Esau Misael Rodriguez Padilla

LEED Green Associate, CDT

Education

North Dakota State University - Fargo, ND
Masters of Architecture - May 2015
Bachelors of Science in Architecture - May 2014
Peter F. McKenzie Award Finalist- Thesis Design

Dunwoody College of Technology - Minneapolis, MN
Associate of Applied Science in
Architectural Drafting and Estimating - June 2010

Objective

Architectural entry level career that allows me cultivate my knowledge in design and sustainability.

Proficient

Revit, AutoCAD, SketchUp, Adobe Suit, Microsoft Suit and Maxwell Render.

Hand drafting, Sketching, Renderings and Model Making

Mackerbot 3D Printing and laser cutting

Efficient

Skilled with Knowledge with passive environmental control systems.

Construction documents commercial/residential codes such as IBC, ADA and ADAAG.

Basic

Rhino3d, Bonzai 3d, Vasari and Grasshopper

Slight knowledge with the CSI Master and Uni format, Project Management and Estimating.

Work History

JLG Architects - 2013 - Present

Ward County Office Building - Revit redlines, ceiling plans, call outs and details.

Dale Kilwein Memorial - Revit, code reviews, schematic design, red lines

ACME - SketchUp, Podium Rendering and Photoshop.

Park Co. - Client meetings, meeting minutes, ACAD drafting, site plans, Illustrator.

Past

NDSU TRiO - Office Assistant
TRiO Upward Bound - Spanish TA
McDonalds
Hollister

Community Involvement

USGBC GreenBuild Volunteer - (2014)
Green Apple Day of Service - (2014)
NDSU Community Service Opportunities - (2011)

Extra-Curricular Activities

USGBC Student Member - (2012-2015)
McNair Scholar - (2011-2013)
Outward Bound Leadership Camp - (Summer 2010)
Other languages: Spanish (fluent)

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DESIGN
PORTFOLIO

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OAK HOSPITAL

OAK HOSPITAL SITE PLAN

In August 2005, hurricane Katrina destroyed and flooded most of New Orleans. Due to the hurricanes, many people were traumatized requiring a place to recover. In addition to trauma, healthcare facilities should focus on rising healthcare conditions such as heart conditions, diabetes, cancer and asthma. Overall, designing a well-rounded healthcare facility should embrace the context, allowing the spaces to heal occupants physiologically by incorporating nature and the landscape .

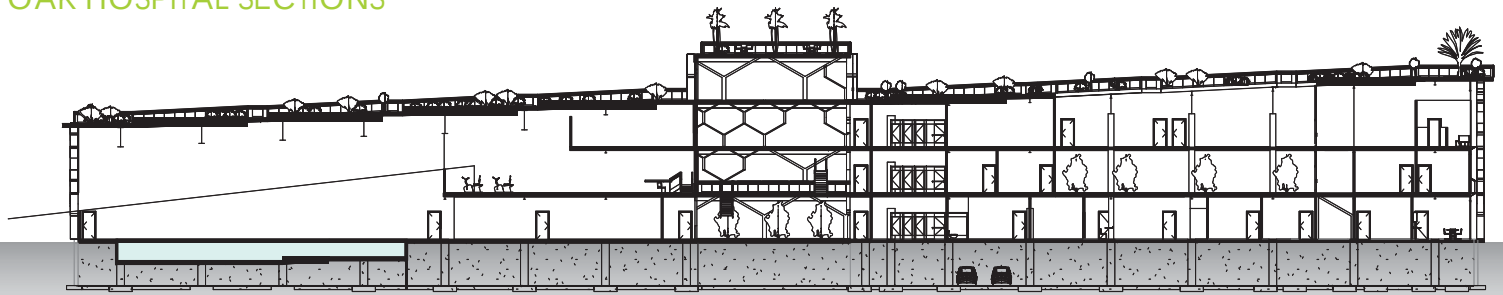
OAK HOSPITAL LOBBY

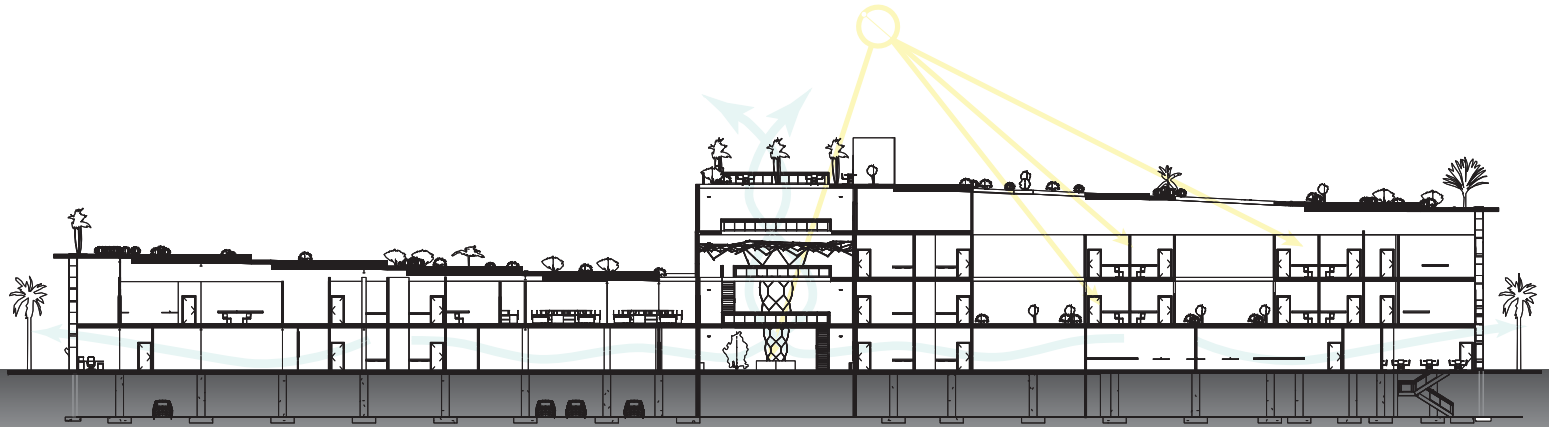
OAK HOSPITAL FIRST FLOOR PLAN

The next step to this puzzle is to observe how biological evolutions have transformed in New Orleans. These studies will allow for discoveries on how specific natural features can generate architectural structures. By researching biomimetic elements throughout New Orleans (specifically the Seven Sister Oak Tree) I will hopefully discover elements that assist my design.


COURT YARD

OAK HOSPITAL SECTIONS

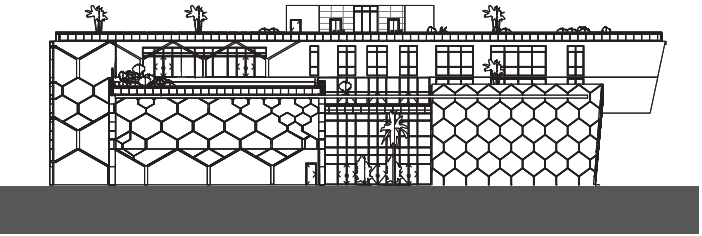


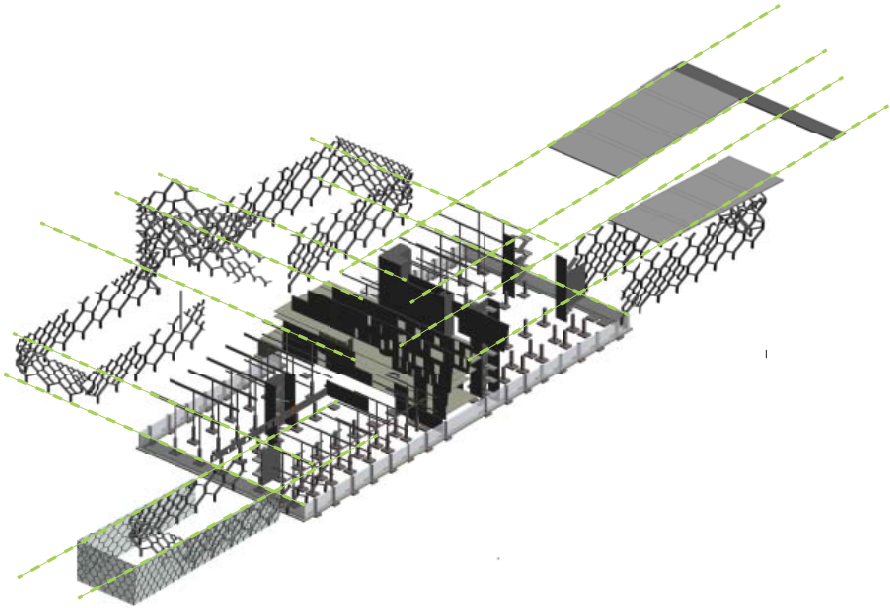


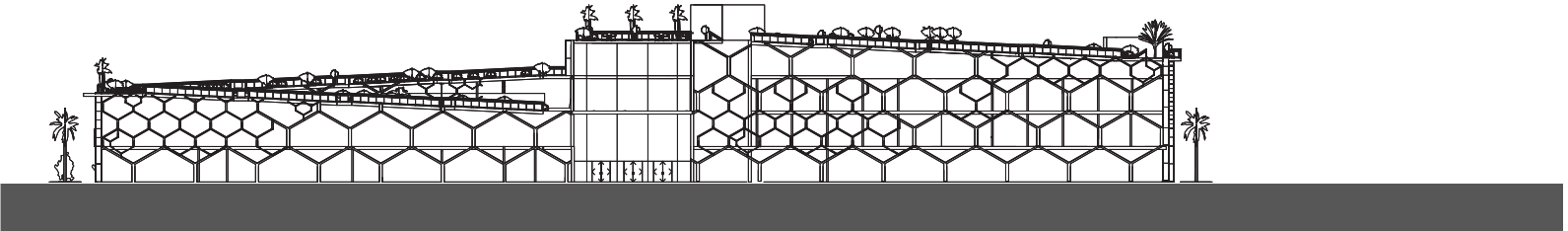
NATURE POCKET

As we continue to separate from nature, we are potentially decreasing the ability to nurture from it. Throughout my design, a subconscious healing environment will be created through the fusion of biophilia and the built form. Spaces will be formed by natural materials followed by passive systems; forming an ecological building. A key element to my design will be the integration of air, light, water, and plants within every room, if possible.

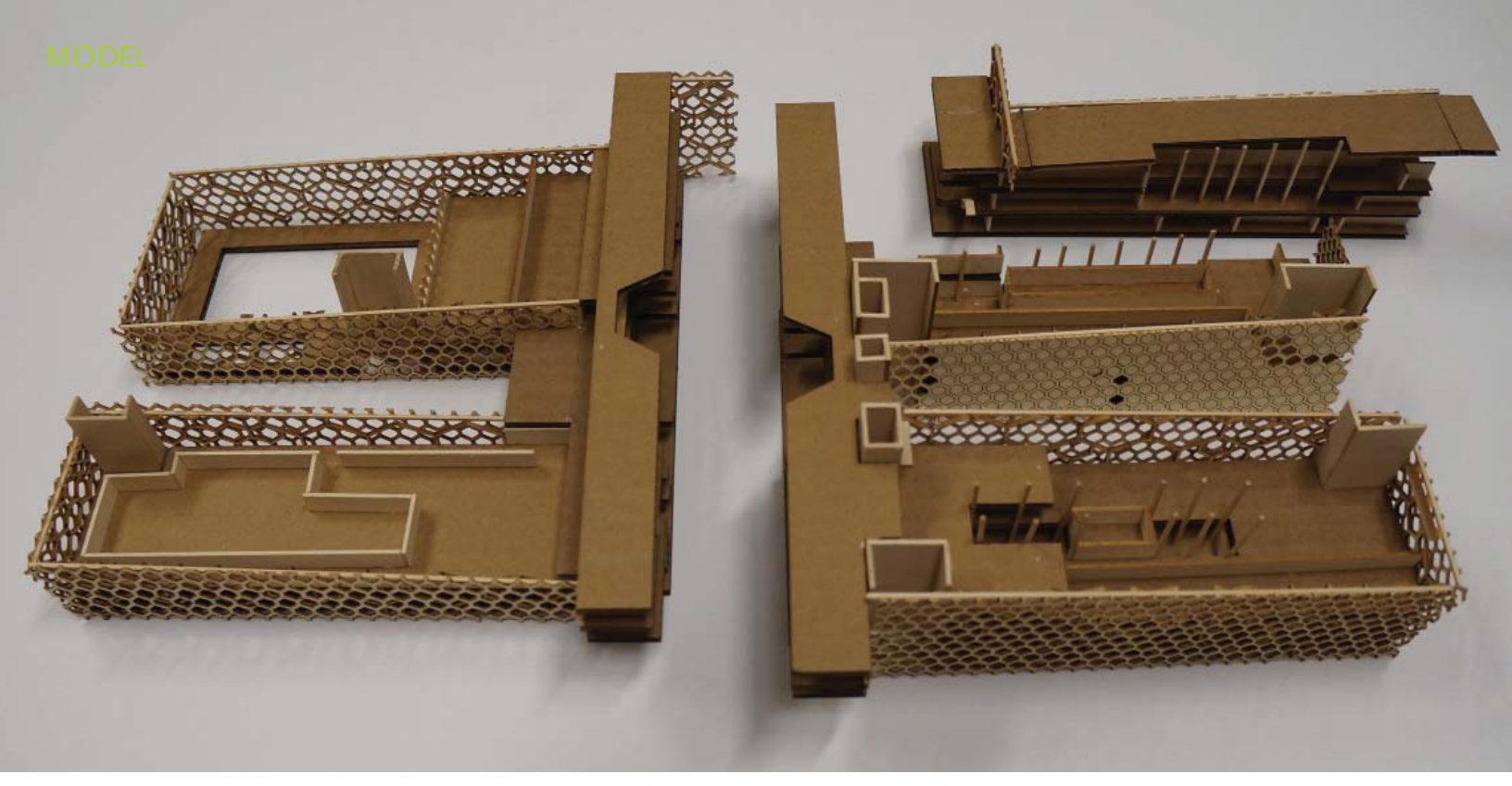
OAK HOSPITAL STRUCTURE AND STRUCTURAL ELEVATIONS

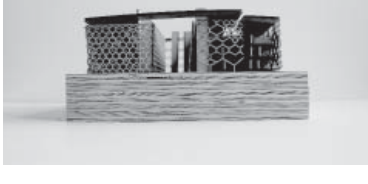




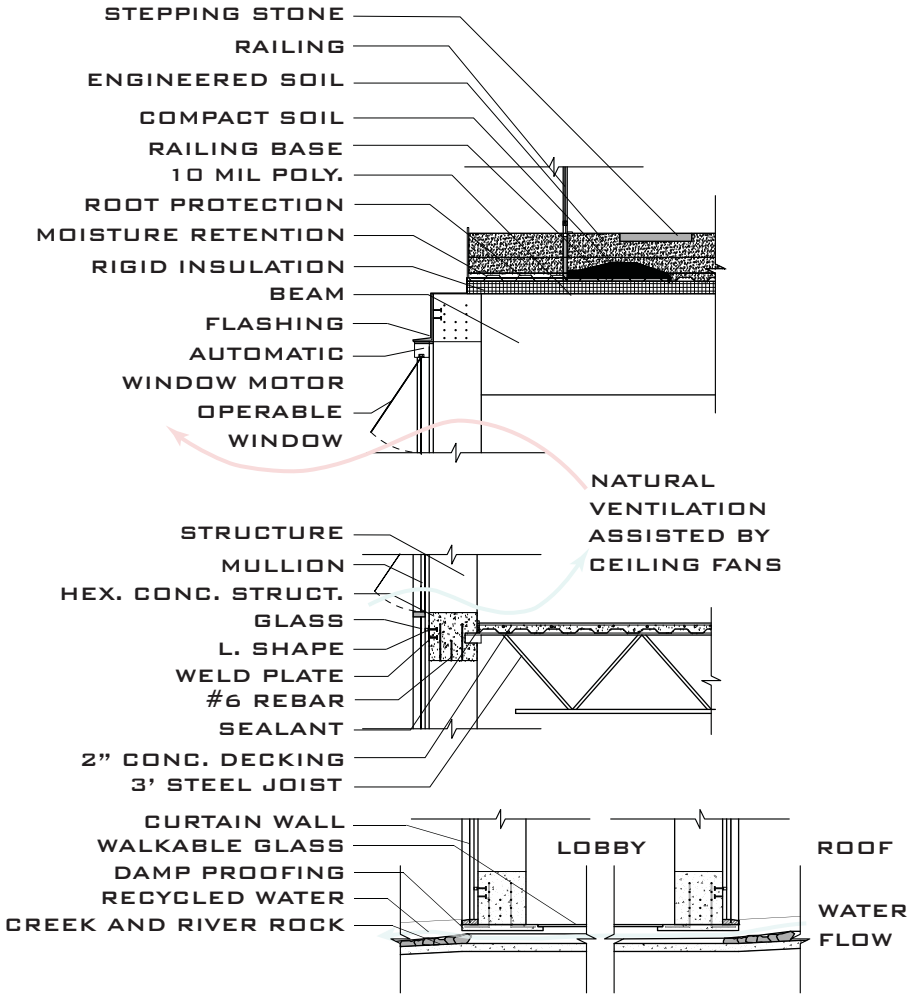


MODEL

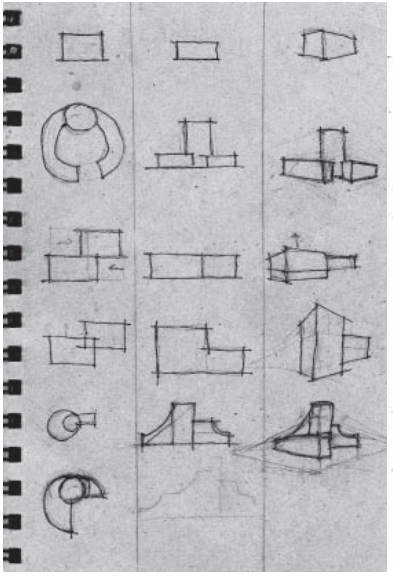


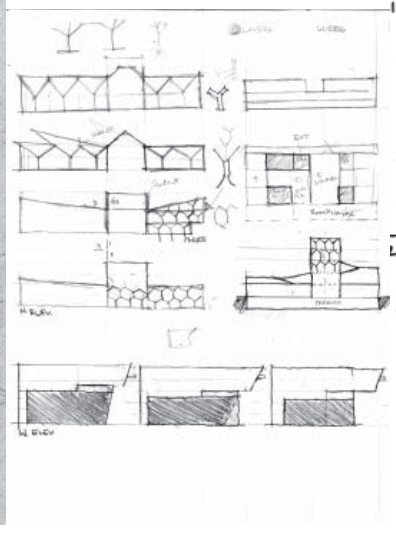


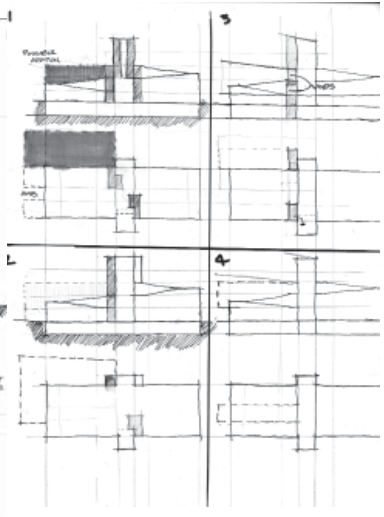
OAK HOSPITAL DETAILS

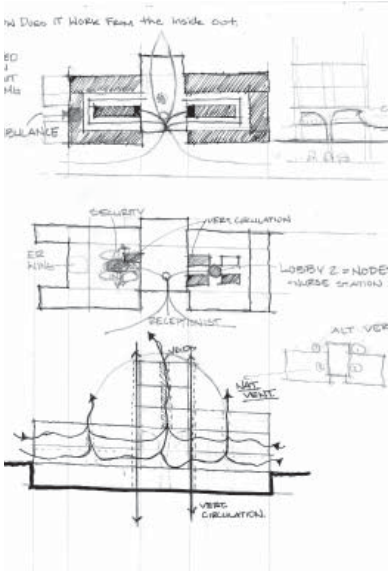


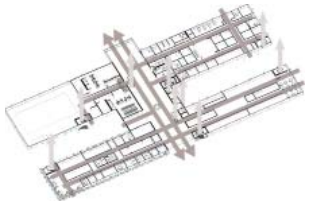
PROCESS

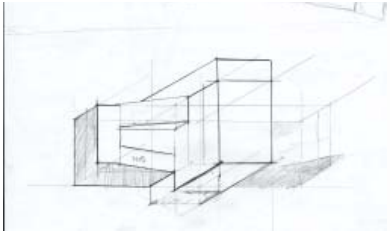


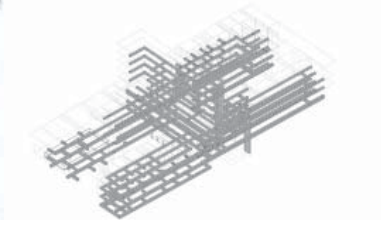


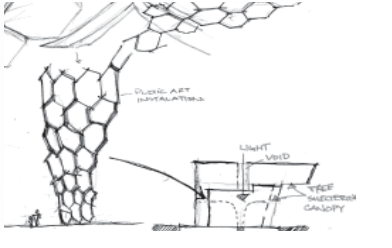



How Does It Work From the Inside out
BALANCE
SECURITY
VERT CIRCULATION
LOBBY 2 = NODE
NURSE STATION
RECEPTIONIST
ALT VERT
VERT CIRCULATION

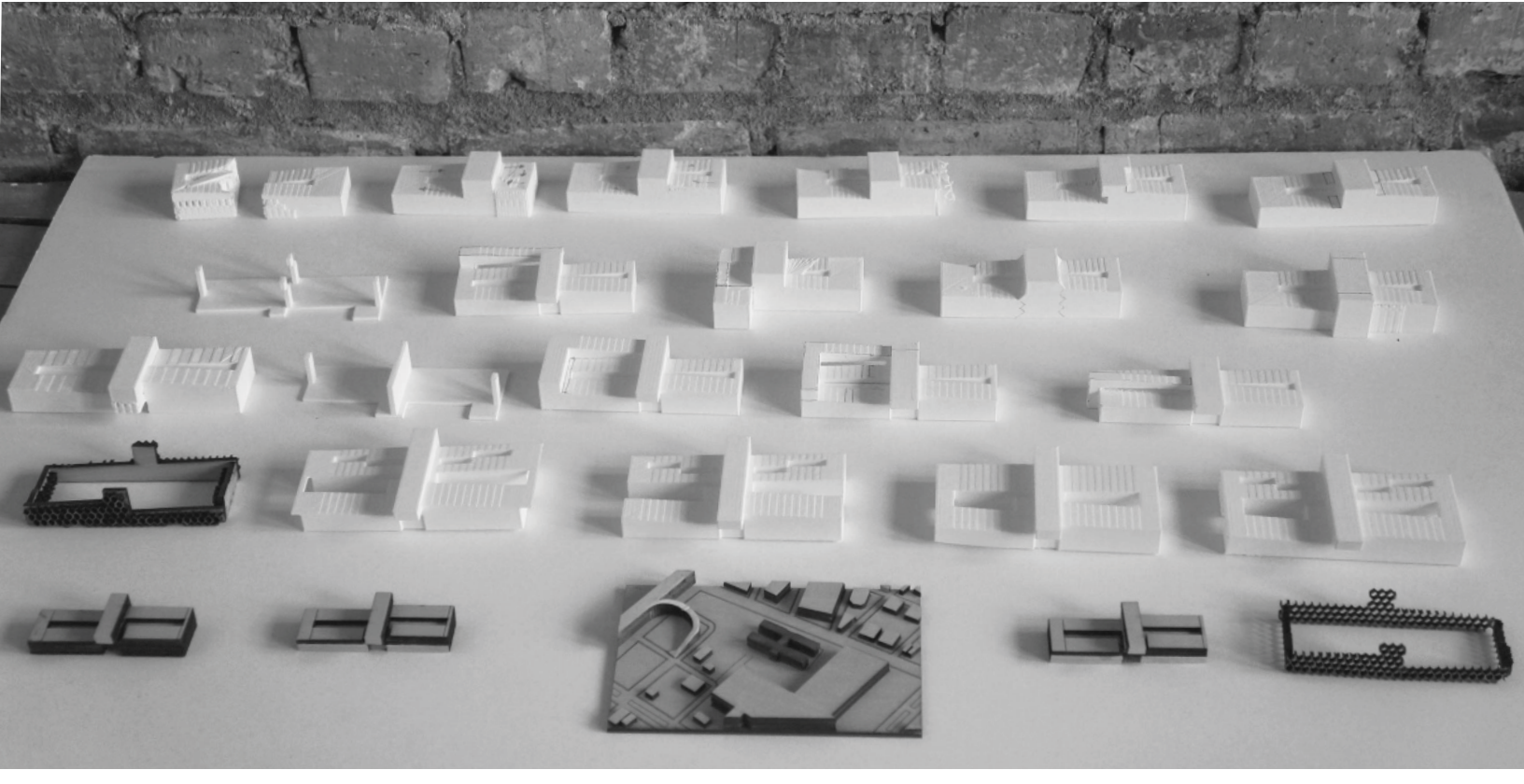







PUBLIC ART INSTALLATION
LIGHT VOID
TREE SHELTERED CANOPY

PROCESS MODELS



DI-VERT TOWER

Dia-grid structural system

Design Partner Sam Erickson.

Passive Ventilation

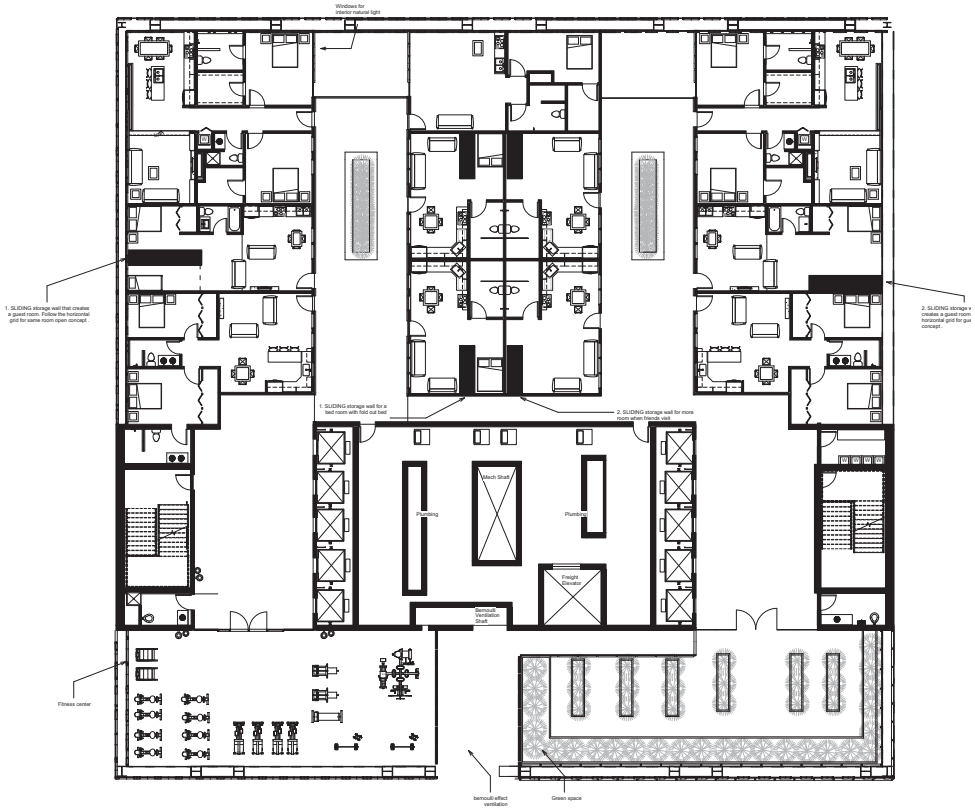
The design is based off of the transit systems, views to the harbor, and San Andrea's fault line.

Metaphor : San Andrea's fault line.

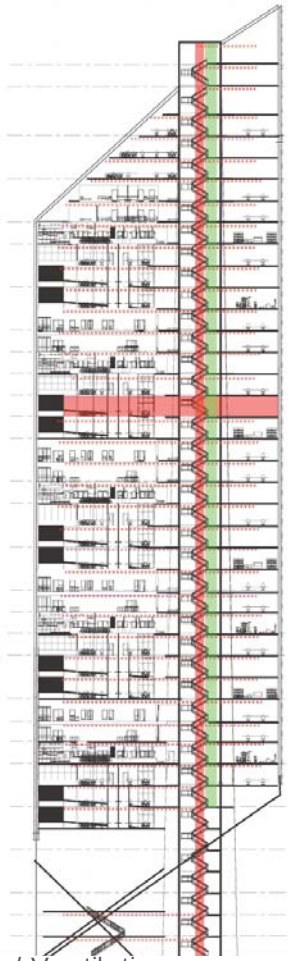
The tower is shifted in half similar to tectonic plates. The gap created by the shift on the Southwest structure creates a wind tunnel allowing the tower to ventilate itself due to the Bernoulli Effect.

Vertical Communities

DI-VERT TOWER

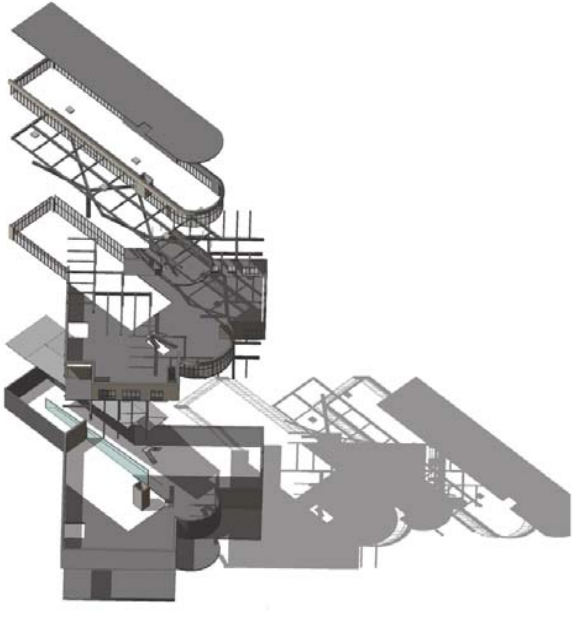


Level 10 LIVING
1/8" = 1'-0"



Mech / Ventilation

STRATUM MUSEUM

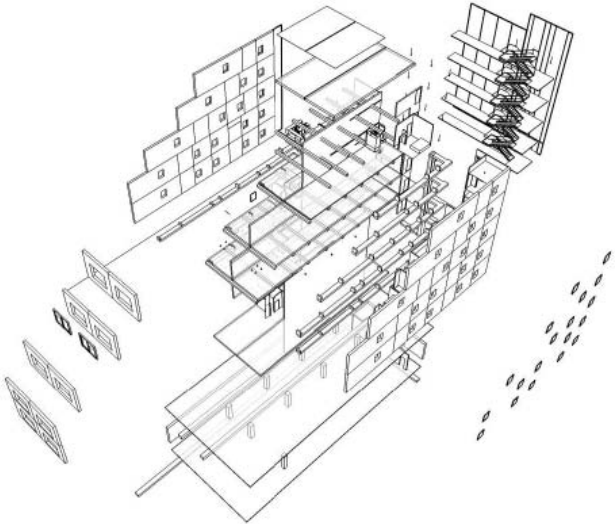


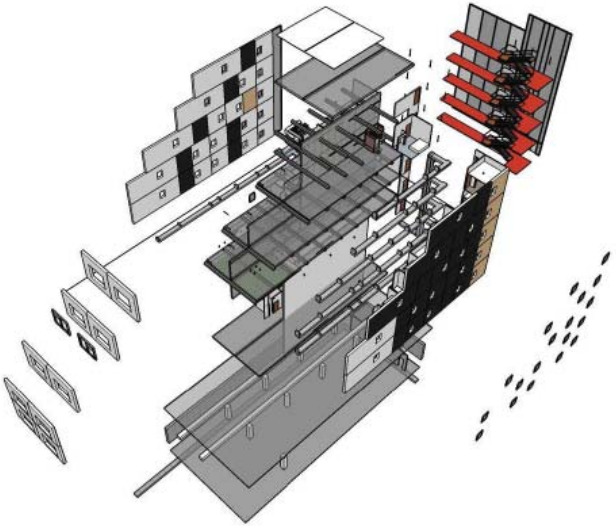
The ability to explode a building so that the structure may be explored.

Stratum Museum displays fossils and dinosaurs. The main design is a ramp as the person explores farther down, they learn more similar to digging fossils.

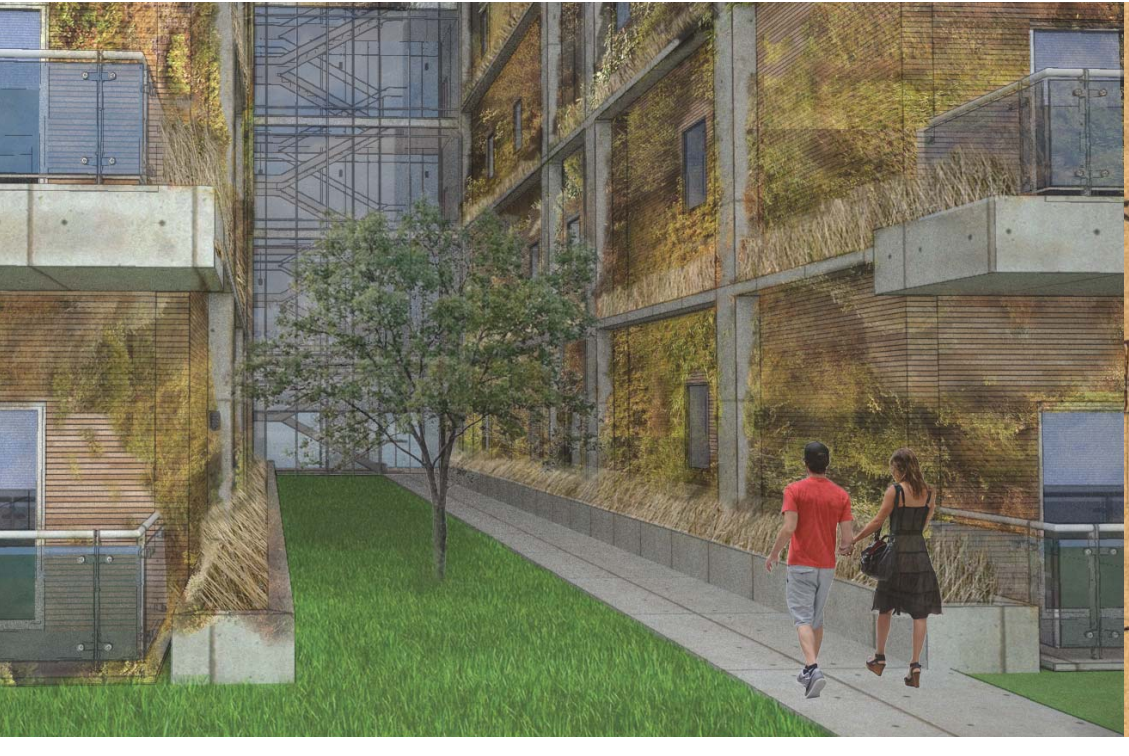
INHERITANCE

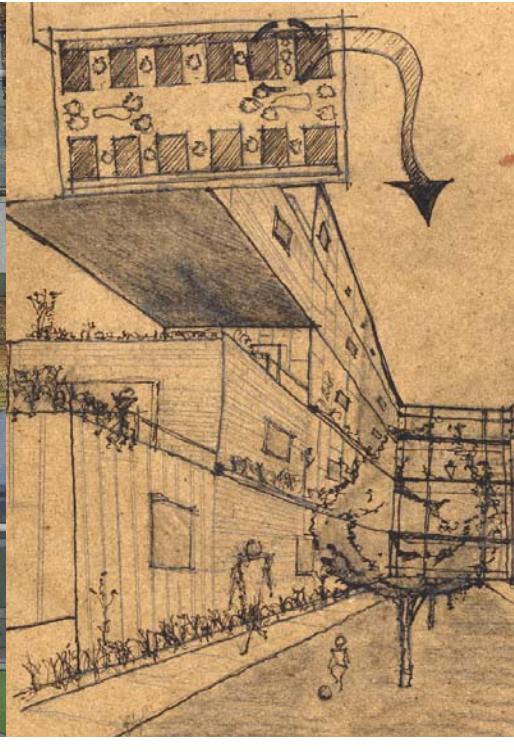
House 1000 new residents
Local materials
Cost, light, air, structure
Social gathering space
Interchangeable units
Reduce urban sprawl



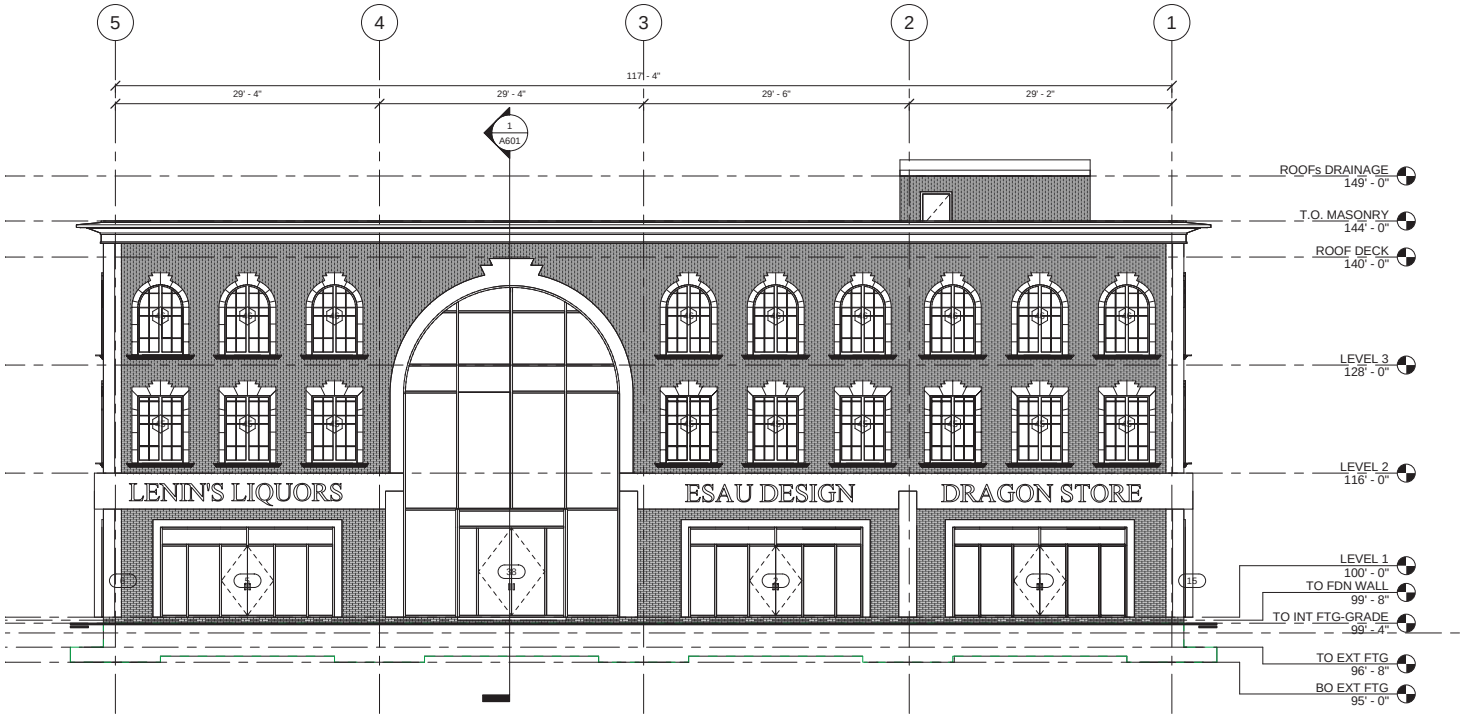


INHERITANCE



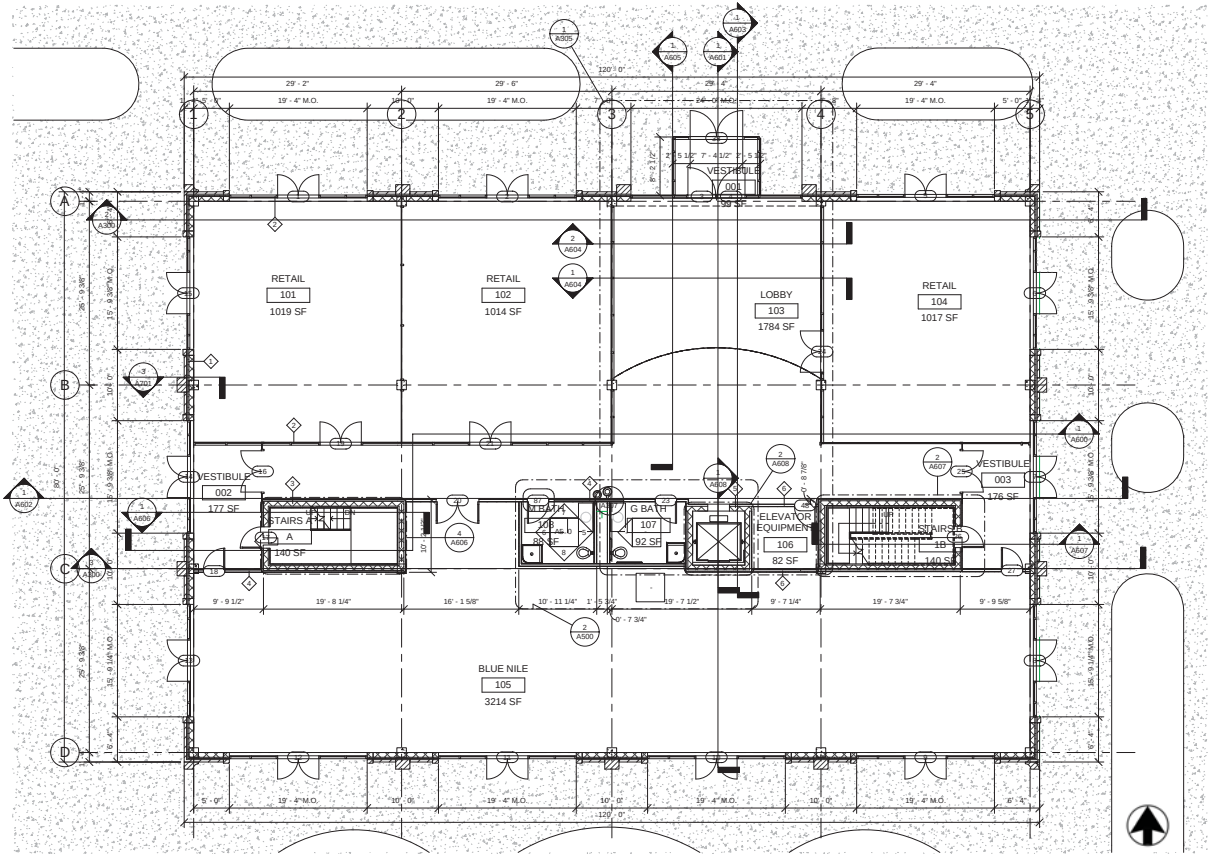


DUNWOODY COLLEGE

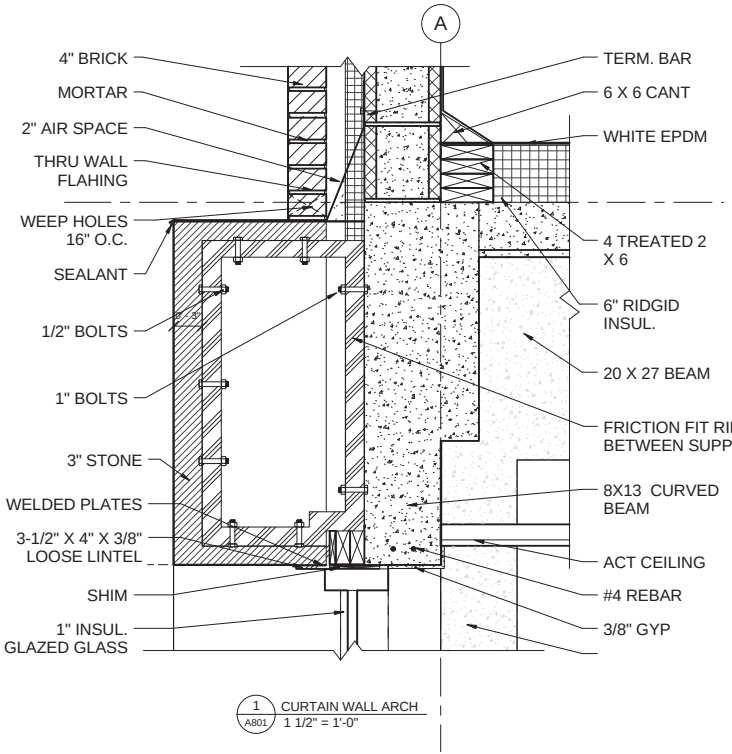


1 A401 NORTH ELEVATION
1/8" = 1'-0"

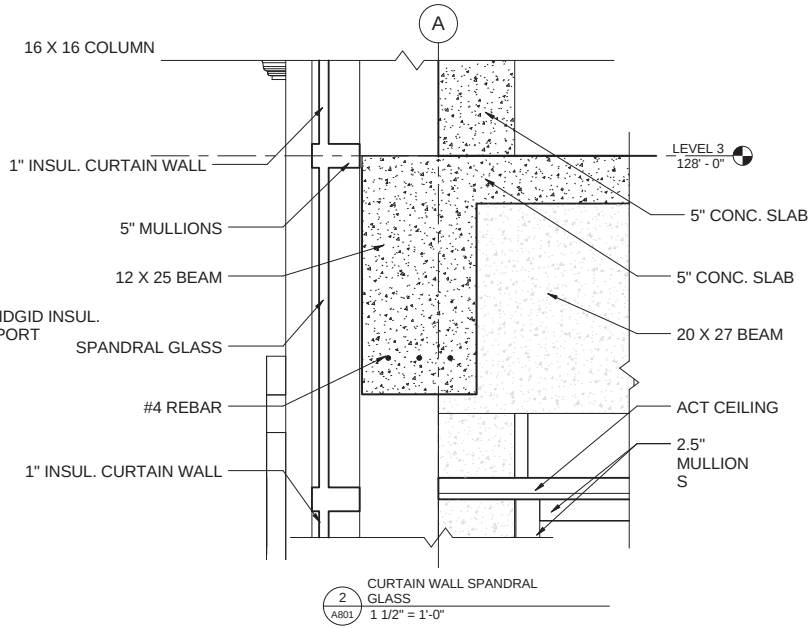
DUNWOODY COLLEGE



GATEWAY BUILDING



1 A801 CURTAIN WALL ARCH
1 1/2" = 1'-0"



2 A801 CURTAIN WALL SPANDRAL GLASS
1 1/2" = 1'-0"