



Richard  
Dempsey  
Selected Works

## education

[The Savannah College of Art and Design](#)  
BFA Architecture - 2015

[The Georgia Institute of Technology](#)  
M.Arch - 2020

## awards / publications

[Georgia Tech Academic Scholarship](#) 2018-2020

[Portman Prize Publication](#) 2019

[ACSA Conference: The Ethical Imperative](#) 2018  
Presentation of Megalith: A Deterrent. Presented  
in Architecture in the Expanded Field Panel.  
(Denver, CO March 2018)  
with Jean Jaminet and Zach Beale

[Isomorphism](#) 2017

[SCAD CLC Residential Studio](#) 2014  
Competition winning studio project for  
residential design

## academic experience

[Kent State University](#) 2017  
Invited guest juror and guest presenter

[The University of Georgia](#) 2017  
Invited speaker to the UGA Sustainability  
Certificate Program.

[Kennesaw State University](#) 2017  
Guest Reviewer

## skills

Rhino, AutoCAD, Maya, Revit, Z Brush, Grasshopper,  
Fologram (construction / fabrication via Hololens and AR),  
Adobe Creative Suite, Microsoft Office, 3DS Max, KeyShot,  
Physical Model Making, Digital and Traditional  
Fabrication Techniques, Drawing, Painting,  
Art Architectural and Design Theory.

## references

Gerald Cowart FAIA : Owner, Cowart Group Architects  
phone: 912.658.2494 email: [gcowart@cowartgroup.com](mailto:gcowart@cowartgroup.com)

Jean Jaminet Professor / Collaborator  
phone: 212.786.2065 email: [jjamninet@kent.edu](mailto:jjamninet@kent.edu)

## work experience

[Georgia Tech Digital Fabrication Lab](#)  
Shop Technician and Fabricator : Aug 2019 - Present  
Aided students and faculty with development  
and creation of digital and traditional fabrication projects

[Morphosis, NYC](#)  
Georgia Tech Practicum Program 2019  
Competition development for Brighton College in UK.

[Greg Harrell Architects](#) atlanta, georgia  
Designer : Jan 2019 - Dec 2020  
Design and development of residential projects of varying scale.  
Taken a lead design role on projects from initial concept  
design through contract documents.

[Hansen Architects](#) savannah, georgia  
Designer : Feb 2018 - Aug 2018  
Design and documentation of luxury hospitality, residential,  
higher education, historic preservation, and re- use projects.

[Bork Design](#) athens, georgia  
Designer : Mar 2016 - Mar 2017  
Design and documentation of mixed use, adaptive re-use, and  
residential projects.

[Cowart Group Architects](#) savannah, georgia  
Intern : Jun 2014 - Mar 2016  
Design and documentation of luxury residential projects from initial  
site analysis through contract documents.

[SCAD Museum of Art](#) savannah, georgia  
Docent 2013 - 2014  
Informed visitors about current exhibitions, conducted guided tours  
and aided in exhibitions install work and curation after exhibiting  
interest in museum work and exhibition design.

Amy Landesberg : Sculptor / Architect / Collaborator  
phone: 404.797.9562 email: [al@amylandesberg.com](mailto:al@amylandesberg.com)

Brian Bell : Principal BLDGS  
email: [bb@bldgs.org](mailto:bb@bldgs.org)

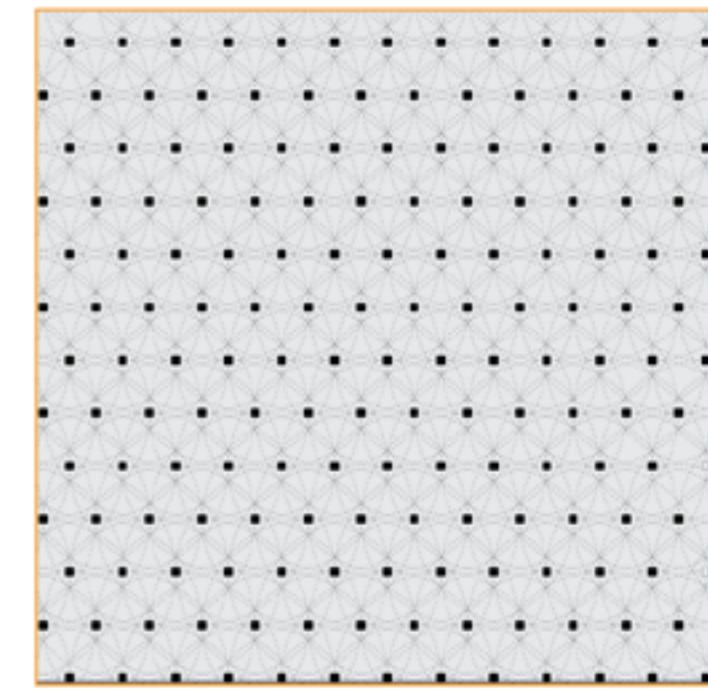
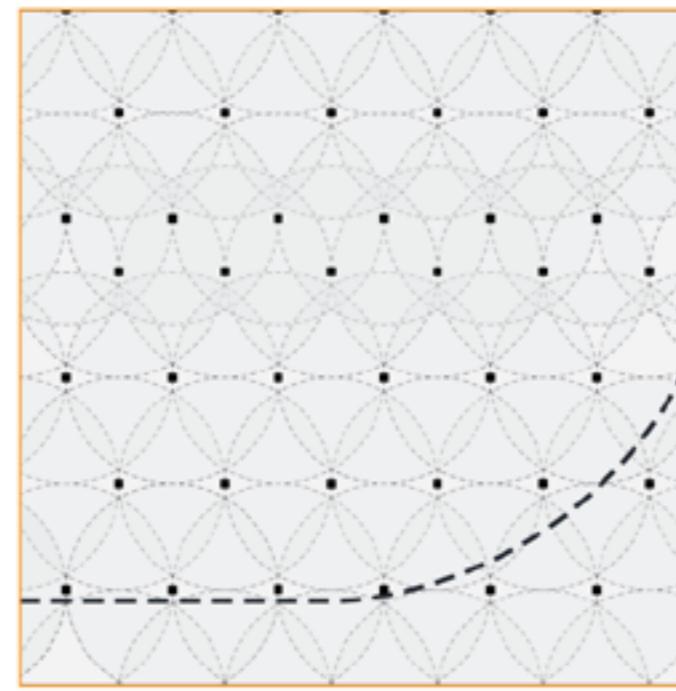
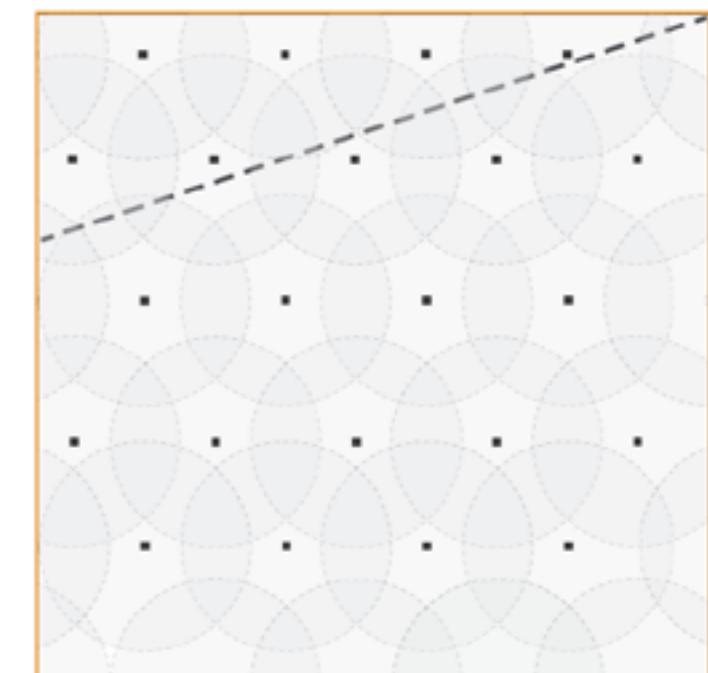
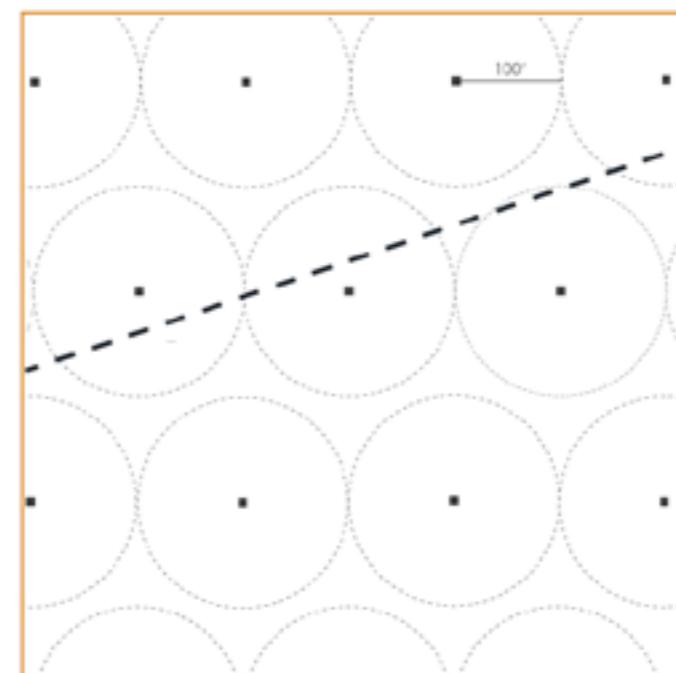
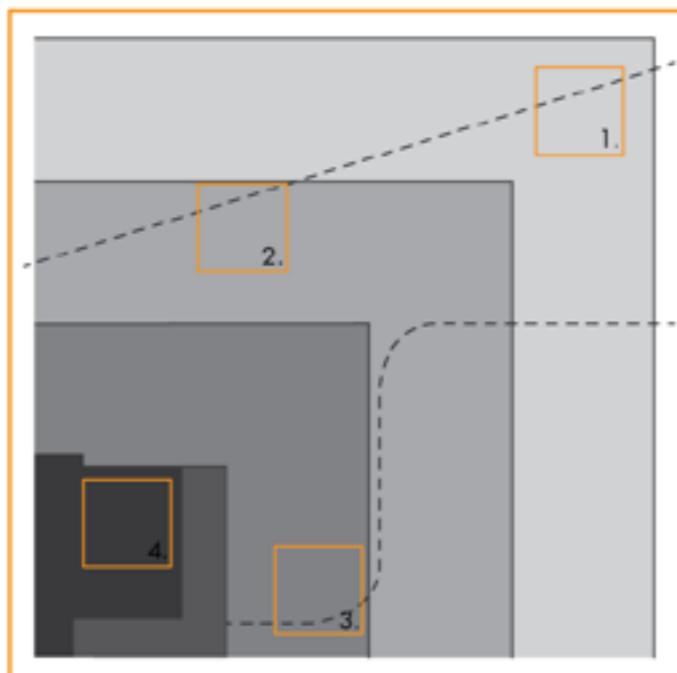
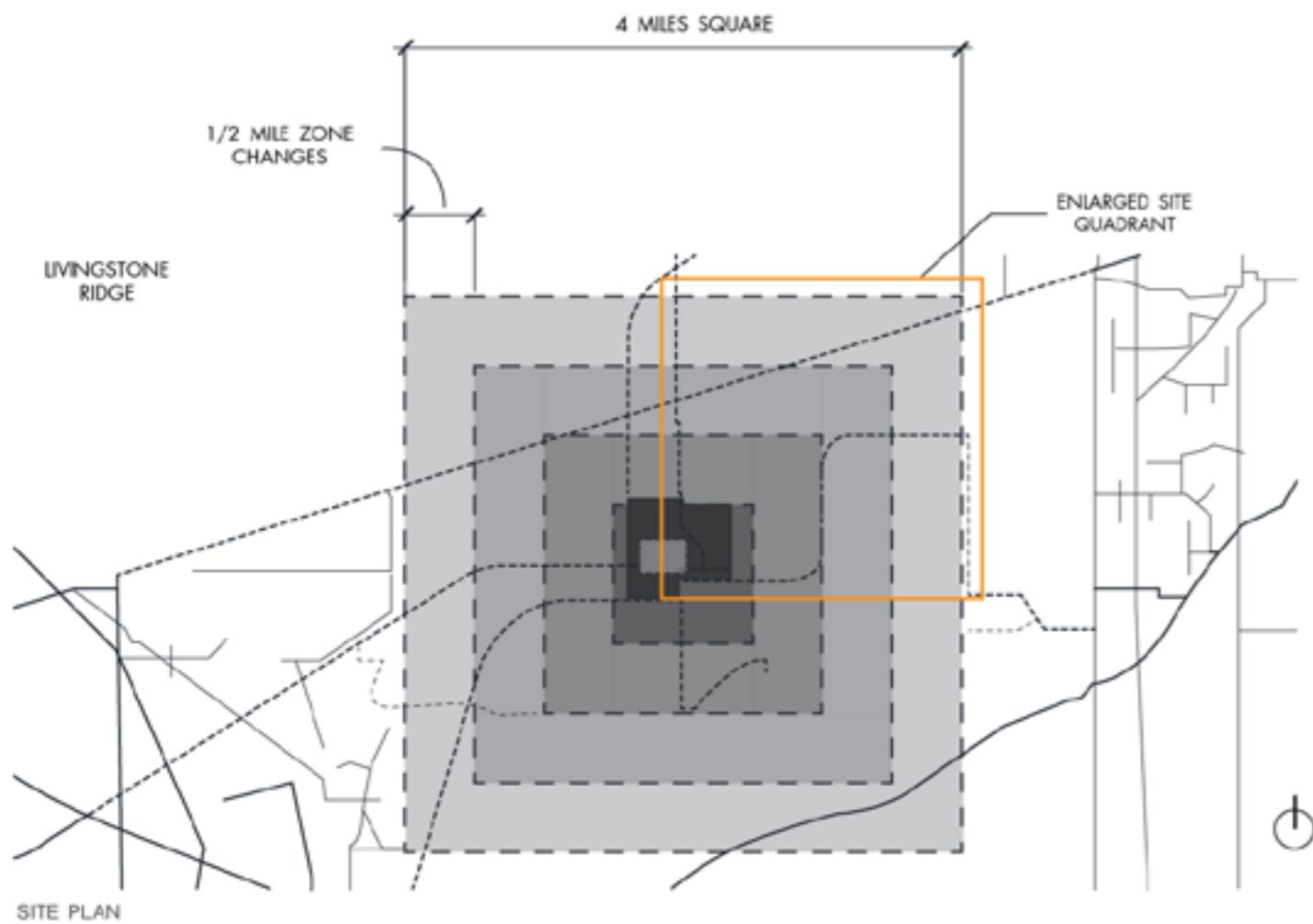
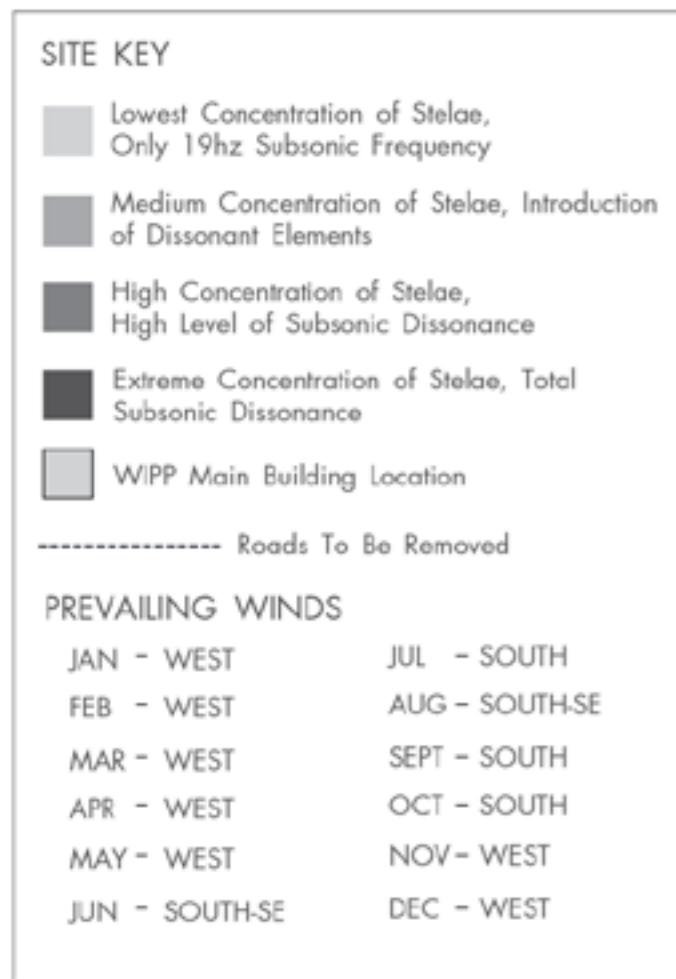
# Megalith : A Deterrent

presented at ACSA The Ethical Imperative Conference  
carlsbad, new mexico

- team:  
richard dempsey - design, visualization  
zach beale - visualization  
jean jaminet - critic

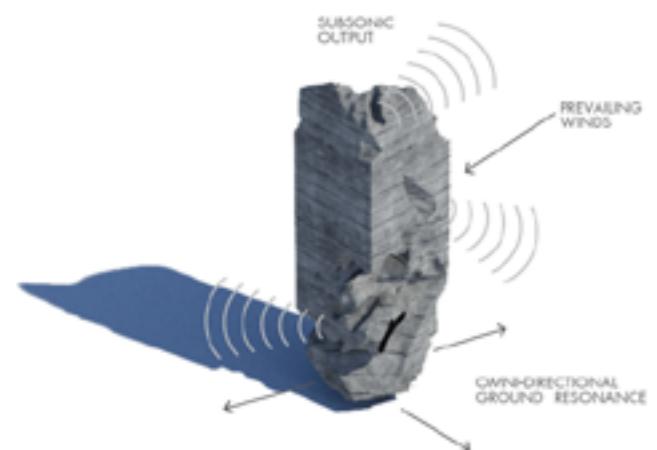
Designed as a deterrent to keep people away from the WIPP (waste isolation pilot plant) site in Carlsbad, New Mexico for the next 10,000 years we explored ways to deter while circumventing direct communication. Communication with humans that far in the future will be impossible through language, so we chose to use a physiological approach using 19hz (the fear frequency) resonance to cause irrational fear from those attempting to visit the site. This fear will allow for the site to worm its way into local folklore allowing the project to become known as a "bad place" in the future.



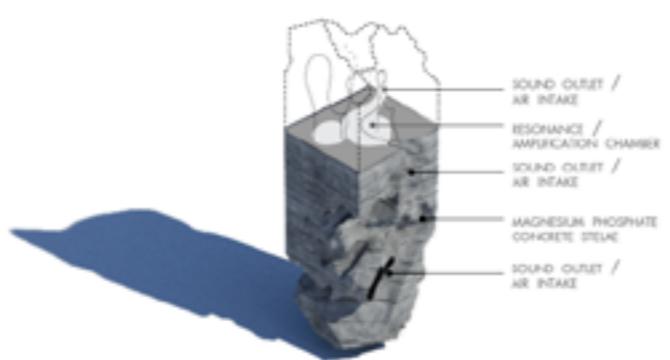




STELAE DETAIL



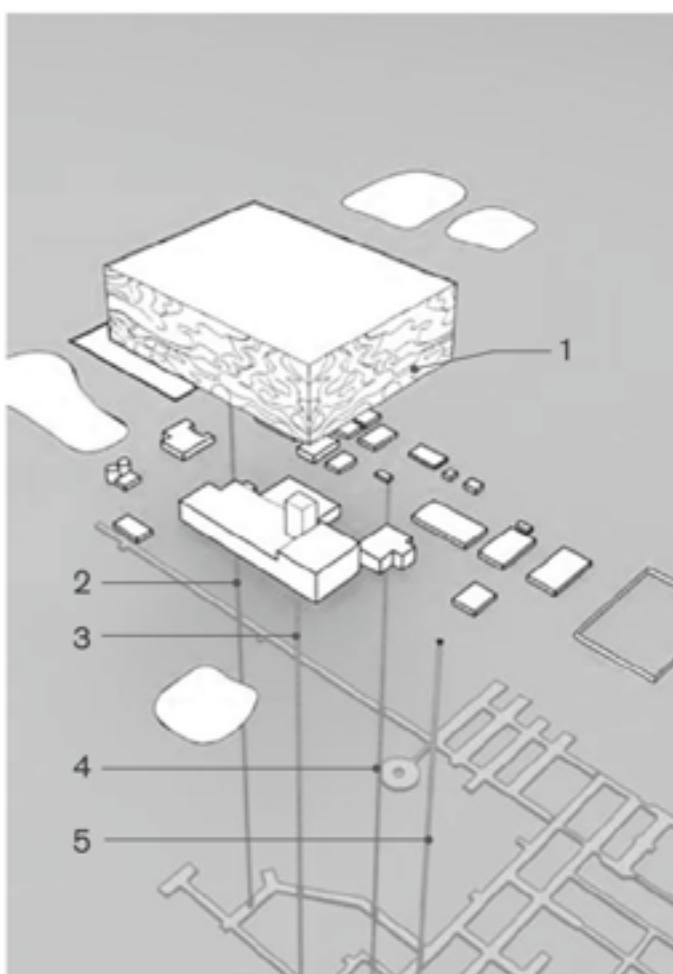
STELAE DETAIL OF RESONANCE CHAMBER THROUGH INTAKE / OUTLET



STELAE FIELD AND MIRRORED SARCOPHAGUS

DRAWING KEY

- 1.) SYNTHETIC CRYSTAL MIRROR CLADDING (TO RESIST SCRATCHING)
- 2.) WIPP INTAKE SHAFT
- 3.) WIPP WASTE SHAFT
- 4.) WIPP SALT HANDLING SHAFT
- 5.) WIPP EXHAUST SHAFT

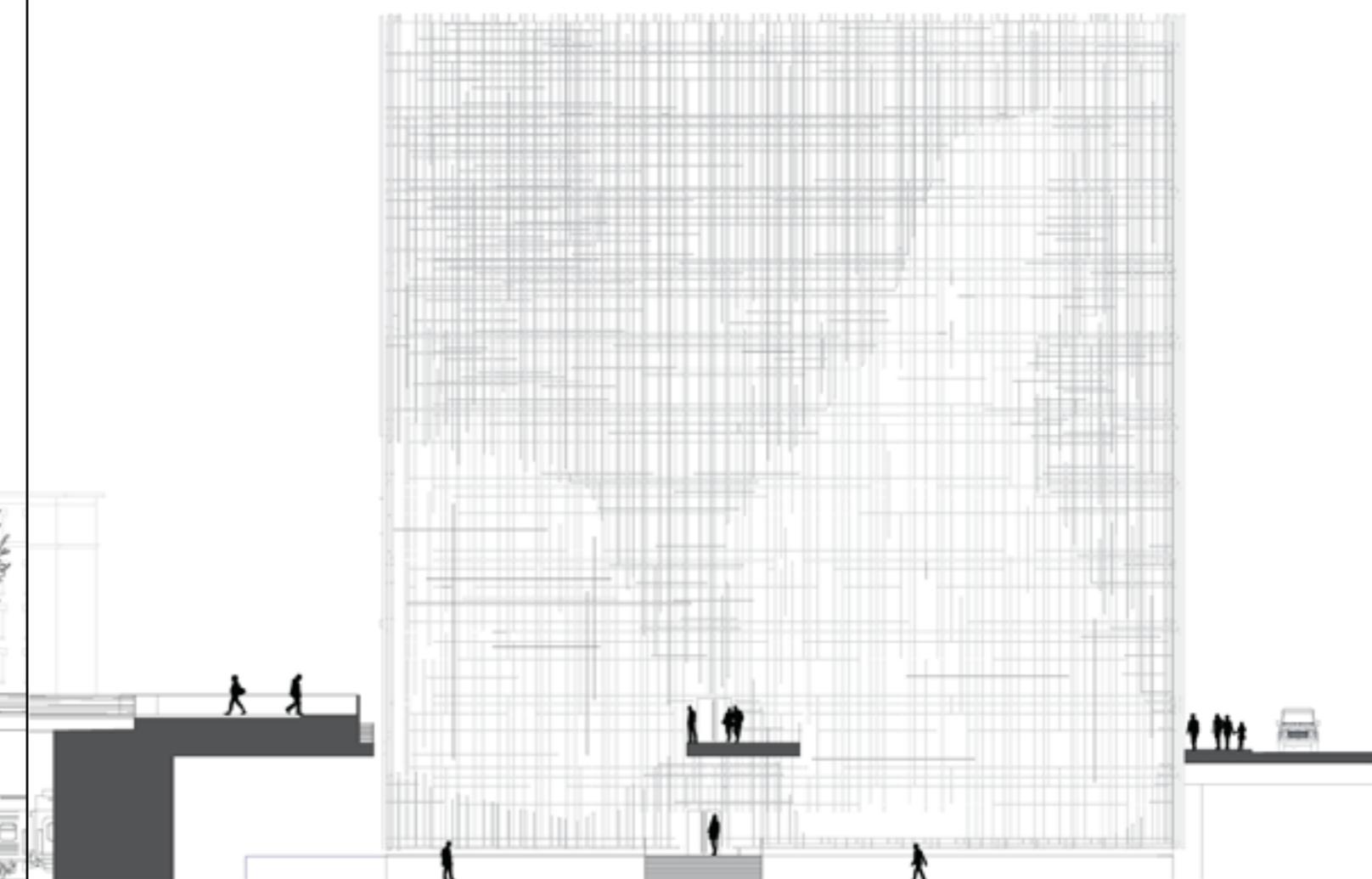
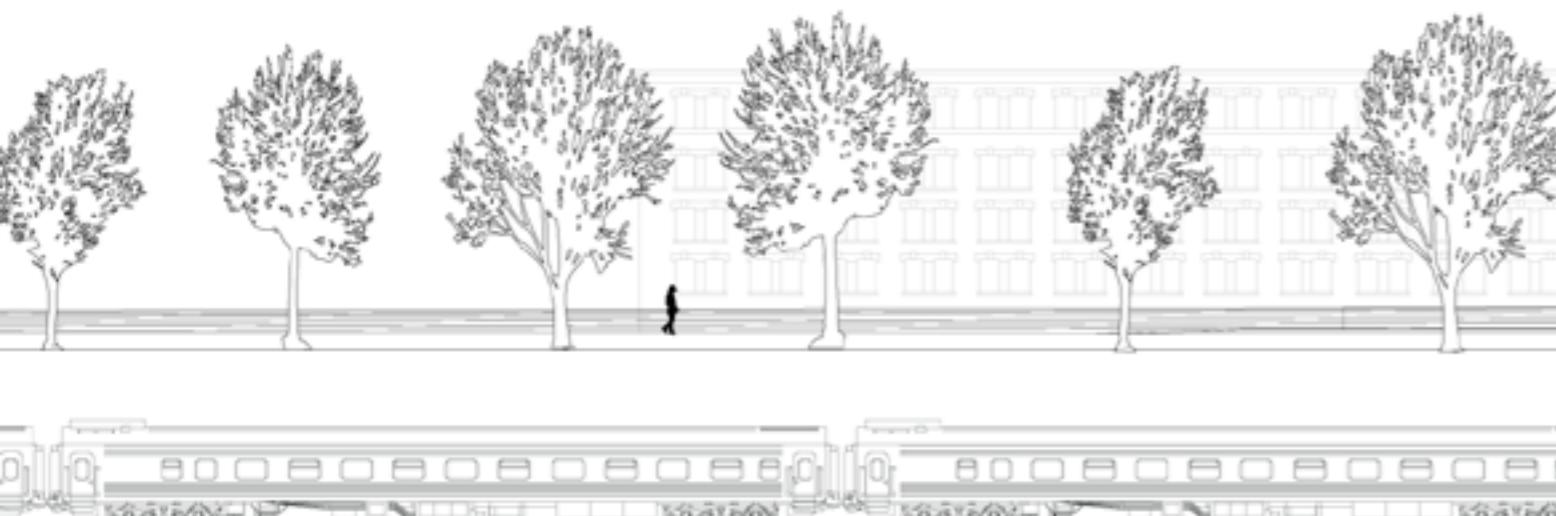


SARCOPHAGUS AND UNDERGROUND NUCLEAR STORAGE

# 55 Foundy Street

boston massachusetts  
professor : david yocom  
competition critic : alan organschi

Sited in south Boston, Massachusetts this mixed-use project focuses on local community engagement and experimentation with CLT (cross laminated timber). This area of south Boston is a food desert, and the implementation of a market on the ground level will alleviate this pressure on the neighborhood. On the second level a public library annex, and 40 micro housing units above. Structurally, instead of resorting to the expected post and beam approach indicative of CLT construction I wanted to experiment with a new way of building using a series of strategically placed shear walls and a lattice-work of transfer beams above to create a porous architectural gesture. This approach was translated into the exterior through a heavily articulated second skin for shading allowing the language to be understood at multiple scales.

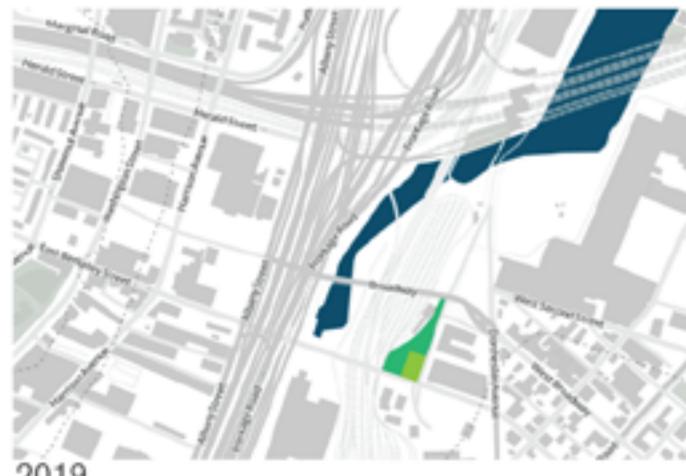


## MASS TIMBER CARBON SEQUESTRATION FOR PROJECT

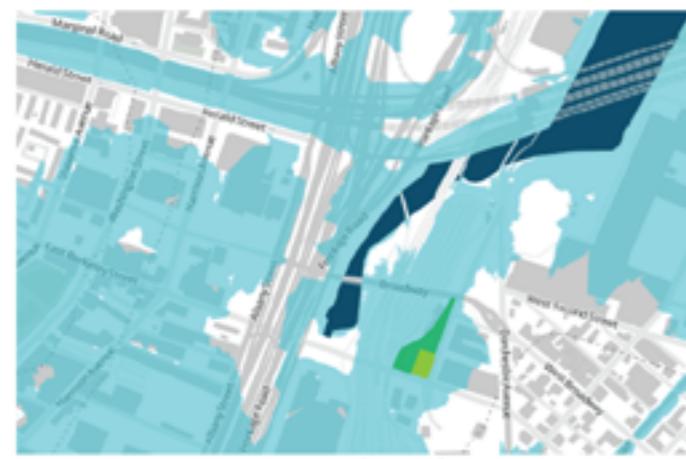
CLT / TIMBER VOLUME - - - TOTAL VOLUME 181,278 CUBIC FEET  
CLT / TIMBER CARBON STORAGE - - - 675KG CO<sub>2</sub> PER M<sup>3</sup> (43LBS FT<sup>3</sup>)

TOTAL PROJECT CARBON STORAGE **3,897** CUBIC TONS

## PROJECTED SEA LEVEL RISE



2019



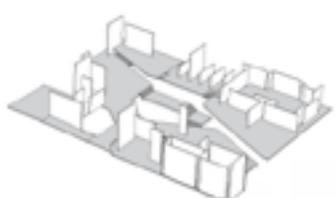
2050 MAJOR STORM SURGE (SANDY)

THE BUILDING IS RAISED ON A PLINTH TO SIX FEET ABOVE STREET LEVEL TO INCREASE BUILDING RESILIENCE TO PROJECTED SEA LEVEL RISE OVER THE NEXT 80 YEARS. MAJOR STORM SURGE EVENTS USE SANDY AS A REFERENCE POINT FOR ANOMALIES



2100 MAJOR STORM SURGE (SANDY)

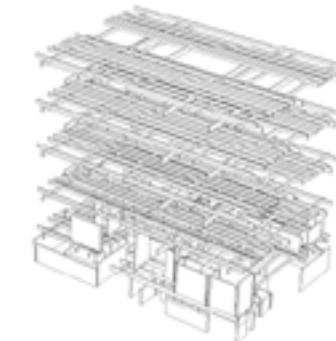
## STRUCTURE AND CIRCULATION DIAGRAMS



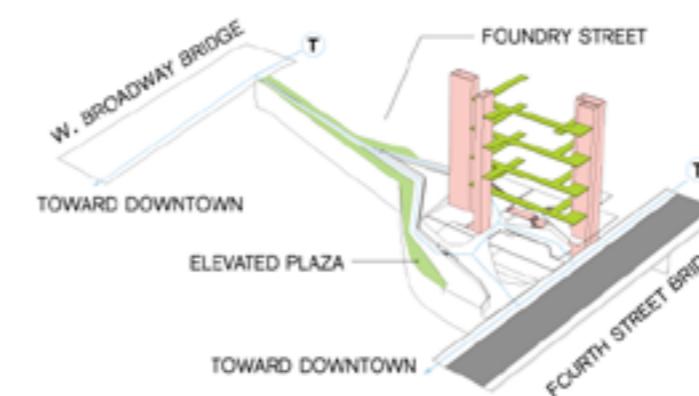
### MARKET LEVEL STRUCTURAL WALLS



### LIBRARY LEVEL STRUCTURAL WALLS



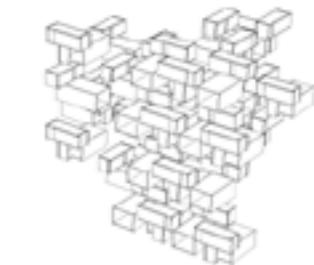
### TRANSFER BEAM AGGREGATION

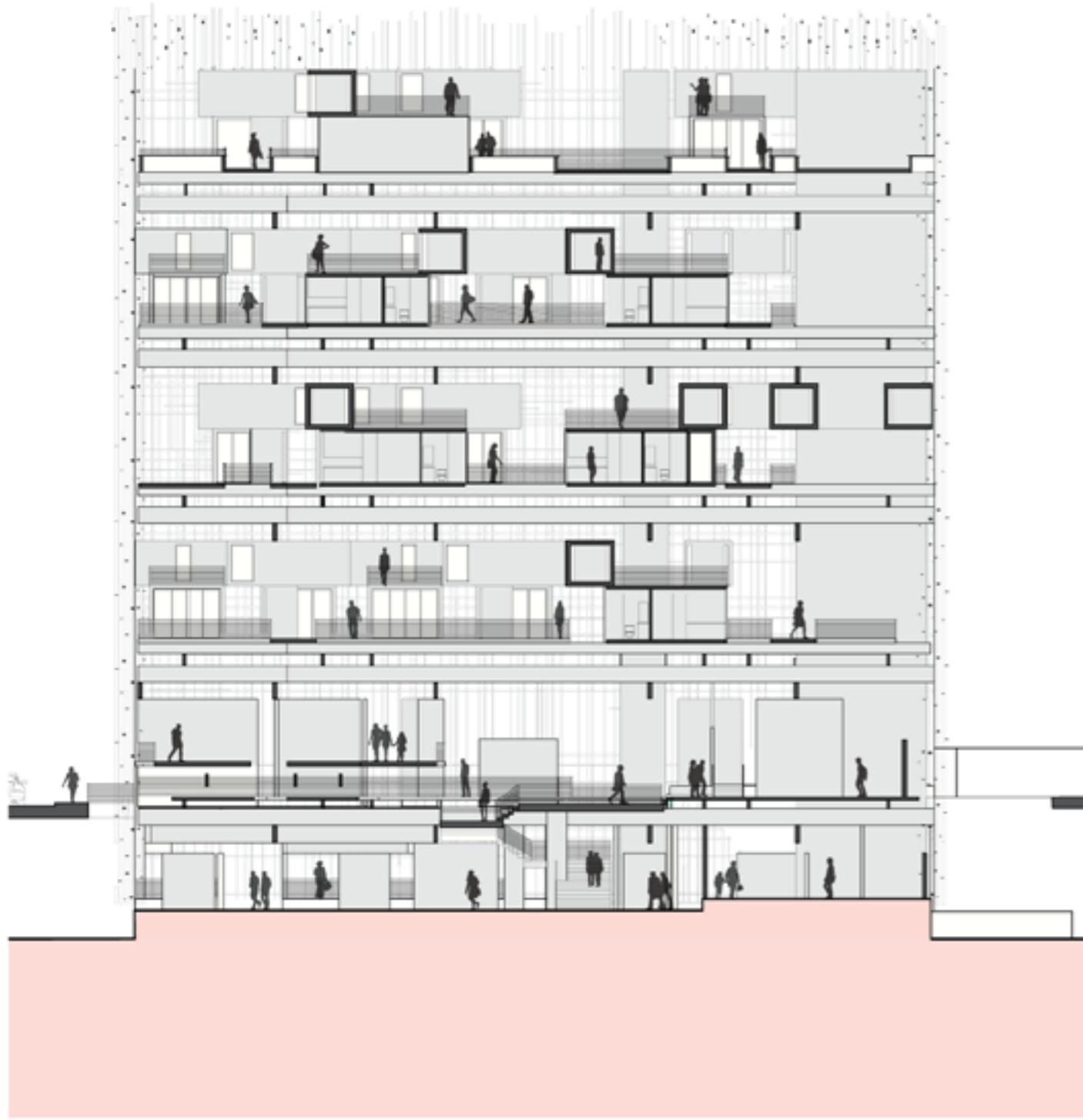


■ VERTICAL CIRCULATION  
■ RESIDENTIAL CIRCULATION  
■ SITE CONNECTIVITY

### CIRCULATION / SITE CONNECTIVITY

### RESIDENTIAL UNIT AGGREGATION

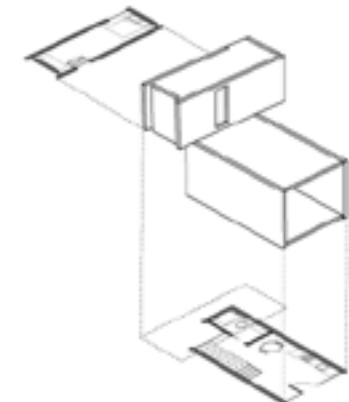




LONGITUDINAL SECTION



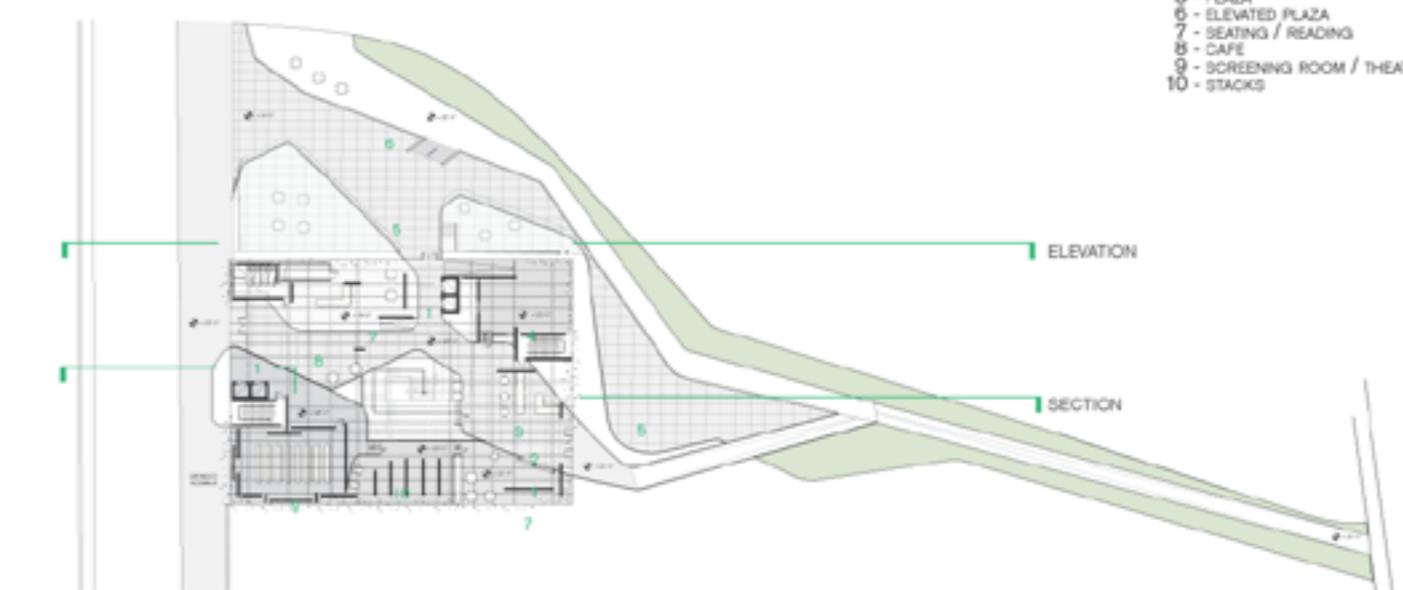
RESIDENTIAL LEVEL PLAN



RESIDENTIAL UNIT

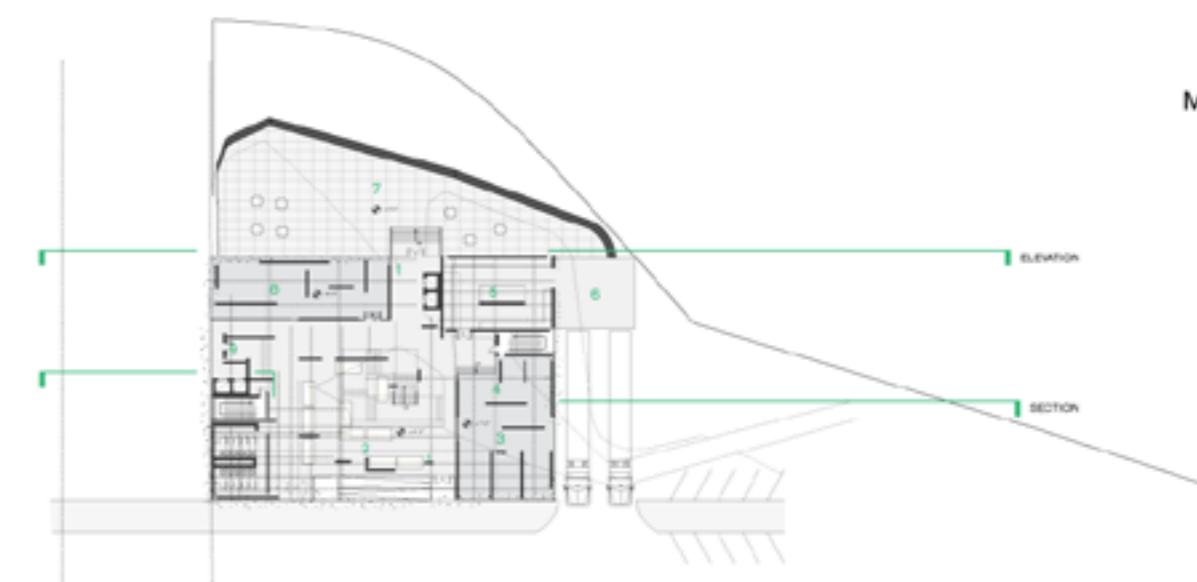
LIBRARY LEVEL KEY

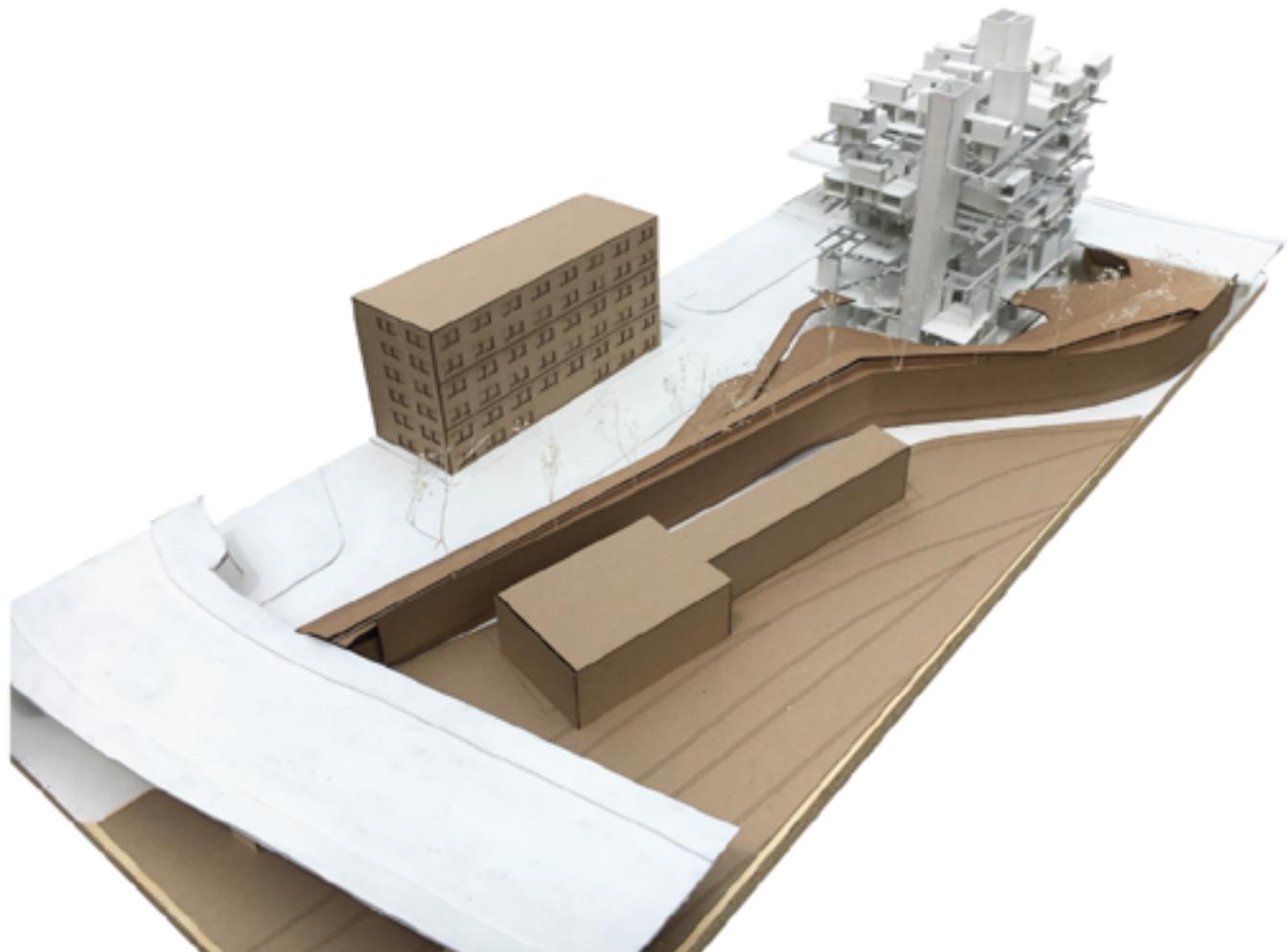
- 1 - ENTRY
- 2 - CIRCULATION DESK
- 3 - COMPUTER STATIONS
- 4 - SEMI-PRIVATE RENTAL / COMMUNITY ASSEMBLY SPACE
- 5 - PLAZA
- 6 - ELEVATED PLAZA
- 7 - SEATING / READING
- 8 - CAFE
- 9 - SCREENING ROOM / THEATRE
- 10 - STACKS



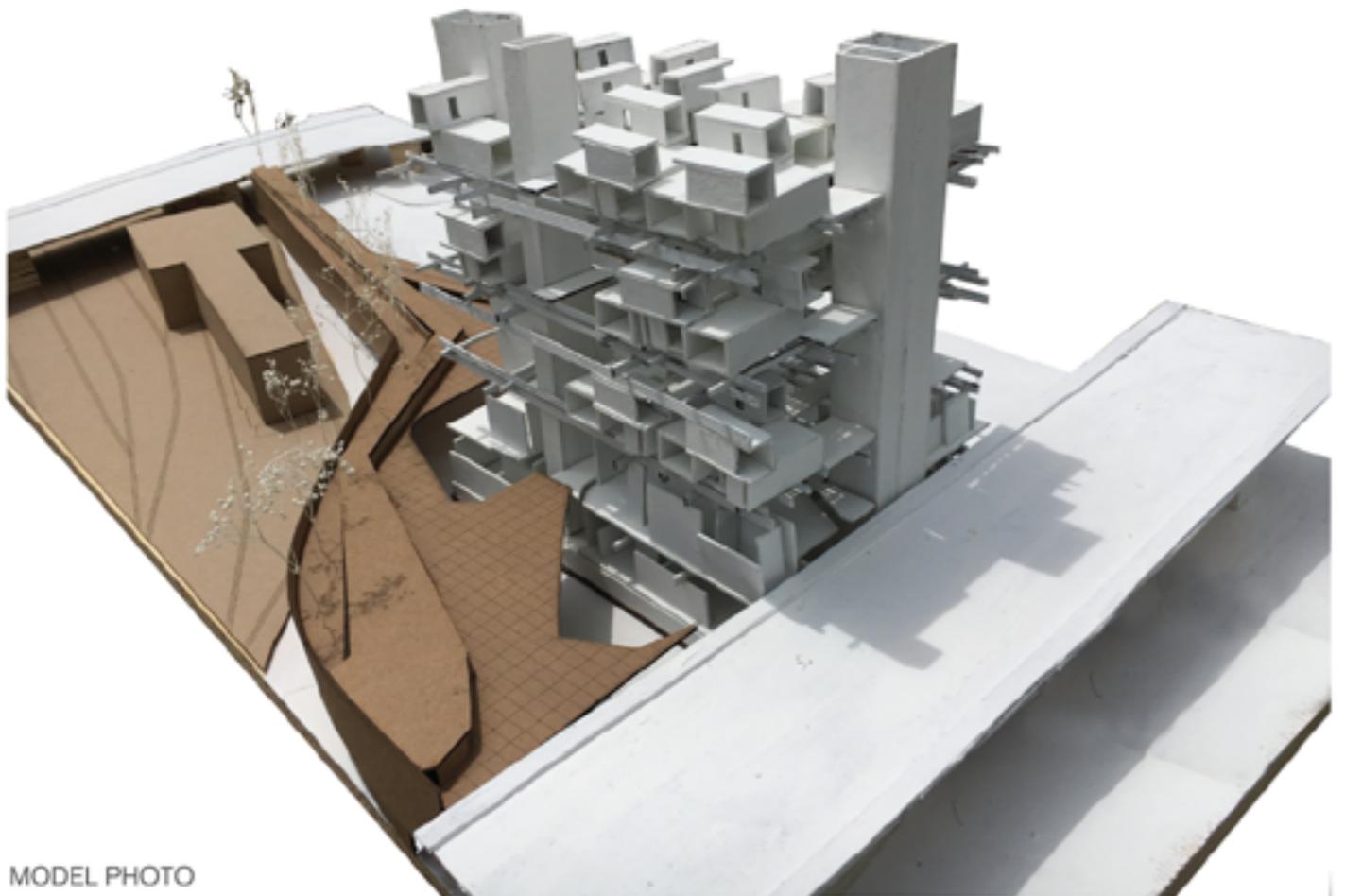
MARKET LEVEL KEY

- 1 - ENTRY
- 2 - PRODUCE
- 3 - DRY GOODS
- 4 - BULK ITEMS
- 5 - SHIPPING / RECEIVING
- 6 - LOADING DOCK
- 7 - LOWER PLAZA
- 8 - SPECIALTY
- 9 - DAIRY / COLD

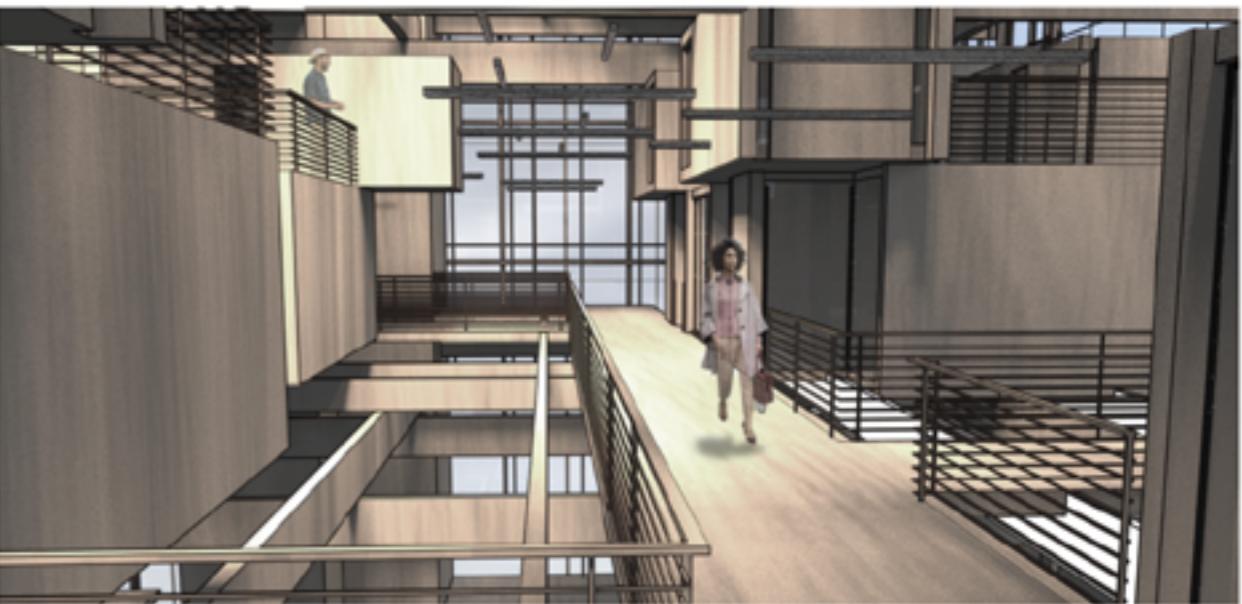




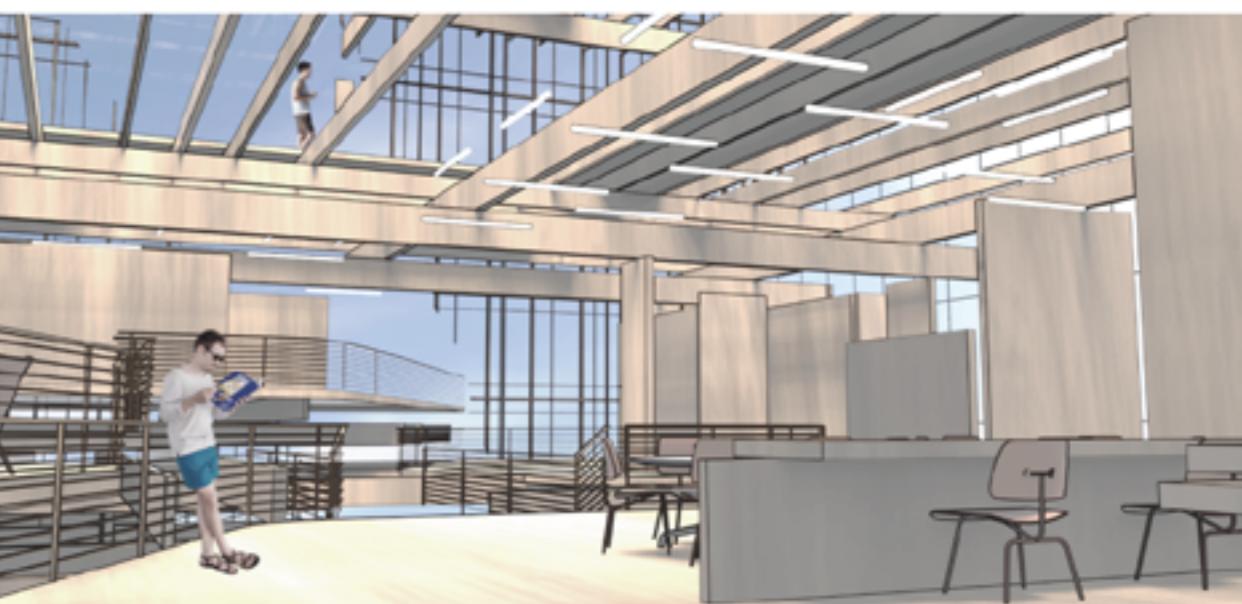
MODEL PHOTO



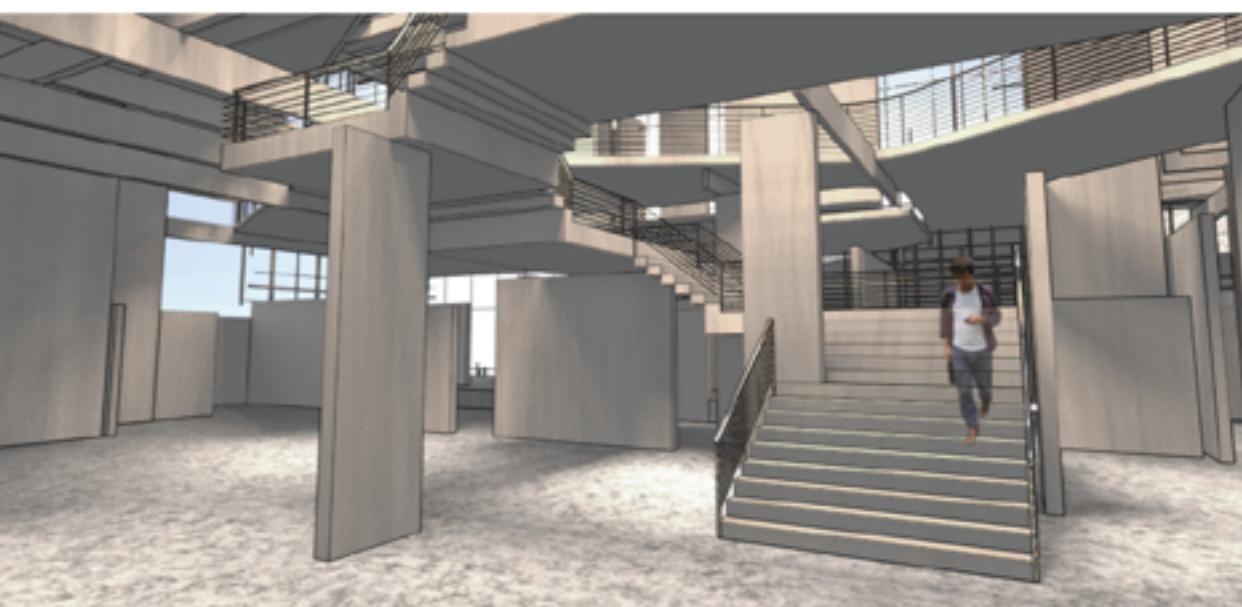
MODEL PHOTO



RESIDENTIAL LEVEL INTERIOR



LIBRARY ANNEX INTERIOR

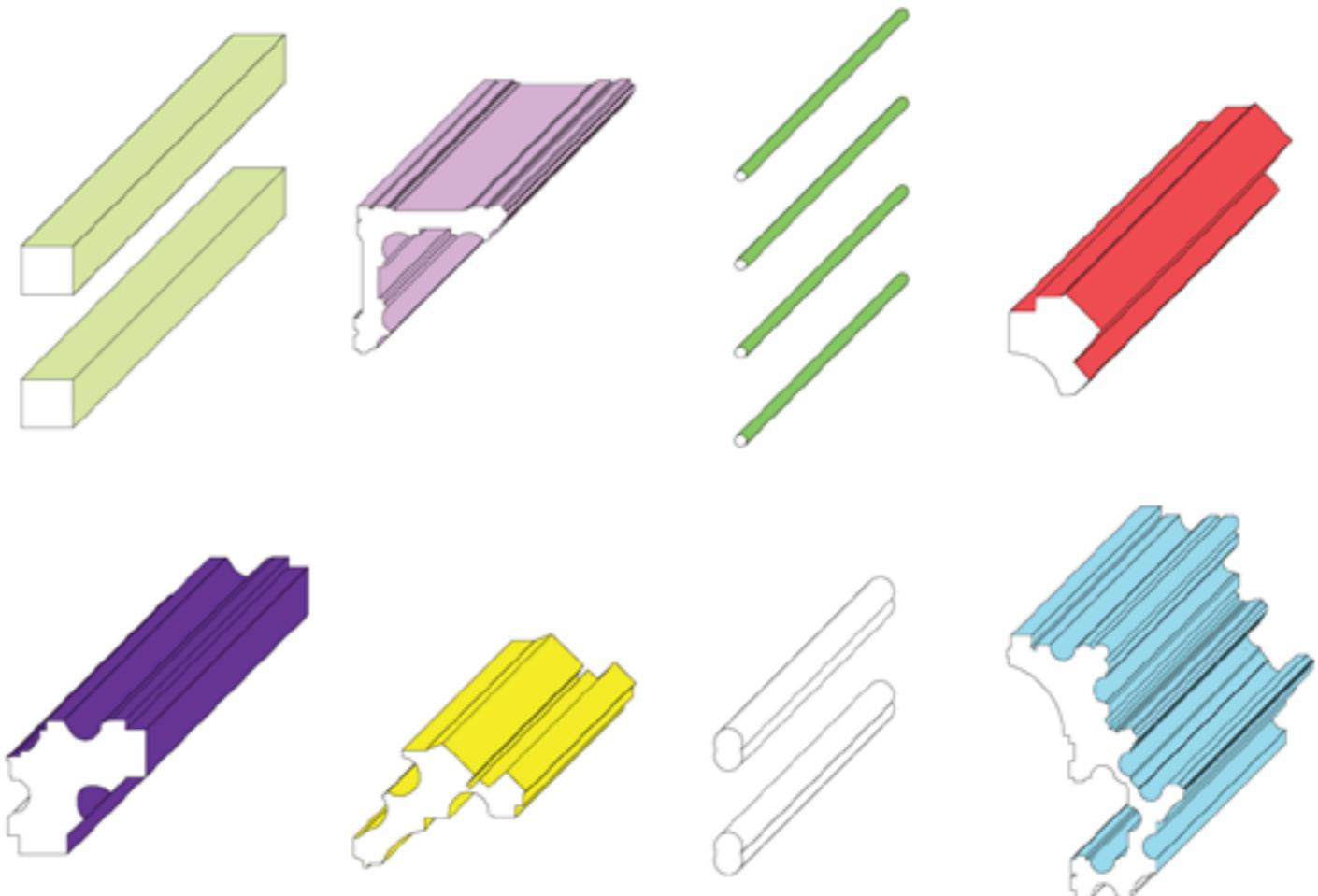
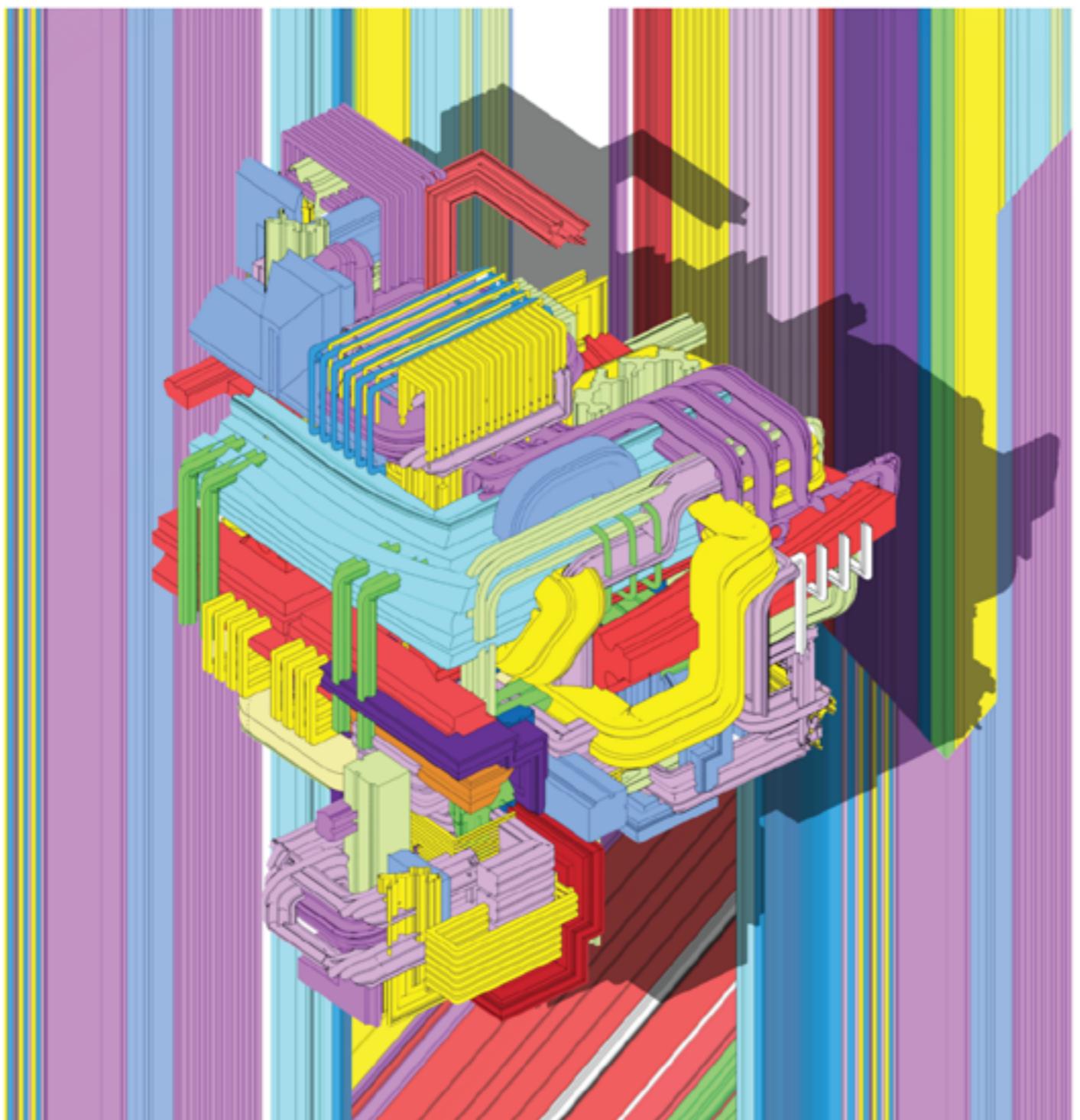


MARKET INTERIOR

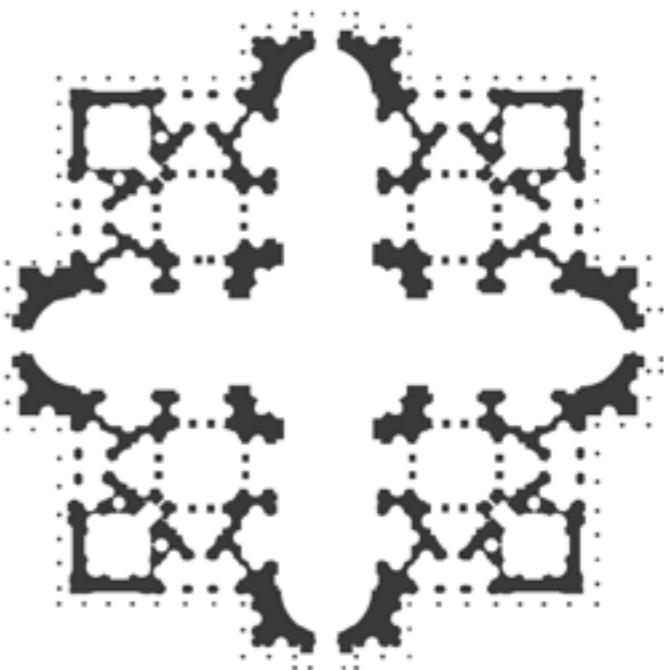
# Smear

form-making theoretical exercise

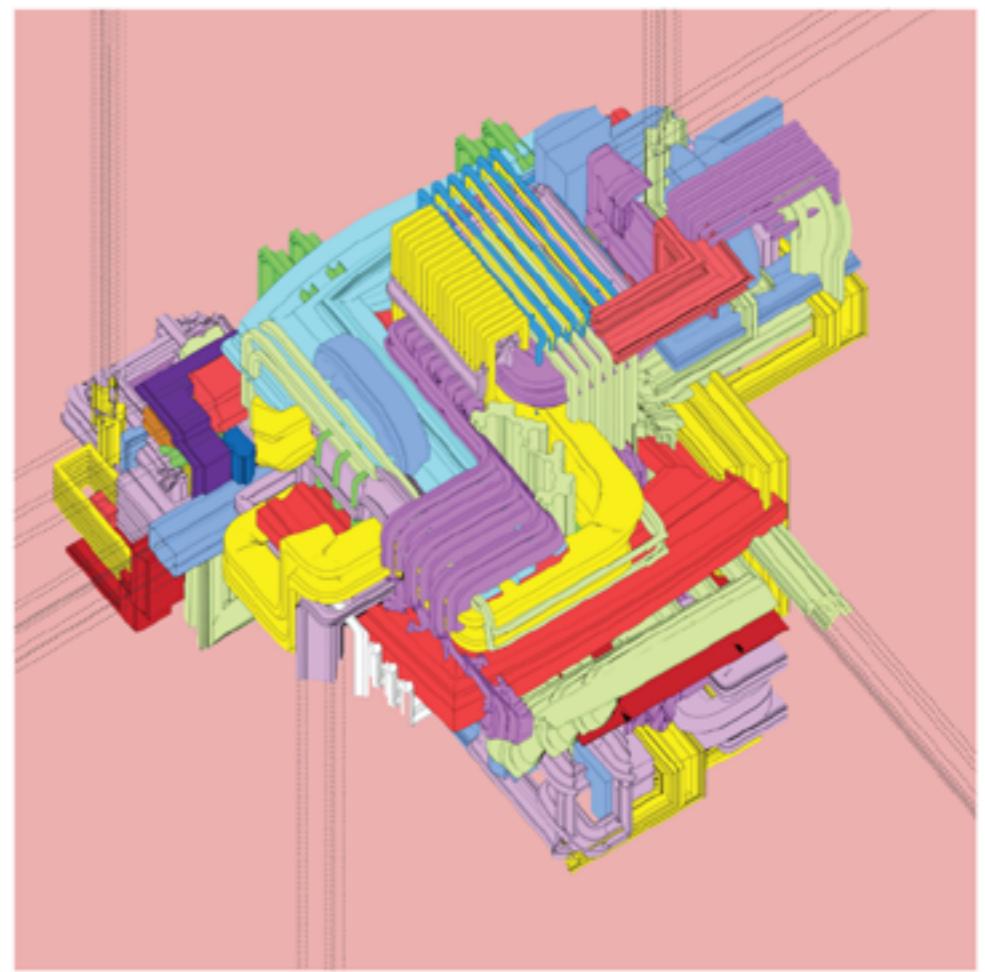
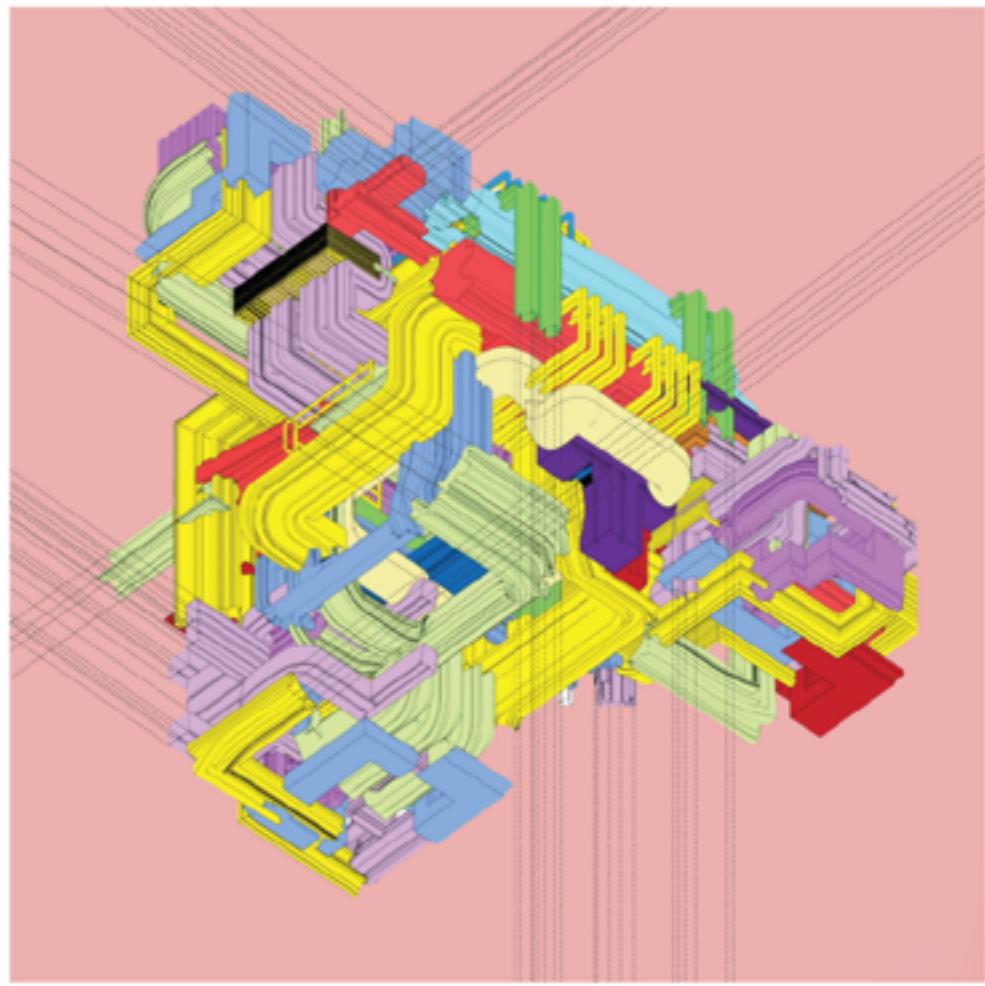
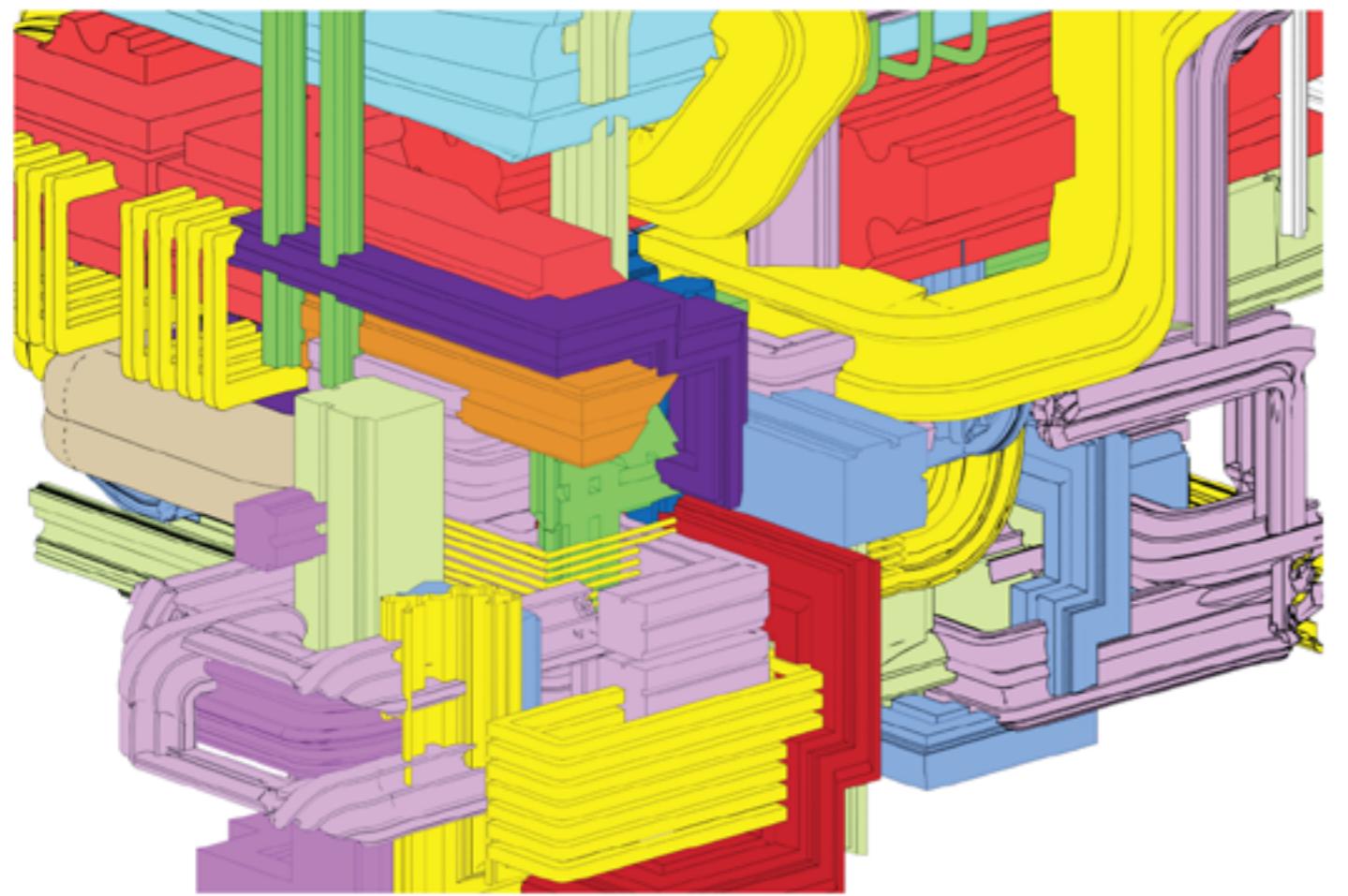
Smear works as an exercise in farther removal of authorship. This is executed by beginning with the ready-made of Bramante's plan for St. Peter's Basilica. The qualities of the poche are isolated into "brushstroke" elements that are then swept along lines I defined. The result within that line are entirely up to the software's processes of interpreting these strokes resulting in sometimes glitchy geometries and unexpected surprises.



POCHE' FRAGMENTS



DONATO BRAMANTE - ST PETERS BASILICA - 1503



# Beacon

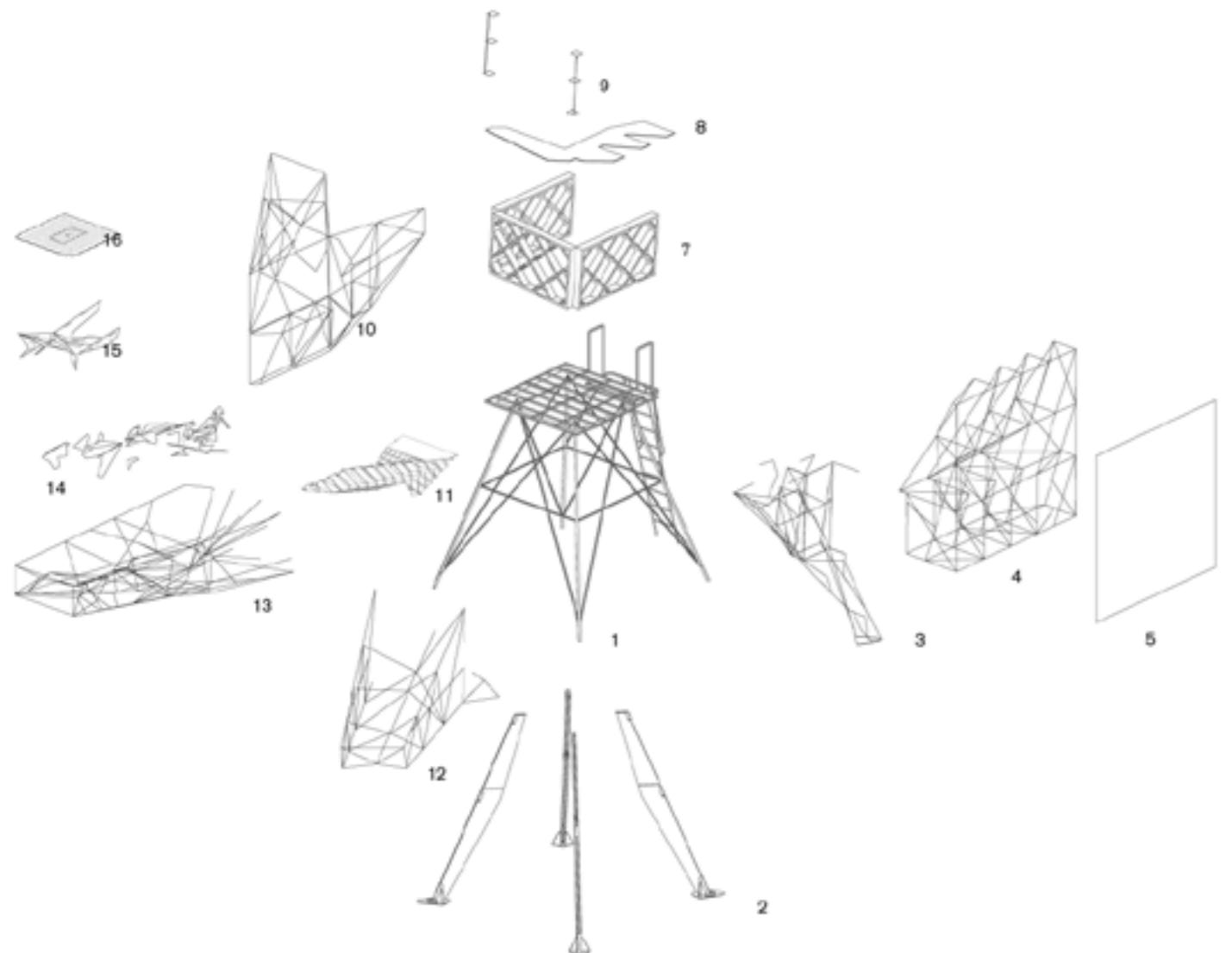
professor : keith kaseman

project group : darcy brown, colin grill, michael koller, richard dempsey, carly todd,

monica magcalas, shantanu vijayakumar, clay kinningham.

Beacon is an experimental armature using AR (augmented reality) for construction without the need for expected architectural drawings. The project was developed through digital modelling, and translating the model to a 1 to 1 hologram that was referenced to needed tools for prefabrication and later assembly. The process of creating this project was an enlightening look into future potentials in the construction of complex geometries.





PROJECT COMPONENTS

PROJECT KEY

- 1 - DEER HUNTING PLATFORM
- 2 - REINFORCING ROOTS
- 3 - STEEL LEG SUPPORT FRAME
- 4 - STEEL BILLBOARD FRAME
- 5 - PROJECTION SCREEN
- 6 - TENSION CABLES
- 7 - REGISTRATION DIAGRID
- 8 - DJ PLATFORM SURFACE
- 9 - STEEL CORNER BRACKETS
- 10 - STEEL BACKSPAN AND LIGHTING ARMATURE
- 11 - PLYWOOD WAFFLE SUPPORT ARM
- 12 - LOWER STEEL CANTILEVER
- 13 - UPPER STEEL CANTILEVER
- 14 - NODE BLOOM GUSSETS
- 15 - ALUMINUM LANDING PAD SUPPORTS
- 16 - DRONE LANDING PAD



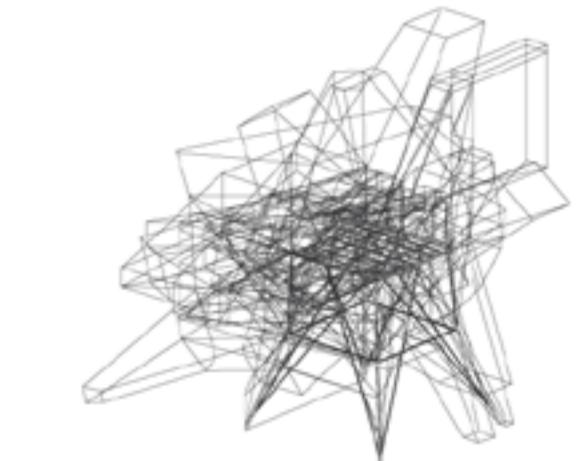
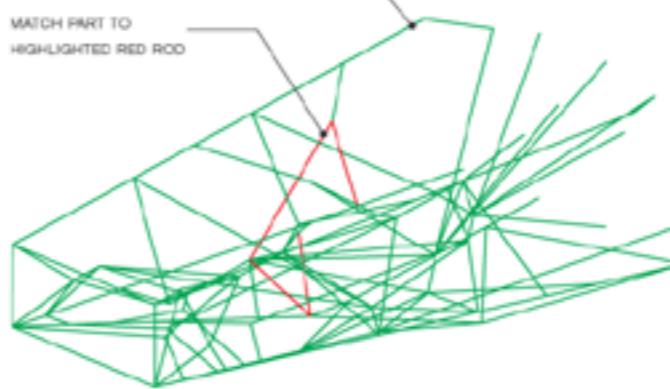
6

STEEL CYBER-PHYSICAL WORKFLOW

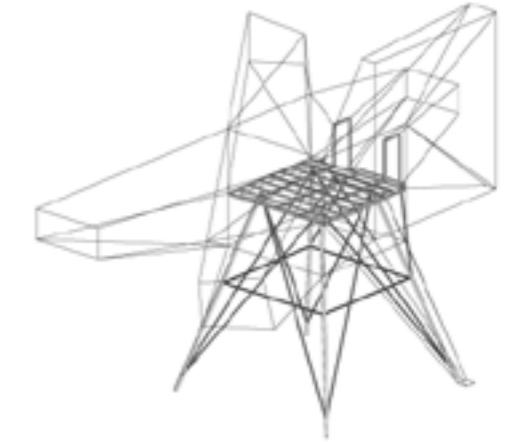


GREEN HOLOGRAM OF PART TO BE PRODUCED

MATCH PART TO HIGHLIGHTED RED ROD

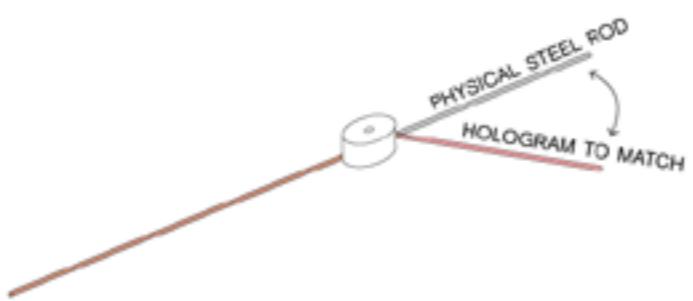


DESIGN PERMUTATIONS



DESIGN DECISIONS TO BE DEVELOPED

ASSEMBLY HOLOGRAM DRAWING

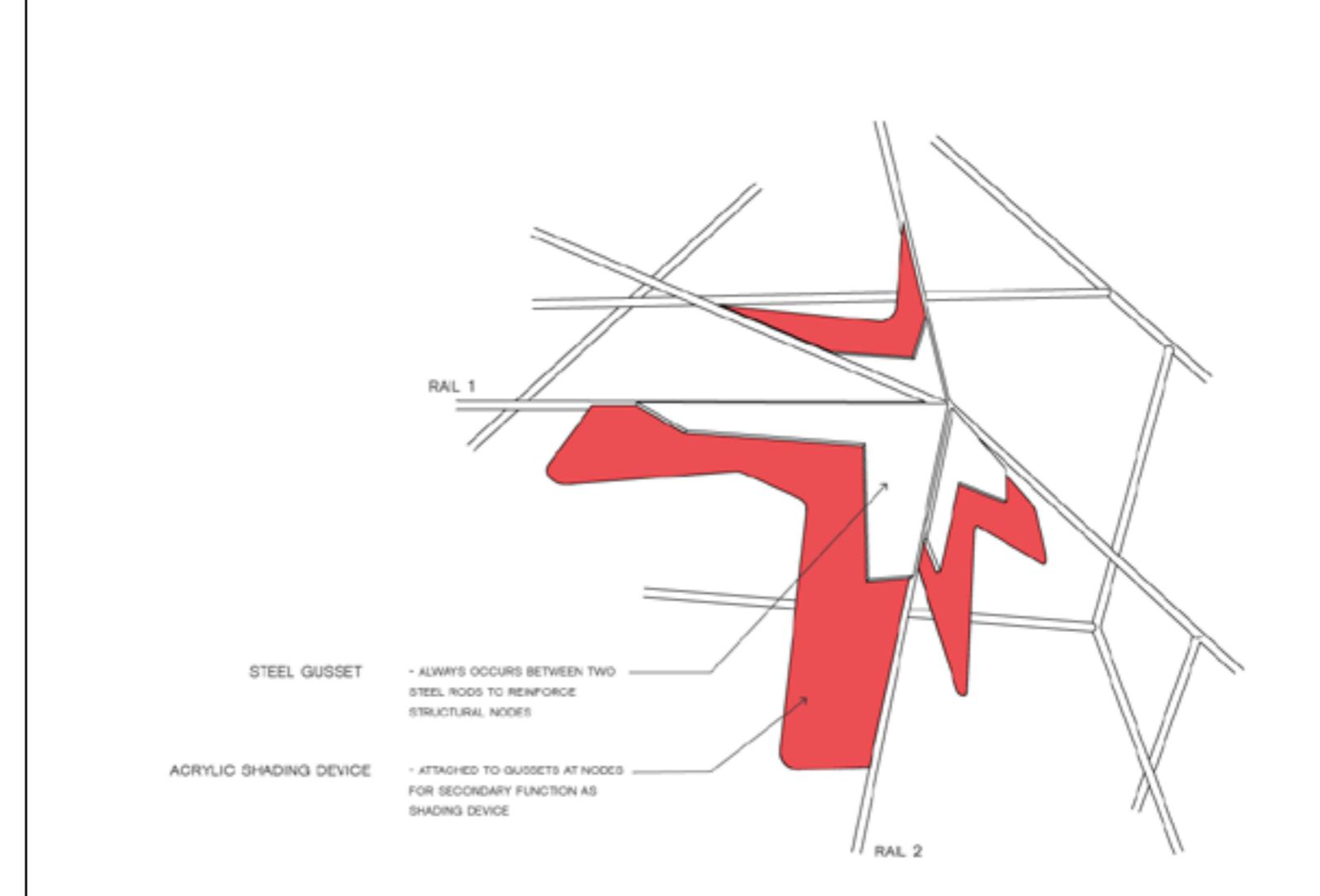


HOLOGRAM BENDING DIAGRAM

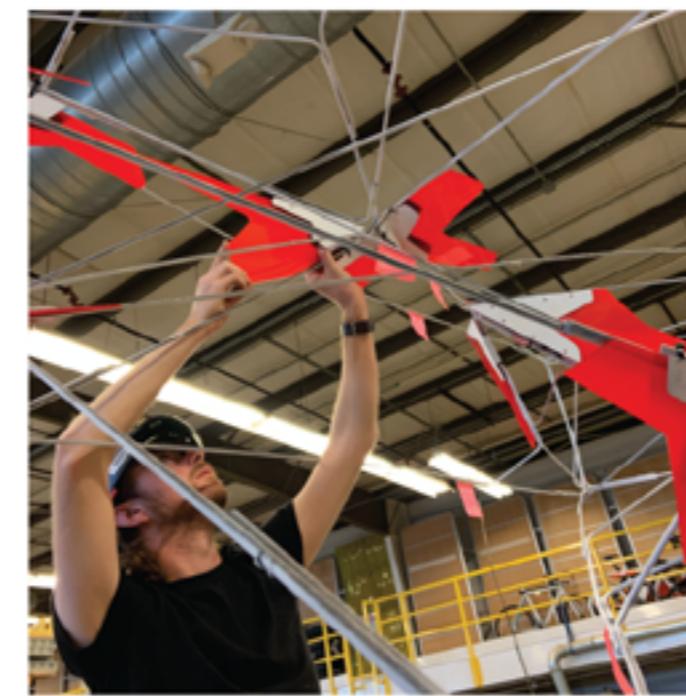




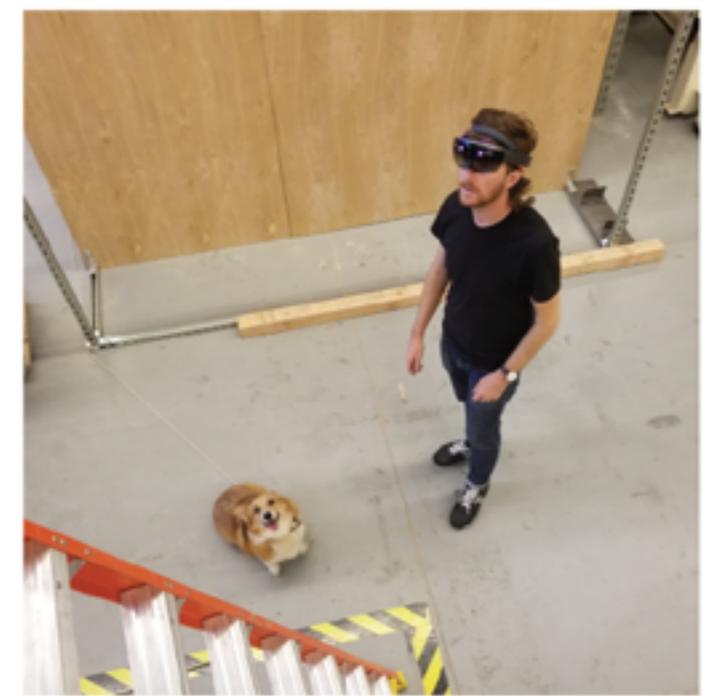
### BLOOM SHADING DIAGRAM



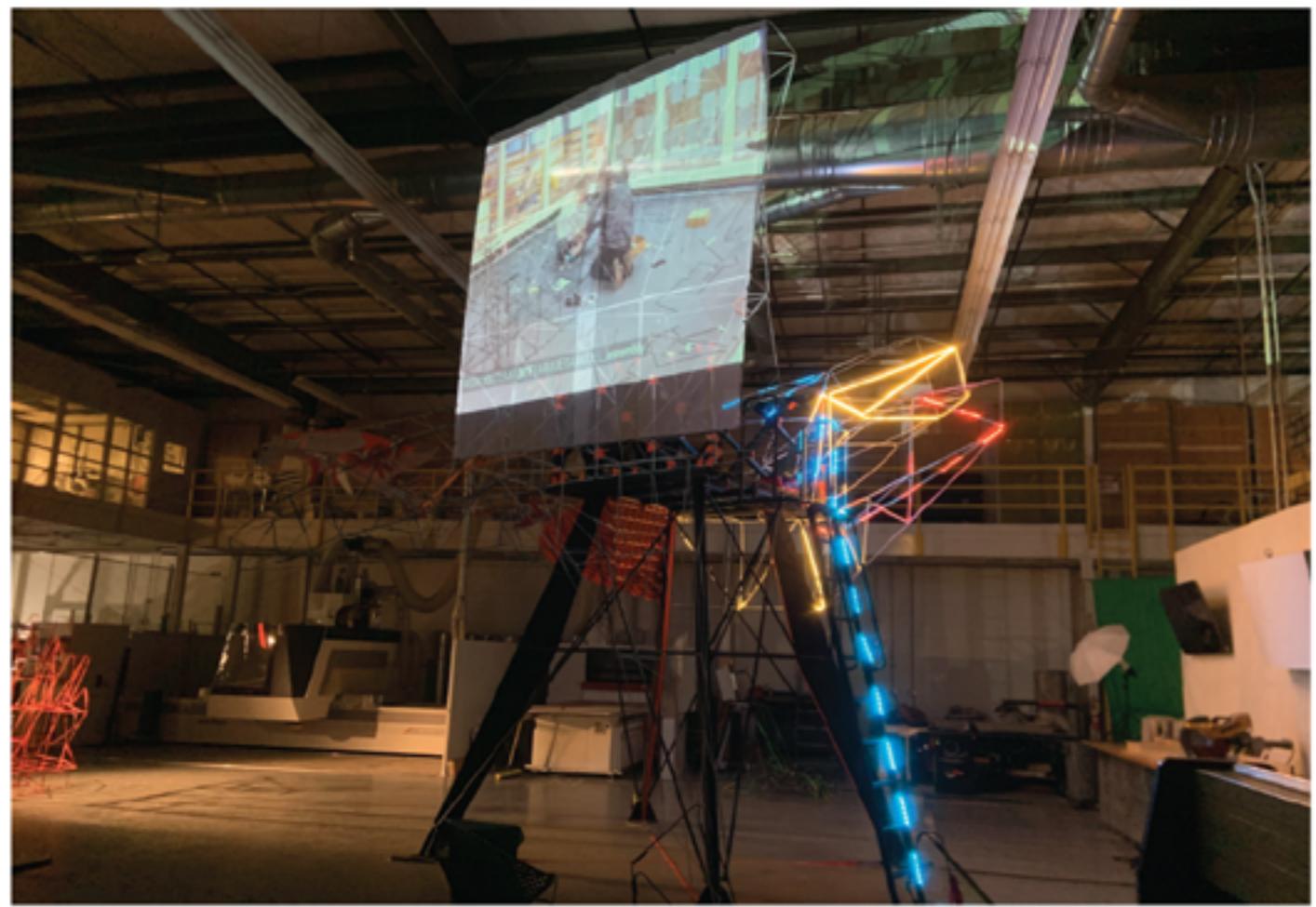
#### BLOOM NODE GUSSET / SHADING DEVICE



## BLOOM NODE TEST FITTING



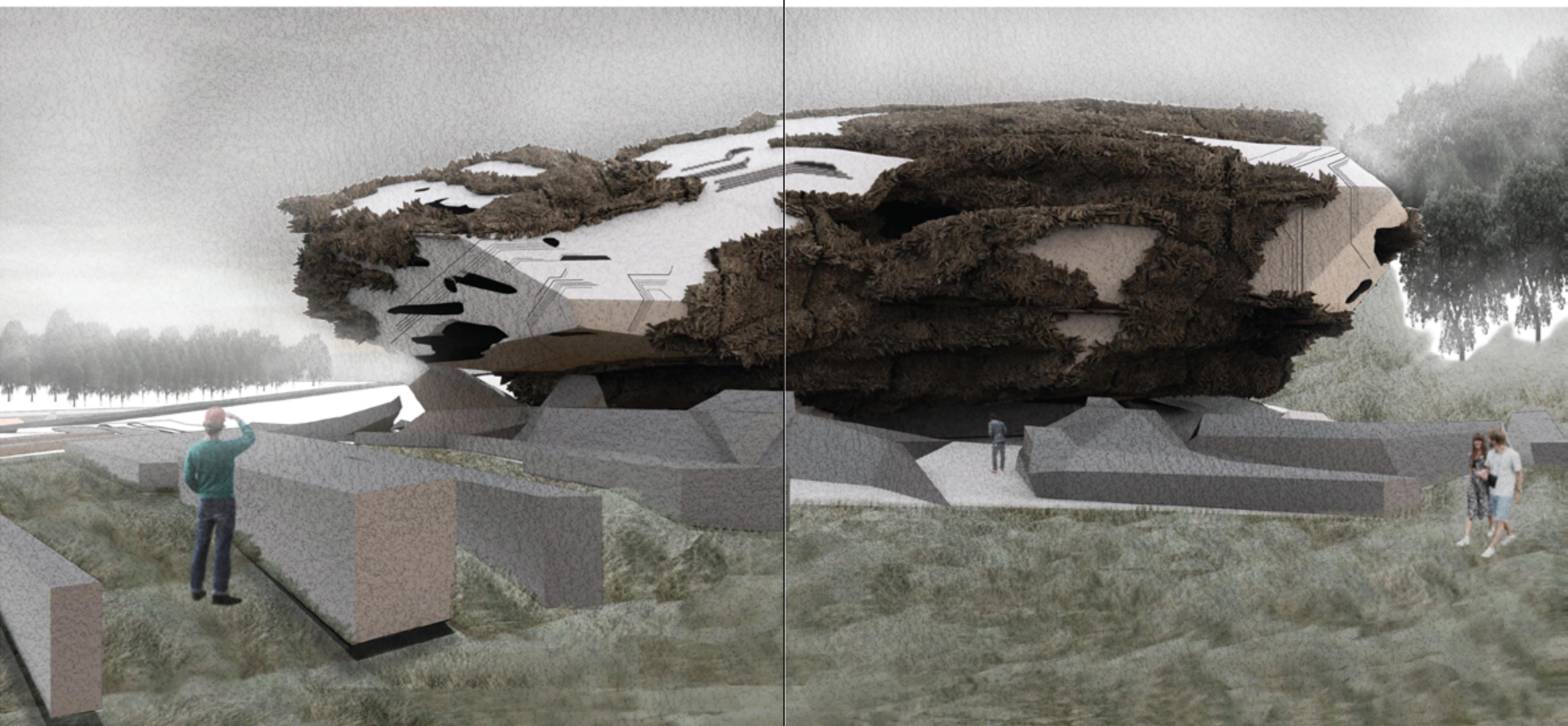
## BLOOM NODE LOCATION REGISTRATION



# French Broad River Park Redevelopment

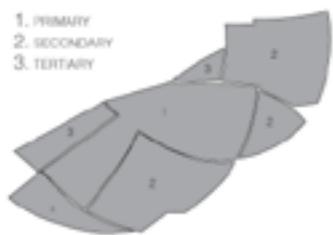
asheville, north carolina  
professor : dan brown

Diverging from the expected approach to architectural context by exploring different time-lines and deep context of the geological underpinnings of place. Asheville's geology is composed of schist bedrock which inspired not only building form, but also the site's organizational "plates". The hard edged stone-like forms are visually softened by using a recycled wood rainscreen, as well as adding visual complexity based on viewer perspective and distance. This project consists of three major building objects containing a recreation center, an outdoor outfitters shop, and a cafe. There are also cabins scattered throughout the site for vacation rental.

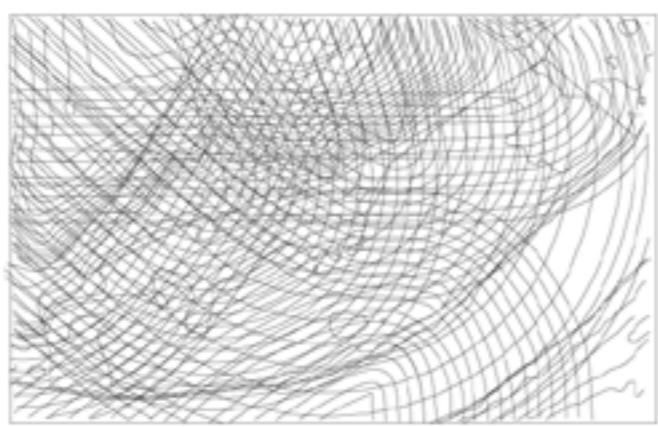




SITE PLAN

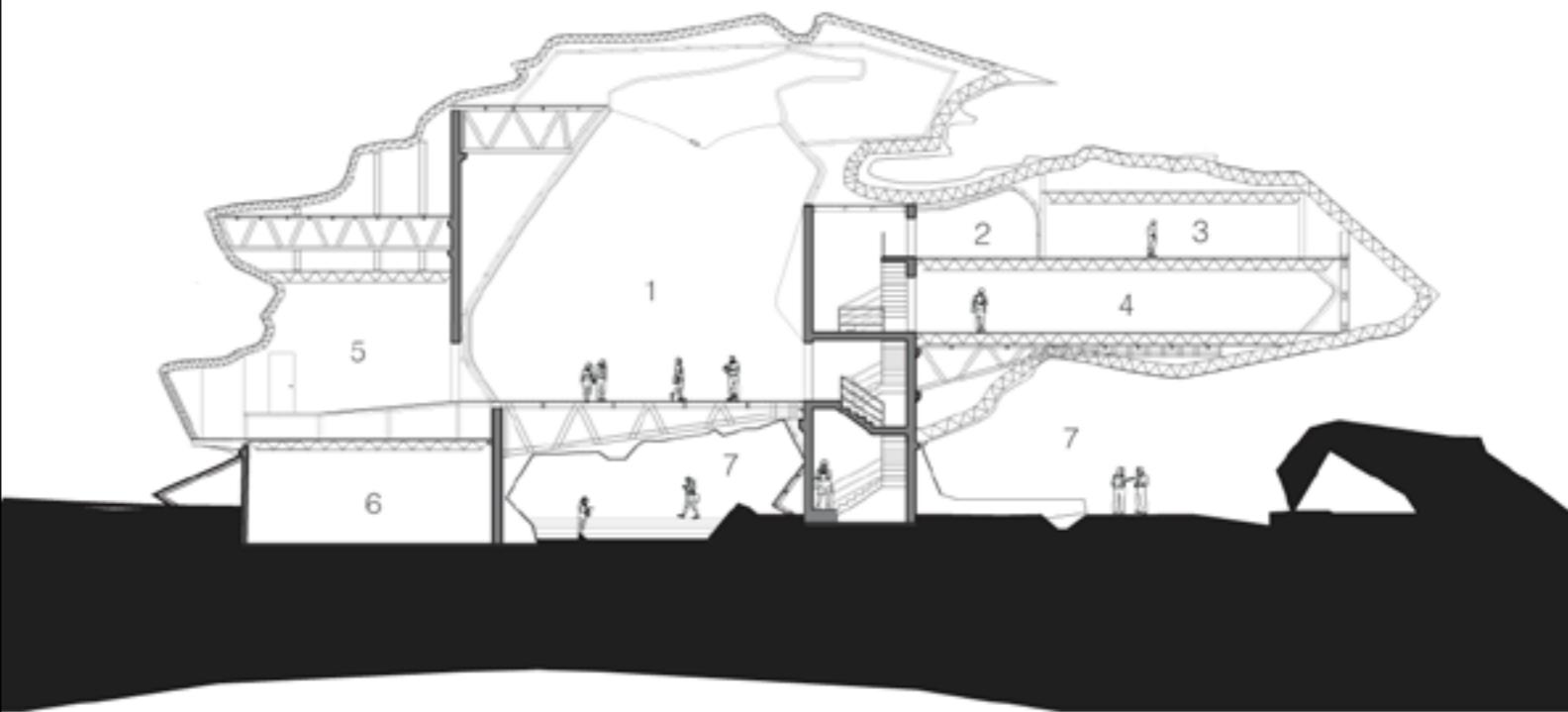


ORGANIZATIONAL PLATES



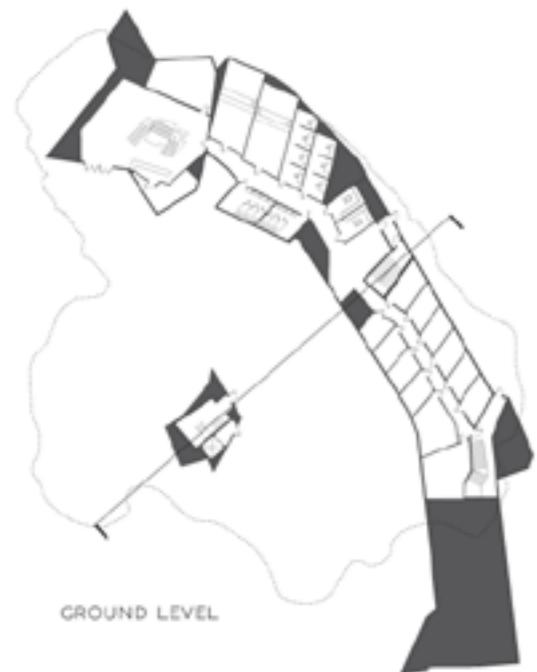
PARABOLIC ORGANIZATIONAL SYSTEM

SITE KEY  
1.) RECREATIONAL CENTER  
2.) BIKE AND OUTFITTER SHOP  
3.) CAFE  
4.) PARKING  
5.) CABINS  
6.) TRADITIONAL CAMPING  
7.) CONCRETE SKATEPARK  
8.) DOG PARK

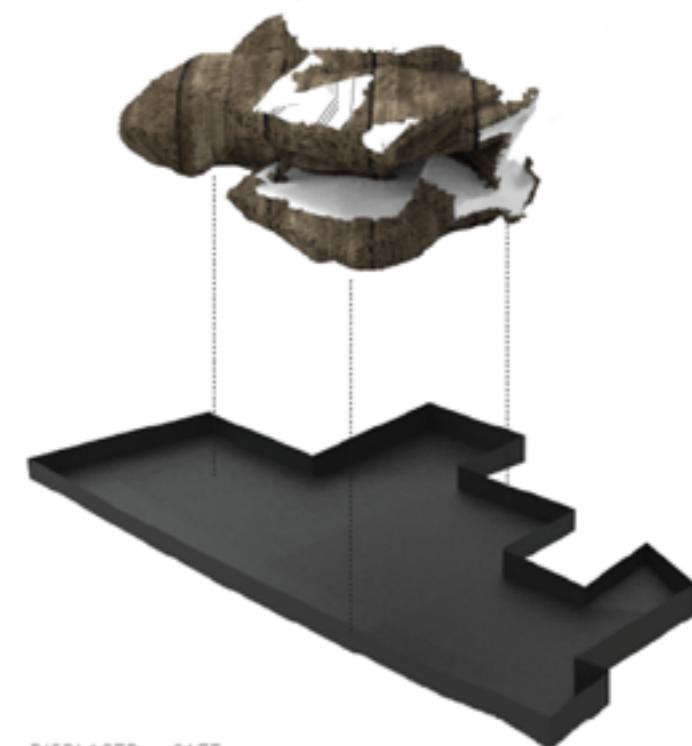
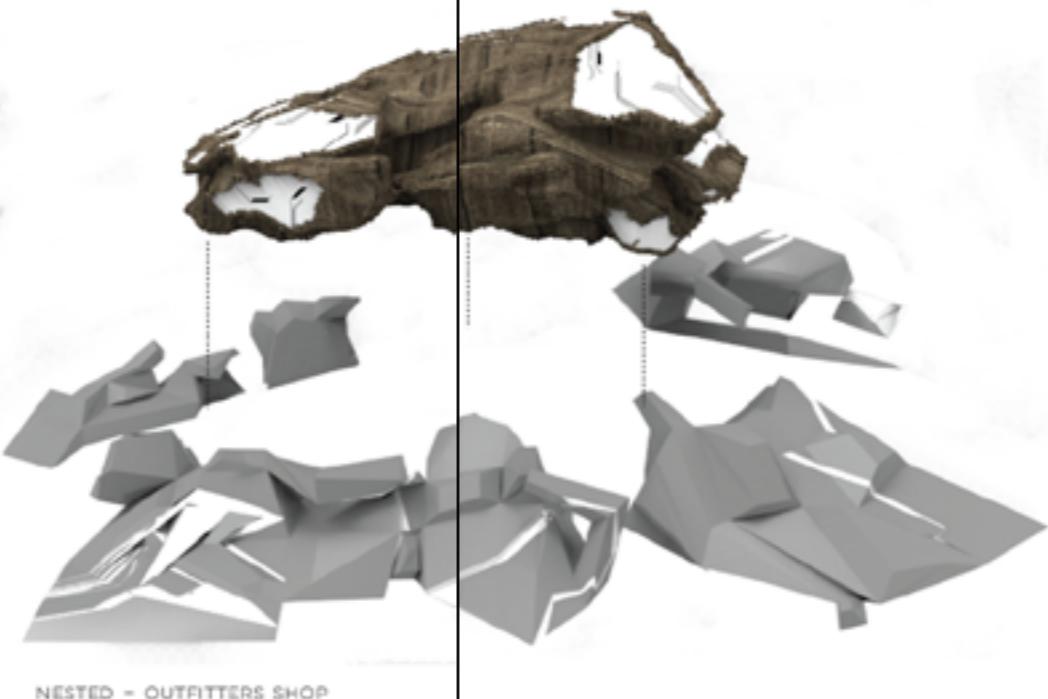
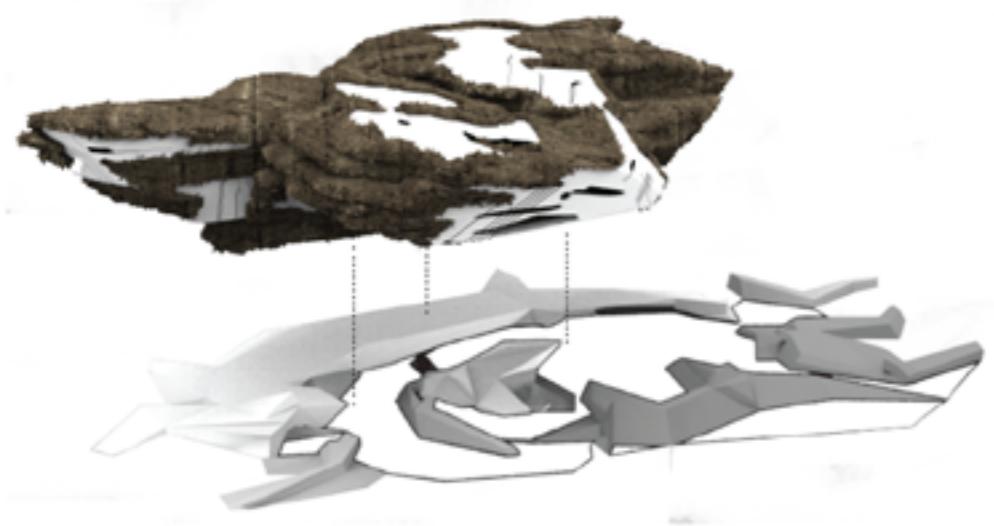


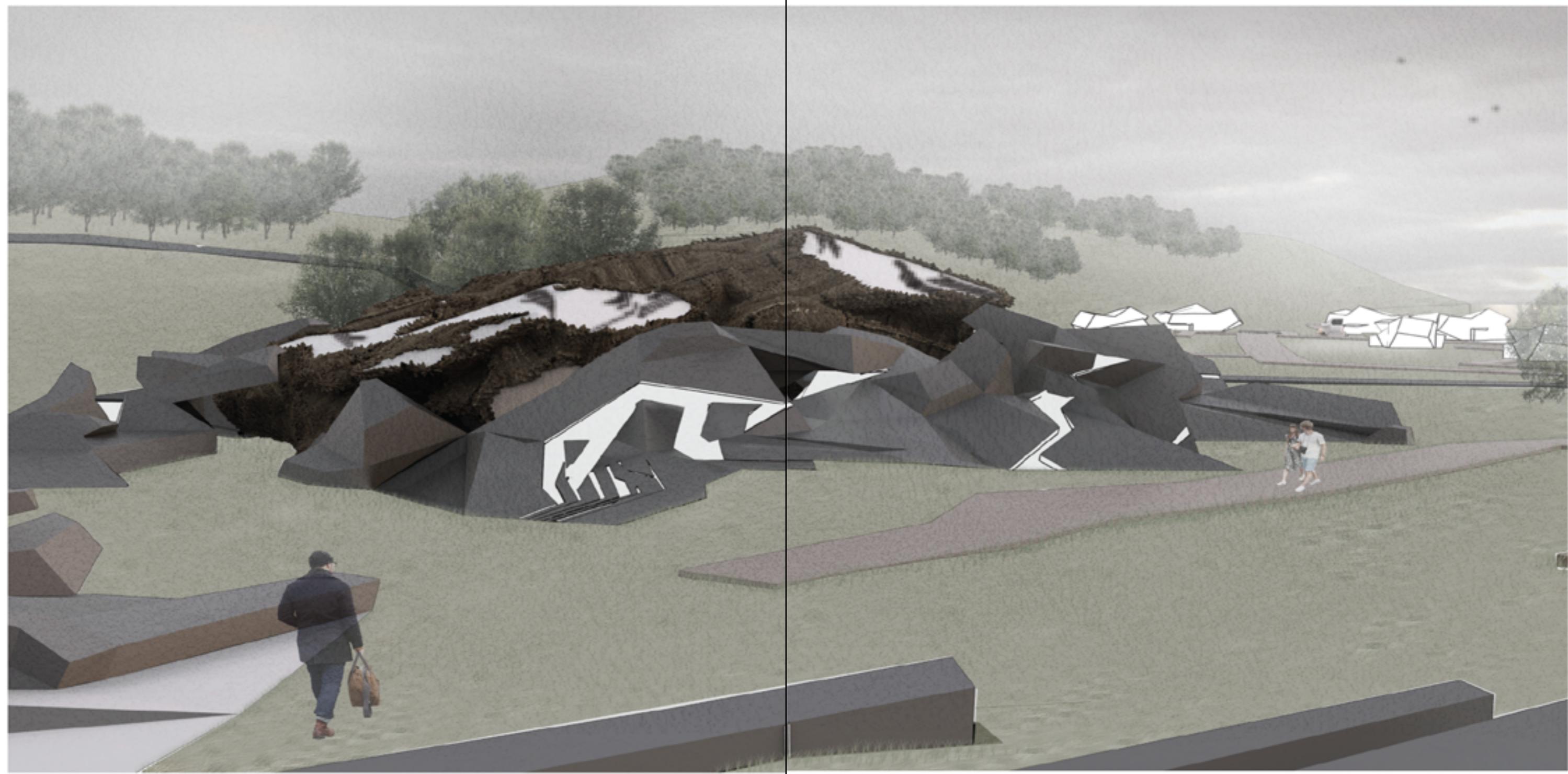
RECREATIONAL CENTER KEY  
1.) MIXING ATRIUM  
2.) HALLWAY  
3.) CAFE  
4.) INSTRUCTIONAL GYM STUDIO  
5.) RECEIVING AND STORAGE  
6.) RACQUET BALL COURT  
7.) COVERED OUTDOOR AREA

## RECREATIONAL CENTER PLANS (LEVITATED OBJECT)



## OBJECT GROUNDING METHODS



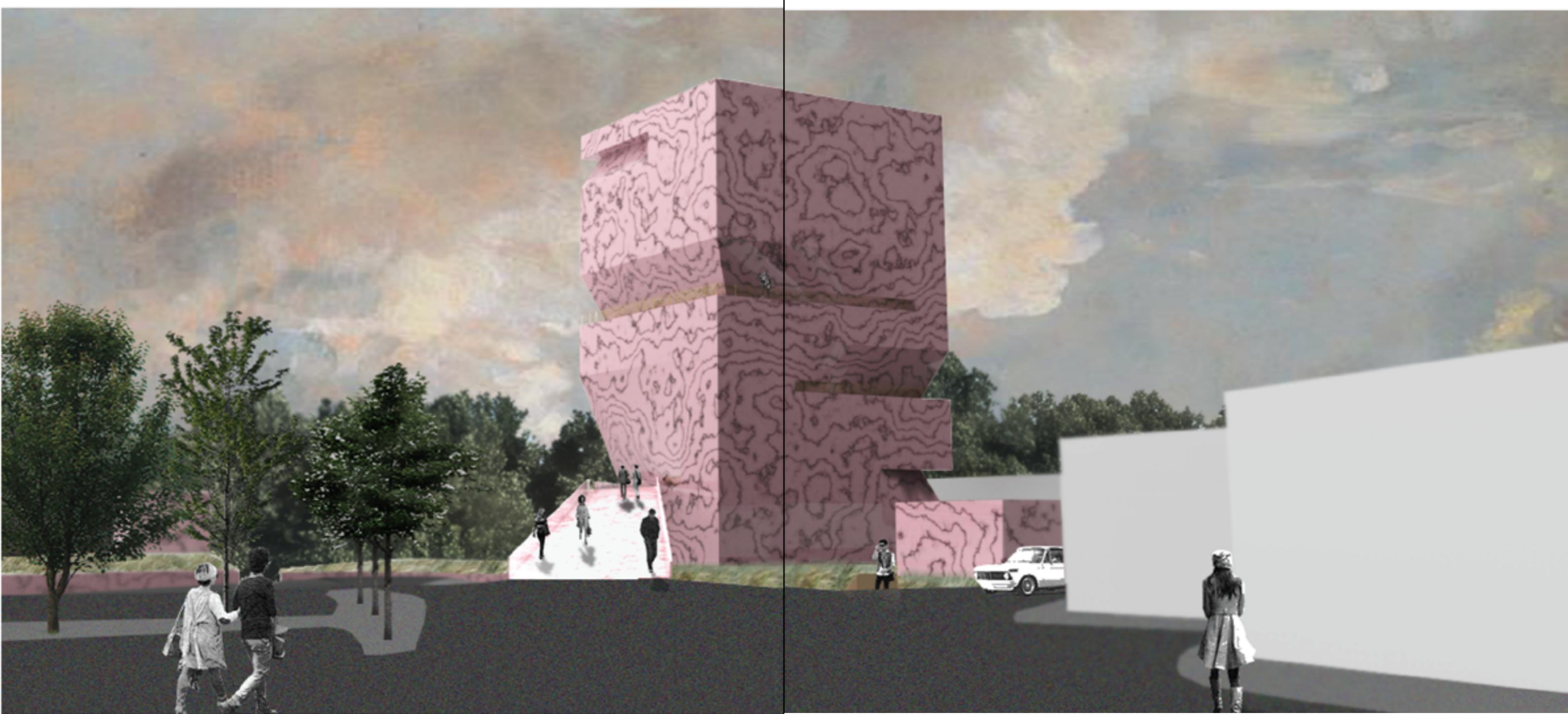


OUTFITTERS SHOP PERSPECTIVE

# Liminality – A Space For Waiting

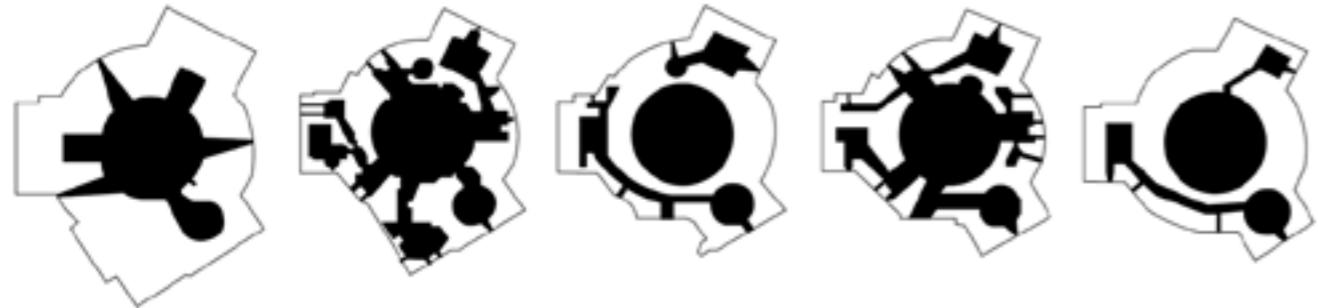
atlanta, georgia  
professor : brian bell

Slowing down is one the most important driving conceptual elements that allows one to perceive liminal spatial changes. The function of this project is a major rail station on Means street in Atlanta, Georgia, but it's more about the act of waiting and how space can change based on ones perception due to speed. The formal generation allows for those in the station to ponder the absent and remaining figures within the atrium of the building. One can begin to piece the puzzle together, but can never truly understand which architecturally elevates the waiting experience.

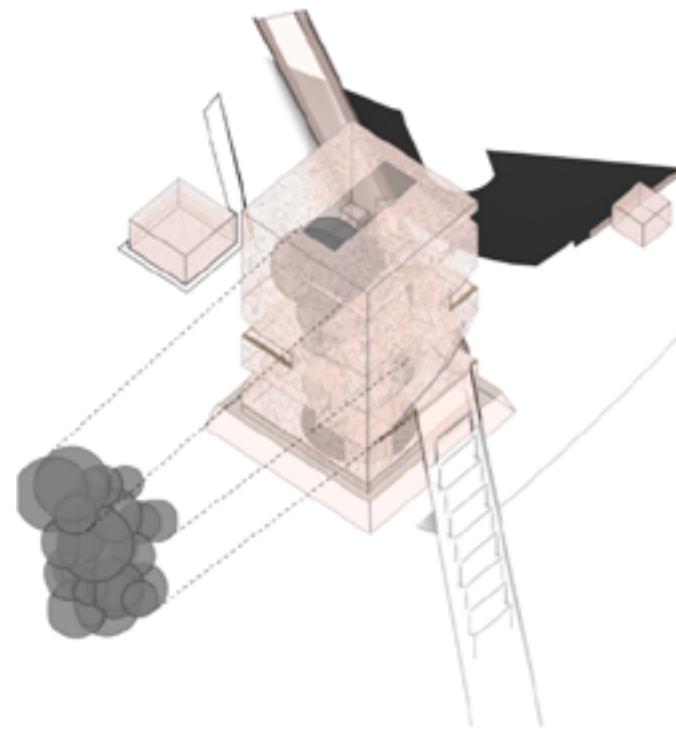




CASTLE ORFORD 1165 - 1173



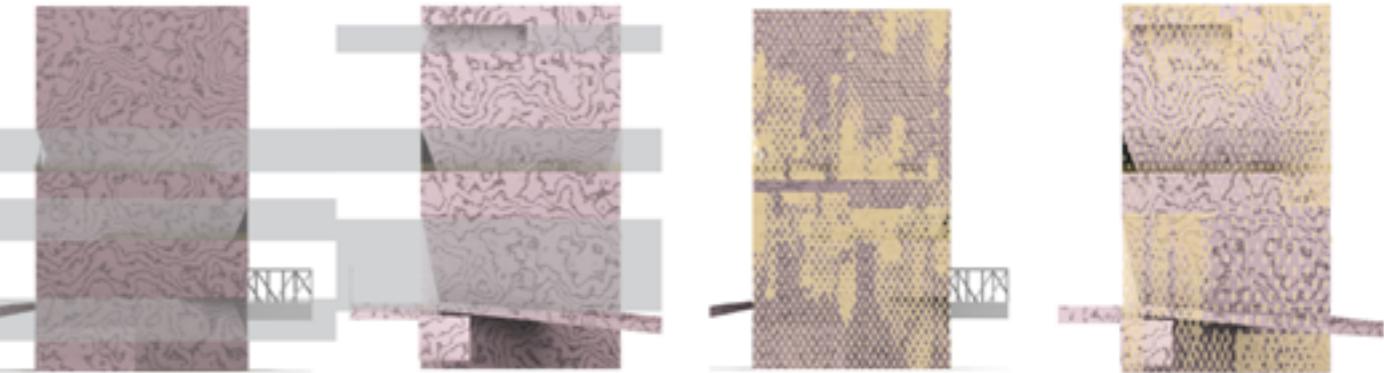
CASTLE ORFORD INVERTED SPATIAL DIAGRAM



#### LIMINAL SPACE

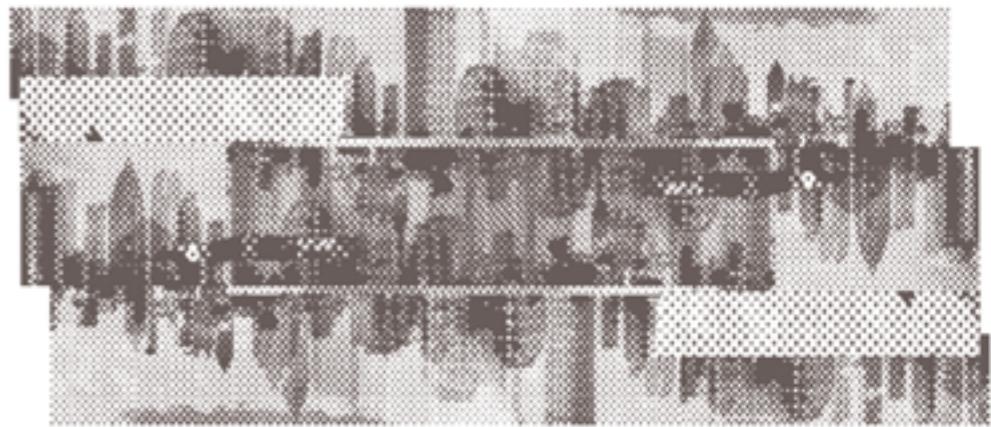
Liminal spaces are transitional or transformative spaces. They are waiting areas between one point in time and space and the next. This constitutes space on the verge of something as we experience in travel.

ATRIUM FIGURAL ABSENCE RELATIONSHIP DIAGRAM



REDACTION - FIGURAL CUTS

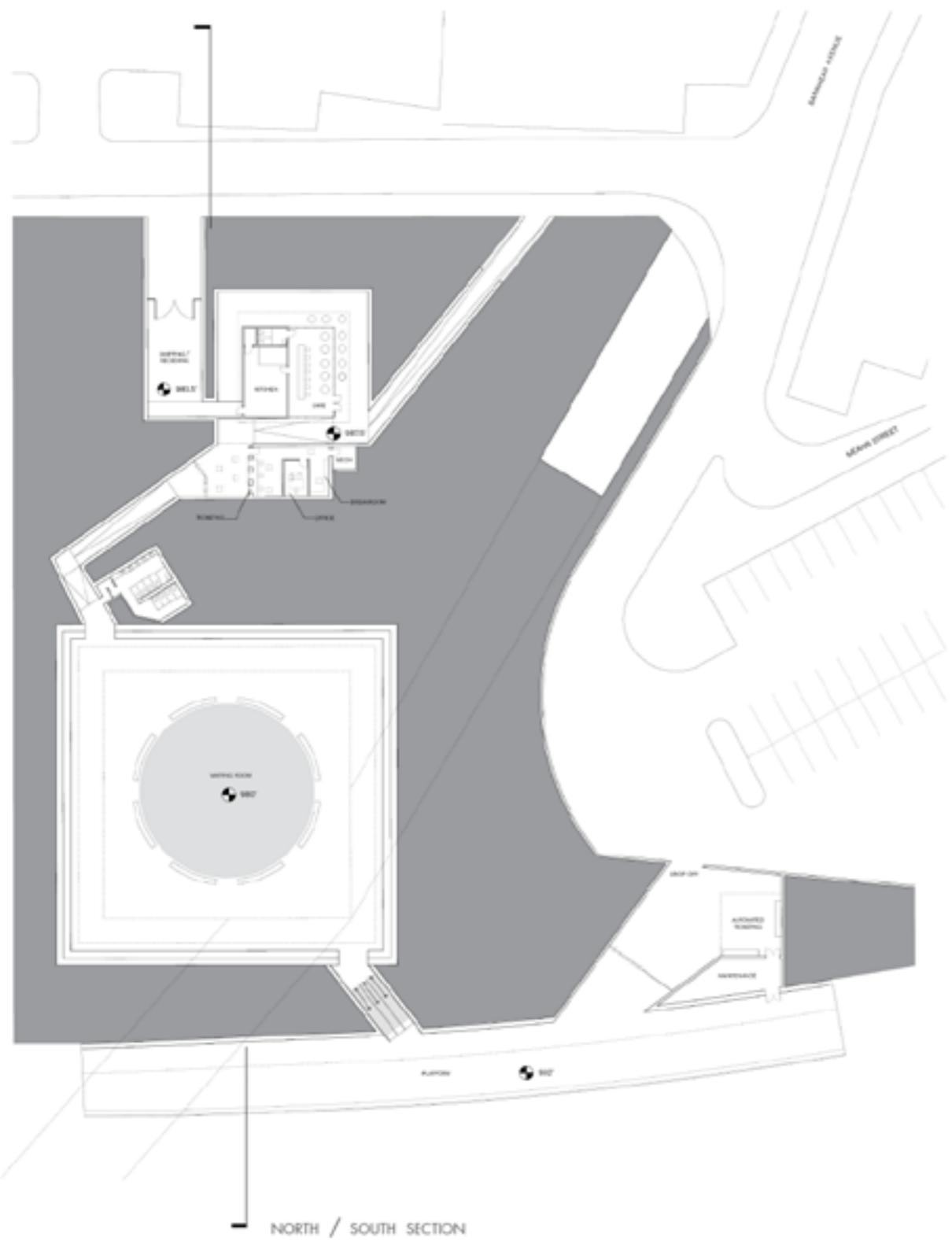
EXTERIOR LIGHTING - PERFORATION



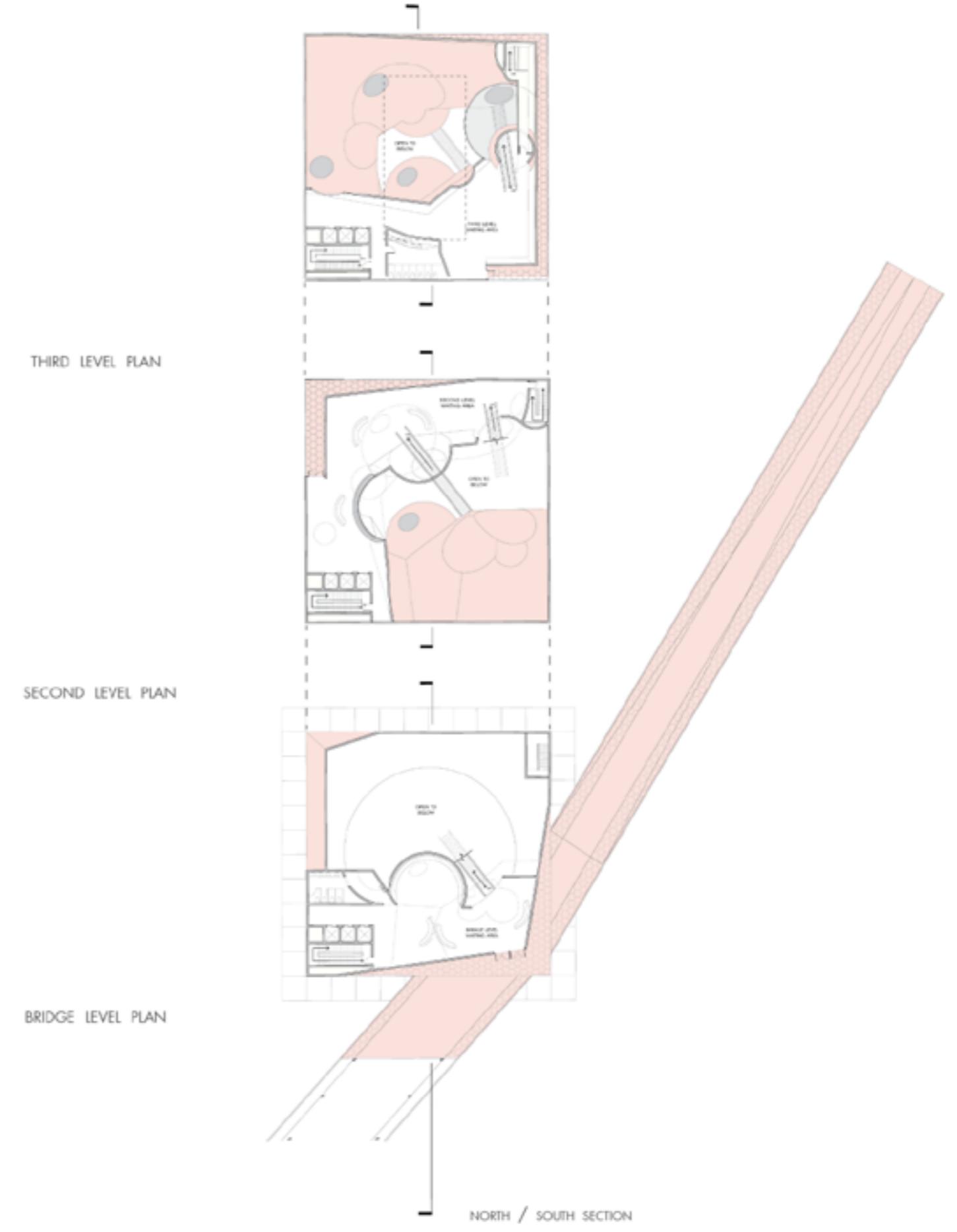
EXTERIOR LIGHTING PERFORATION - PATTERN STUDY



SITE PLAN



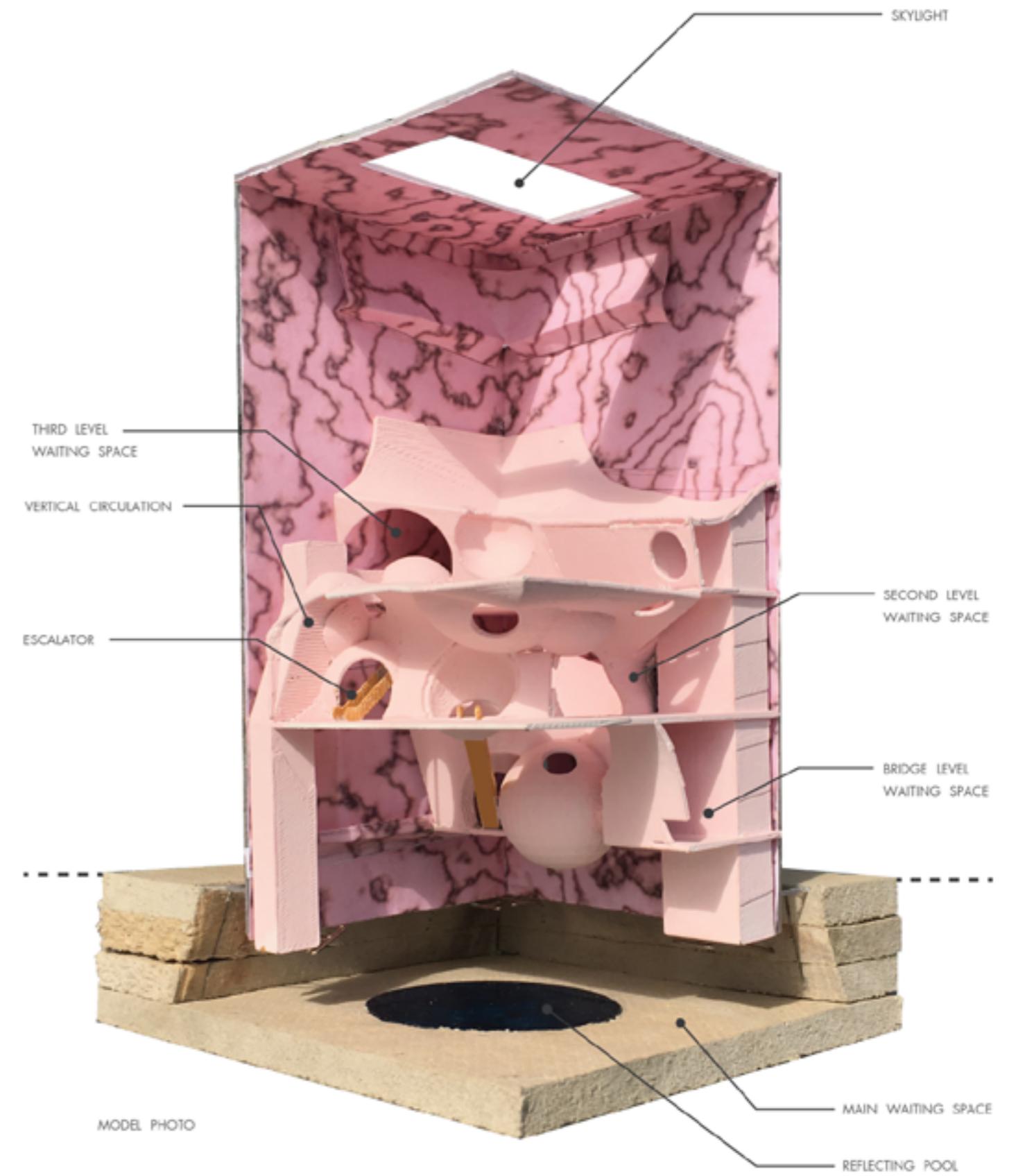
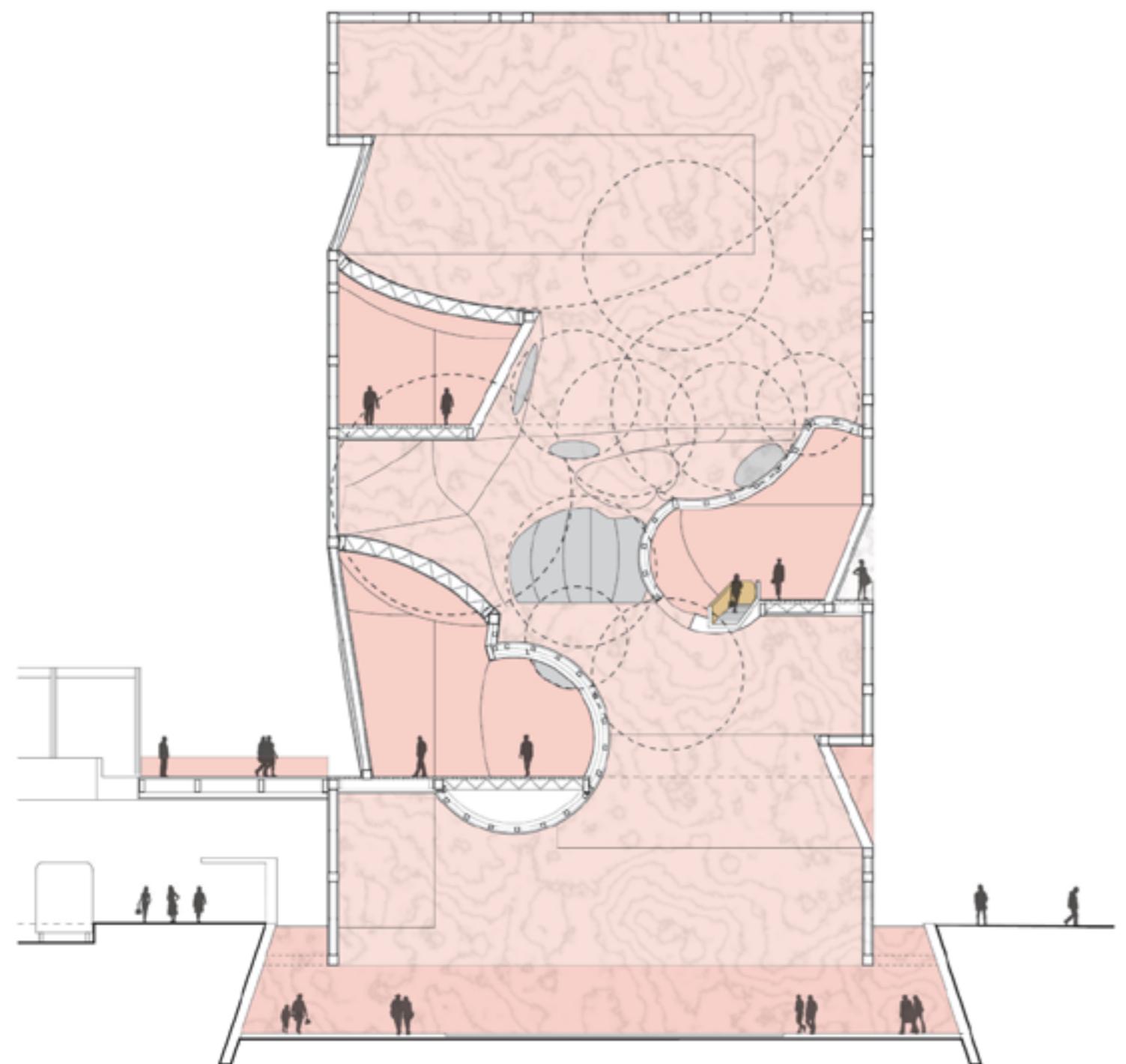
## WAITING ROOM, CAFE, AND TICKETING PLAN



### THIRD LEVEL PLAN

## SECOND LEVEL PLAN

## BRIDGE LEVEL PLAN



# Surface Tension

utah state university college of science, logan, utah  
Collaboration with Amy Landesberg



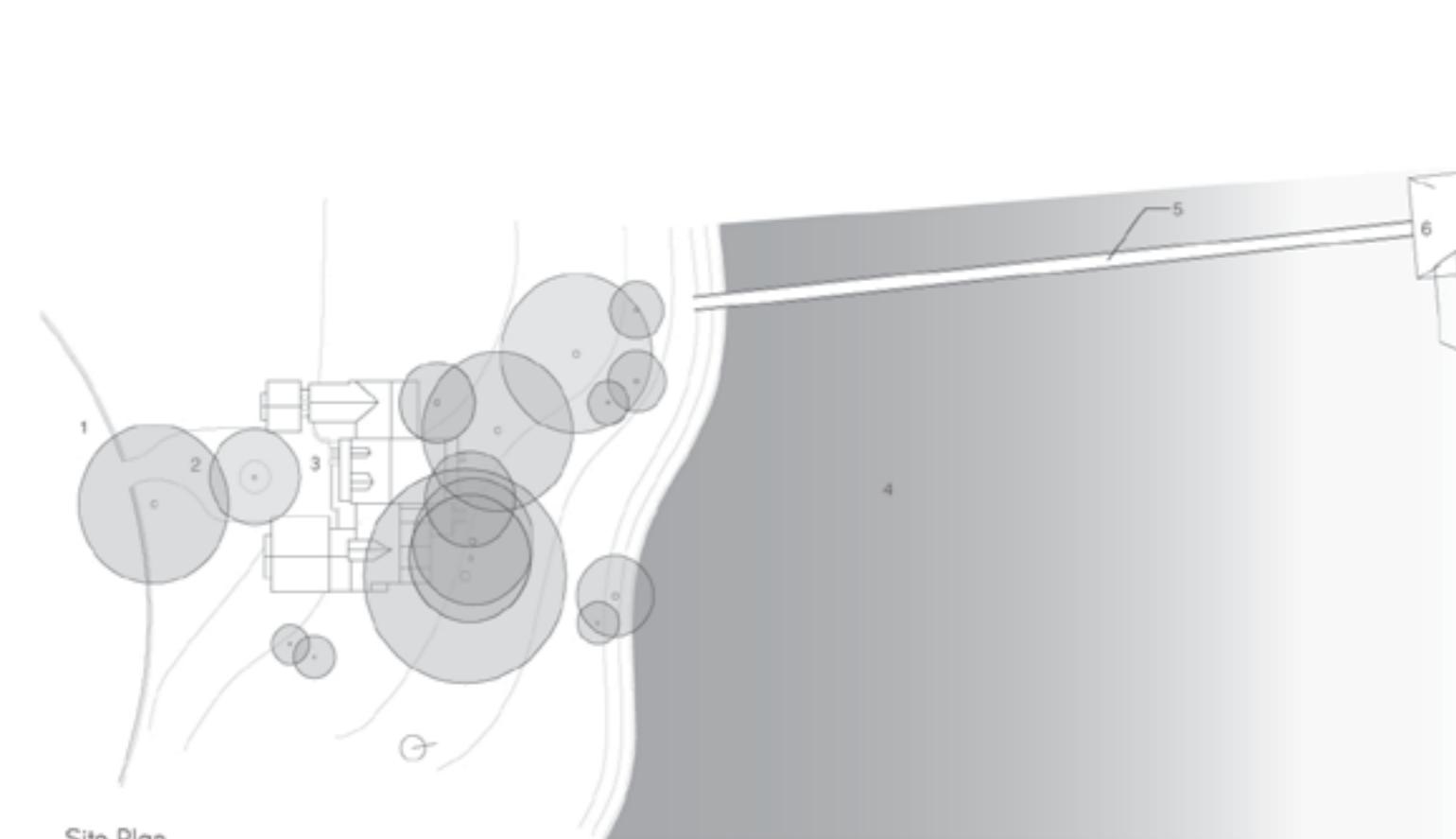
# Dinkler Residence

wilmington island georgia

Savannah Magazine : Homes Spring 2016

Cowart Group Architects savannah, georgia





Site Plan

Site Key

- 1.) STREET
- 2.) DRIVEWAY
- 3.) ENTRY
- 4.) MARSH
- 5.) PIER
- 6.) DOCK / BOAT STORAGE



Plan Key

1.) LIVING ROOM	8.) TWO CAR GARAGE	15.) LIBRARY
2.) DINING	9.) ONE CAR GARAGE	16.) BEDROOM
3.) KITCHEN	10.) HVAC AND DRAWDOWN	17.) HALLWAY / GALLERY
4.) LAUNDRY	11.) MASTER CLOSET	18.) BEDROOM
5.) PANTRY	12.) MASTER BATHROOM	19.) BEDROOM
6.) MUD ROOM	13.) MASTER BEDROOM	20.) STORAGE
7.) FISHING	14.) ENTRY	21.) STORAGE
		22.) SEWING



# Pulaski Exchange

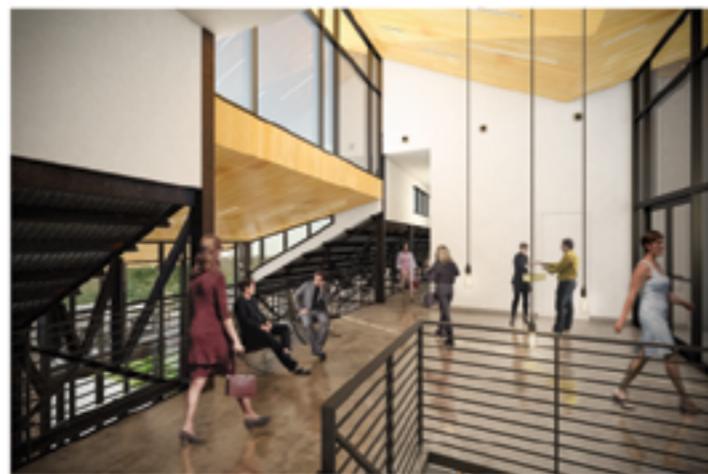
With Bork Design Architects  
Athens, Georgia

Pulaski Exchange is a mixed use project in downtown Athens, Georgia consisting of the adaptive re-use of a 117 year old cotton seed oil plant with the addition of a grafted on second level to this existing building and two new buildings along Pulaski Street with commercial space at ground level and thirteen condominiums spread between the two buildings' upper floors. The new buildings flank an entry plaza leading visitors from the street into the site and existing building. Entry occurs within a new architectural interjection containing vertical circulation as well more importantly acting as a signifier of entry into the existing structure, as well as a unification of the new and existing architectural languages. The re-use of the existing building consists of office suites within the grafted second floor, two dedicated tenents below on each end of the building, a restaurant and a coffee shop respectively, and six small booth spaces to allow for walk up counter restaurants or "pop-up" retail spaces creating a local market within the historic factory space. My work on this project consisted of the design for re-use of the existing building as well as being the lead conceptual designer of the entry signifier / connector for the existing building and plaza. As well as construction documentation of all buildings on the site.

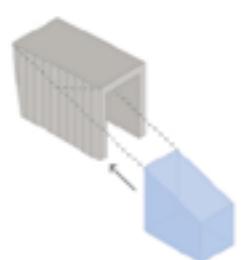




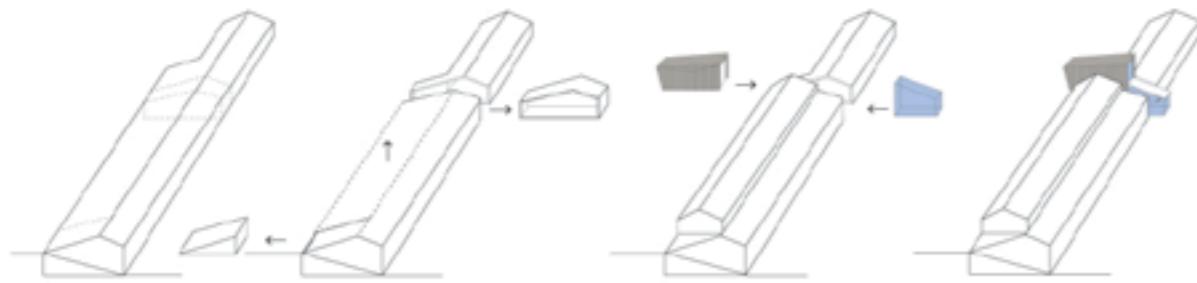
MARKET INTERIOR



ENTRY CONNECTOR INTERIOR



ENTRY CONNECTOR



MARKET TRANSFORMATIONS



SITE KEY

- 1.) BUILDING 100 (EXISTING BUILDING)
- 2.) BUILDING 200
- 3.) BUILDING 300
- 4.) PLAZA
- 5.) PARKING
- 6.) OUTDOOR SEATING
- 7.) EXISTING HISTORIC BRICK SIGN
- 8.) ENTRY



PLAN KEY

- 1.) CAFE / COFFEE SHOP
- 2.) BOOTH SPACE
- 3.) COMMON SEATING
- 4.) ENTRY
- 5.) RESTAURANT
- 6.) OFFICE SUITE
- 7.) BREAKROOM / RESTROOMS
- 8.) MECHANICAL



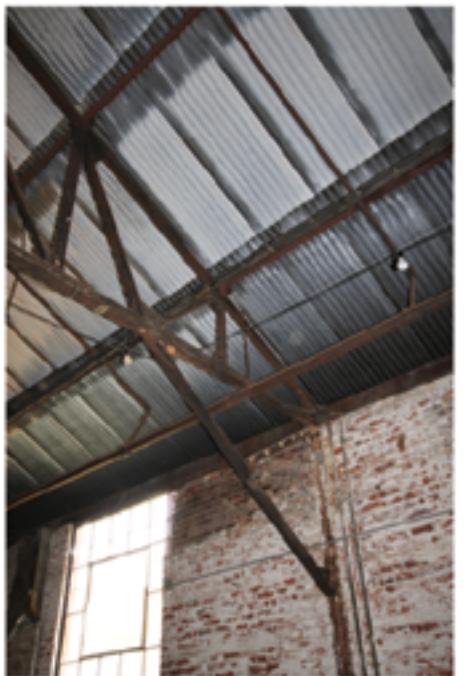
REAR PERSPECTIVE



SECTION THROUGH  
ENTRY AND PLAZA



REAR ELEVATION



EXISTING CONDITIONS



PULASKI STREET ELEVATION

# Herstand Hall

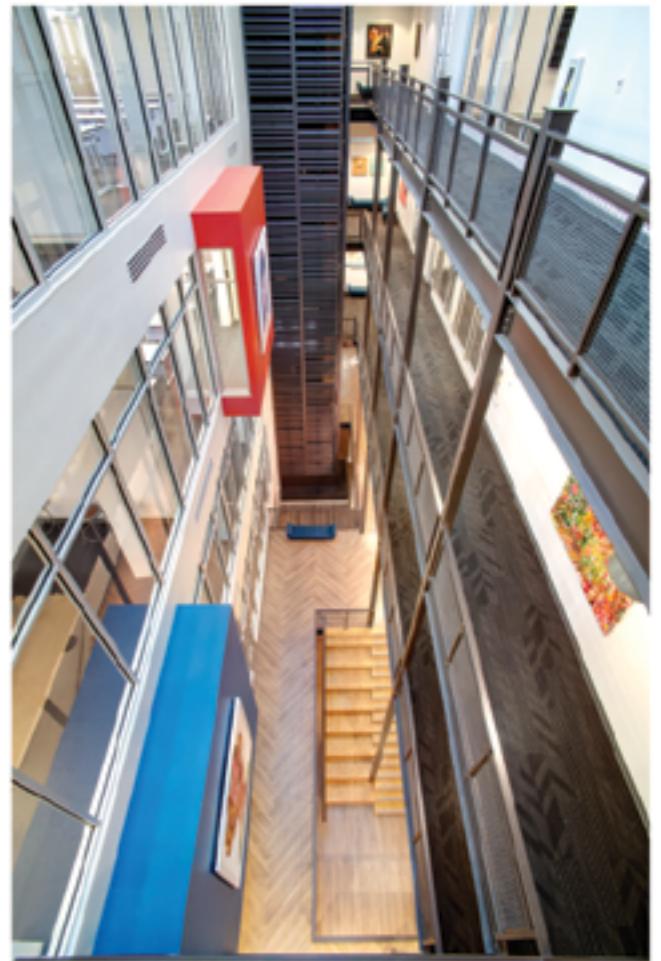
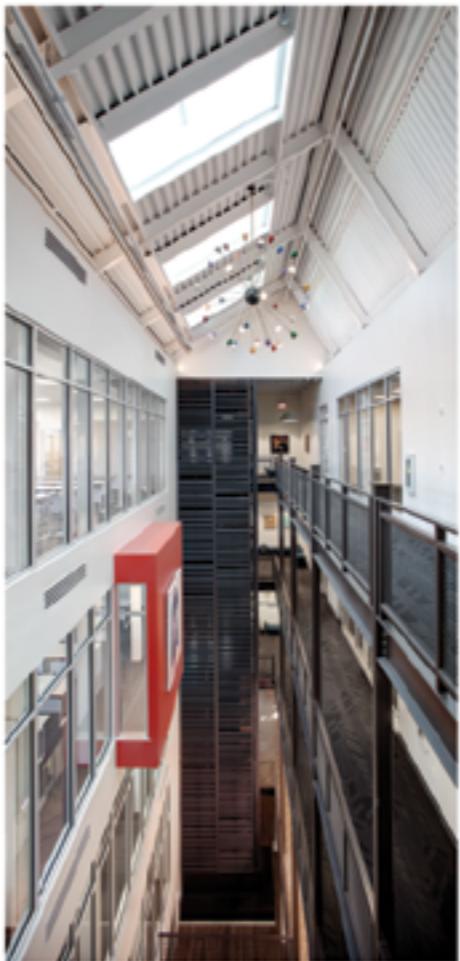
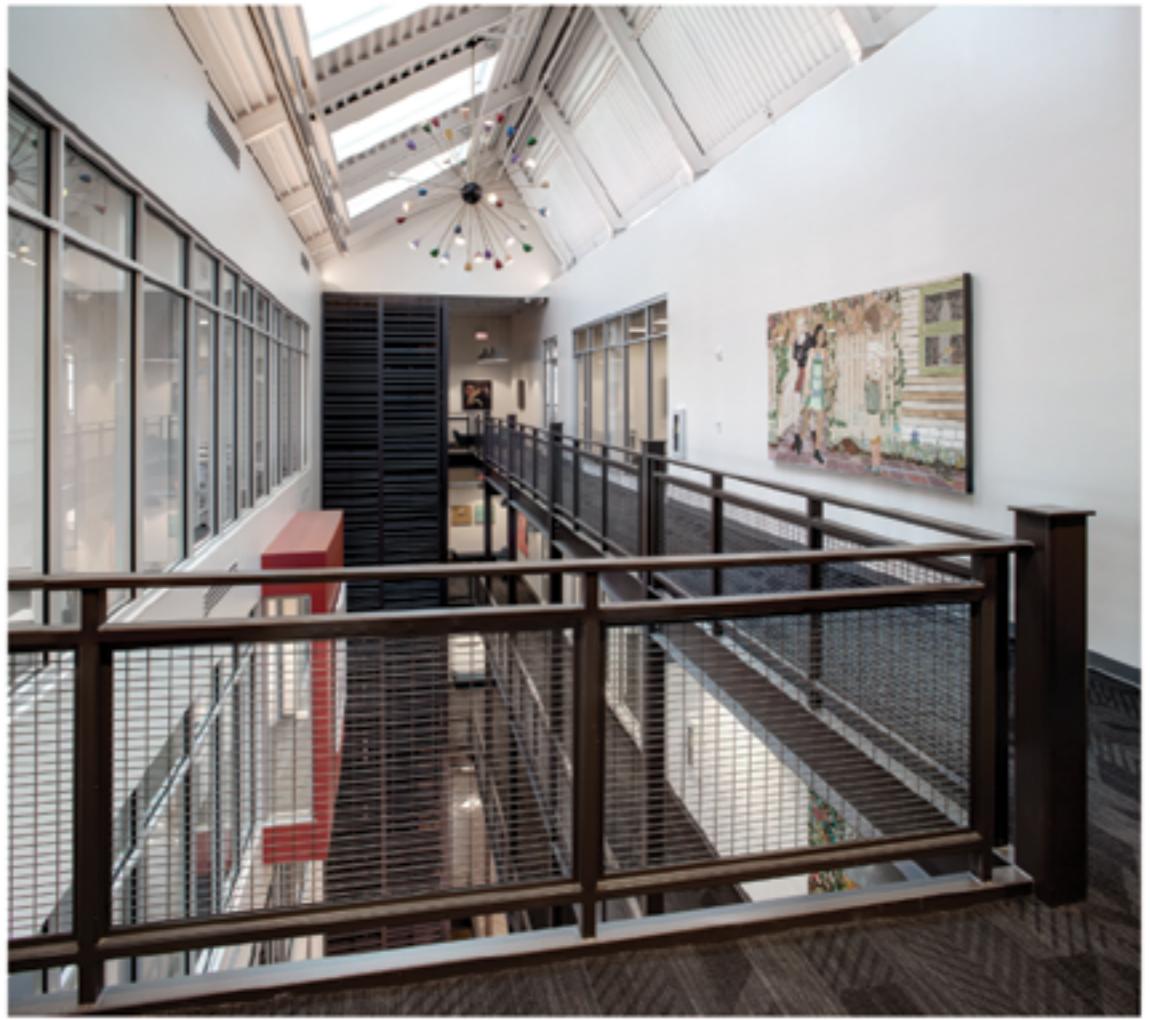
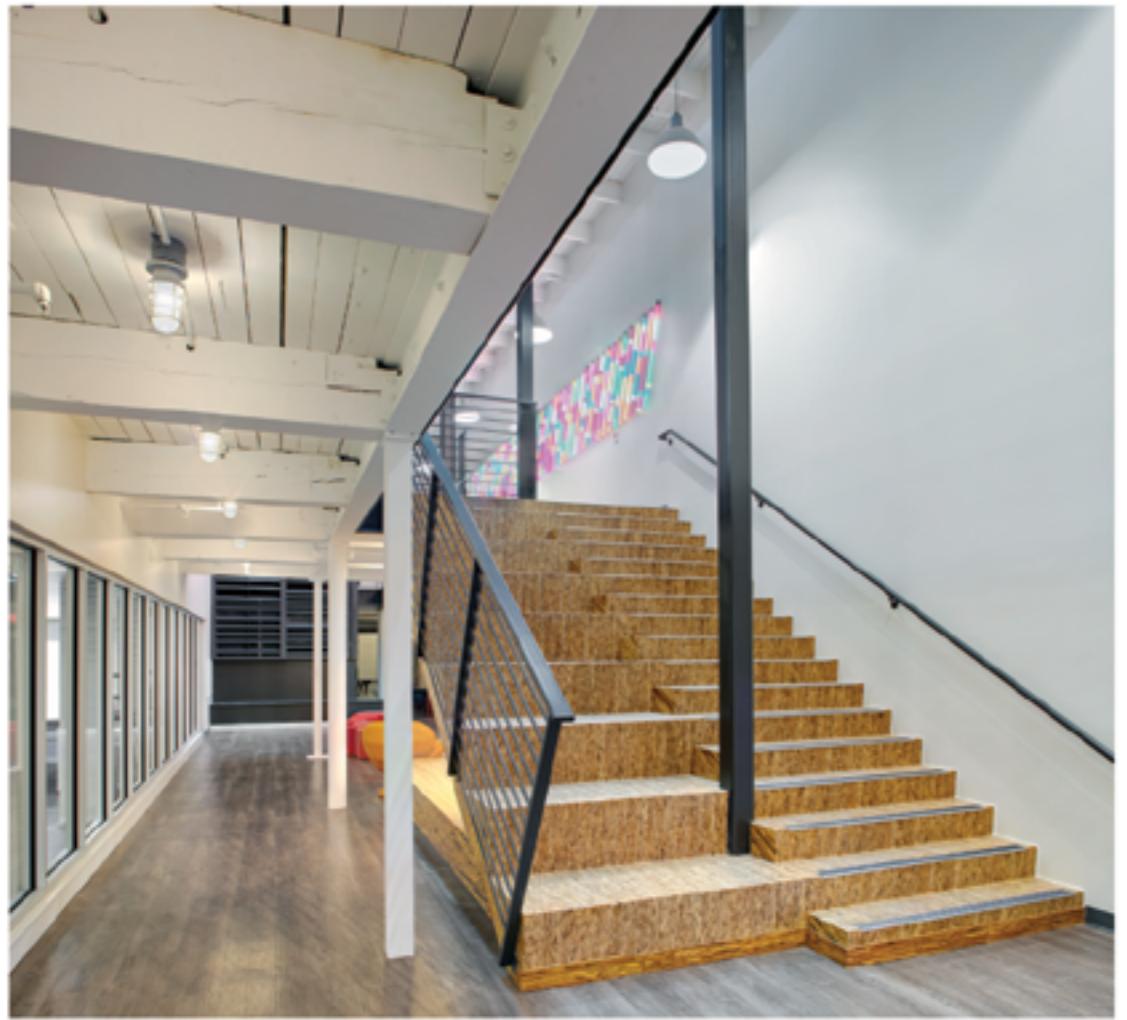
With Hansen Architects  
savannah, georgia

Built in 1926 by architect Cletus Bergen, this five-story, 40,718-square-foot structure originally housed Slotin and Co., one of the largest dry goods wholesalers in Savannah during the early 20th century. The building was partially renovated in the 1980s an effort that included partial removal of the heavy timber structure to create the current open five-story atrium which needed to be completely restructured for its contemporary re-use.

Current renovation plans for Herstand Hall include adding computer labs, foundation studies classrooms, lecture rooms and faculty offices, as well as open lounge, study and gathering spaces. Renovations also included the addition of a mass timber grand stair also incorporating seating, and cantilevered crit spaces suspending students into the atrium while presenting their projects. These elements as well as all railing profiles were parts of the project that I personally designed and developed.

( Photos courtesy of Hansen Architects )





LAMINATED PSL GRAND STAIR WITH INTEGRATED LED LIGHTING FOR DISPLAY PEDESTAL

