



# JASON GATES

Architectural + Built Portfolio

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42 Oakwood Drive

Redwood City, California, USA





*Puriflume is built on a 28ft trailer that can be deployed at any parking lot.*

## Puriflume

Location: Pittsburgh + rustbelt cities

Date: 2012

Team: John Folan (UDBS Director), Ming Ming Lin, Alex Greenhut, Michelle Spitzer, Inkyoung Kim, Sara Gotschewski, Christopher Lee, Angelina Gonzalez, Hubert Li, Timothy Hild, Grace Ding, Jason Gates

Awards :

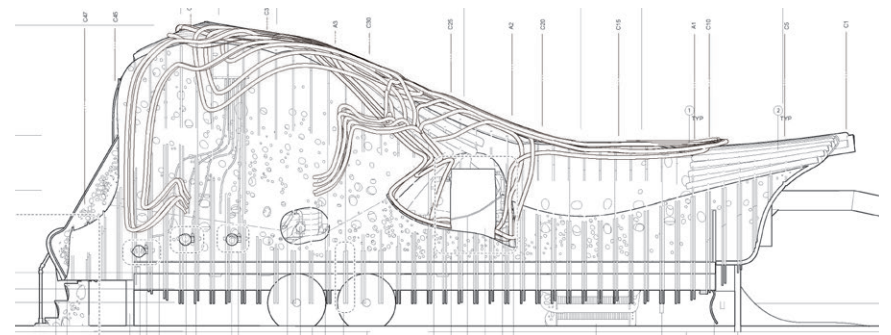
**Pittsburgh AIA Award of Excellence for Design and Innovation**

**Association of Collegiate Schools of Architecture**

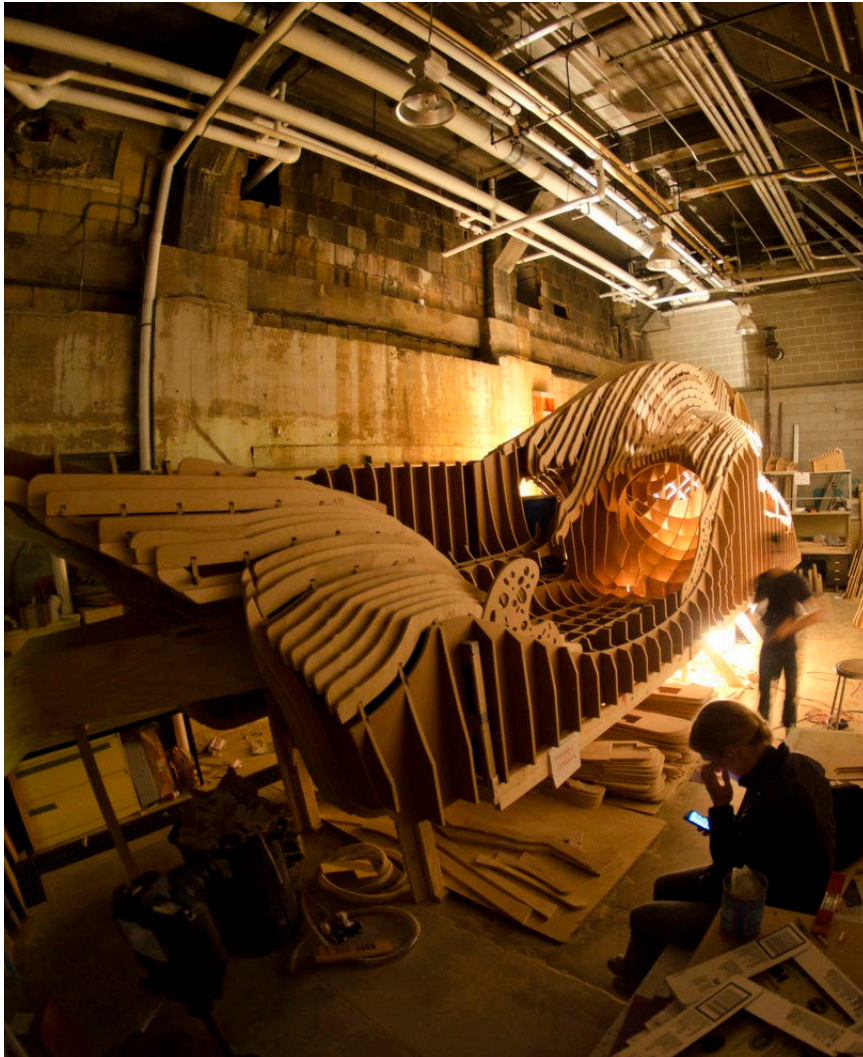
**Collaborative Practice Award**

Featured in Urbanism/Architecture Bi-City Biennale in Hong Kong.

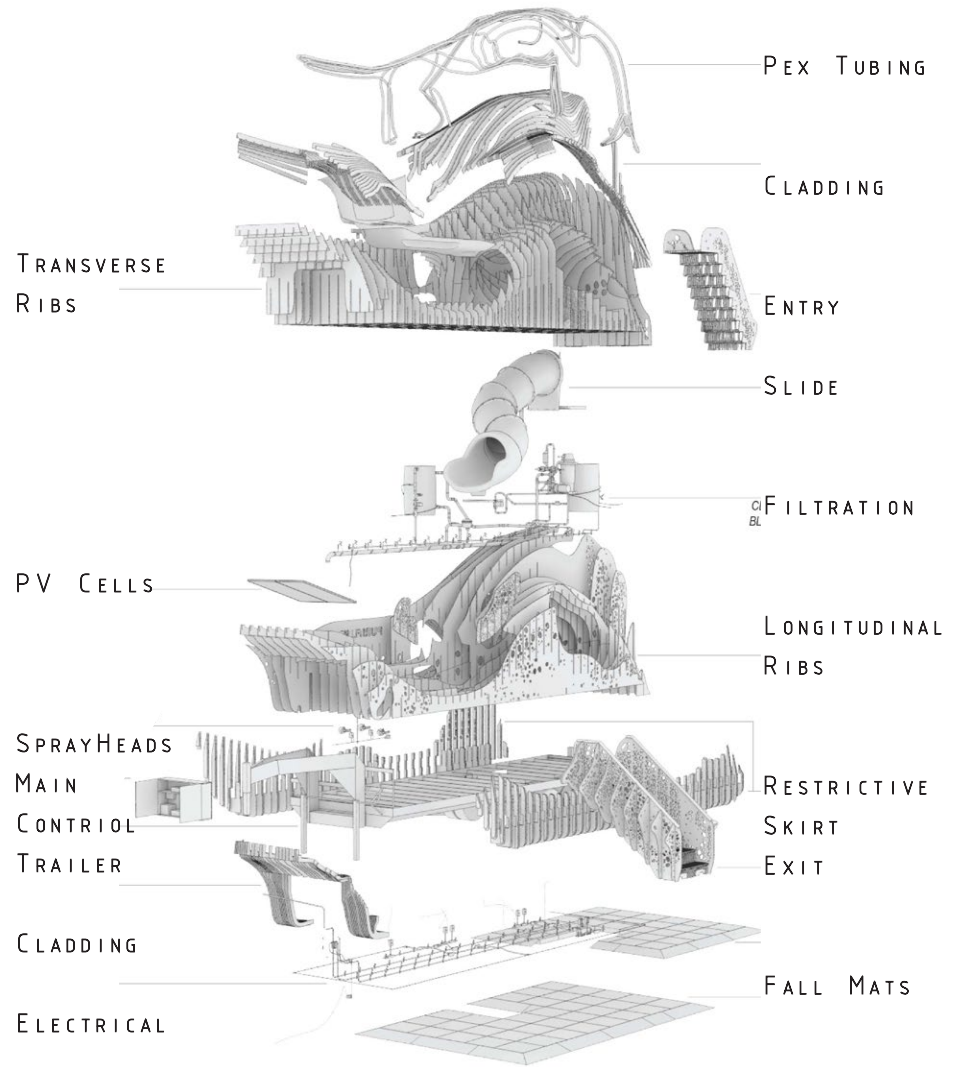
Urban Design Build Studio developed this mobile water spray park over the course of two years as a first generation prototype for passive closed loop water filtration systems. The project was funded by Autodesk, Ford, and Allegheny County.



*Elevation*



*Dry fit assembly for adjustments before painting*

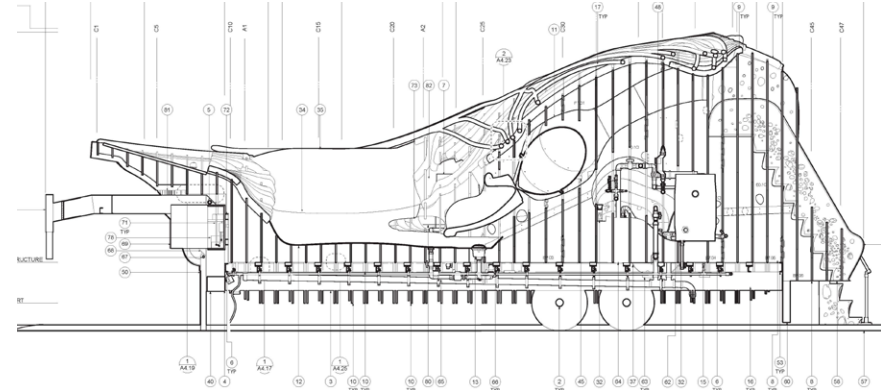


*Exploded Axon*

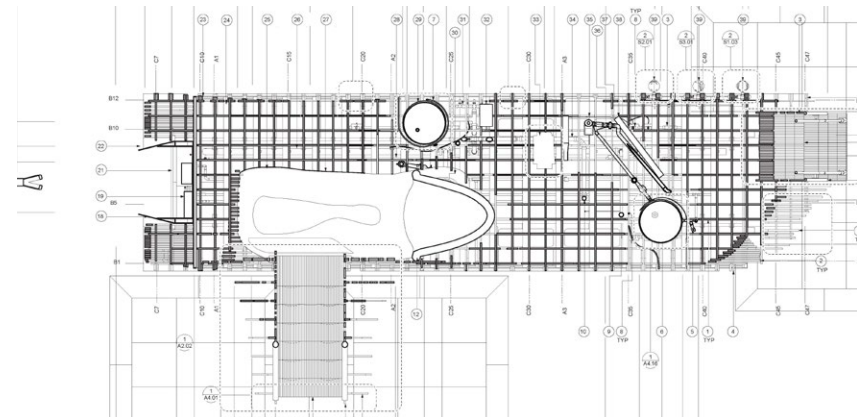




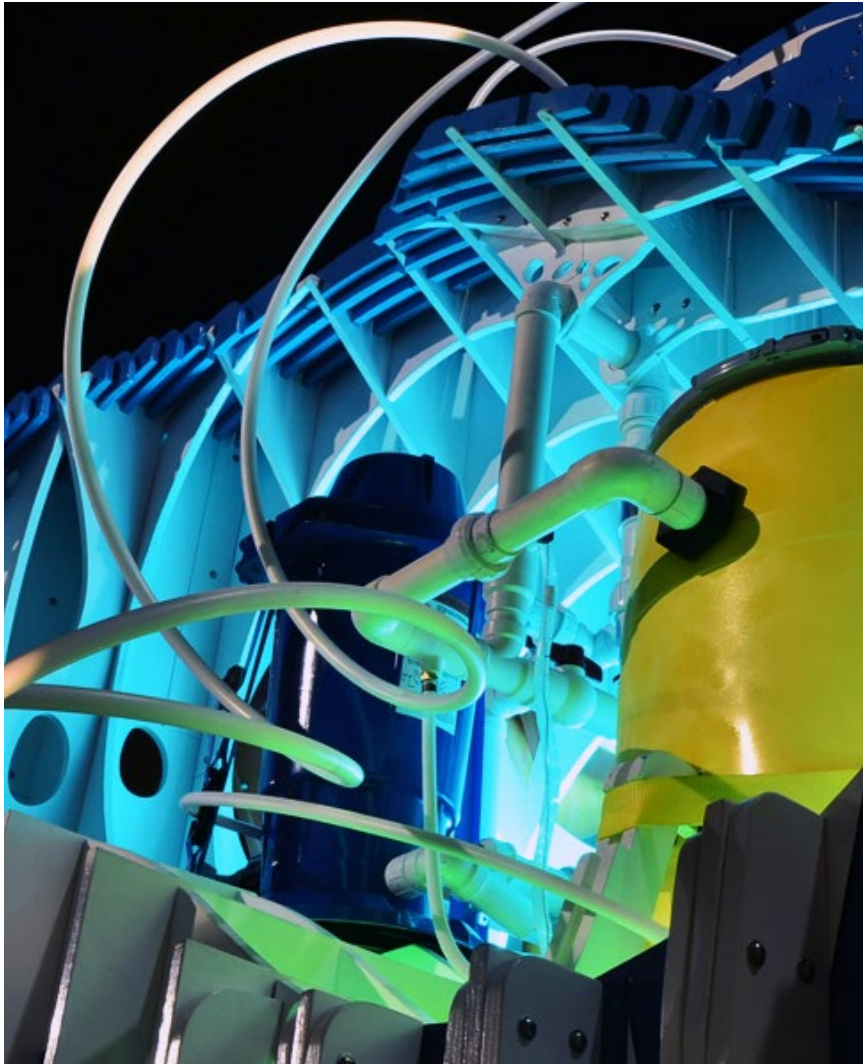
*Puriflume features custom printed spray heads and educational models.*



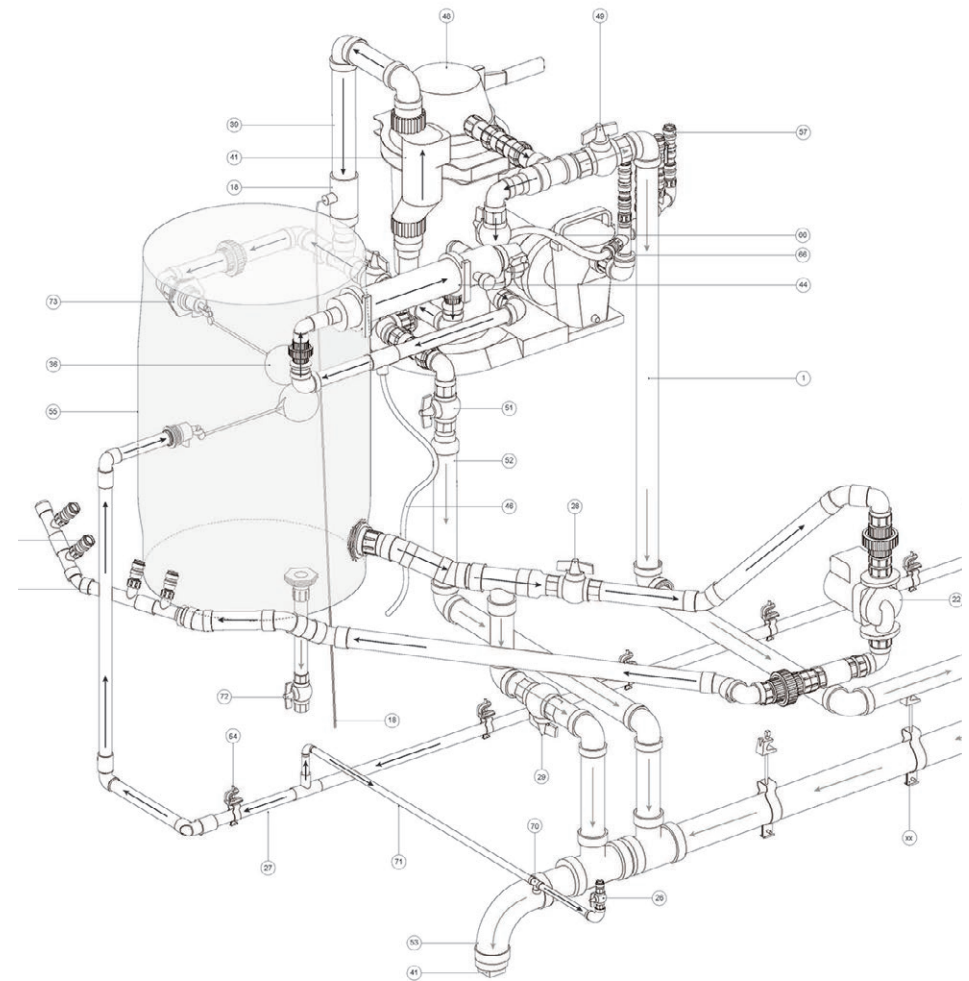
*Longitudinal Section*



*Plan*



*Voids allow visual demonstration of water purification system at work. Programmable LED lighting illuminates features at night.*



*Diatomaceous earth filter, UV light sterilizer and automatic chlorination pump are each tested and monitored to verify proof of concept for future scalable purification systems.*



## TINY\_Modular

Location: Garfield, PA

Date: 2011

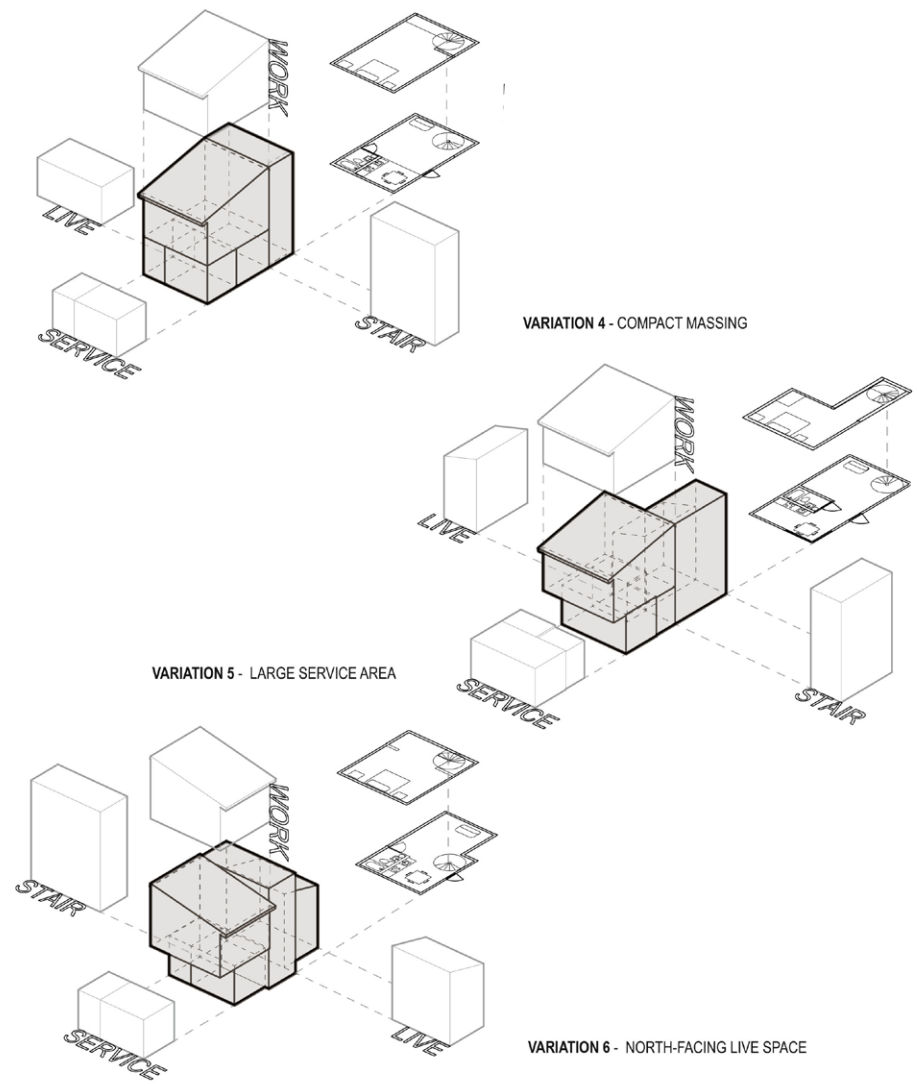
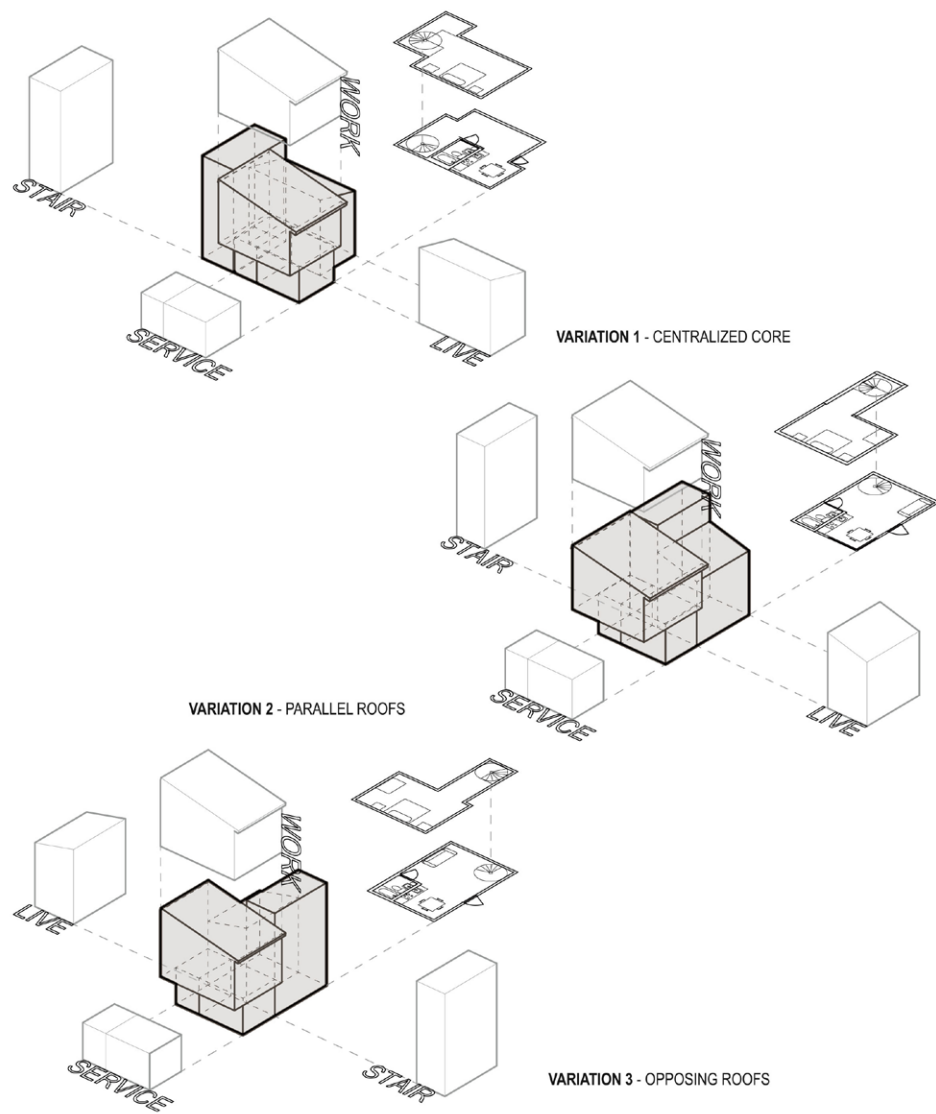
This prototype of a tiny home was designed to rejuvenate blighted neighborhoods. This modular tiny home is a more affordable way to own a home while being spatially efficient and anticipating surrounding urban growth. Site selection was researched using GIS data and mapping. Tiny modular can be prefabricated to customer specifications and aggregated to multiply units. This model shows 525 SF usable indoor space with an ultimate hard cost of \$80,800 with a critical path time frame of 54 weeks.

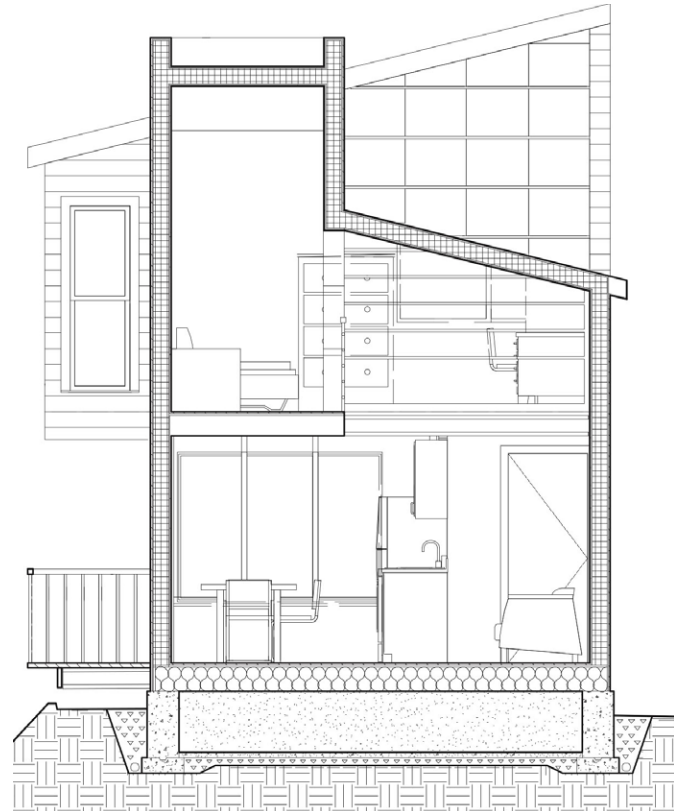
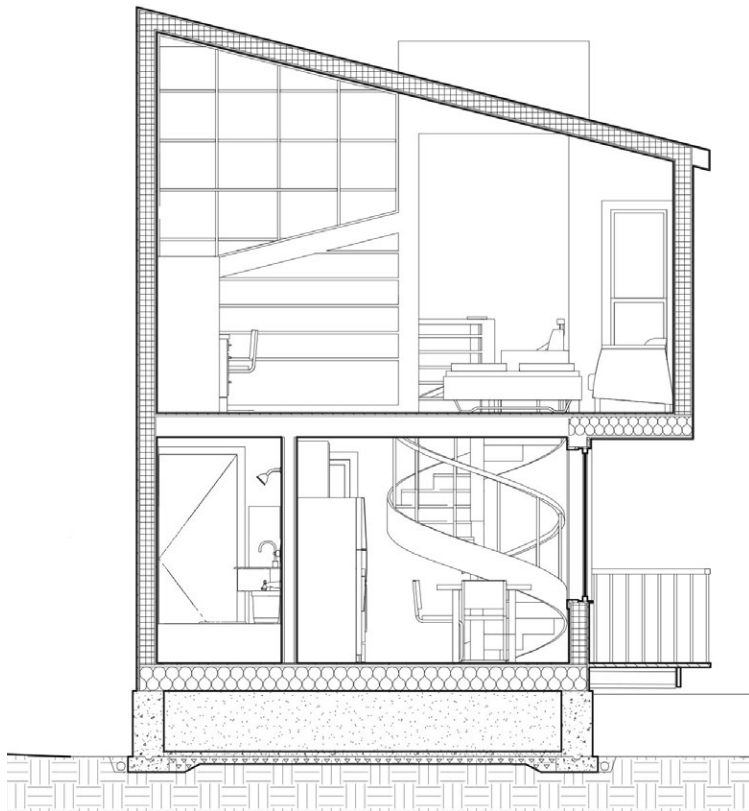


*Northwest Perspective*



*Living room*



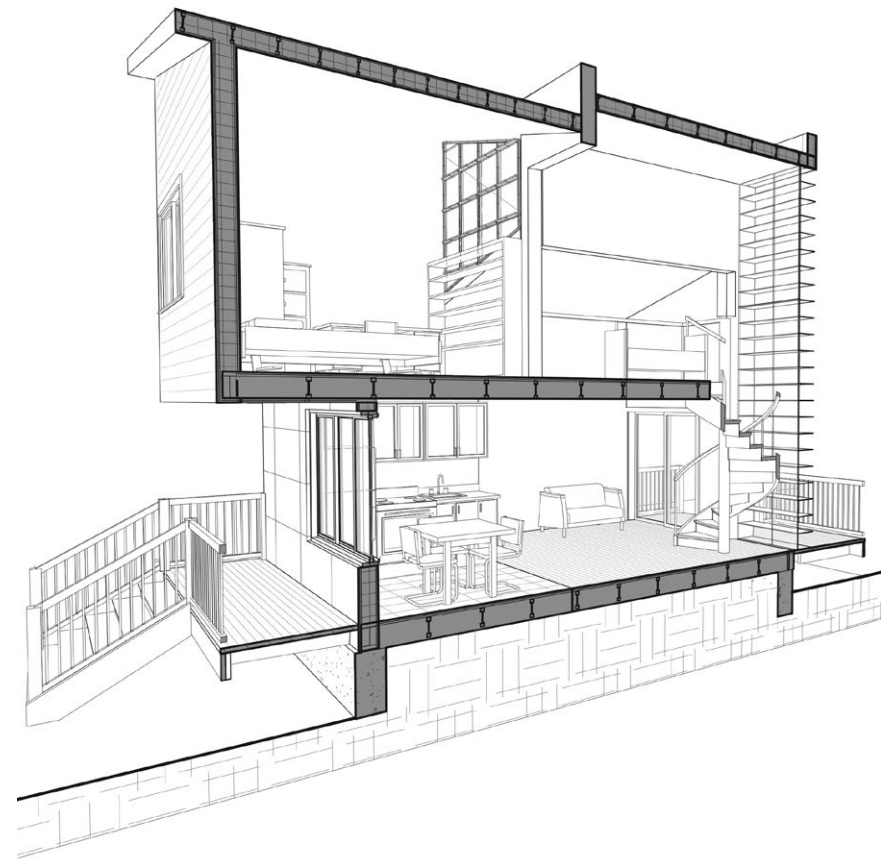


*Transverse Sections*





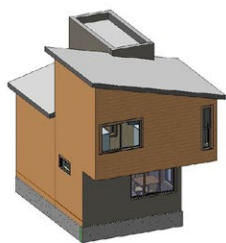
*Second-floor bedroom*



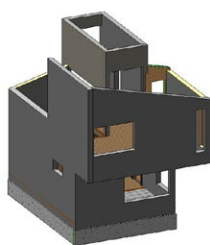
*Longitudinal Sectional Perspective*



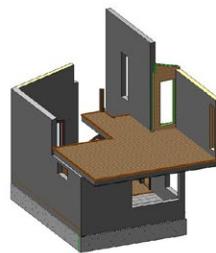
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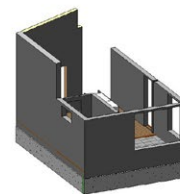
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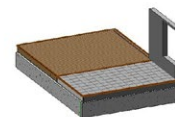
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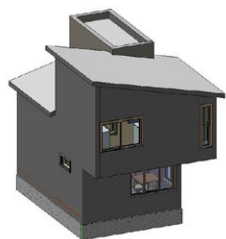
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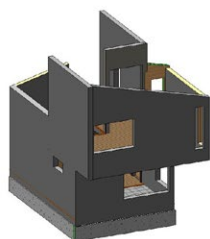
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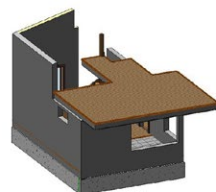
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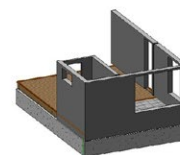
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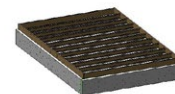
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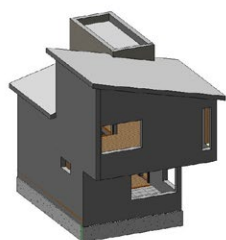
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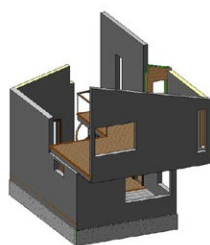
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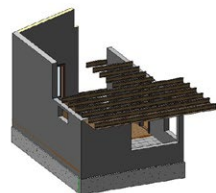
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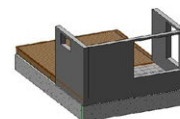
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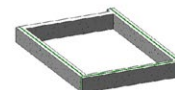
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1

*Assembly sequence*

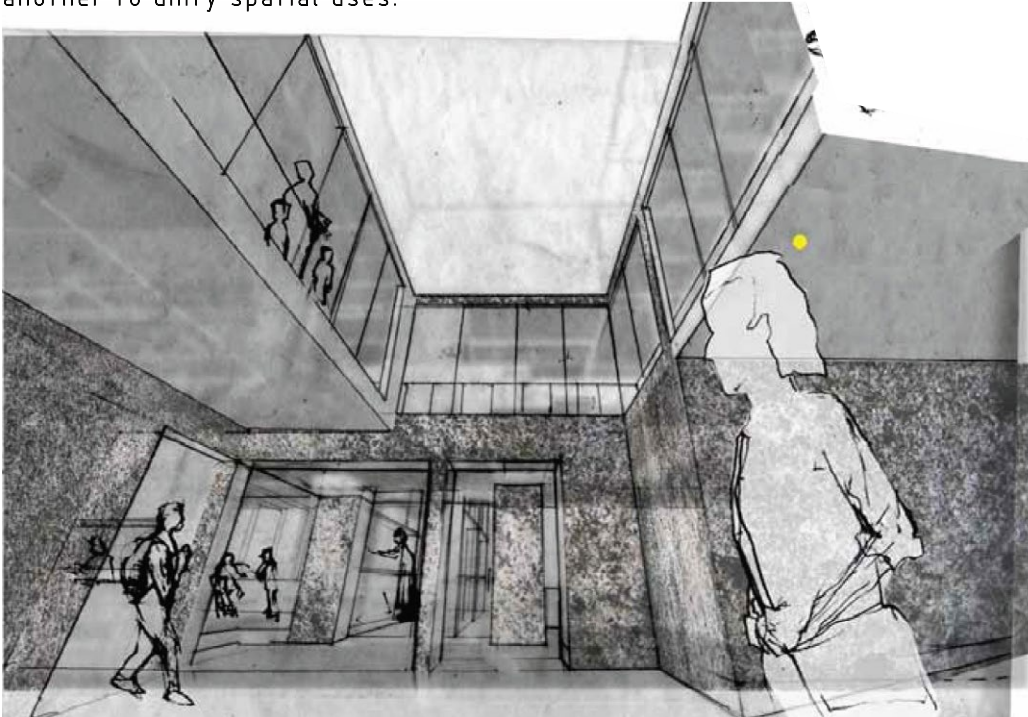


## Art\_Co-op

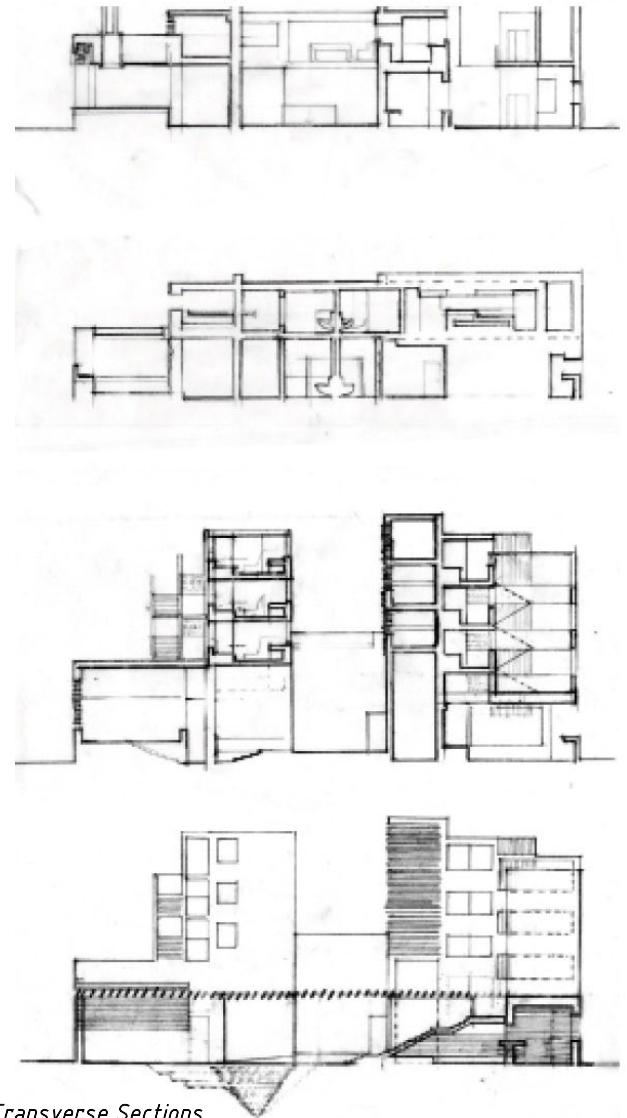
Location: Marfa, TX

Date: 2010

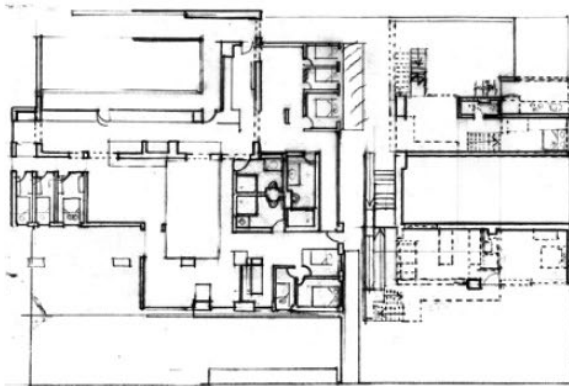
This 45,000 SF complex is programmed with studio spaces, a hotel, galleries, a theater, and co-op living units. Designed to permeate the program into the landscape of the city, the complex blends its borders. Concrete, brick, and rammed earth are conceptually folded betwixt one another to unify spatial uses.



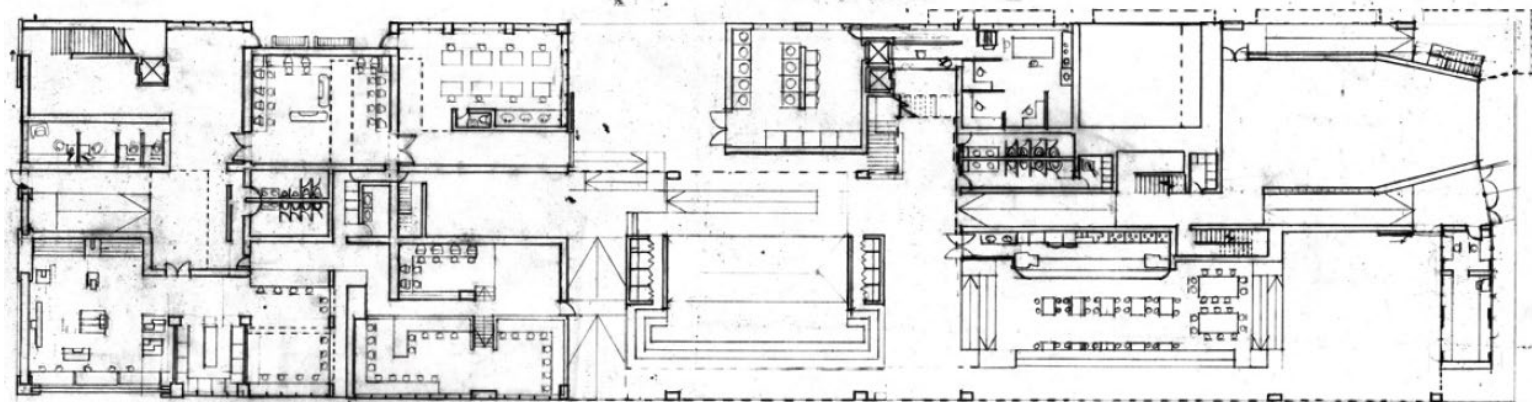
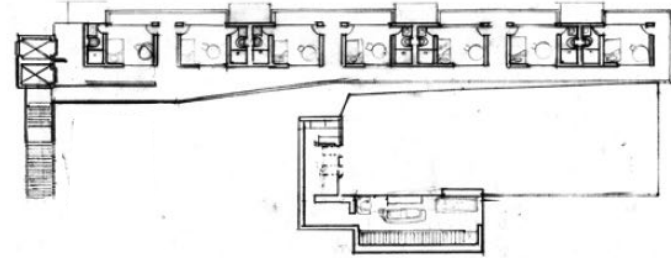
*Studio hall atrium open to the light and air.*



*Transverse Sections*

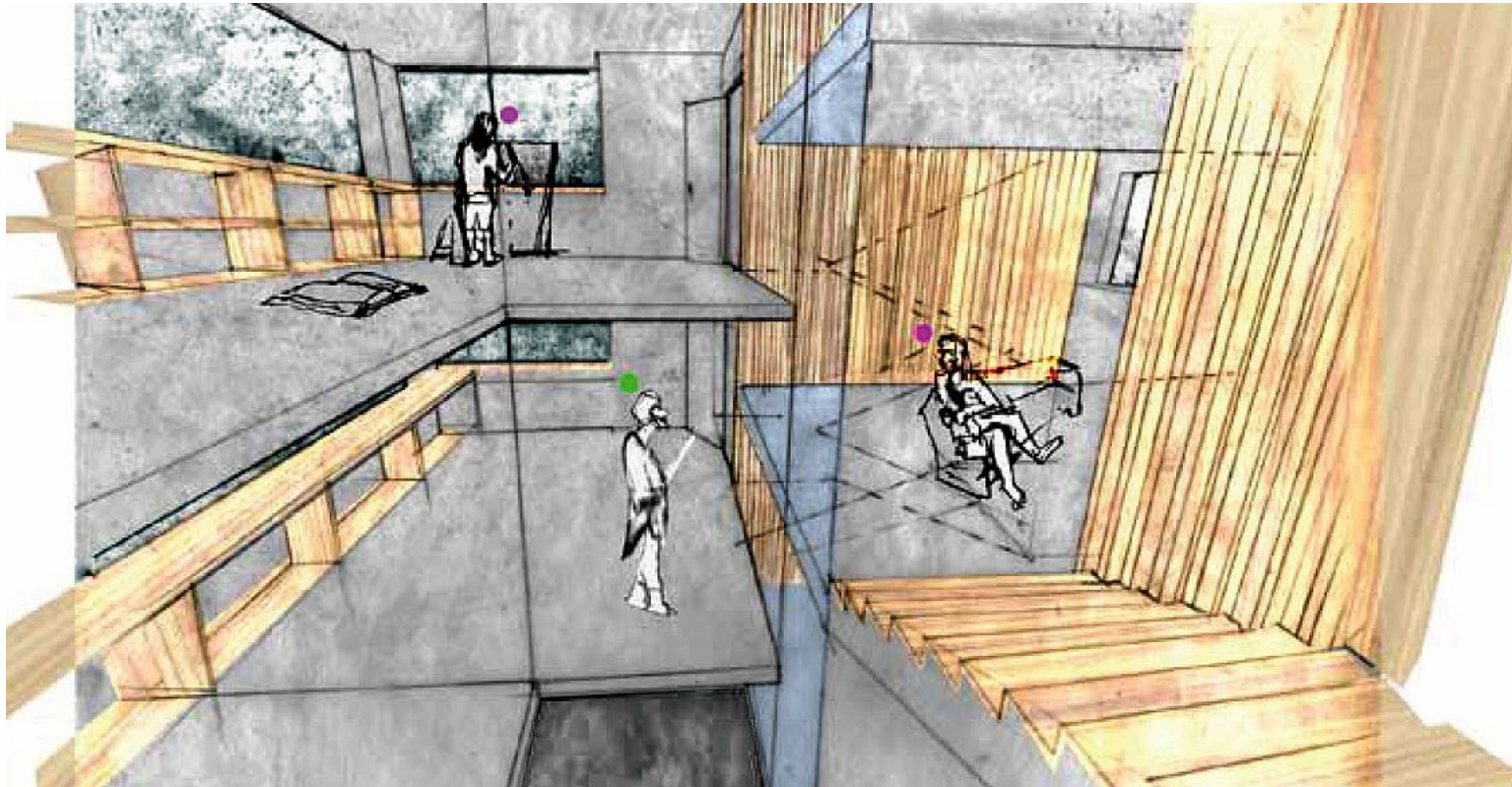


*Second Floor Plan:  
Co-op apartments and hotels*

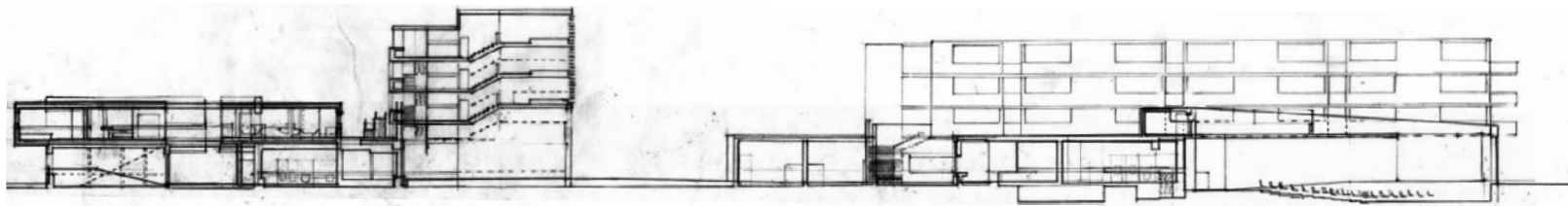


*Ground Floor Plan:  
Studios, classrooms, gallery, cafe, and theater*

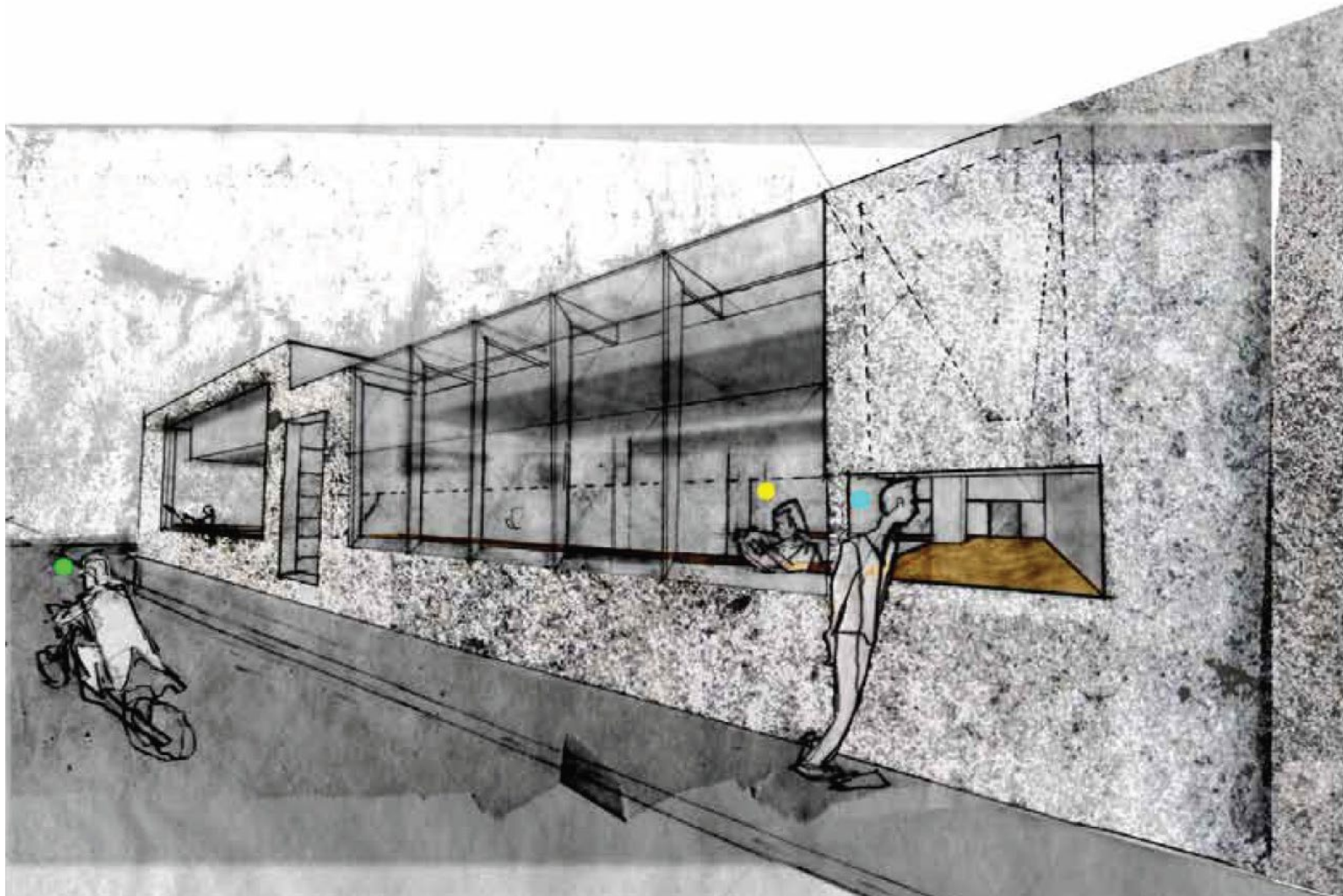




*Offset apartments encourage  
overlapping interaction*



*Longitudinal Section*



*Street side apertures invite pedestrian interest.*





## Carpentry

Location: Boston, MA

Duration: 3 years

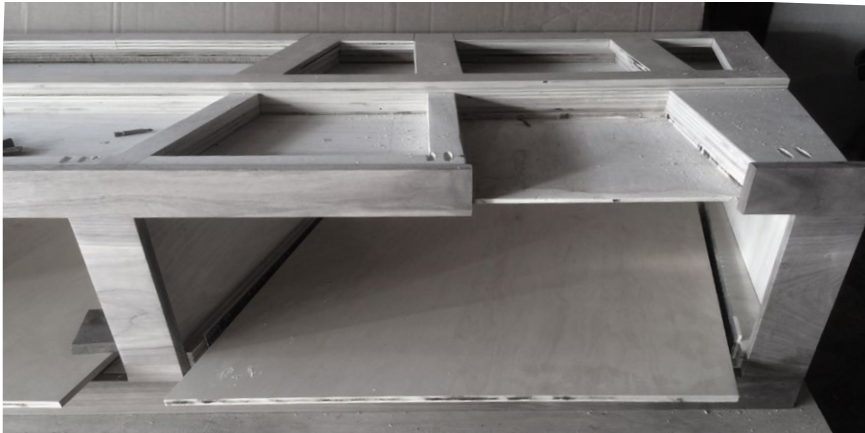
A collection of projects developed in association with Miller Custom Craftsmen, LLC. MCC is dedicated to building custom furniture, restorations, remodels, and ground up construction. Carpenters by trade, MCC collaborates with the AEC industries to produce modern and traditional buildings. I have supplemented my design education with frame to finish and MEP between to strengthen my fluency of materials and building practices. I now have a range of experience within residential, historical, and commercial building.

*Third floor shed dormer construction*





*Skylight installation in third floor remodel*



*Custom 13° one-piece walnut bench with storage + slide out cocktail table*



*Fir timber framed porch with marble top pedestals*