

IPRO 339 Shipping Container Housing



CHICAGO 2016
APPLICANT CITY



- Minimize the carbon footprint of the Olympic and Paralympics housing
- Design the Olympic and Paralympics housing
- Transform the Olympic housing to permanent housing.
- Incorporate electrical and plumbing equipment into the affordable housing solutions.



- Chicago is the nation's capital for "high-cost" home loans
- Record high foreclosures and still increasing
- Quality is compromised with affordability
- High repair fee for older housing



- Available quickly
- Low structural cost- High Strength
- Self supporting beams & plywood flooring already in place lower construction time & labor
- finished product is virtually indistinguishable from conventional housing
- Saving Energy
- Recycled

IPRO 339/Shipping Container Housing: How Does it Work



1 Shipping Yard



2 Construction Site



3 Permanent Housing



Instructors: Blake Davis & Michael Glynn

Construction Costs/Project Financing

Veronika Bocanova
Marc Coullais
Daniel Fanelli
Christopher Spedale
Rosa Villalpando

Container Fabrication/Construction

Haim Eliyahu
Ludmila Georgieva
Jennifer Iversen
Michael Kerrigan
Krzyszof Olszowy
Mladen Prisc

Land Acquisition/Zoning Permits

Dung Luu
Justin Miller
Steven Siwek
David Snyder

Marketing/Aesthetics

Joe Peroni
Daniel Rankin
Ana Untiveros
Aneta Ustupska

Michael Reese Group 1

Rosa Villalpando
Aneta Ustupska
Christopher Spedale
David Snyder
Daniel Rankin
Joe Peroni
Haim Eliyahu
Marc Couillais
Veronika Bocanova

Michael Reese Group 2

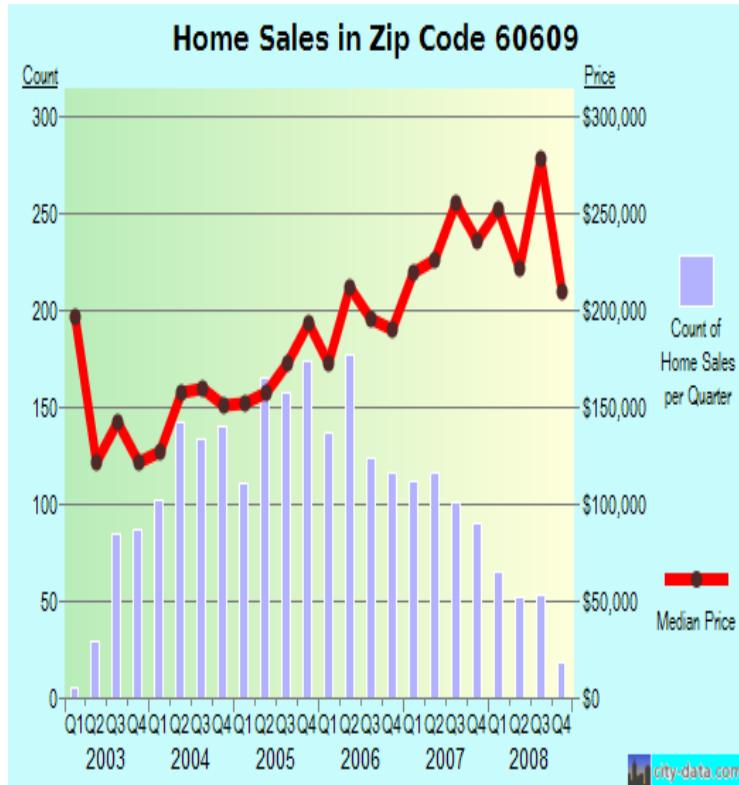
Ana Untiveros
Steven Siwek
Mladen Prusic
Krzysztof Olszowy
Justin Miller
Dung Luu
Michael Kerrigan
Jennifer Iversen
Ludmila Georgieva
Daniel Fanelli
Yu Cheung

Goals

- Itemize material costs
- Estimate construction labor costs
- Estimate permitting costs
- Develop a project financing plan
- Research sources of financing, both private and federal

Accomplishments

- Created a cost analysis worksheet for the building of the Olympic and Paralympics housing
- Developed a cost worksheet
- Determined what documentation is required to receive federal and state funding.





Goals

- Do research for the permit requirements
- Solve the zoning issues
- To reach LEED certification

Accomplishments

- DOB Green-Permit Program
- Managed to design the project to obtain LEED silver level (36 points)



Goals

- Look into energy efficient and affordable windows and garage doors
- Incorporate possible solutions from RV industry

Accomplishments

- Narrowing the search down to find most appropriate windows and garage doors for our project
- Meeting RV manufacturer from Middlebury, IN to defined limitations and possible implementations of their fabrication technology



Goals:

- Research and finalize a building façade
- Create a course of action to promote the project to the community, government officials, and financial institutions

Accomplishments:

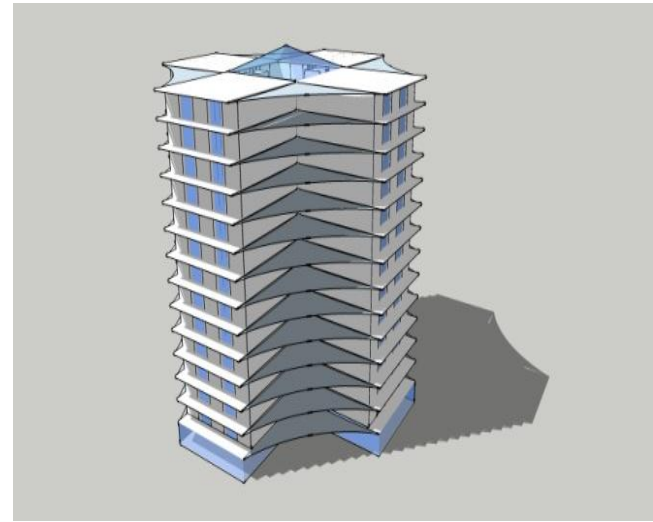
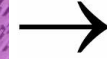
- Improved the aesthetic design of the permanent housing
- Creating a contact data base of public, governmental, and non-for profit organizations.
- Researched and created a list of potential marketing targets


Olympic Solution



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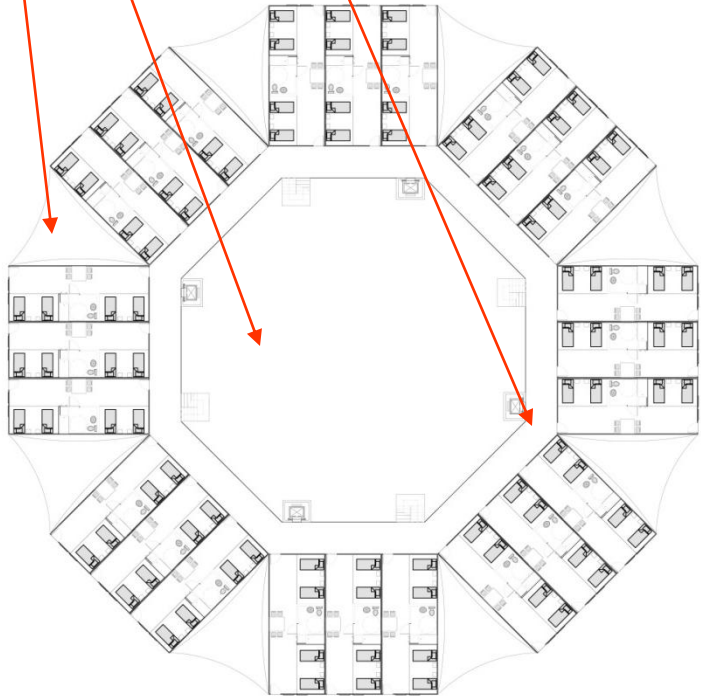
2929 S. Ellis Av



-  • Site
-  • Metra lines
-  • Parking site

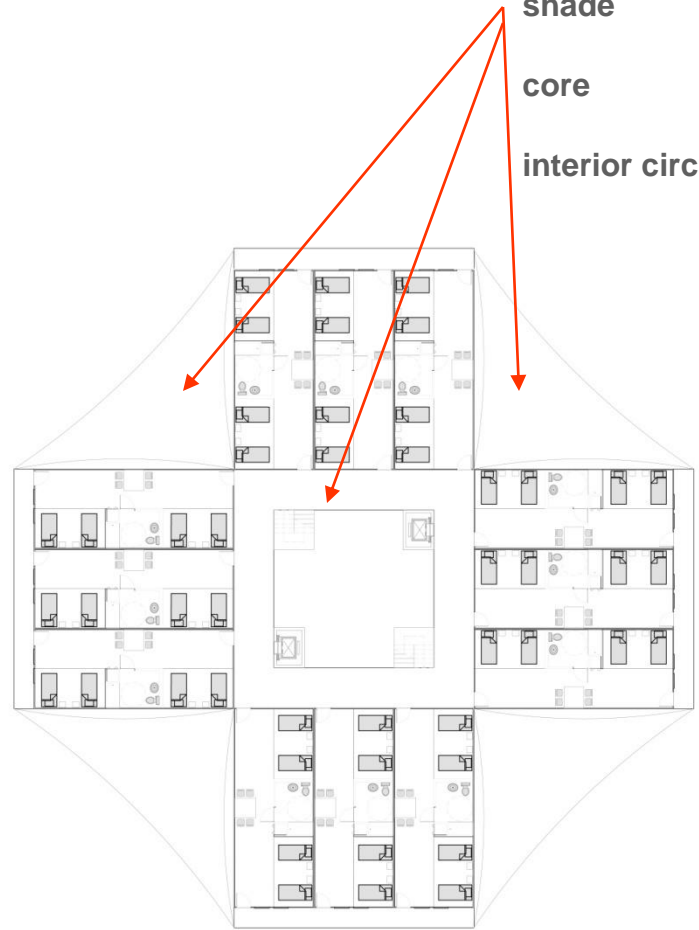
Unit B

interior circulation
core
shade

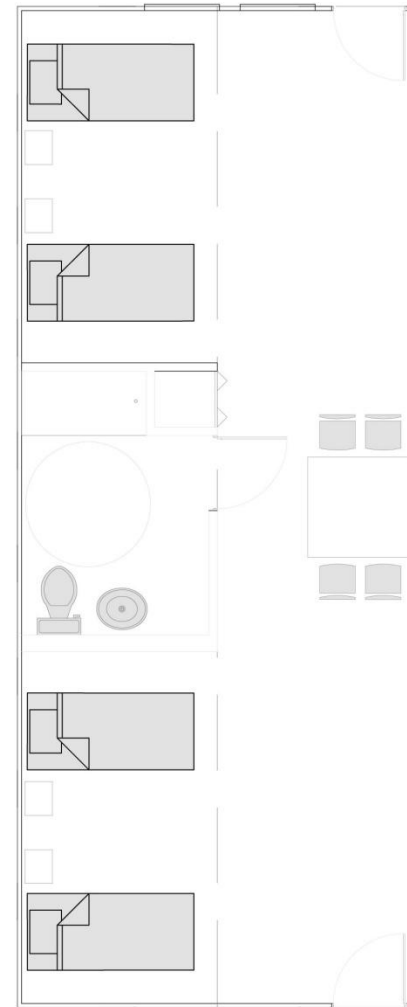


Unit A

shade
core
interior circulation

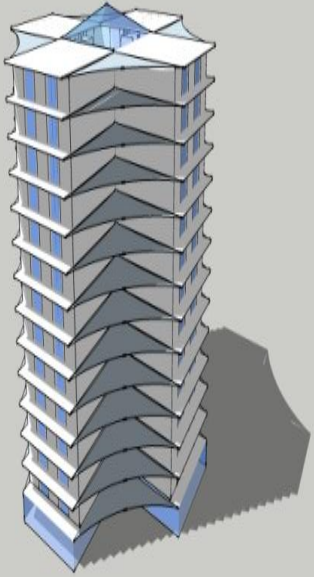


IPRO 339/Shipping Container Housing: Floor Plan and Interior Design



4317 – 21 S. Wells St.

Unit Conversion



I PRO 339/Shipping Container Housing: From Temporary to Permanent





- Decentralize affordable housing in order to create a better social environment and higher standard of living
- To create a sustainable housing design
- Create a distinction between cheap and affordable housing, making the containers livable



- Creating relationships with professionals in the industry
- Problems designing up to IOC's building code and regulation standards
- Communication between teams and individual members

