



# ARCHITECTURE PORTFOLIO

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ROGER CHANIN - UNIVERSITY OF CINCINNATI  
January 2020





## ROGER CHANIN

Senior architecture student at University of Cincinnati, College of DAAP. Hard-working, self-motivated, organized and professional, and works well with others. Artistic and analytical with a continuous interest in learning and education.

- Rhino (Vray) 
- Revit 
- AutoCAD 
- Lumion 
- Photoshop 
- InDesign 
- Premiere 
- Office Suite 
- Maya (Arnold) 

Additional skills include electrical knowledge, plumbing, woodworking, and vehicle mechanics.

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513-674-7230

## Education

**2016-2020**  
University of Cincinnati, DAAP Bachelor of Architecture

**2013-2016**  
Archbishop Moeller High School

## Experience

**2019**  
ATA-Beilharz Architects - Architectural intern

**2019**  
LEED Green Associate - will test for BD+C

**2018-2019**  
Al. Neyer - Architectural Intern and field supervision on several industrial tilt-up projects

**2017-2019**  
DAAP Ambassador - Tour guide/presenter

**2016-2019**  
Small engine mechanic and motorcycle design

**2015-2016**  
Volunteer District Ambassador of Crises Relief Overseas (CROS)

**2015-2016**  
Cincinnati Sports Club - Member Services

**2013-2014**  
Ace Hardware - Sales

## Awards

**2019**  
1st Place in the UNI Breaking Work - Singularity competition

**2018**  
2nd Place in the Associate Design Competition (ASC), worked as lead designer with team of six

**2016**  
Cincinnati Zoo Book Award- for an overwhelming interest in science and preservation of the natural world

**2016**  
Organized and raised \$5,000 for CROS in the Ride for Charity motocross event

## Athletics

**2015-2020**  
Full Motocross sponsorship from Honda of Fairfield Racing and others





## **SYNCHRONICITY**

COMPETITION WINNER: FUTURE OF WORK  
PROJECT LOCATION: SEOUL, SOUTH KOREA  
DATE: 2019

AN EXPLORATION OF AN EFFICIENT FUTURE WHERE HUMANS AND  
ARTIFICIAL INTELLIGENCE WORK TOGETHER TO CREATE UTOPIA.



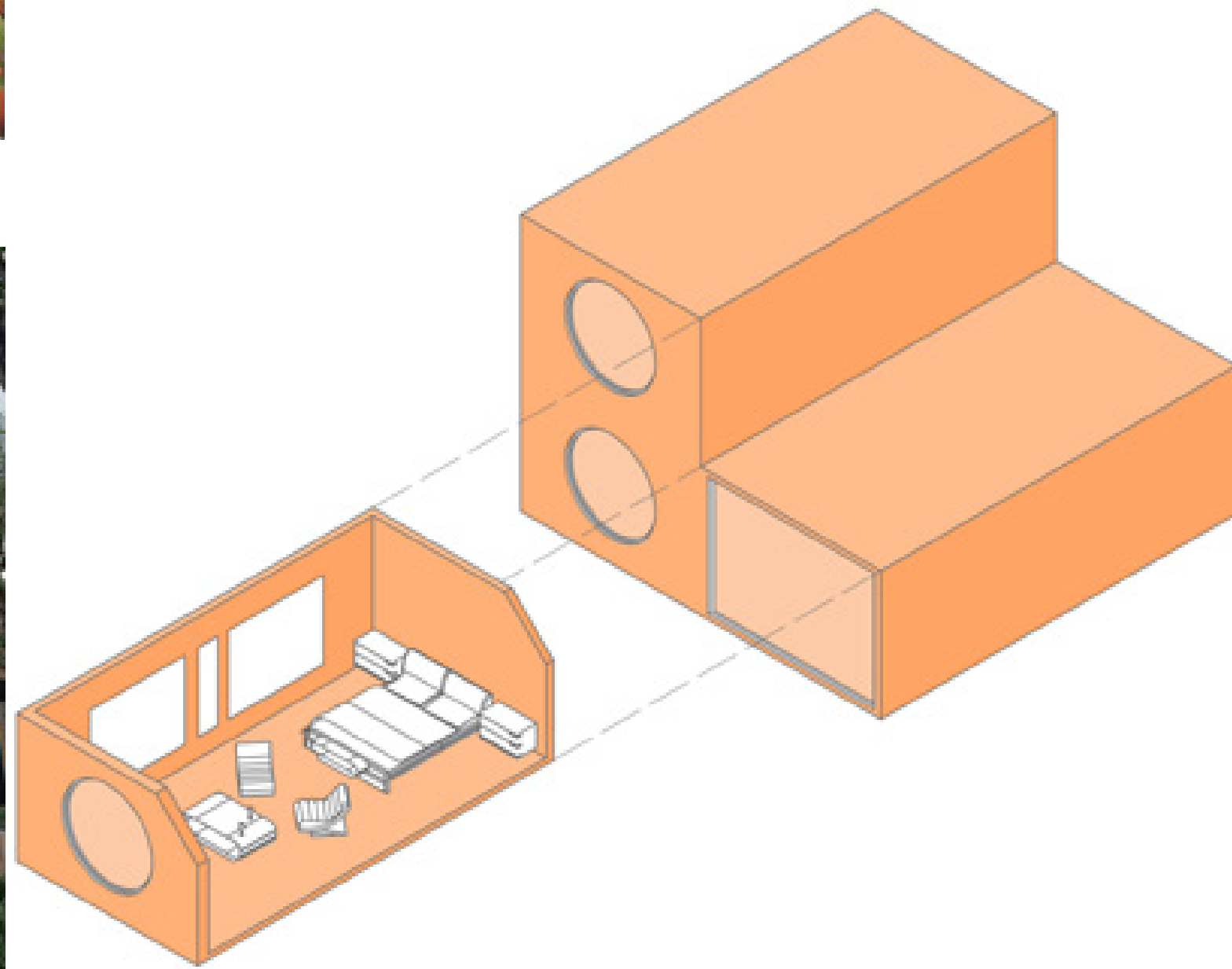
By 2050, the world's population will reach 9.7 billion. As a result, we must build higher, more efficient, and sustainably. Building with engineered wood will offer cities a lighter, greener, and more versatile alternative to steel and concrete.





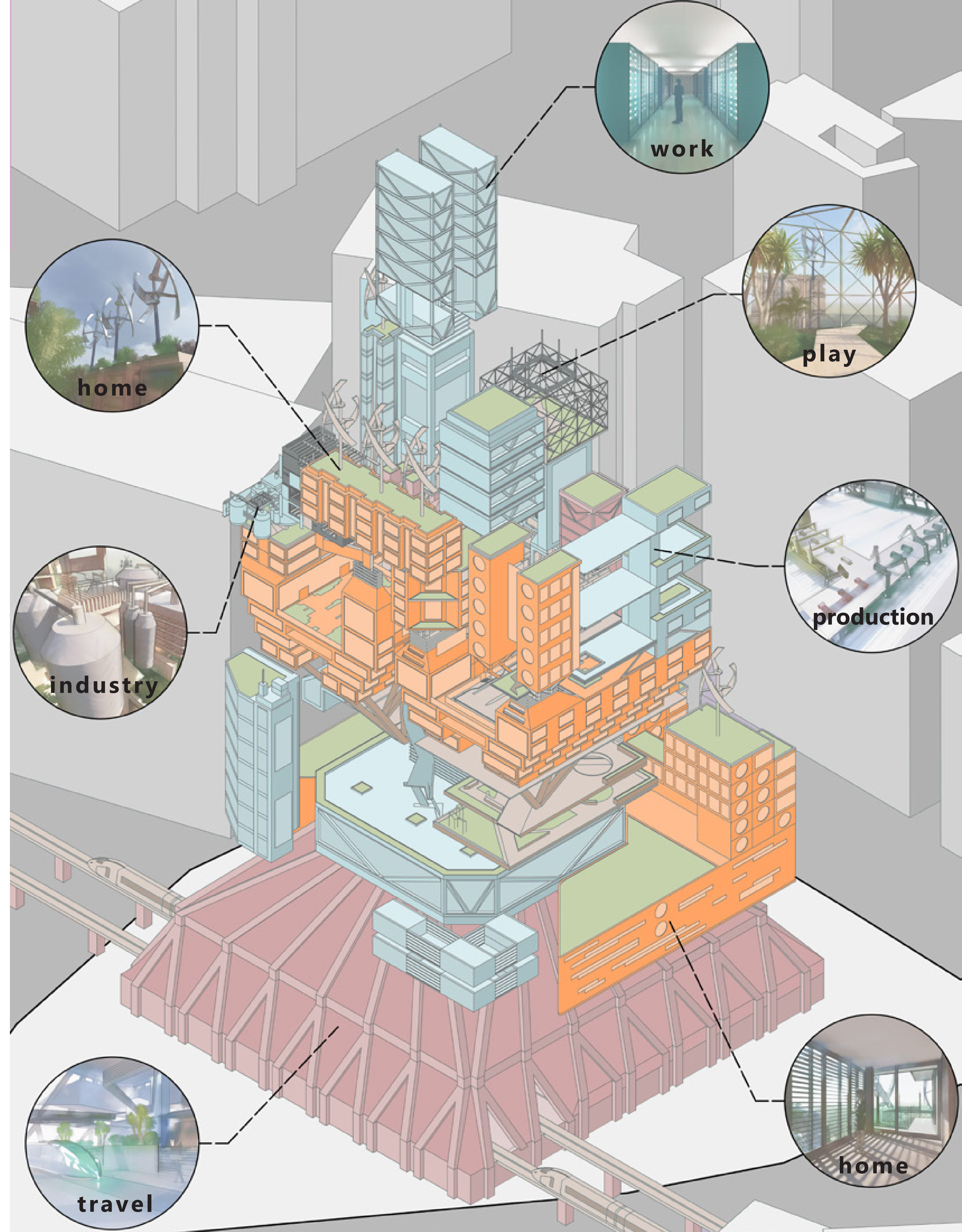
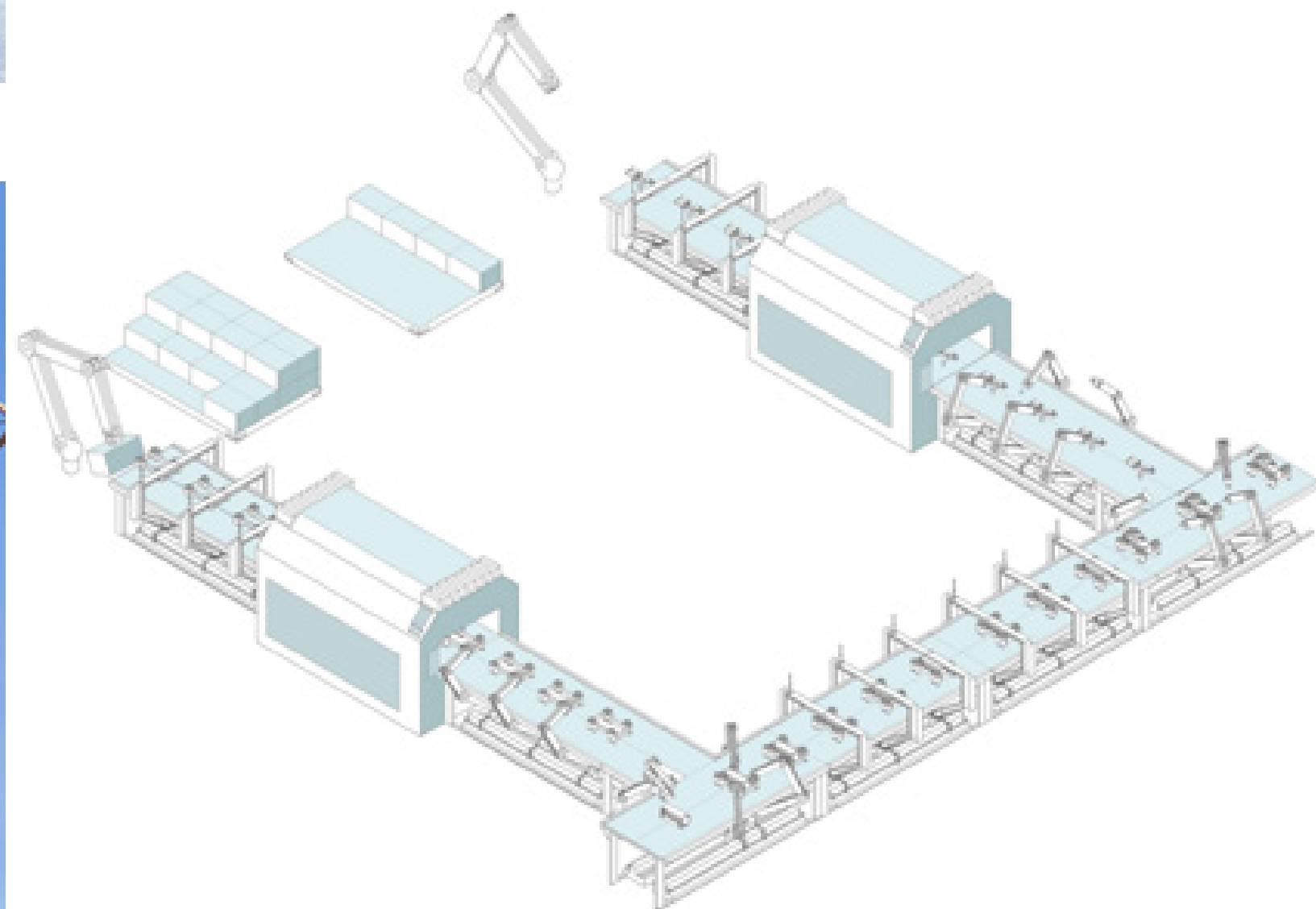
## LIVING

In order to accommodate a growing population, living spaces are smaller and more efficient. Virtual reality replaces the need for extra rooms such as a living room or dining room.



## WORKING

In the future, Artificial Intelligence (AI) and advanced machines are responsible for manufacturing, the economy, and many other aspects of life. Humans will take an observational role in the workplace reducing the number of hours worked a day and boosting free time.

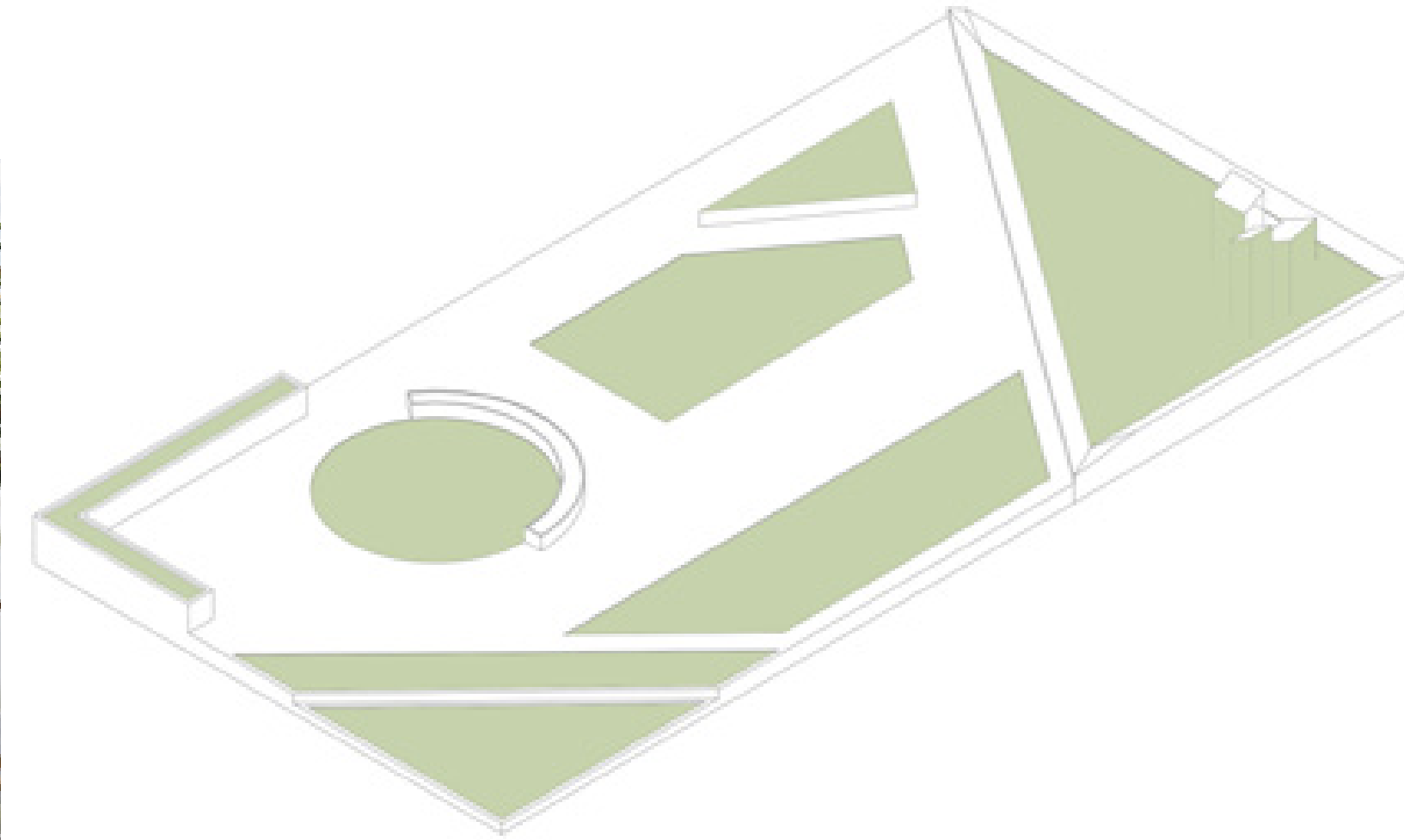






## PLAYING

Because humans have more free time, we can enjoy the things we are passionate about. Synchronicity is built to provide us fulfilling experiences during our free time. Each Synchronicity is custom designed to its residents' desires and needs.



## GREEN DESIGN

Maximizing efforts to design green buildings is incredibly important to a successful future. Wind and solar power can reduce energy costs dramatically for residents of Synchronicity. The vast expanses of multi-layered forests and green-spaces in the Synchronicity prototype can help to provide lumber for future expansion of the building. Additionally, it can absorb millions of gallons of storm-water that can be used to provide clean water to the plants and inhabitants of the prototype. The forests will also reduce heating and cooling needs as well as reduce the overall heat island effect of the city. Animals and wildlife, such as birds, bees, and other helpful insects and animals, can live successfully with humans in these environments. Finally, the green spaces offered in the city are great places for residents to enjoy their free time.







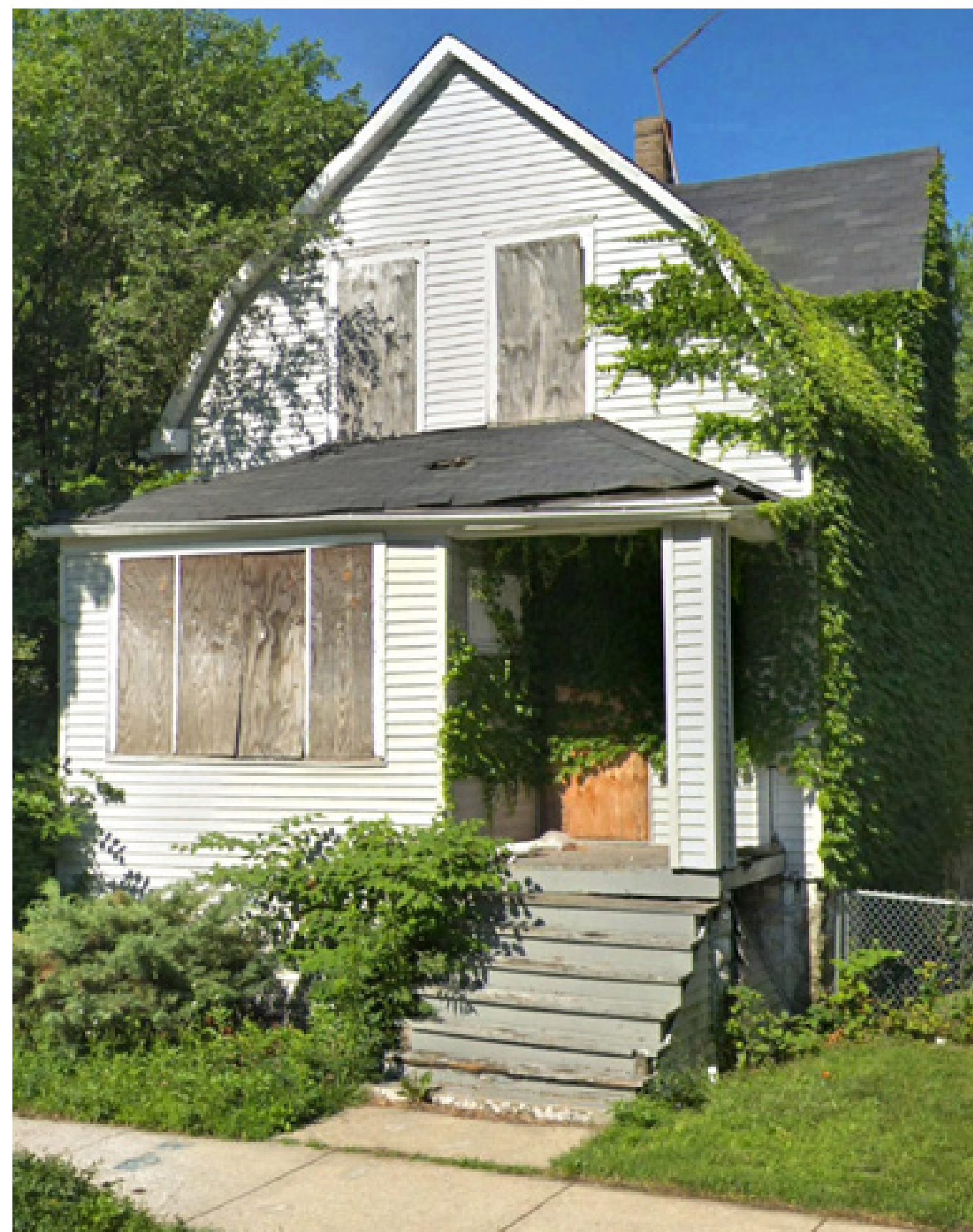
## **Lyceum Competition**

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COMPETITION: LYCEUM  
PROJECT LOCATION: CHICAGO, IL  
DATE: IN PROGRESS







**NOT THIS**



**THIS**



## **AN ISLAND**



The 2020 Lyceum Fellowship competition asks designers to look at a historic Chicago neighborhood which features historic building styles associated with the area, such as the Chicago bungalow, two flat, and the four-square styles. The competition addresses how to evolve and change the neighborhood to meet modern resident's needs and desires. Unfortunately, the selected neighborhood (located on the south side of Chicago) is not in great shape. Many of the historic structures are boarded up and unoccupied leaving the occupied buildings by themselves and fenced off from the public. Existing residents are forced to live in a metaphorical island distanced from other neighborhoods and dissociated from their community at large.

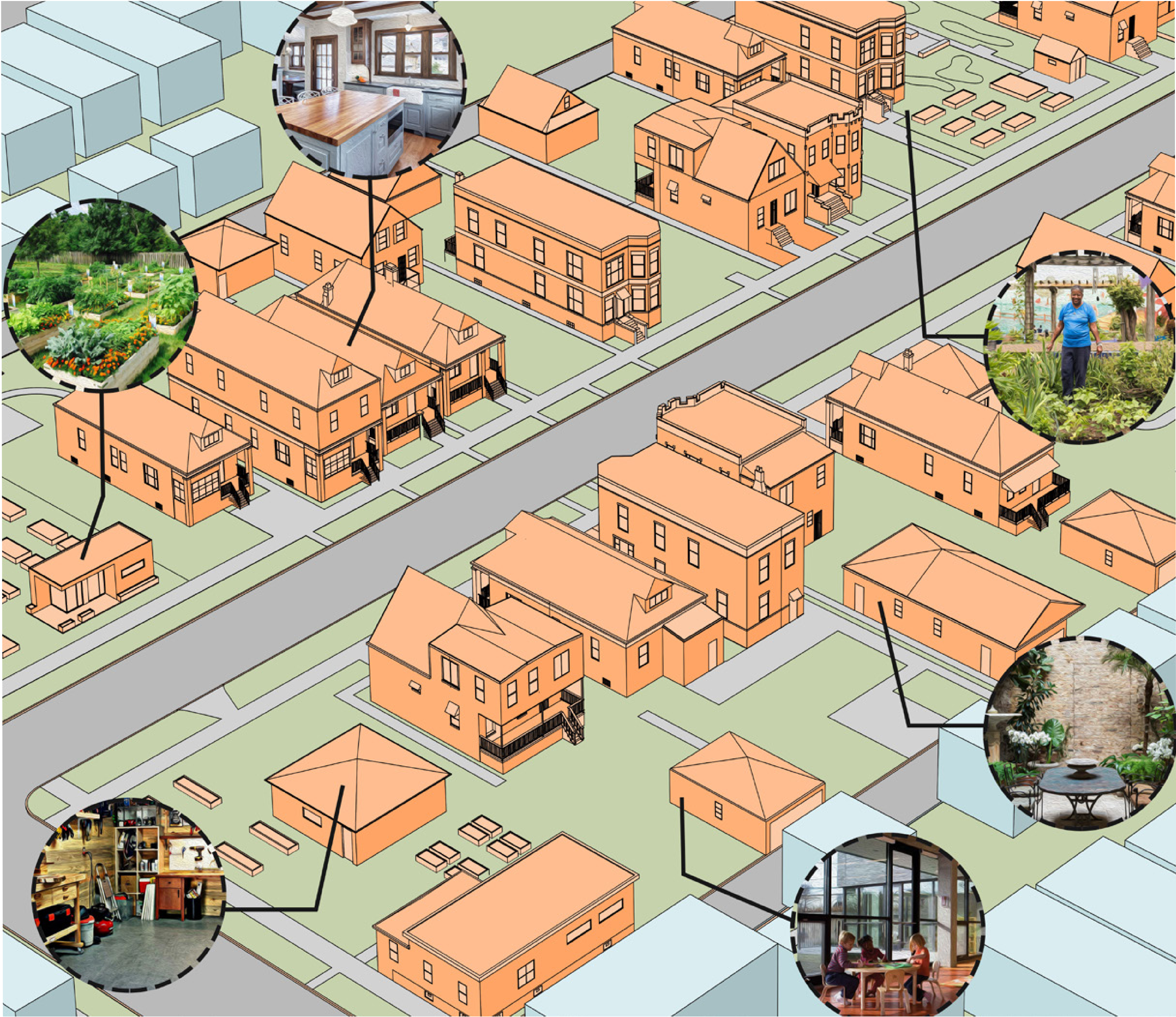


The first step to successfully restoring the neighborhood is to restore the homes themselves. While many might suggest the best option is to demolish the unused homes and build new ones, there is a better option. These historic brick bungalows and flats possess incredibly unique exterior and interior features as well as efficient brick facades that absorb heat throughout the day and release it back into the home at night.

The second step is to acknowledge the residents of these homes and their talents and interests. By recognizing the inhabitants and getting them involved in the restoration of their neighborhood, they in turn will place increased value on their homes, each other, and their community.

The third step to revitalizing the neighborhood and the community is to create a new narrative among residents. By removing the privacy fences, restoring the deteriorating homes, exploring green options and park spaces in between the homes, and creating places that promote neighborhood interactions residents will get to know each other, build trust, and create a safer more valuable community.

The end goal is a transformation in which residents share talents building local relationships and economy. Residents value both their community and their homes. They create a neighborhood that can act as a model to the local community and eventually other areas of Chicago creating a rejuvenated focus toward improving its inhabitants' lives. Although such large-scale change is difficult, it is still an important aim whose benefits far outweigh the risks. This kind of monumental change will certainly take time, devotion, and effort to achieve a positive outcome.







## A COMMUNITY



At the beginning, these bungalows, two flats, and foursquare style homes were secluded and in need of repair. At the end, these homes have been rejuvenated, and the embodied energy of new construction saved. Residents have brought their interests and talents together to create a community. No longer is each individual home an island, rather the neighborhood has transformed into a community. Residents value where they live and children have a safer environment to grow up in.



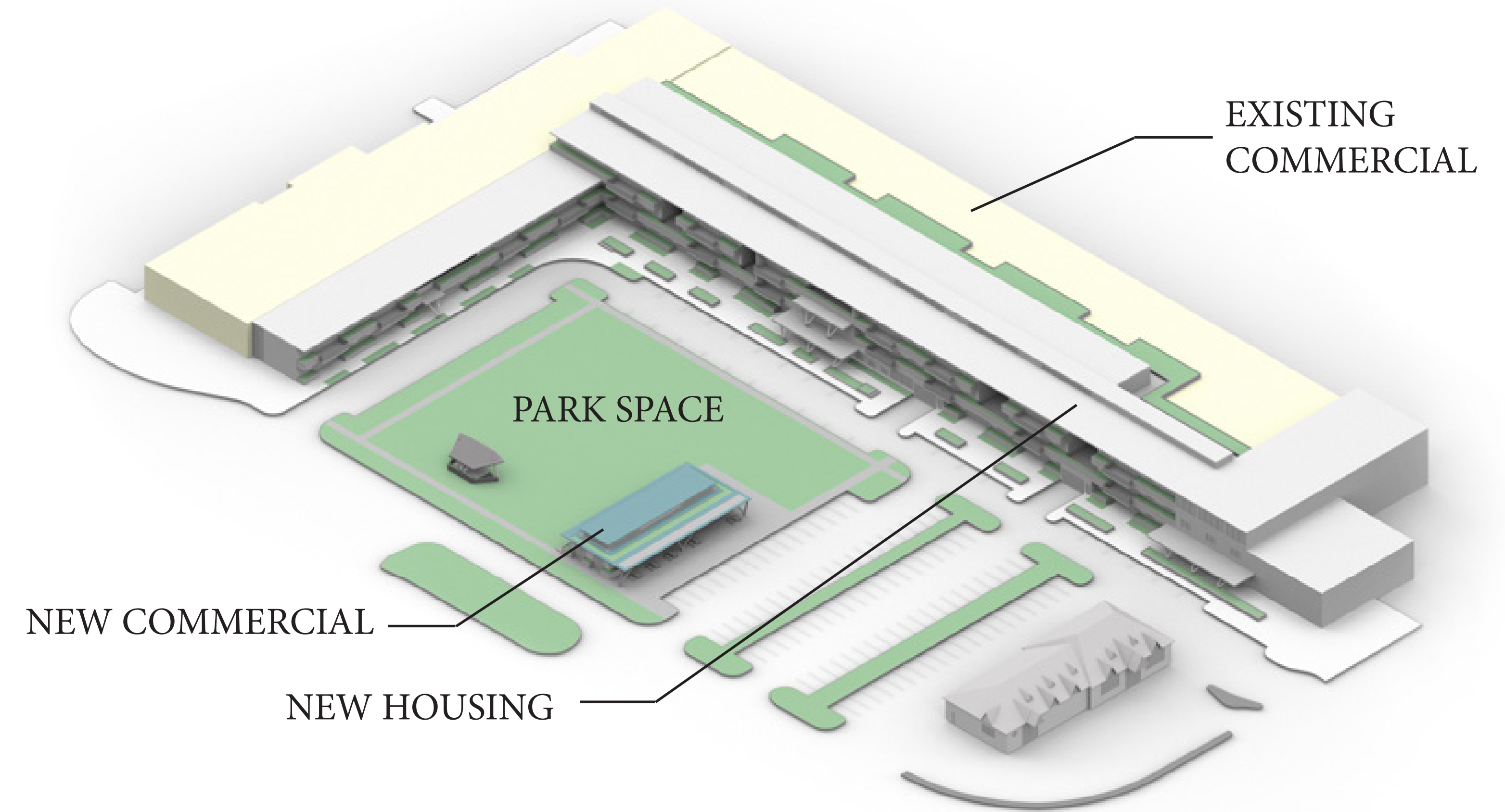


# Housing Development

3RD YEAR STUDIO: HOUSING  
PROJECT LOCATION: GREENHILLS, OH  
DATE: 2019







**BACKGROUND ON GREENHILLS**

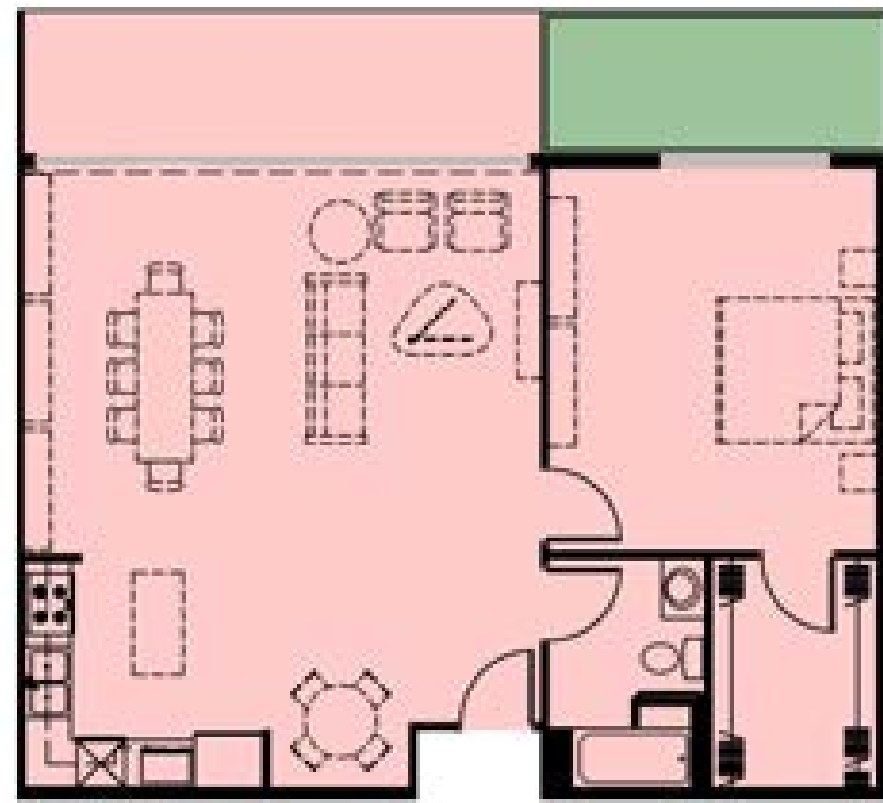
The Village of Greenhills is a small municipality located in Hamilton, Ohio. It has a population of roughly 3,600 residents and is a national historic landmark. Greenhills was one of three Greenbelt Communities erected during the Great Depression of the 1930's. Today Greenhills struggles with economic factors as it only has one commercial source of income. The Greenhills shopping center is in the center of the village. However, it struggles to find successful businesses and sits at 30% vacancy. Consequently, Greenhills residents pay higher taxes to make up for the lack of commercial income and taxation. This studio is focused on creating new housing inside of Greenhills that could spur revitalization of the village and its economy.

**PROPOSED DEVELOPMENT**

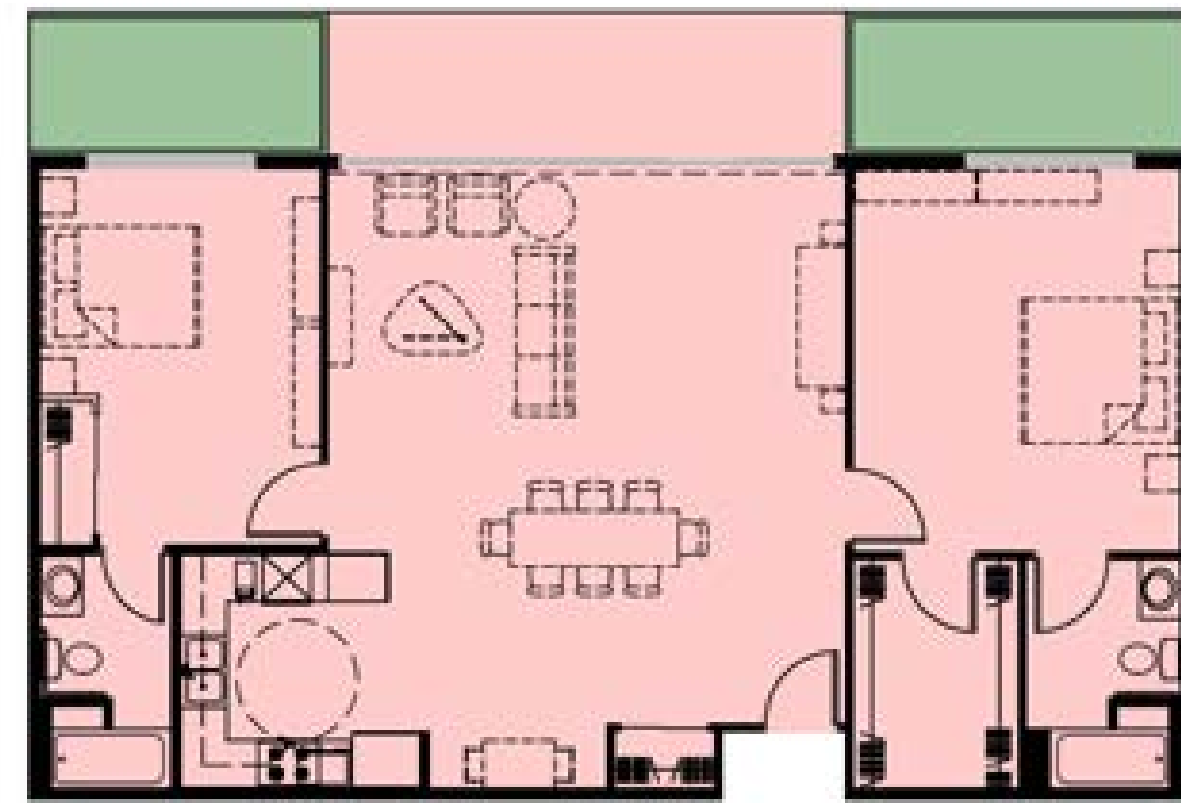
This proposed housing development is neatly placed on the adjacent side of the Greenhills shopping center. It is designed to attract new residents to the Greenhills area while simultaneously promoting strong economic growth inside the village of Greenhills. The new proposed development would offer 37 new living units, 9 new community spaces (including a sidewalk park, pavilion, and indoor garden), and several new economic locations including a new restaurant.

This studio did not focus on the shopping center itself. The only economic center of Greenhills would likely be improved with the creation of these new housing units, commercial buildings, and green spaces.

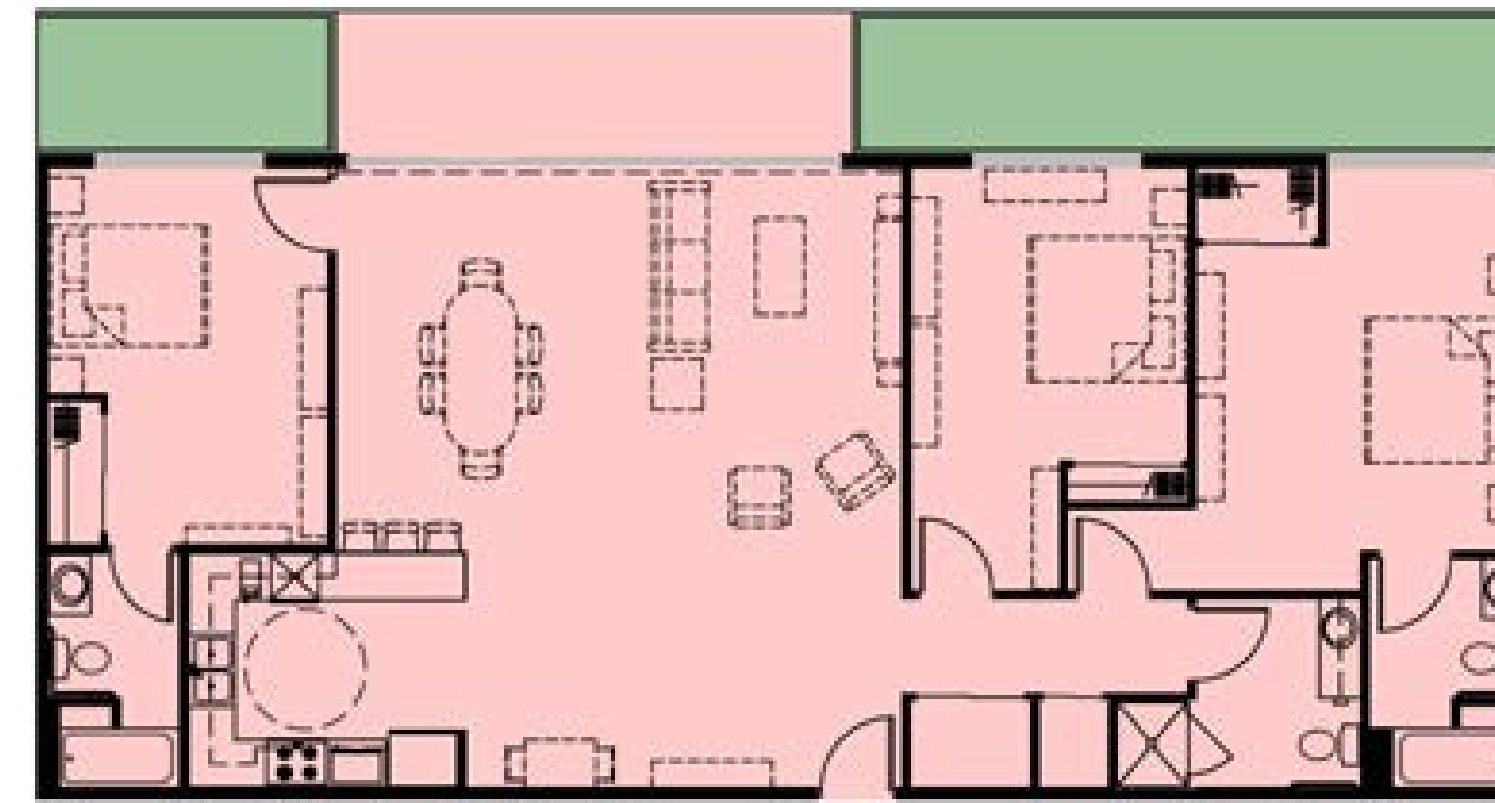




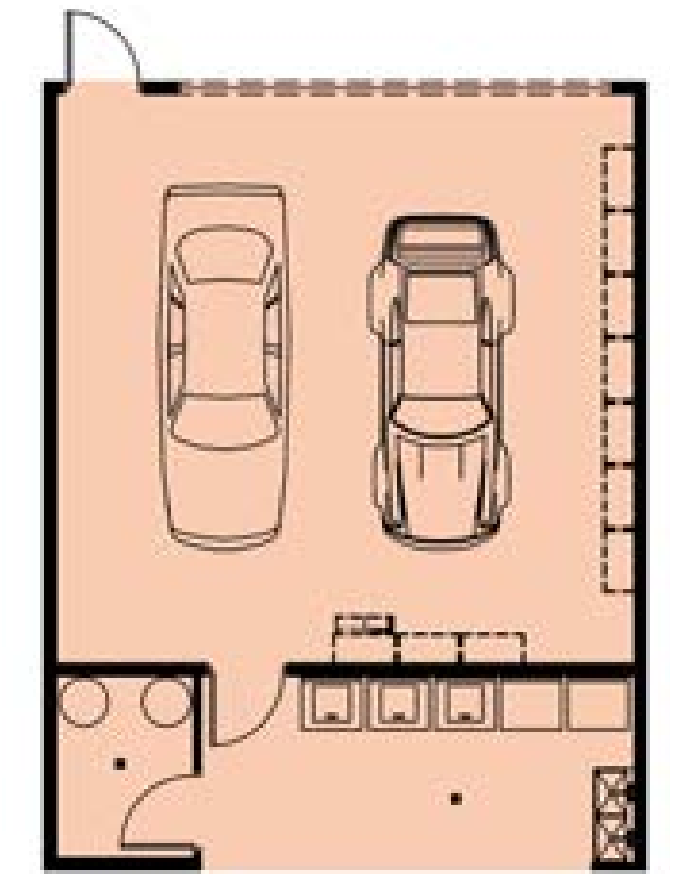
**SINGLE UNIT**



**DOUBLE UNIT**



**TRIPLE UNIT**



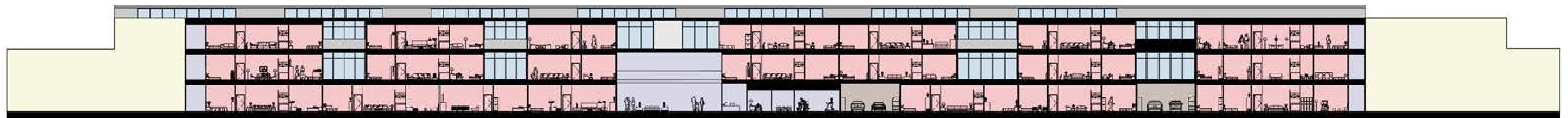
**GARAGE**

The three-story proposal features 3 three-bedroom apartments, 6 one-bedroom apartments, and 31 two-bedroom units. The facility also features a gym, two rentable conference rooms, four garage and storage spaces, and 9 community outdoor spaces. Each unit is equipped with its own outdoor balcony that features spectacular views of the surrounding green spaces and community areas.

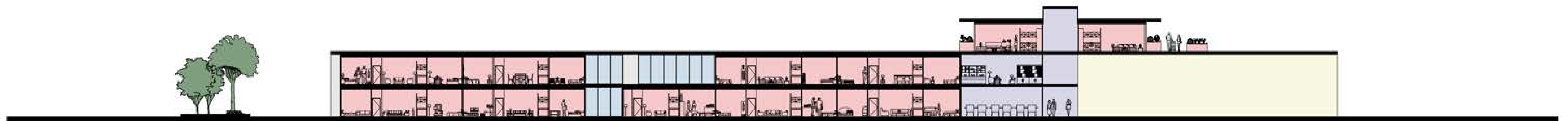
This building is outfitted with the newest green technologies, including solar power systems on the roof, a low maintenance planter system attached to each unit, the creation of park space from existing brown fields, and the use of locally sourced material. In LEED for Homes an attainable score of 86+ is very possible, achieving the Platinum rating; Gold would be the minimum rating.

Residents will also enjoy easy access to many of the cool activity areas in and around Greenhills. In less than a mile walking distance, residents have access to the new park space, the Commons, the public swimming pool, a 9-hole golf course, the public library, and several hiking trails. Within a 3-minute drive, residents have access to Winton Woods park/lake, Parky's Farm, and Meadow Links Golf Course.

Although this development may come at a high initial cost, long-term benefits will be economic and environmental. Increased economic activity in Greenhills will result in an additional 40+ households above a \$65,000 yearly income. These new residents will spend their money in the shopping district and at events hosted in the new park space or existing Greenhills Commons (located directly across the street from this new development).



**NORTH SECTION**



**WEST SECTION**









## **ROW HOUSE**

3RD YEAR STUDIO: LIVE + WORK HOME  
PROJECT LOCATION: COVINGTON, KY  
DATE: 2019







**LIVE**

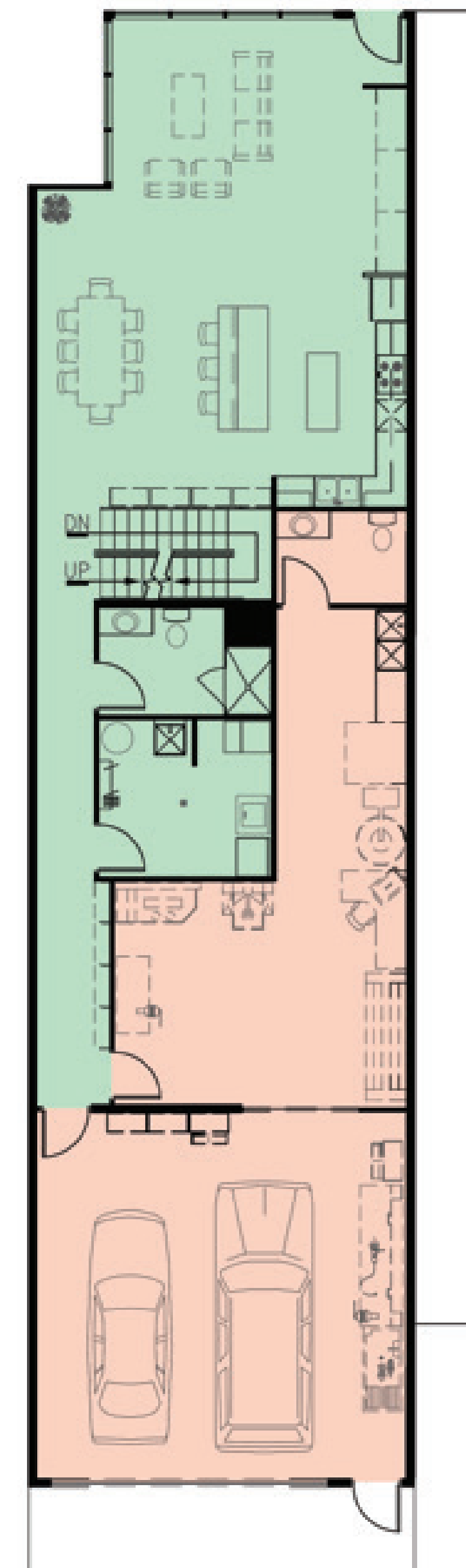


**WORK**



This row house sits on a small 25' X 124' site located on the Ohio River facing the city of Cincinnati. The proposed building is in the historic part of Covington Kentucky near George Roger's Clark Park on Riverside Drive. It is designed to be a single-family home with a live-work function.

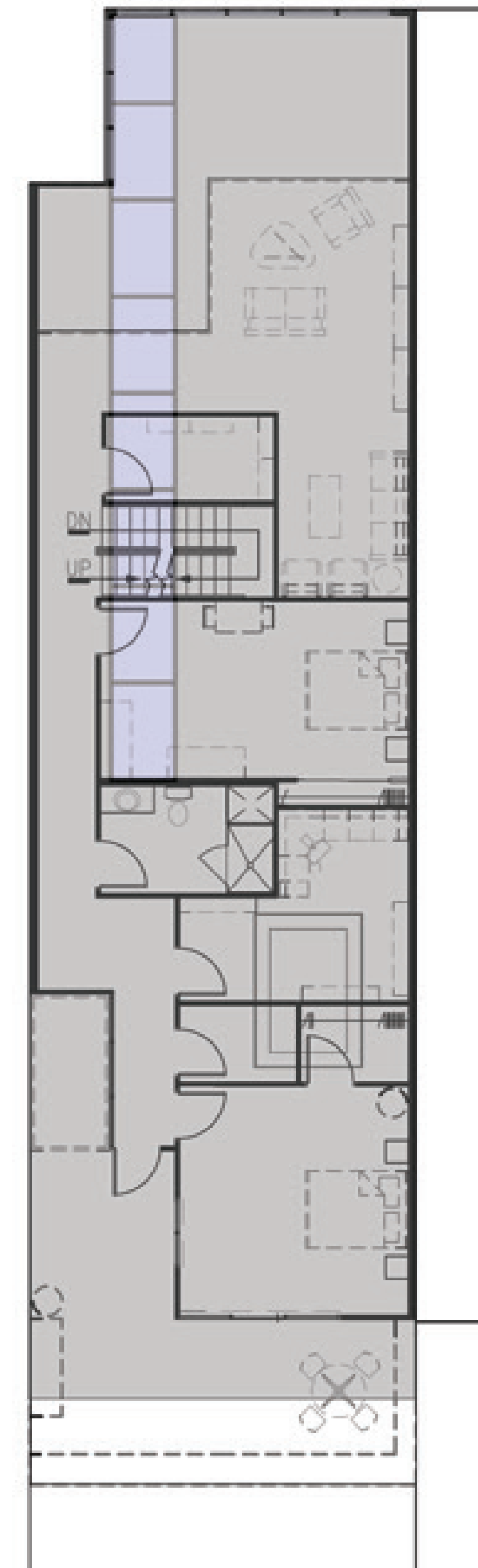
Living areas feature an open floor plan while work areas are designed to value concentration and privacy. Sustainable materials and passive design strategy take importance including a strategically placed two-story view of the Ohio river and riverside.



**FIRST FLOOR**



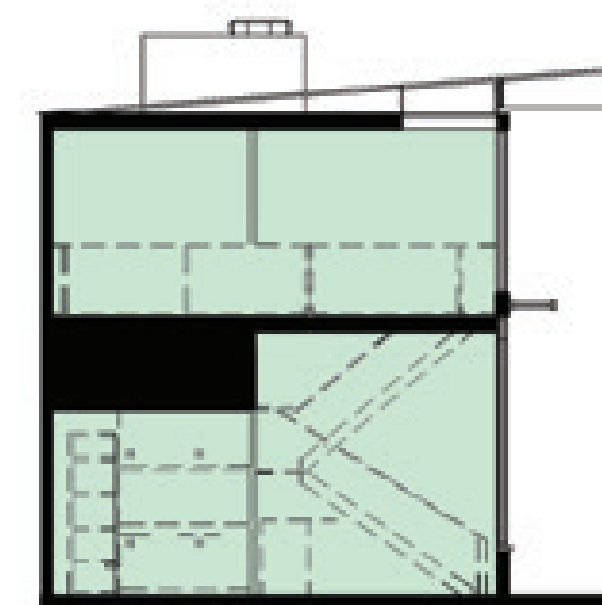
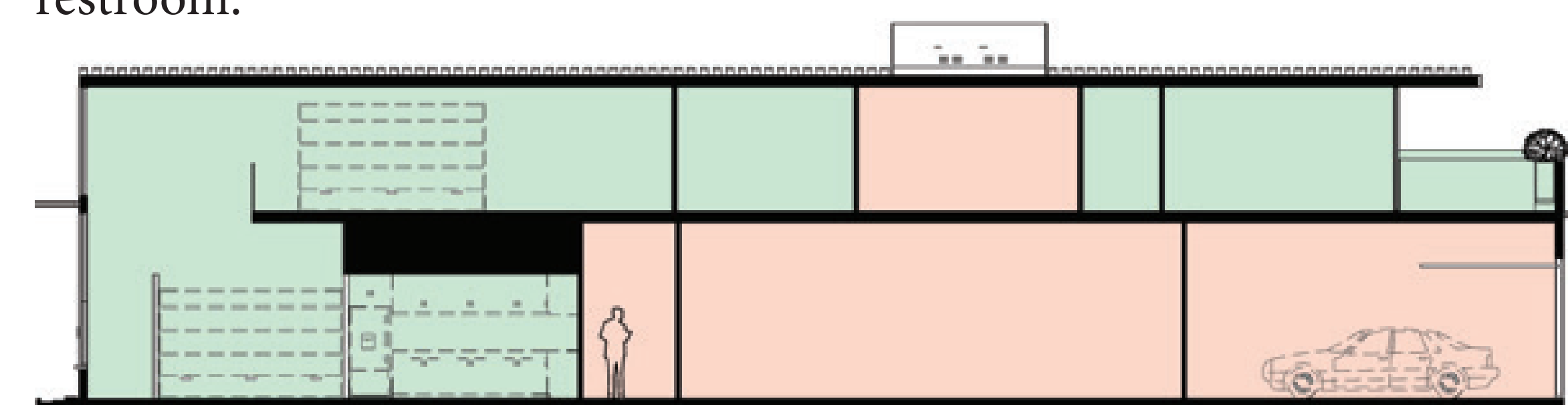
**SECOND FLOOR**



**SUN ROOF**

Highlighted are living areas (green) and work areas (orange). Living areas include two bedrooms, a large open kitchen, open living, and open dining rooms, a second story library/lounge with an excellent view, and shaded privacy patio. Work areas include an office, two car garage, and shop space with an attached restroom.

With limited space for exterior facing windows because of site orientation and building code, a large sunroof (purple) extends over many of the rooms inside the residence providing efficient use of daylight.

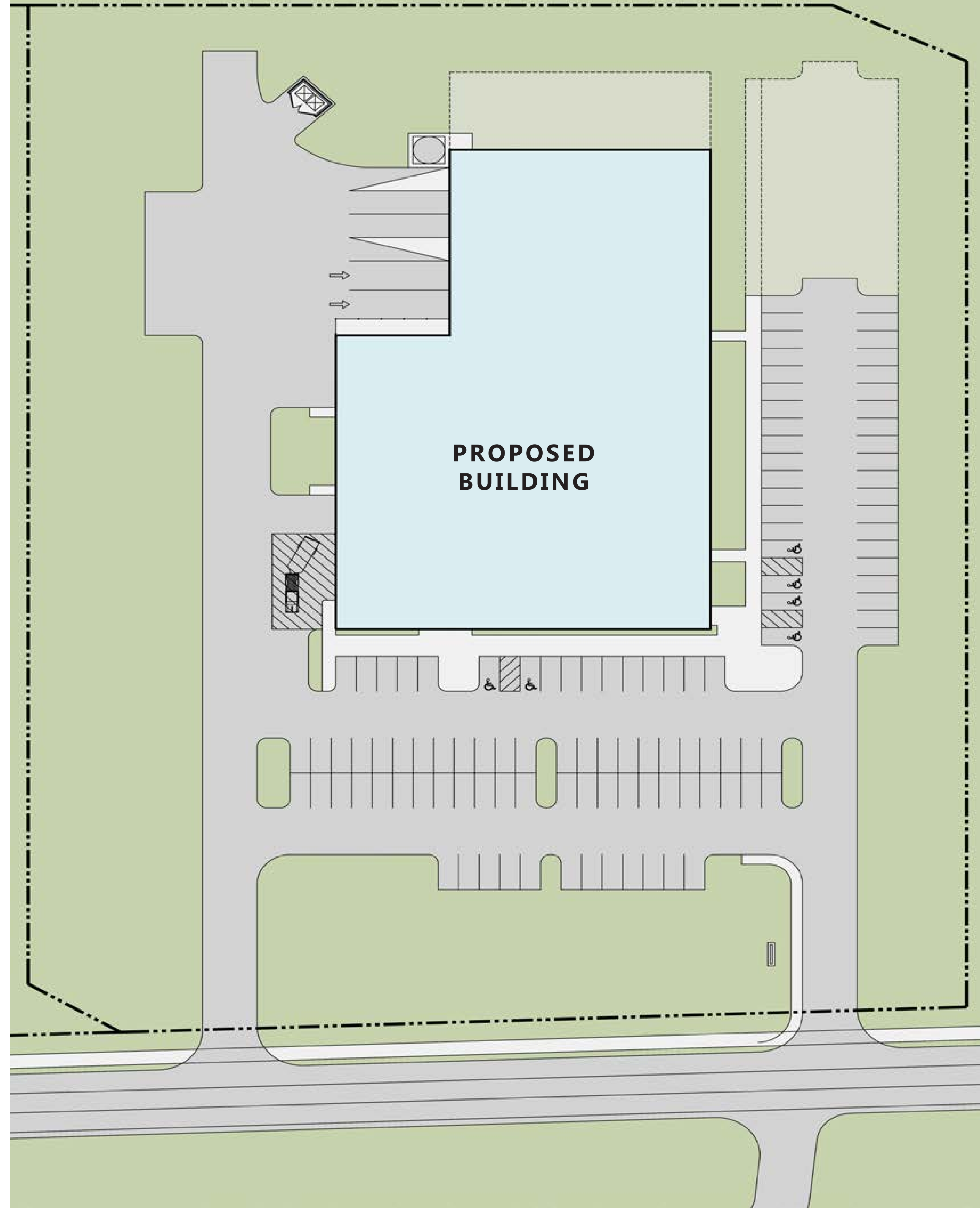






# Altro Industrial

PERSONAL PROJECT  
PROJECT LOCATION: INDIANAPOLIS, IN  
DATE: 2018







## CLIENT NEEDS

Altro Industrial needed a facility that could not only provide adequate office and laboratory space for 60+ draftsman, designers, researchers, sales associates, and directors but room for future expansion. Altro also needed space for up to 15 custom manufacturing personnel, 4+ warehouse workers, and a trucker's lounge. At any given time, the facility needs to accommodate 20+ costumers with private conference space.

## SITE NEEDS

Altro needed an incredibly adaptive space. To support 80+ employee parking and spaces for clients to park and pick-up large equipment, the facility is equipped with 2 semi docks, 2 semi drive-in doors (where an interior crane will have access to truck loads), and 3 additional drive in doors for class-3 and under vehicles. Two main entrances provide street access; one entrance inaccessible to large semi-trucks prevents traffic congestion.

## DESIGN DRIVERS

Altro employees need the capability to design, test, and manufacture new equipment and/or alter existing equipment both large and small. Whether it be modifications to car engines or the creation of new wind turbine components, the space must be conducive for an efficient design-build process. The new facility should reflect the pride, care, and dedication that Altro employees put into their work.

## ALTRO CLIENTS

At Altro Industrial communication is key. Employees ensure that client needs are met and that product is efficiently and safely distributed. Altro's sales-force, designers, researchers, and engineers use an efficient product development process for in-house manufacturing. Clients expect efficient, economical, and precise results.

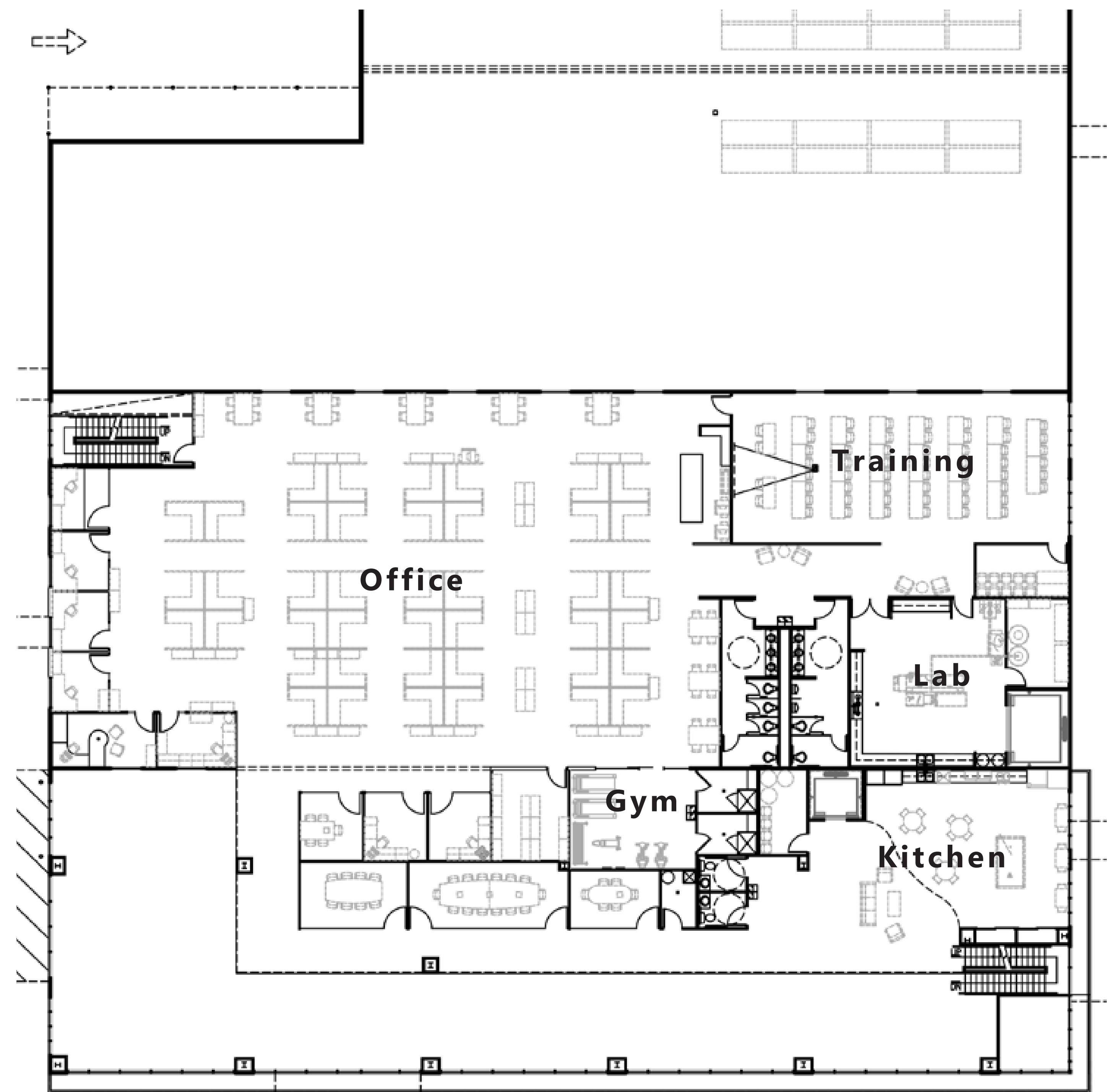




**FIRST FLOOR**

Altro Industrial needed storage space for equipment and raw materials. In response, a 17,700 sq. ft warehouse was designed with an additional 1000 sq. ft for storage of small items. Approximately 8,500 sq. ft is devoted to manufacturing: this space houses a variety of tools and equipment and a special ventilation system to allow for indoor welding, plasma cutting, and CNC machinery.

Next to the large glass facade is a spacious lobby/showroom that is equipped with a check-in desk, small kitchen, and coffee station. There are two sales offices on the first floor to assist walk-in costumers and a small conference room. Altro also has a furnished trucker lounge in the warehouse to accommodate drivers while they wait for product to be loaded and unloaded from trucks.



**SECOND FLOOR**

Altro Industrial office space is also equipped with modern amenities. The second floor has a dedicated kitchen, game room, and a gym that employees can use to stay healthy and stress free. The space also contains an open office floor plan with many conference rooms and community areas. Altro Industrial office space is equipped to hold 60+ employees and allow the company to continue to grow and expand.

The second floor also houses a unique manufacturing and quality control laboratory, which is directly connected by a freight elevator to manufacturing. The laboratory and surrounding spaces have a plenty of storage to accommodate a variety of projects. Finally, the second floor is equipped with a large training room capable of holding 60+ employees at a time.

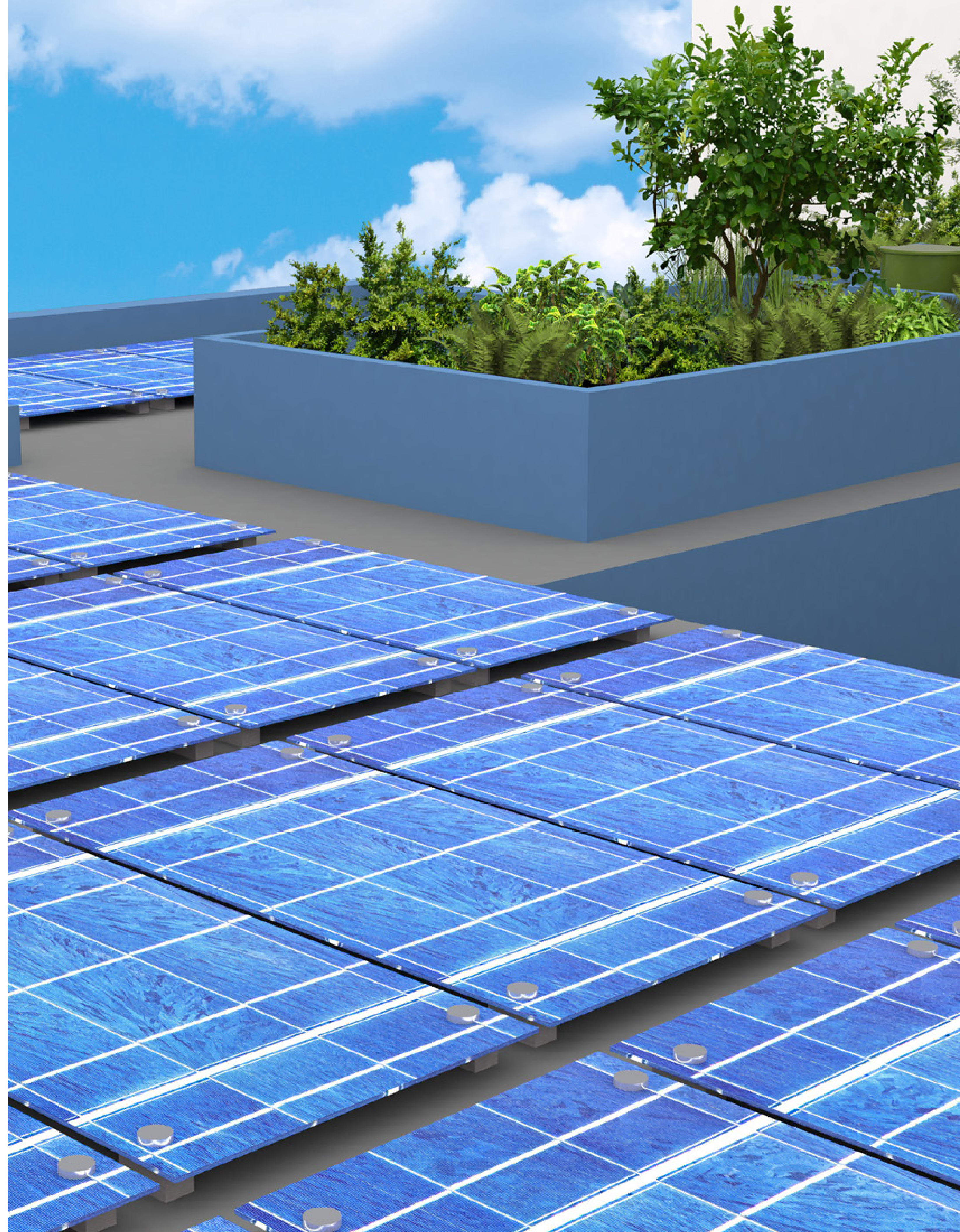




## Poetry Foundation

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2ND YEAR STUDIO: POETRY FOUNDATION  
PROJECT LOCATION: CINCINNATI, OH  
DATE: 2017







**Community Library**



**Coffee Shop**



**Auditorium**



**Lobby**

**GREEN DESIGN**

This building is equipped with the most modern green technologies. It harvests light from the sun to capture solar energy through several sets of solar panels. It collects rain to water its own roof-top garden. It gathers CO2 emissions from the air and turns them back into oils with carbon purification technologies.



**DESIGN DRIVERS**

Cincinnati is a very community driven city. This Poetry Foundation will reflect this with an open floor plan that promotes interaction with a flexible environment easily suited for meetings and events. A library will allow the community to enjoy learning with plenty of material for reading and shared computers. The top floor includes plenty of open and closed office spaces with a coffee shop easily accessible to the community.

**Water Recycling**



**Carbon Removal**







## **Professional Experience**

AL. NEYER - - ATA BEILHARZ ARCHITECTS  
DATE: 2018-PRESENT







## ARCHITECTURE



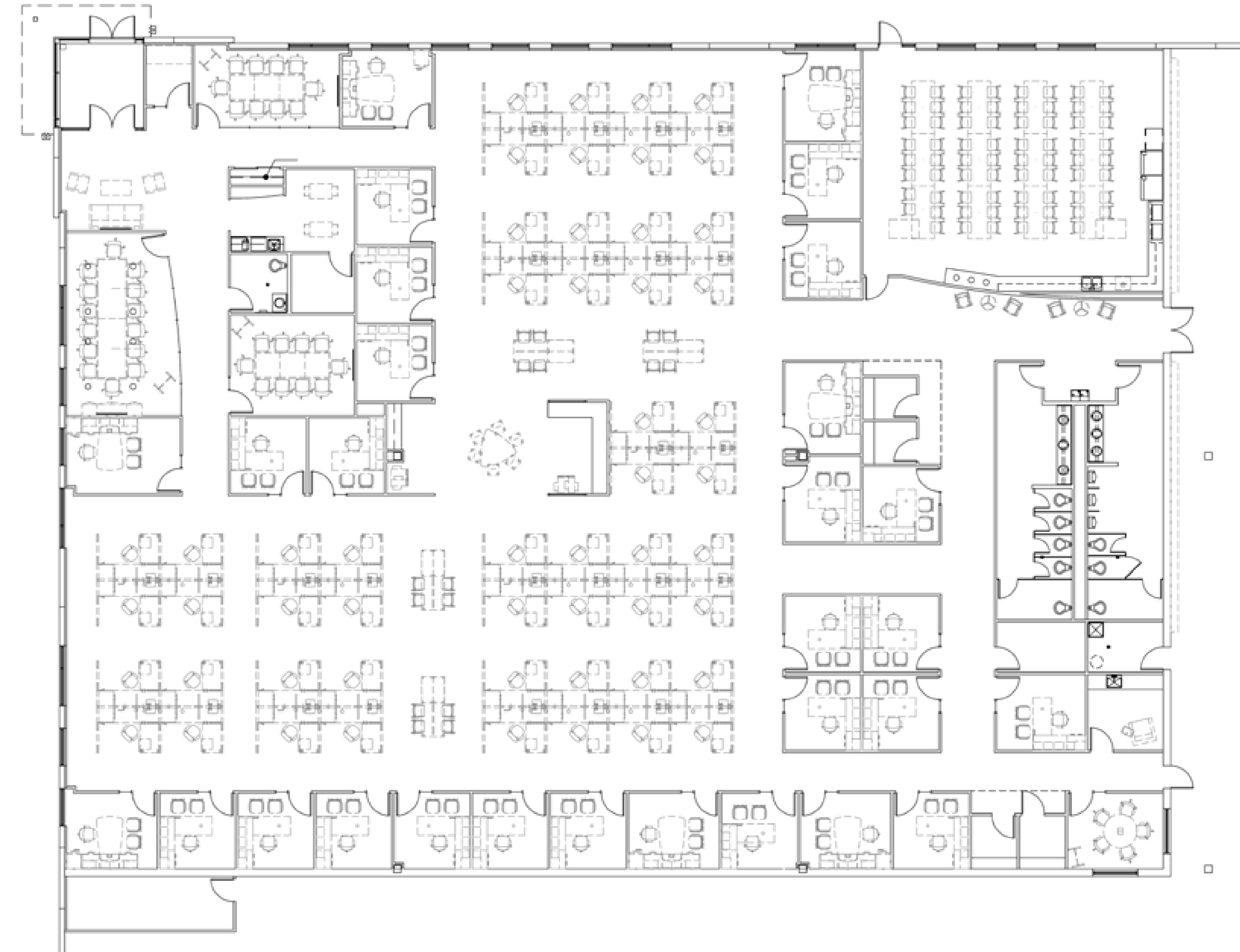
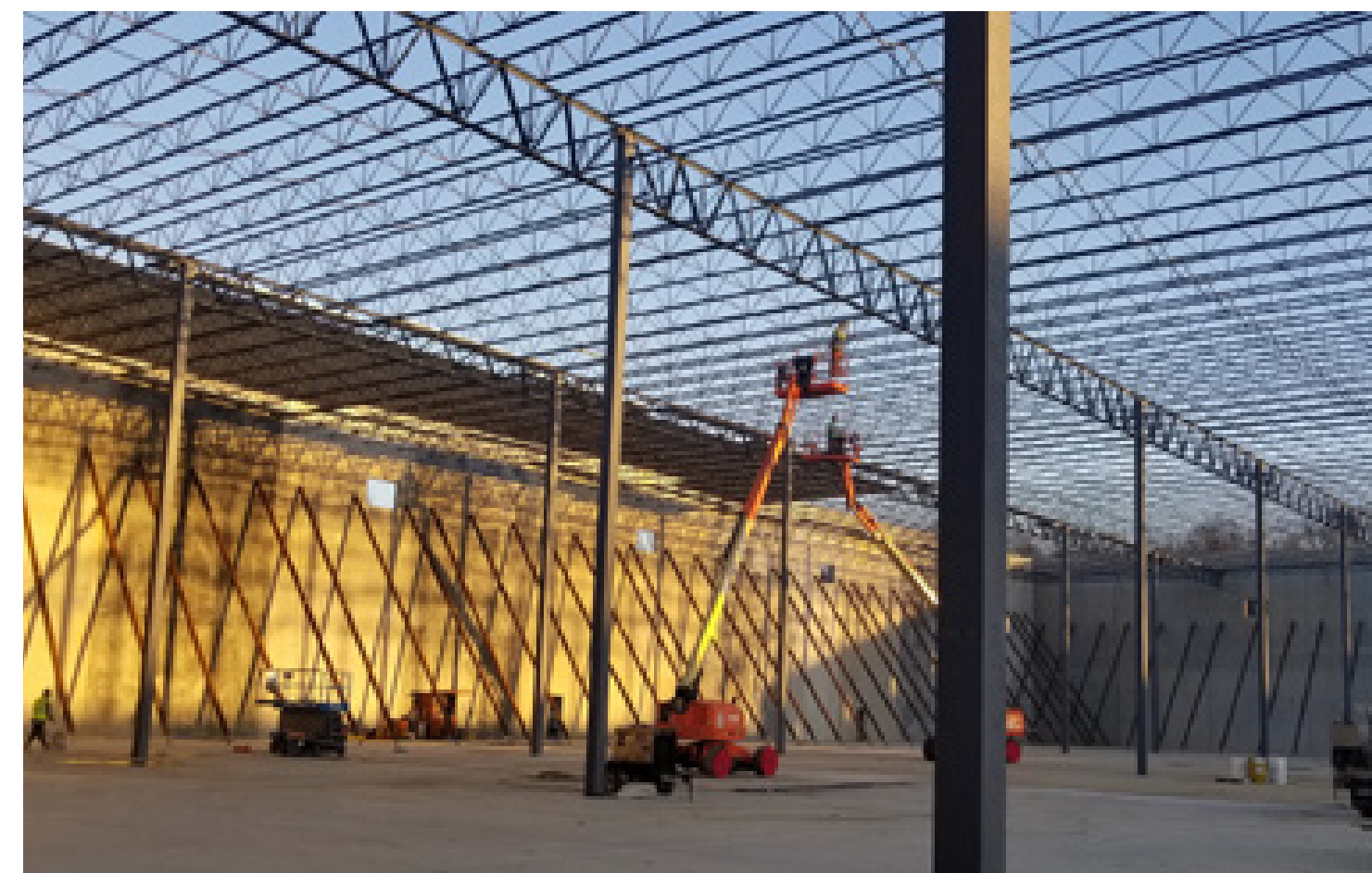
Three internship semesters working in an architectural office on industrial, medical, and entertainment projects. Involved in all stages from design development to the creation of construction drawings. Spent time doing site surveying and analysis/assessing existing structures before additions or renovations start. Has LEED GA recognition and worked on five LEED projects.



## CONSTRUCTION



Two semesters in the field during construction of industrial warehouses, office spaces, and a manufacturing facility. Worked as assistant to the project superintendent supporting in the supervision of all stages of the construction process from initial surveying to concrete pours to the final stages of interior finishes. Also worked on residential plumbing, some electrical, and welding projects.



## SOFTWARE EXPERIENCE

Is familiar with multiple architectural programs including AutoCAD, Rhino, and Revit. Worked with many rendering software types including VRAY, Lumion, and Enscape. Expertise with the Adobe Suite regularly using Photoshop, InDesign, Illustrator, and Premiere to complete projects correctly and efficiently.

## OTHER EXPERIENCE

Is proficient at hand drafting, painting, and sketching without the computer. Efficient and skilled at woodworking and metal work including welding and operating CNC machinery. Also has experience with plumbing, concrete, and electrical work in residential environments.



**THANK YOU**

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[WWW.ROGERCHANIN.COM](http://WWW.ROGERCHANIN.COM)