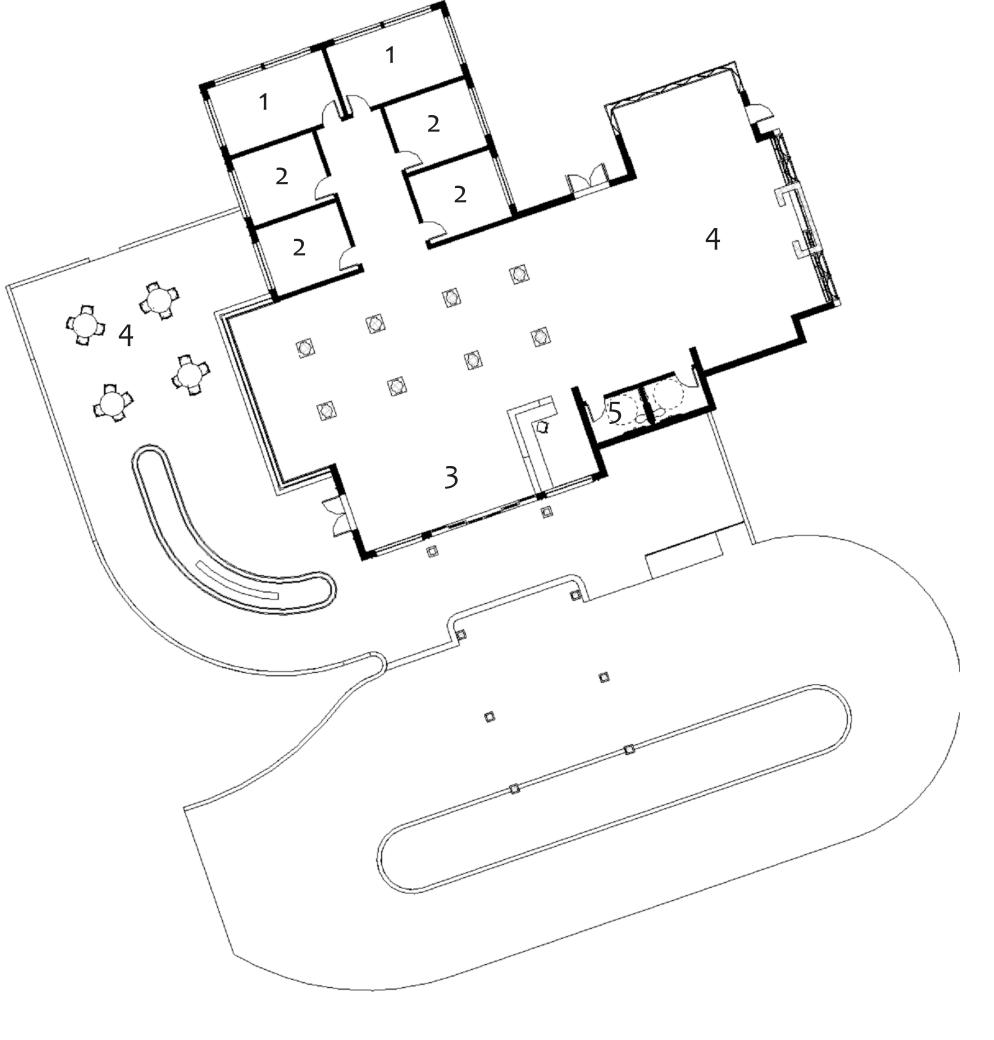
Other

Circulation:	2800 S.F.
Restrooms:	200 S.F. @ 4
Mechanical:	1800 S.F.
Storage:	1900 S.F.
0	7,300 S.F.

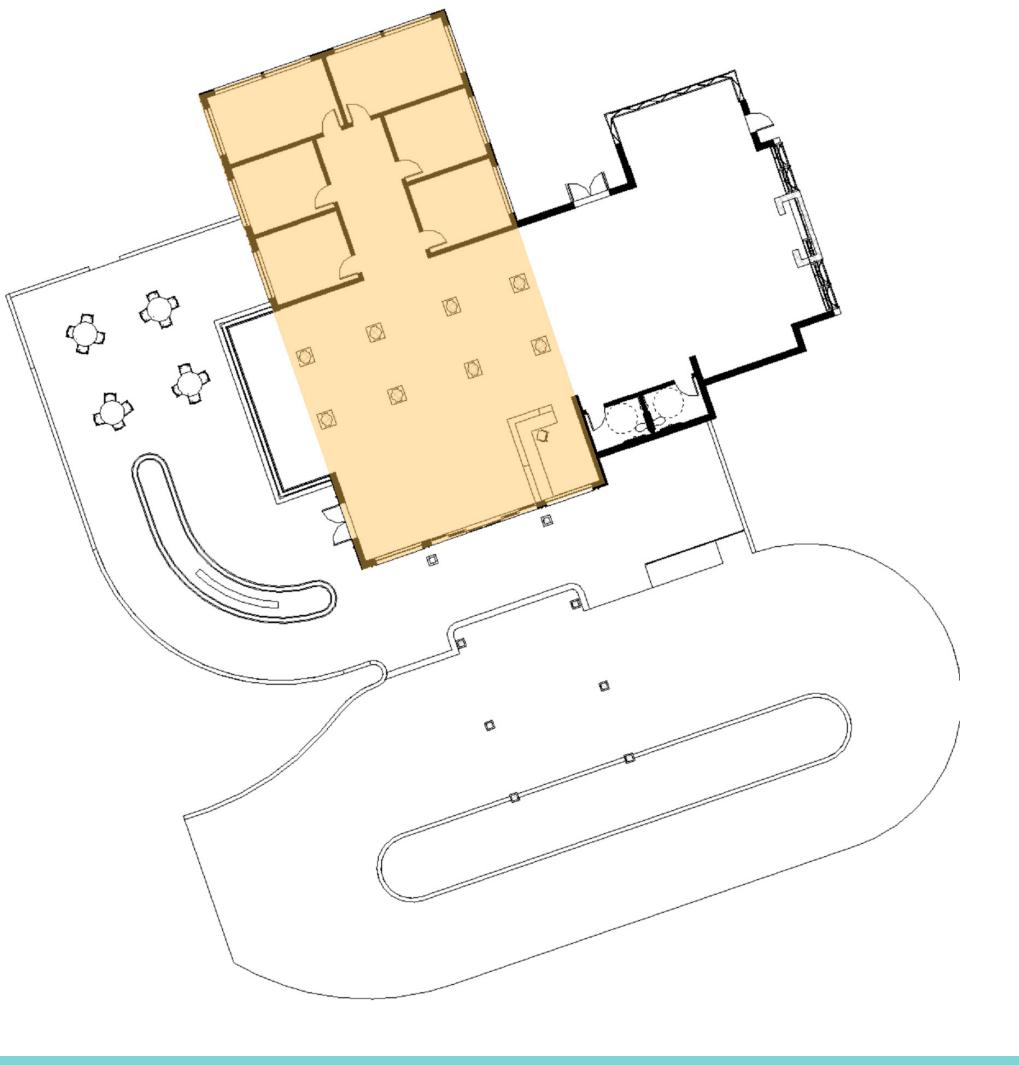
Grand Total: 43,200 S.F.

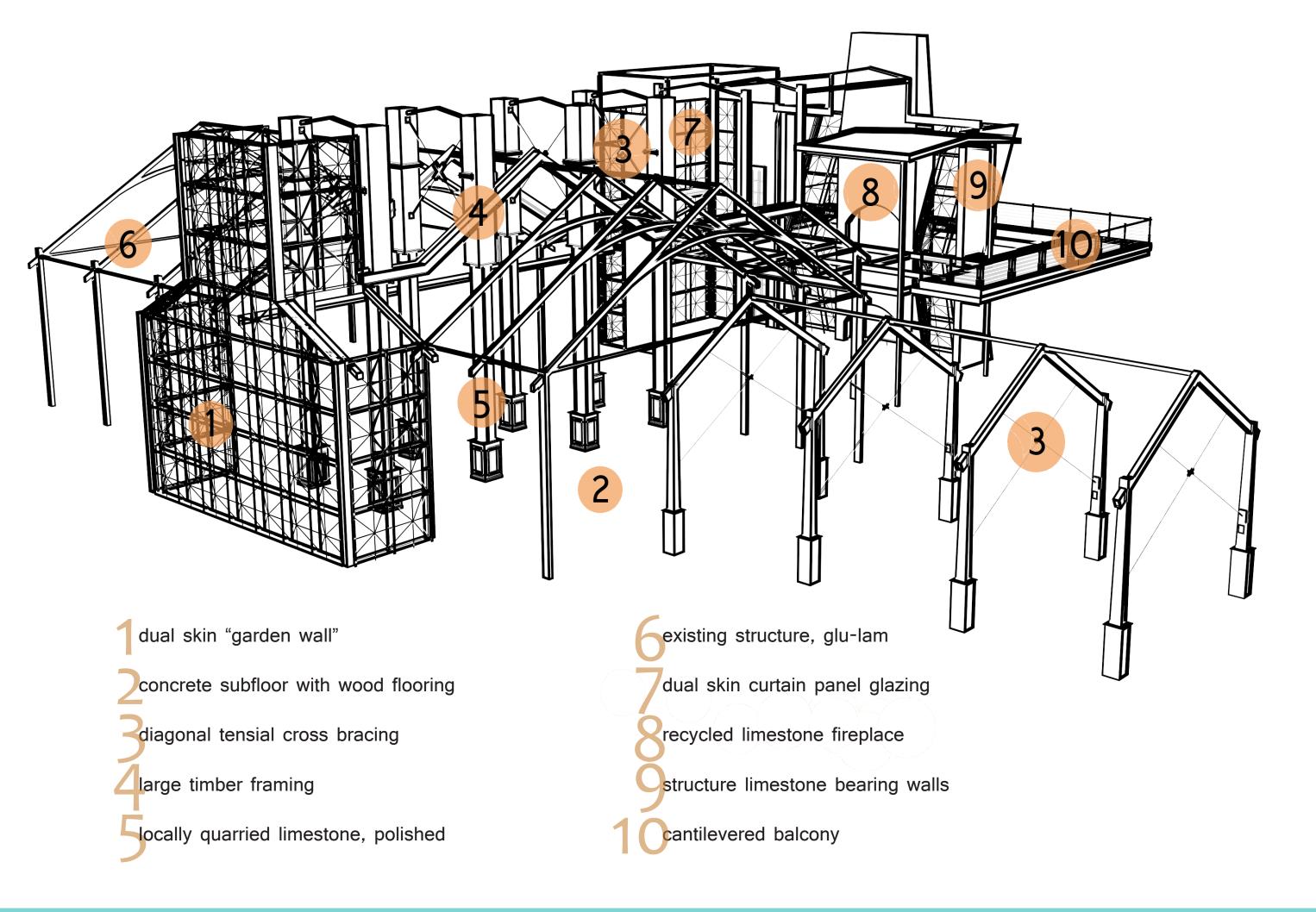






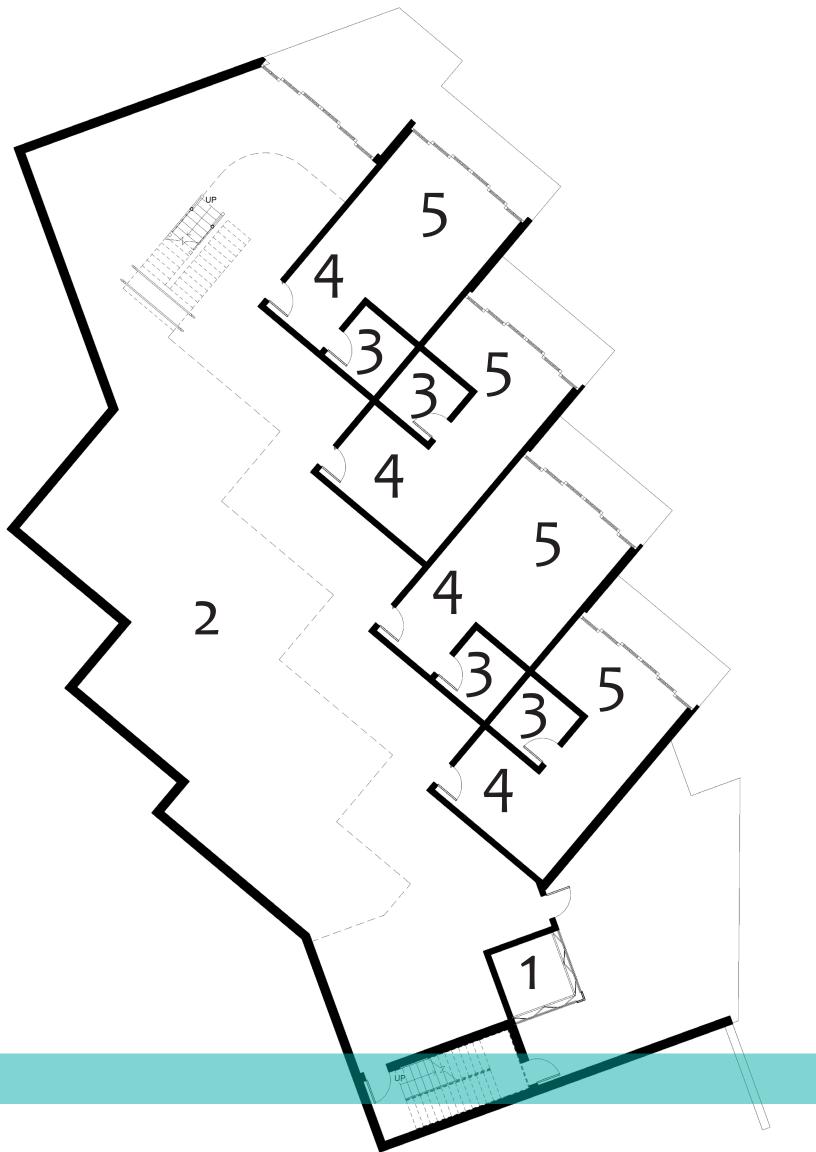
- 1 Group Rooms
- 2 Offices
- 3 Reception/Entry
- 4 Group Gathering Spaces
- Restrooms







floor plans



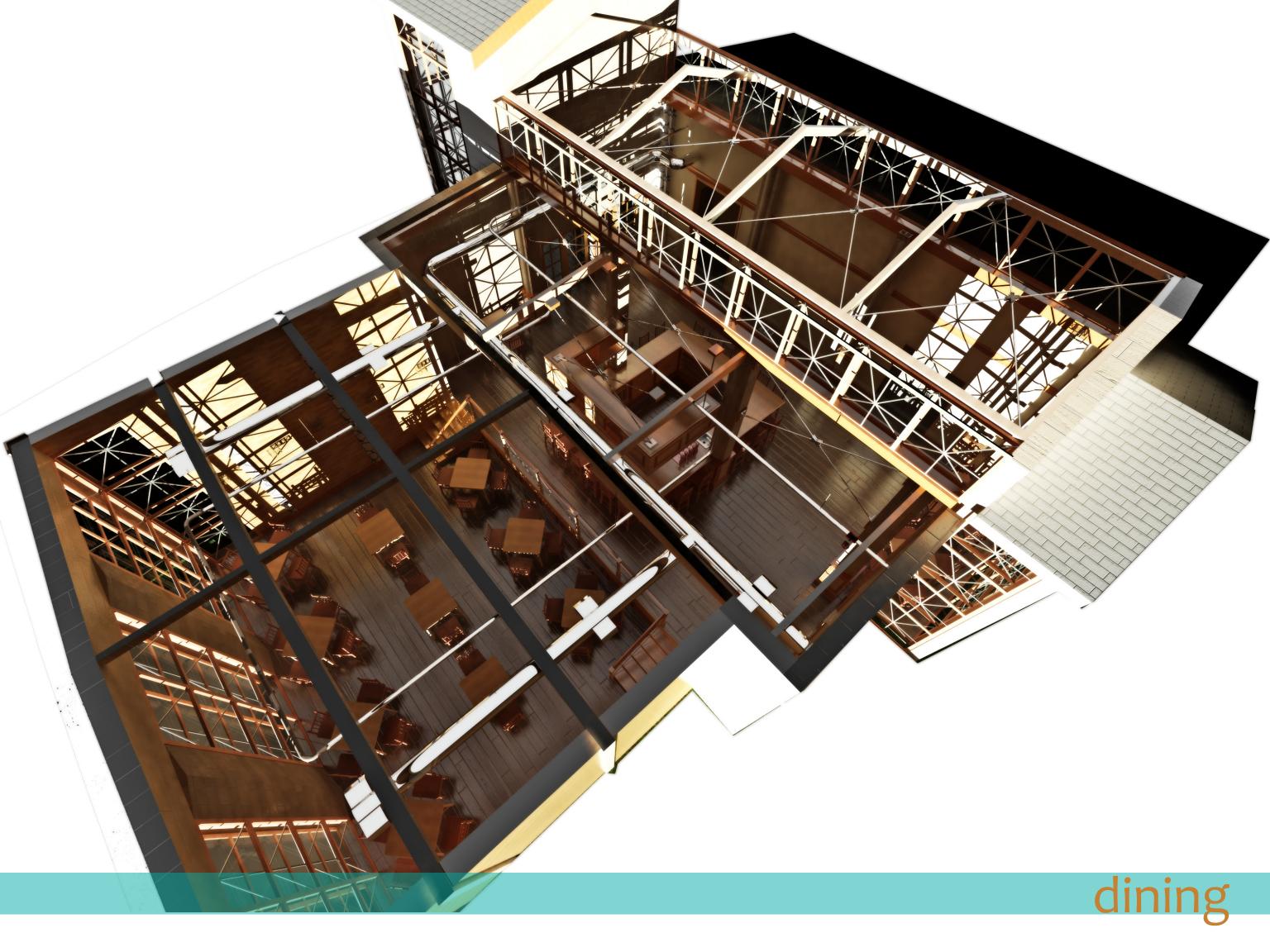
- 1 Elevator
- 2 Gathering Space
- 3 Bathroom
- 4Kitchenette
- 5 Sleeping

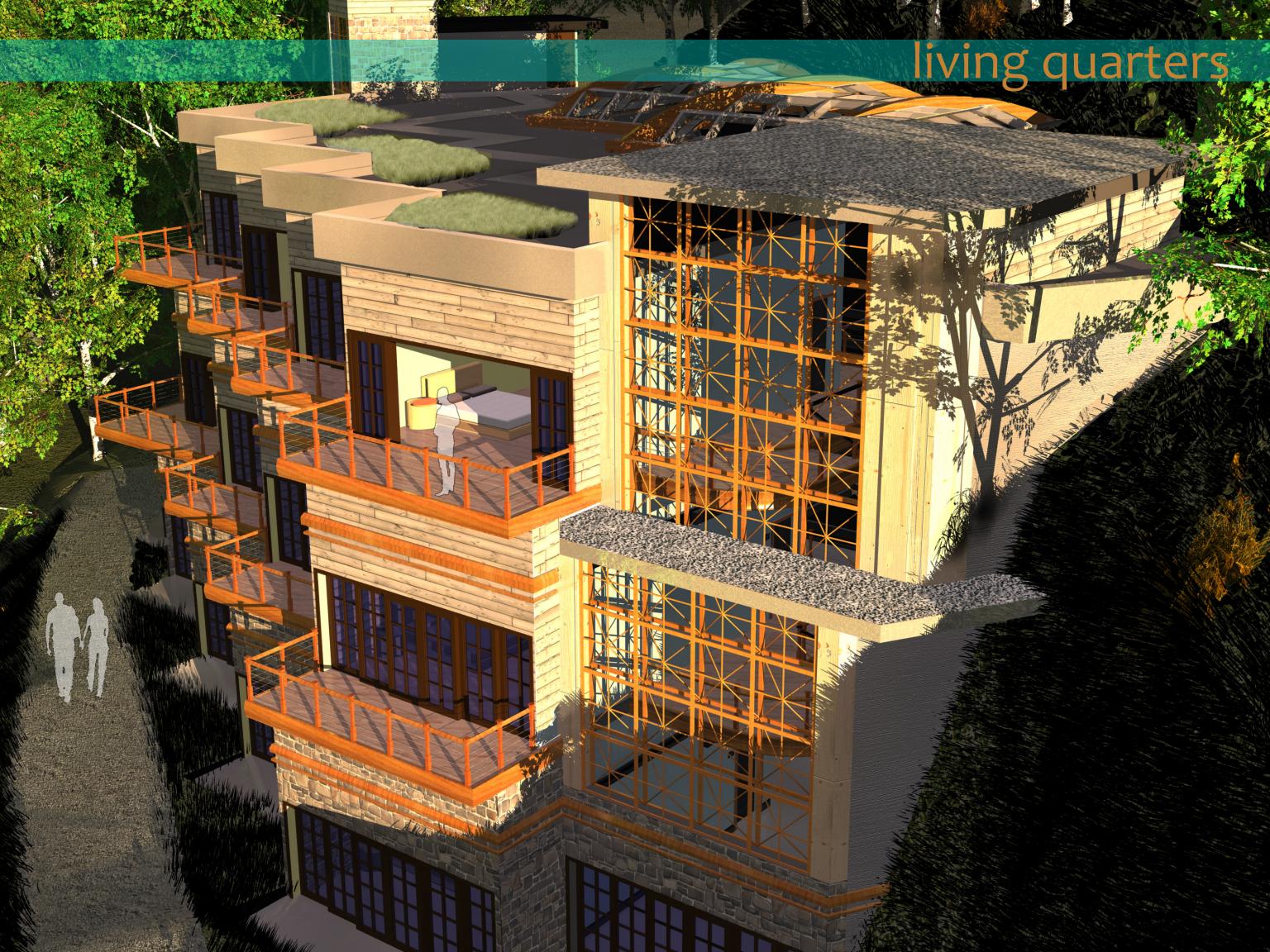


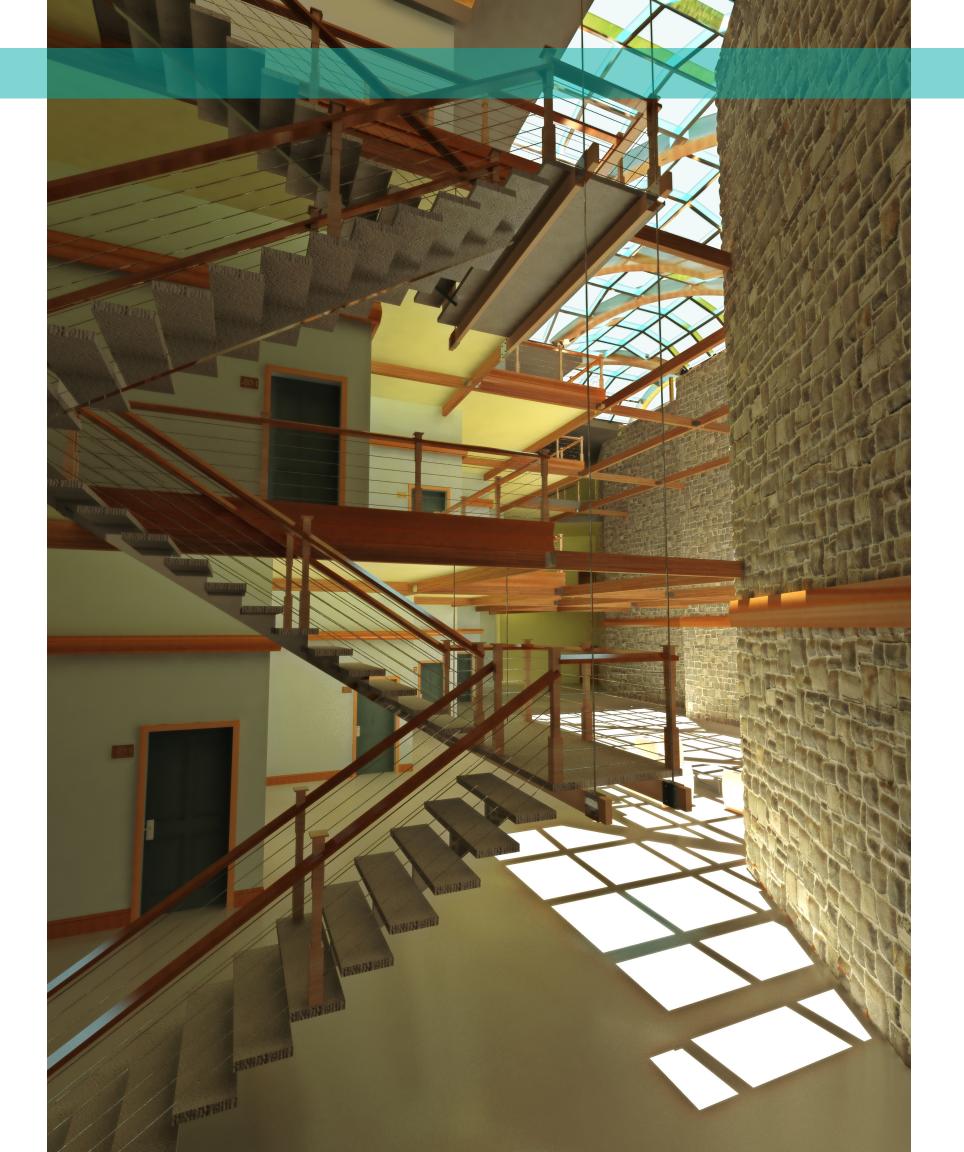












living quarters

healing garden

