

Problem Statement

Through design, how can different zoning types, such as commercial and industrial, be combined to create a hybrid structure that would complement each zoning type?

Typology

- Destination Brewpub
 - A brewpub is defined as a restaurant-brewery that sells 25% or more of its beer on site. A majority of beer is to be consumed on site. They are allowed to sell "to go" beer to off site accounts.

Theoretical Premise/Unifying Idea

 Approaching an integrated design with a holistic view draws upon multiple influences that, when combined create new design opportunities and solutions.

Project Justification

 With increasing Industries, mixed-use buildings provide new jobs and products. These buildings must be looked at in a holistic sense in order to integrate them into the community.

Multiple Influences

- Research Focus in two main categories
 - Brewing Industry
 - History and tradition of brewing
 - How the brewing process works
 - The current state of the industry
 - Commercial needs
 - Personal experience as a beertender
 - Ray Oldenburg's writing on the importance of space

Brewing History

- The origin of beer dates back thousands of years to the beginning of the agricultural revolution
- The process of making beer has not change much over the years, we have just gained a better understanding of the brewing science
- Four main ingredients are need:
 - Malted Barley
 - Water
 - Hops
 - Yeast

Brewing History

- As cities became industrialized, their water supplies became polluted. Because beer has to be boiled during the processing it meant that beer would be safer to drink than the local water
- By studying the different types of styles we are able to gain an insight into history. Each style is an outward expression of the political, social and economical conditions.

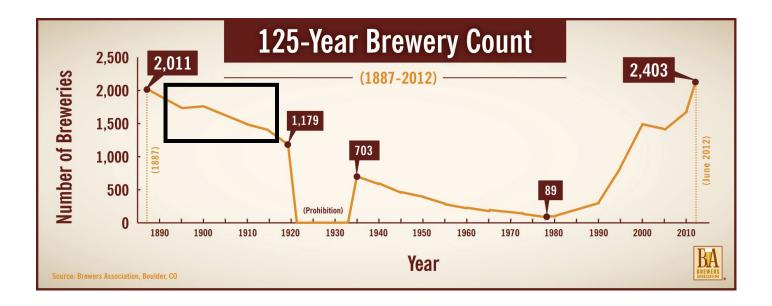
Style Research

• IPA

- The name IPA stands for India Pale Ale. The British breweries started to hop their beers excessively in order for the beer to survive the trip to the outer colonies
- Doppelbock
 - This strong beer was brewed for the monks to drink during their fasts. Because of the strength of the beer, it provided the monks with nutrition.







- German immigrants introduce lager brewing
- Decline of smaller brewers as macro lager brewers fight for market dominance



 Prohibition kills many small breweries and forced many large breweries to create new products like 1919 root beer

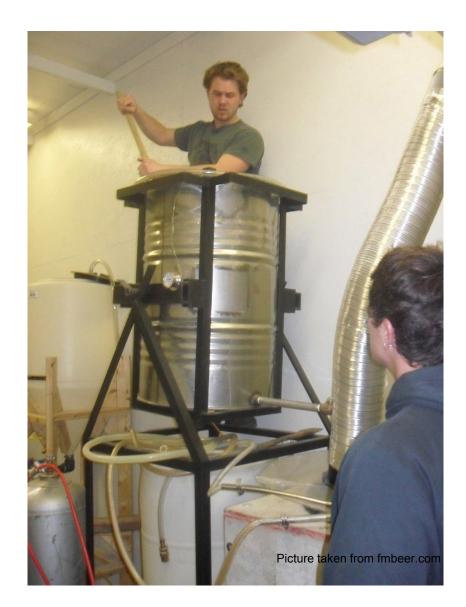


- In 1978 Jimmy Carter makes homebrewing legal
- These early homebrewers pioneer the massive surge of new craft breweries

- The craft brewers provide an estimated 108,440 jobs in the US
- There is roughly 2,416 breweries in the US with 2,360 being classified as craft breweries
- 13,235,000 barrels of craft beer was sold in 2012
 - = about 400,000,000 gallons
- Overall US beer market is 99 billon in sales
 - 200,000,000 barrels of beer

Personal experience in the Industry





Personal experience in the Industry



4 tips for a successful Brewery

- 1 Supply their home market with a quality craft product
- 2 Turnover of kegs both in house and off site accounts
- 3 Gain insightful feed back from patrons
- 4 Supply the community with more than just beer

My take on the Industry

- I feel the craft beer industry will continue to grow as long as there is a passion for the art. Brewing beer is a labor of love much like that of any artist or chef.
- The brewer is a student of the past and present, learning the techniques of yesterday and adapting them for tomorrow. The industry is filled with passionate professionals who care about their communities.

Beertending at JLBeers



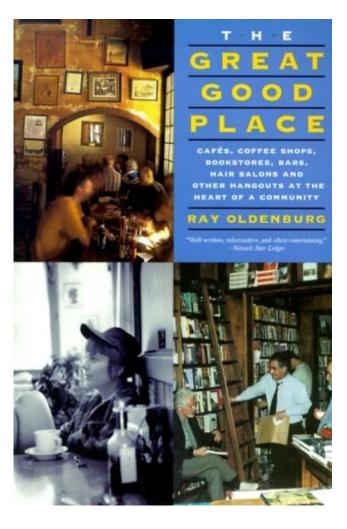
Observations from behind the bar

- Having an active interest in the history and production of beer
- When we step behind the bar that is our stage to shine, all of our worries and problems can be left at the door
- Always have something new to talk about
- Make an extra effort to remember people's names, there is a level of respect that is shown when you address a person my their name



Importance of Space

- Ray Oldenburg
 - The Good Great Place: Cafes, Coffee Shops, Bookstores, Bars, Hair Salons, and Other Hangouts at the Heart of a Community



Importance of Space

- 1st space Home
 - A place of privacy and security
- 2nd space Work
 - A place of formal interactions that consumes a major of our time
- 3rd space Common meeting place
 - A place of unexpected possibilities

Defining the 3rd space

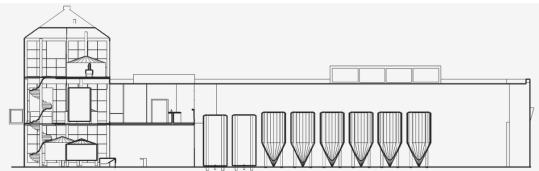
- 3rd space where people can live outside predictable lifestyles of house and work. A space of unexpected possibilities
 - Neutral ground where neither are bound by the rules of hospitality
 - Social Leveling allows people to remove their day-to-day titles and be one with the crowd. Creates informal and simple conversations
 - The space allows for the opportunity of conversations

Case Studies

Great Northern Brewery Whitefish, MT

- They do a great job displaying the brewing process
- The unique experience makes this building a great destination
- The brewery sponsors fun events like the Big Trade and K9 keg pull

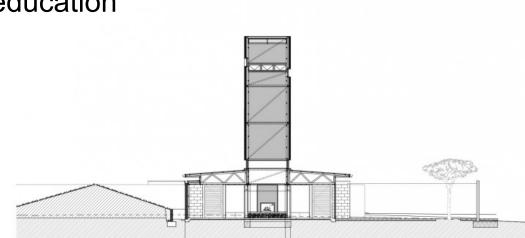




Case Studies

Miranda Winery Oxley, Australia Popov Bass Architects

- The tower helps to draw in on lookers and develops a place of interest
- The building creates a stage for tasting and education

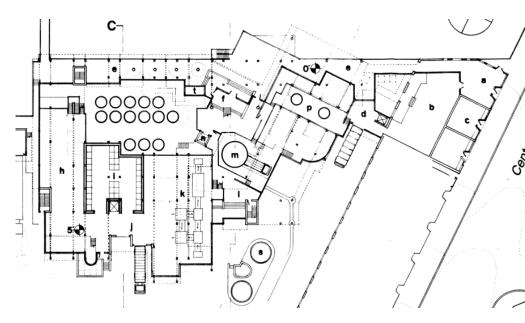


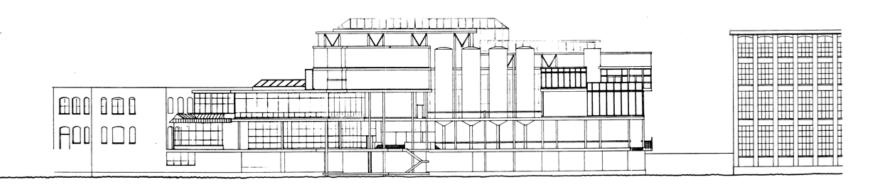


Case Studies

Lowell Small Brewery Thesis project by Andrew Garvin

- Introduced the idea of an Industrial landscape
- Created a valley like layout where patrons could look down upon the brewing process

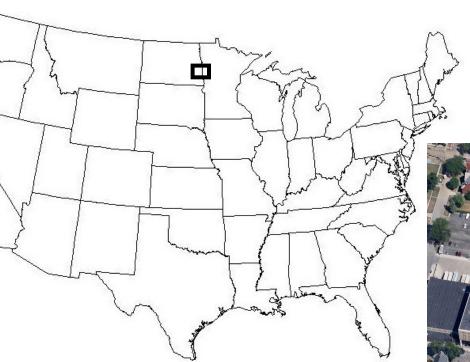


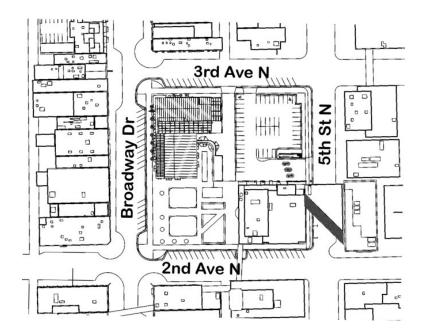


Site

Fargo, North Dakota

Corner of 3rd avenue and Broadway





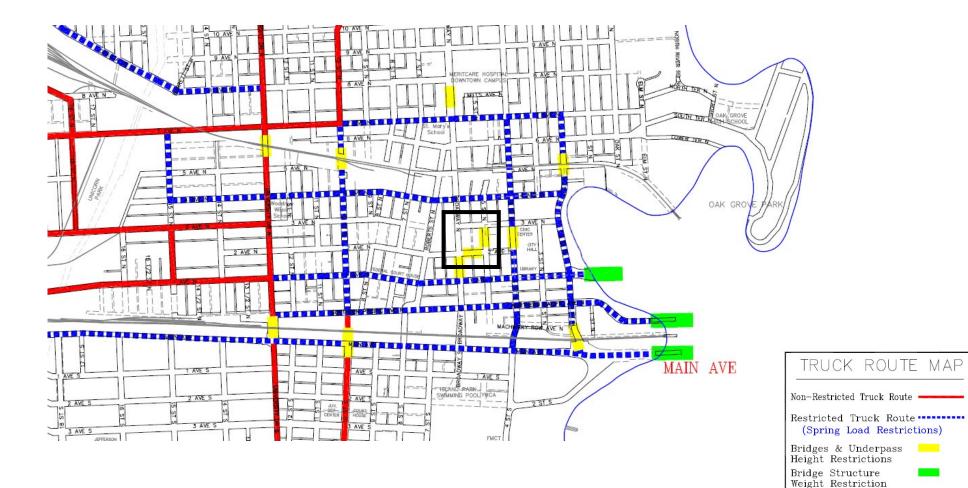


Why this site

- Currently it is a parking lot that acts as a large void on the Broadway street scape
- It has a central location along Broadway
- Has access to alley way to the north
- This site has a prime location for community events



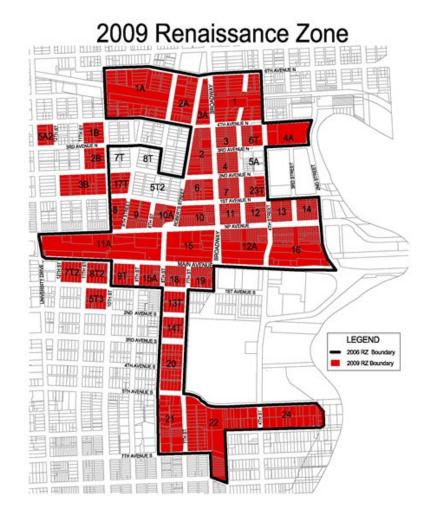
Truck Access



Revised: April 2012

Renaissance Zoning

- The Place to Be Make downtown a key destination for visitor/conventioneers and a key destination for residents
- Ground Floor Uses Reserve ground floor land uses to spaces that will encourage the streets to come to life
- Spruce up the area Encourage artist to use place-based artwork that brings a sense of community pride to downtown Fargo
- Connections and Coordination Coordinate public and private efforts to create strong connections between people and place to create a sense of community



Streets Alive



Cruisin Broadway

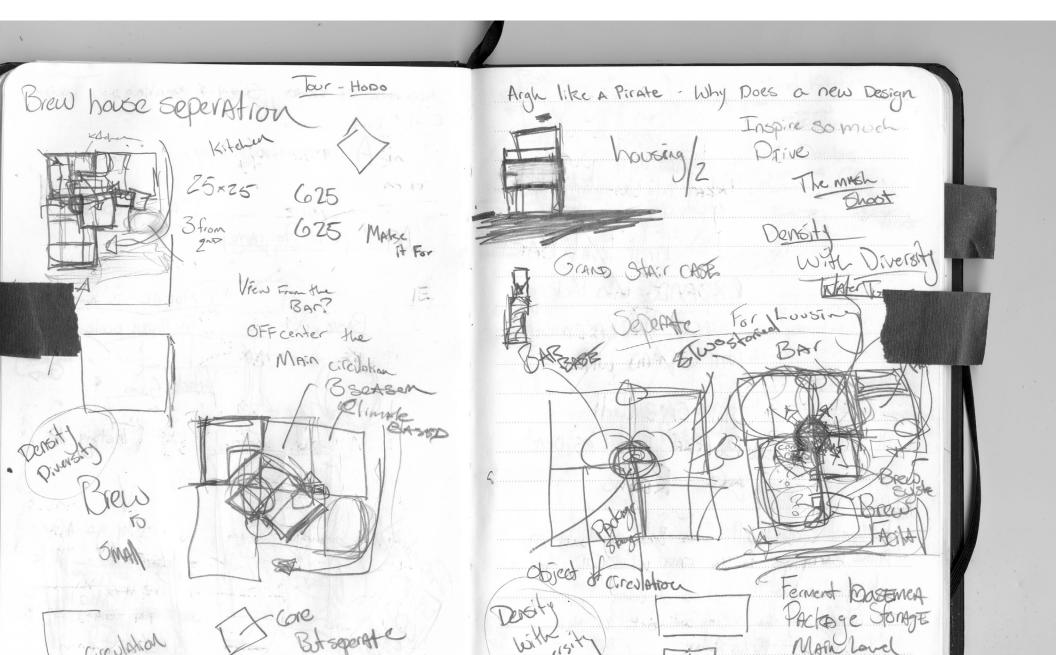


Street Fair

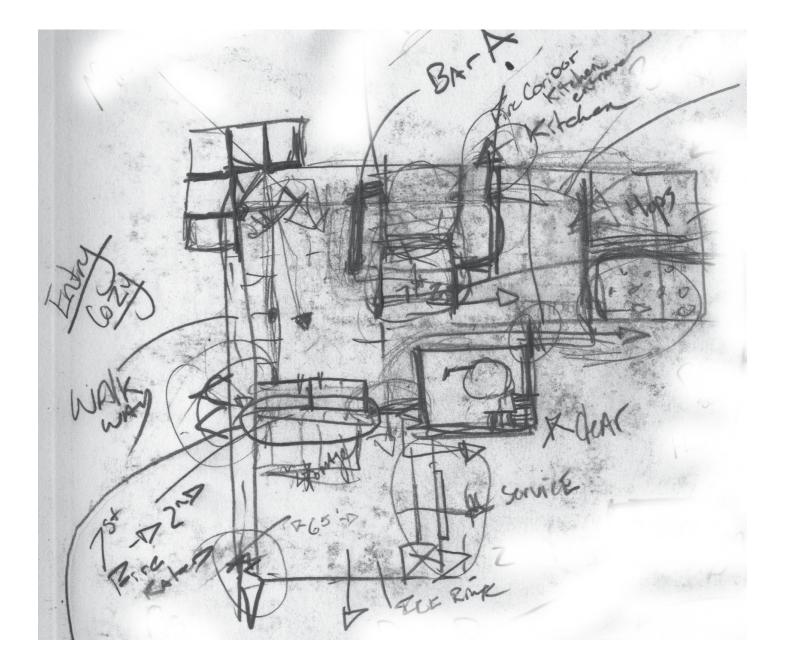


picture taken from swiftlytilt.areavices.com

Early Process Drawing



Early Process Drawing



Midterm Changes



Western Section



Western Facade

Midterm Changes

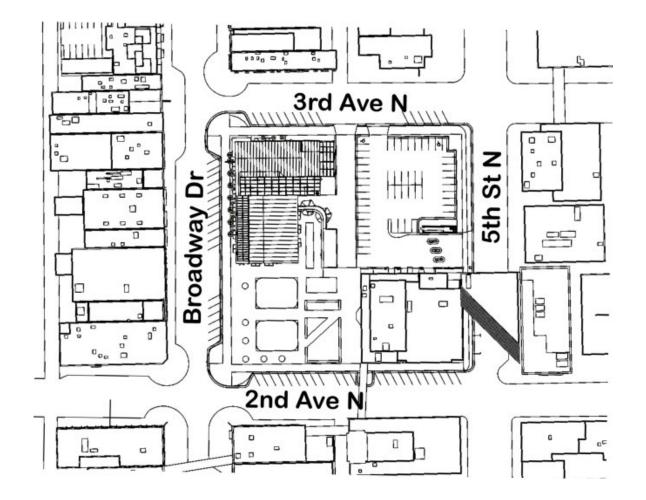


Southern Perspective

Midterm Changes



Site and surrounding buildings



1st Floor

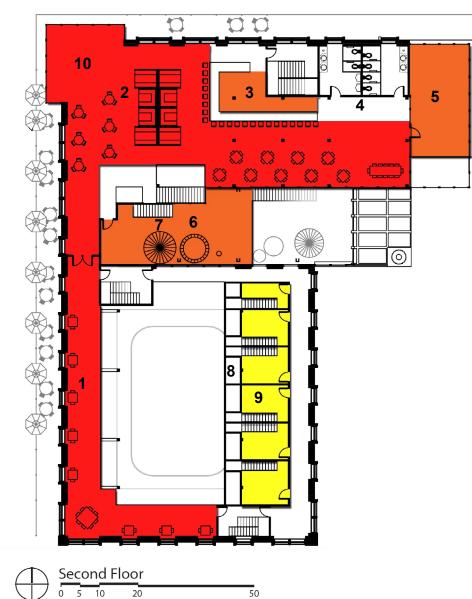
- 1 Walkway 1450 sq.ft
- 2 Bathroom 555 sq.ft
- 3 Lower Dining 2000 sq.ft
- 4 Lower Bar 250 sq.ft
- 5 Kitchen 680 sq.ft
- 6 Keg/Package 900 sq.ft
- 7 Loading Dock 960 sq.ft
- 8 Cold Liquor Tank 200 sq.ft
- 9 Whirlpool Kettle 370 sq.ft

10 - Event space 4745 sq.ft



2nd Floor

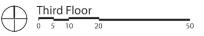
- 1 Mezzanine 1190 sq.ft
- 2 Upper Dining 3100 sq.ft
- 3 Upper Bar 450 sq.ft
- 4 Bathroom 555 sq.ft
- 5 Greenhouse 800 sq.ft
- 6 Boil Kettle 150 sq.ft
- 7 Lauter Tun 180 sq.ft
- 8 Mech. Space 300 sq.ft
- 9 Mudroom 1000 sq.ft
- 10 Observation Space 625 sq.ft



3rd Floor

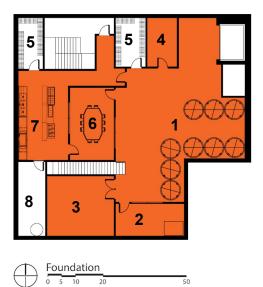
- 1 Residential Space 4800 sq.ft
- 2 Patio Space 1100 sq.ft
- 3 Mash tun 190 sq.ft
- 4 Hot Liquor Tank 150 sq.ft





Basement

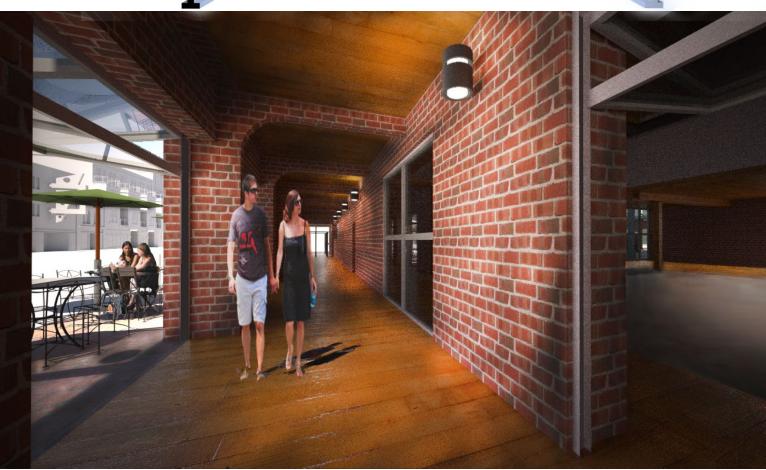
- 1 Fermenters 1050 sq.ft
- 2 Lab Space 210 sq.ft
- 3 Grain Room 400 sq.ft
- 4 Office 160 sq.ft
- 5 Cold Storage 265 sq.ft
- 6 Employee Lounge 350 sq.ft
- 7 Prep. Space 480 sq.ft
- 8 Mech. Space 500 sq.ft



Walkway







Lower Bar

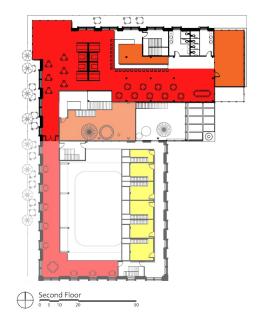


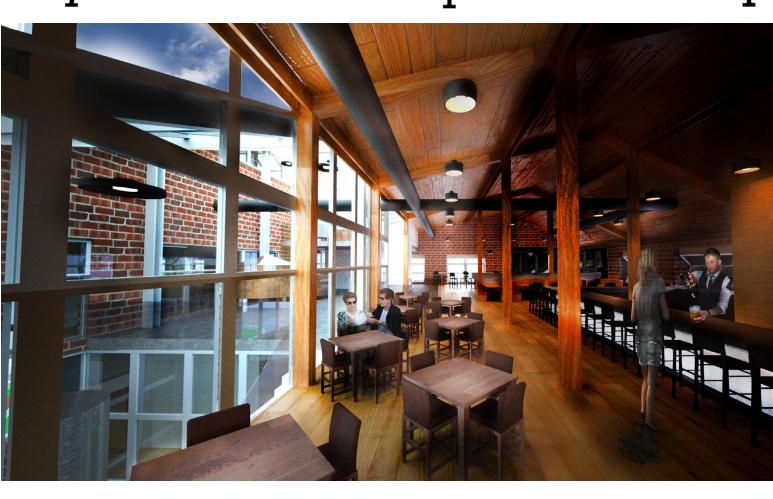




Upper Bar

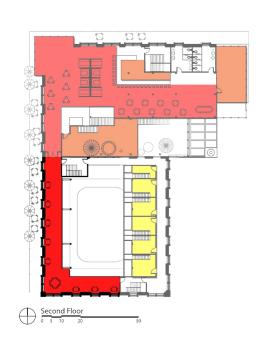


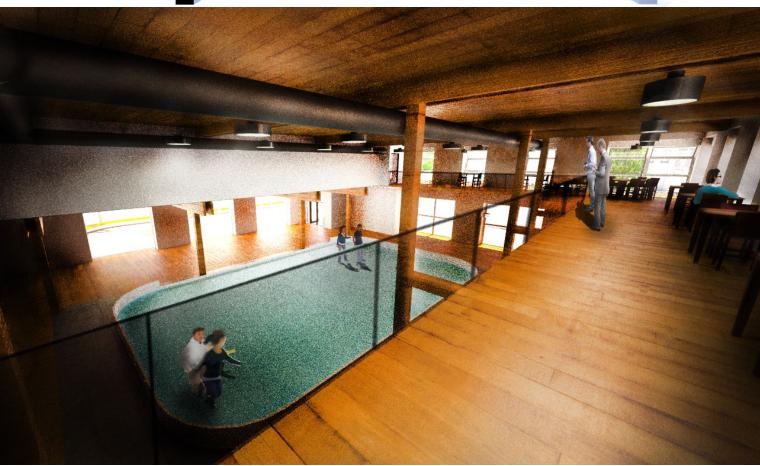




Mezzanine

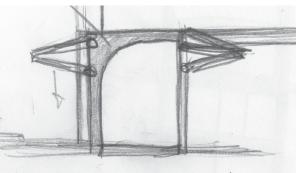




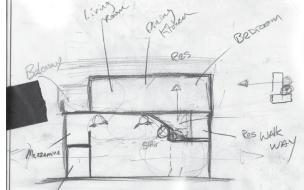






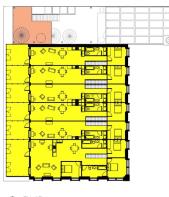






Residential Unit

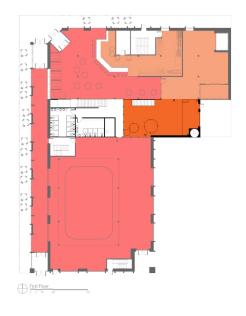


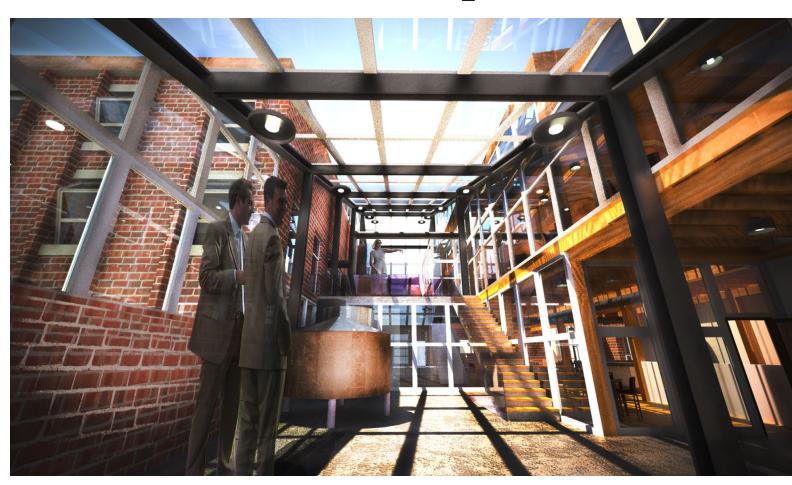


Third Floor

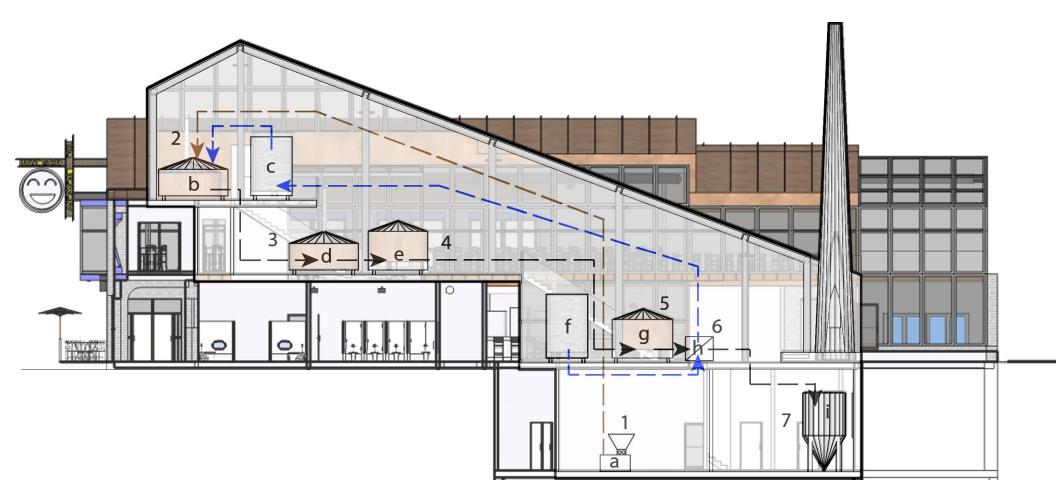
Brew House



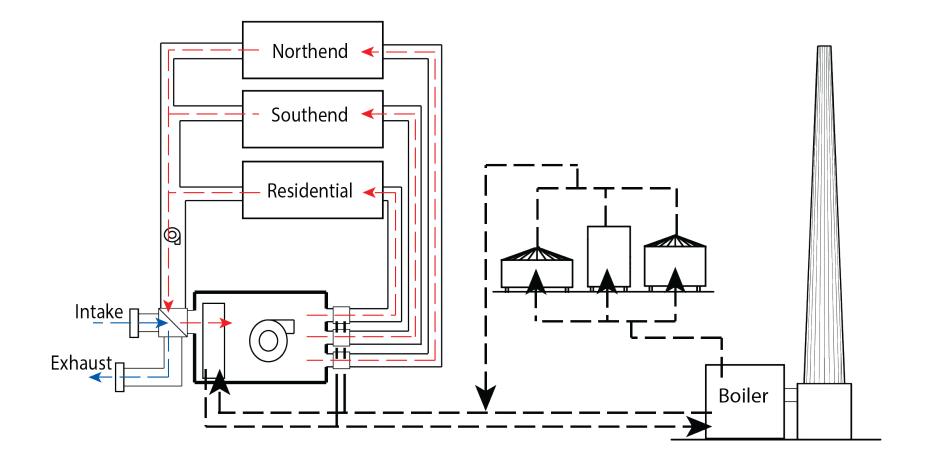


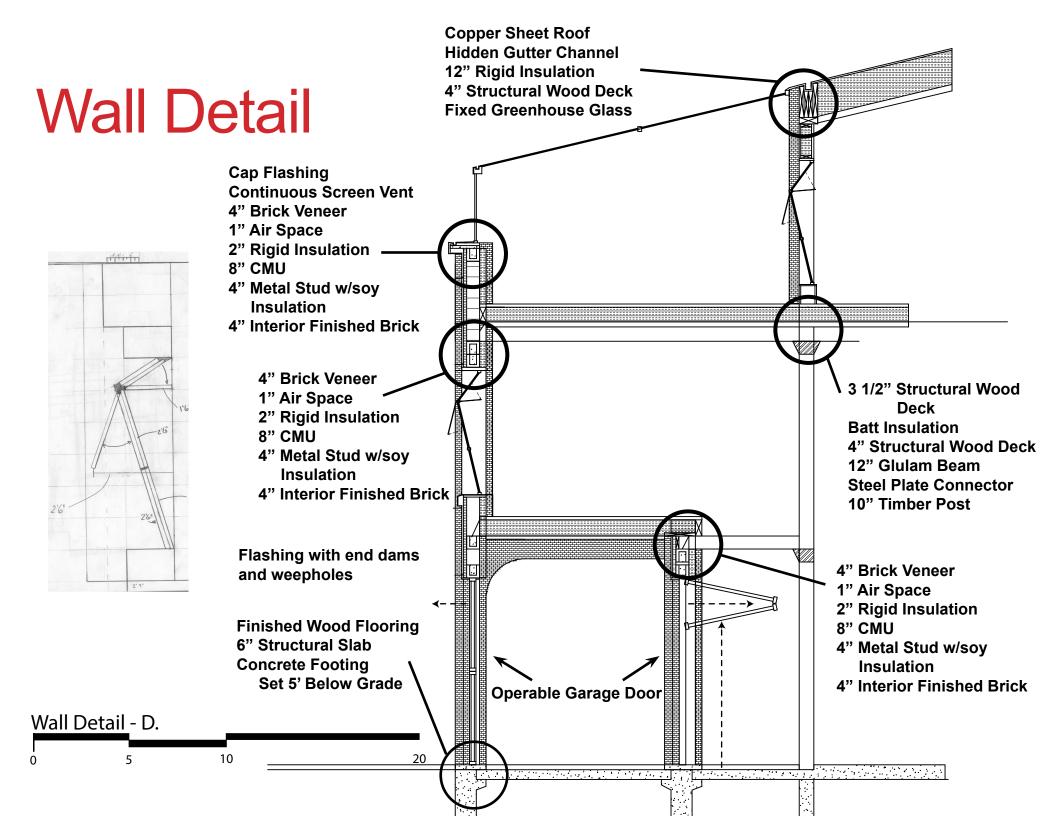


How to Brew



HVAC Integration











Hübschl

E4

-14

0