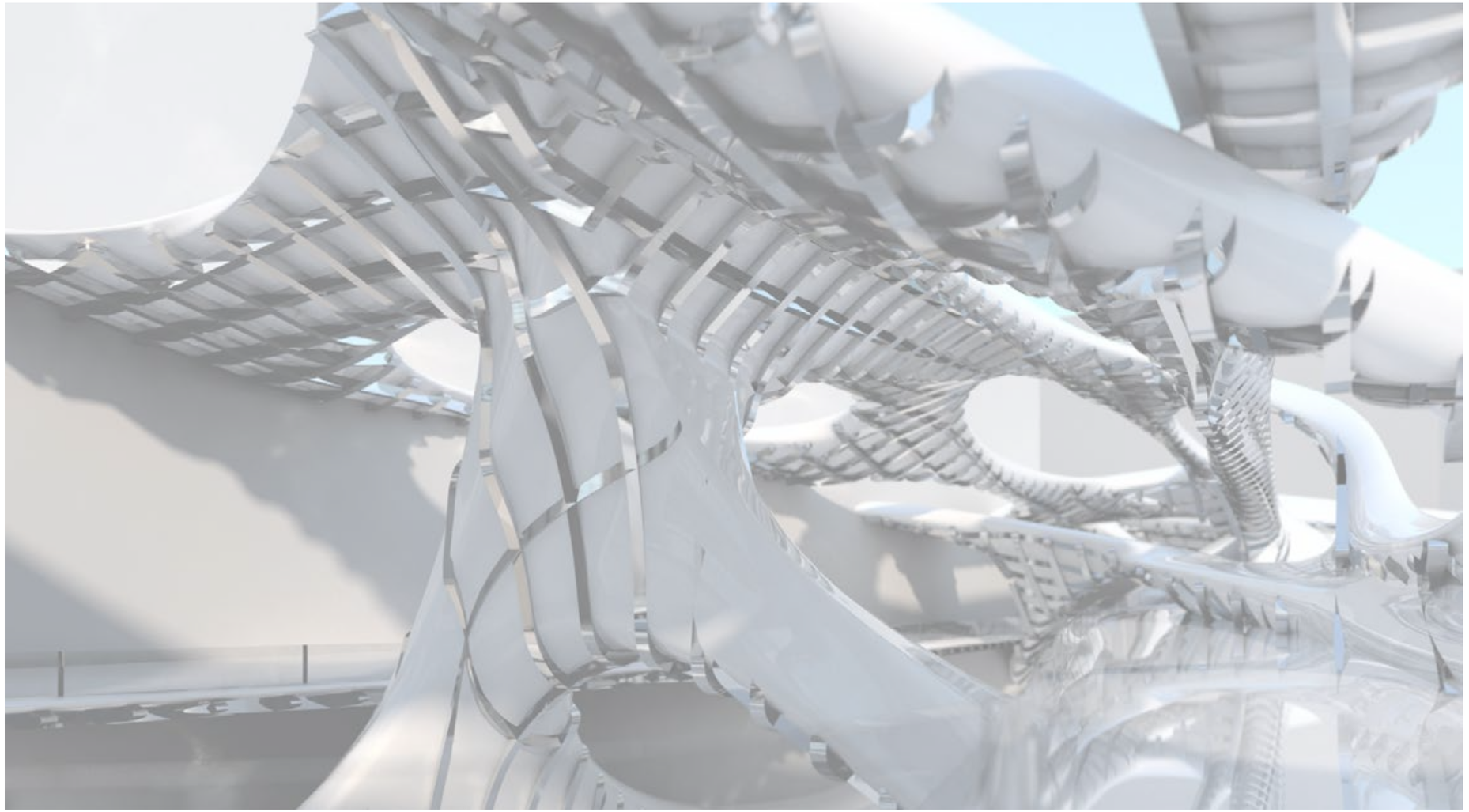
Kevan Kasmai, RA

Architecture Portfolio



Hello,

My name is Kevan Kasmai

I’m a Registered Architect, licensed and working in New York, NY, looking to move my career to a new city. I’m a graduate of Florida International University with a Masters in Architecture. The projects contained in this portfolio represent a sample of some of the work I’ve done throughout my career and education. I have a passion for Architecture, design and fabrication. My work experience and education have allowed me to expand my knowledge upon each of these. I look forward to continuing my journey in Architecture and design.

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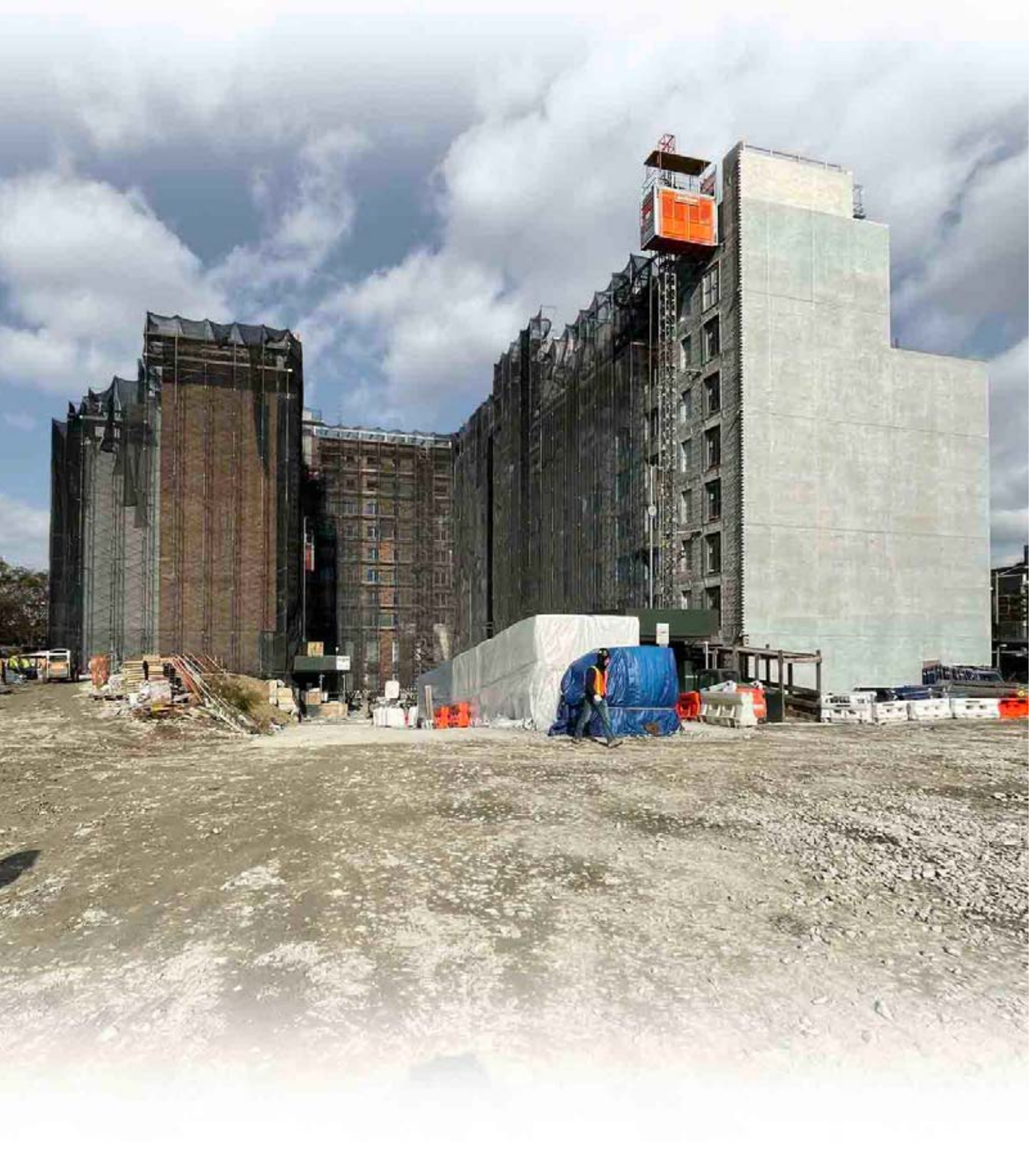
Mixed Use

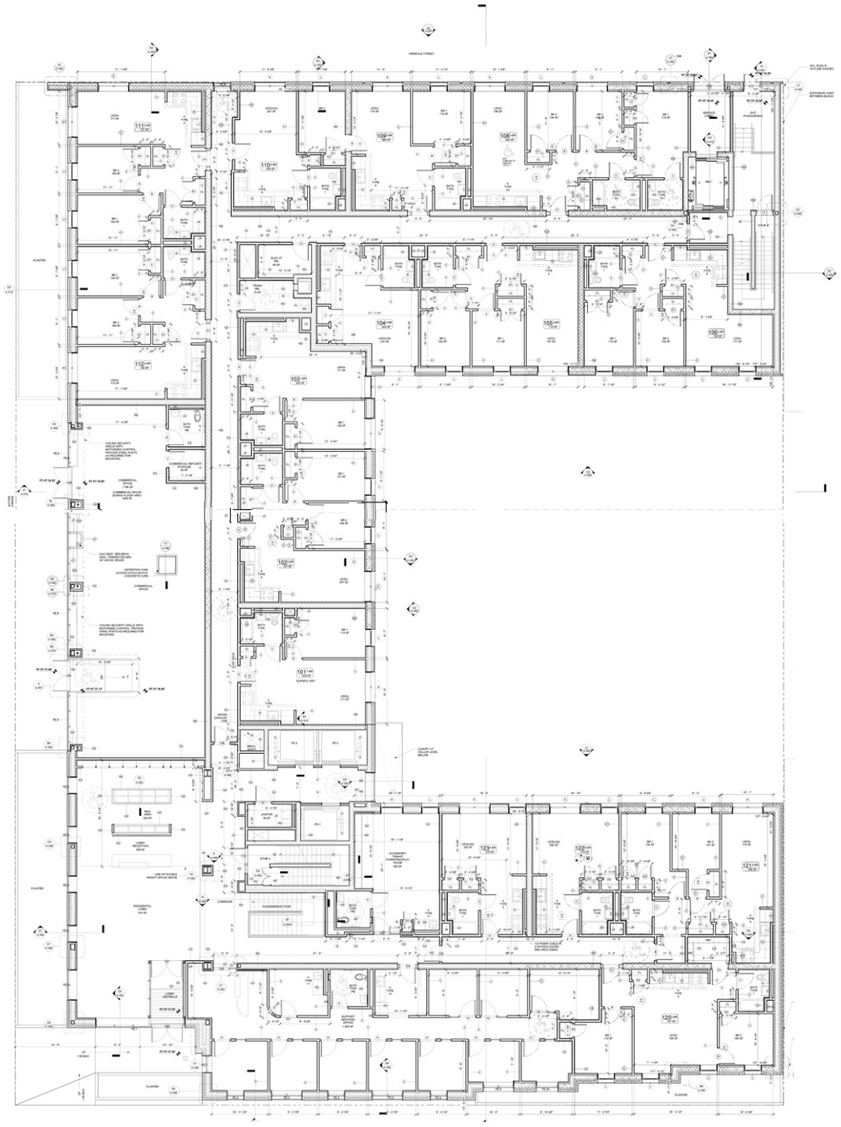
Supportive Housing
Curtis + Ginsberg Architects

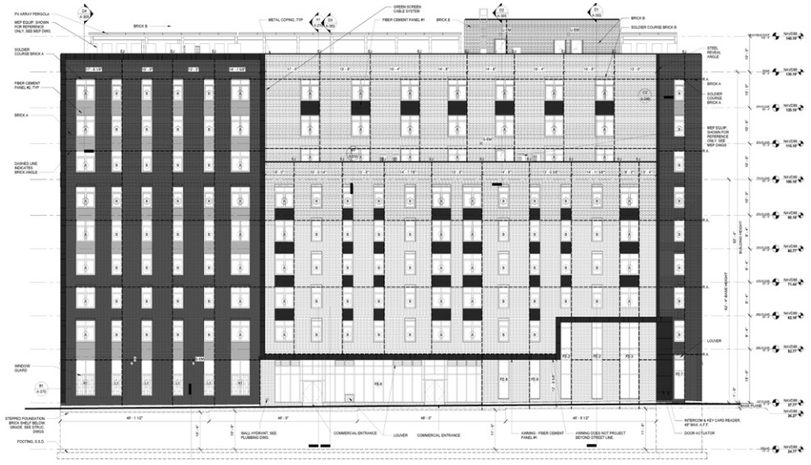
Help One | Containing over 500 supportive and affordable housing units over 500,000 Square Feet, Help One is on track to become one of the largest PassivHaus buildings in the nation. The project uses a block and plank structure, along with ERVs, VRFs, and a tight high R value thermal boundary to exceed the most stringent energy standards in the country.

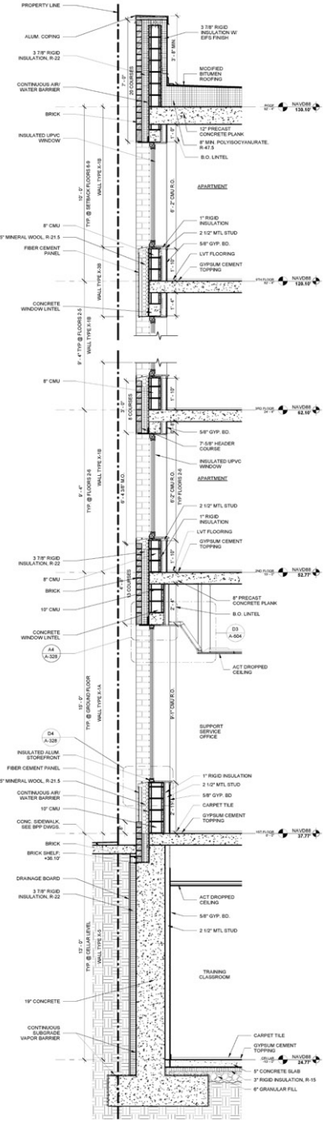
Throughout the entire block project, the four buildings also include much needed social services offices, A domestic violence counseling center, community facility spaces (including a mixed media dance and performing arts center), thousands of Square Feet of commercial space, and an expansive inner courtyard filled with residential amenities. These will all work together to help support at risk members of the community at large.

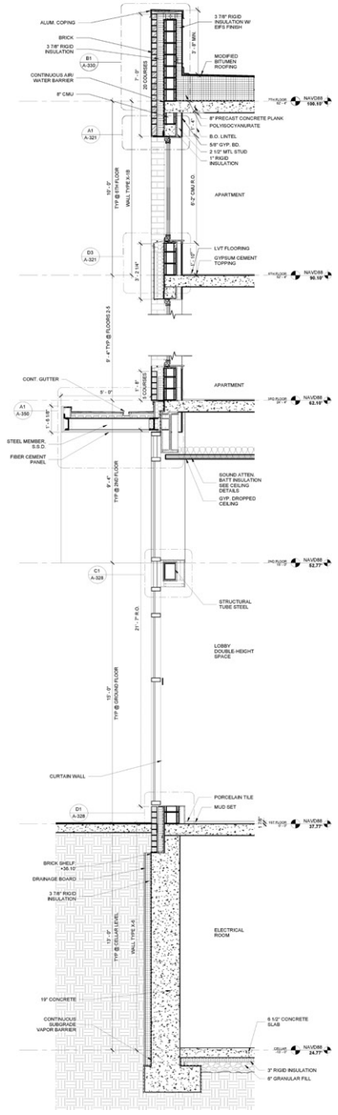
My involvement with the project began towards the end of Schematic Design, where I was brought on to help see the project through design and construction. My work on the job continues as I manage the ongoing Construction Administration process, coordinating with the GC, the trades, the client, and our various consultants, as we work to get the project to final completion.

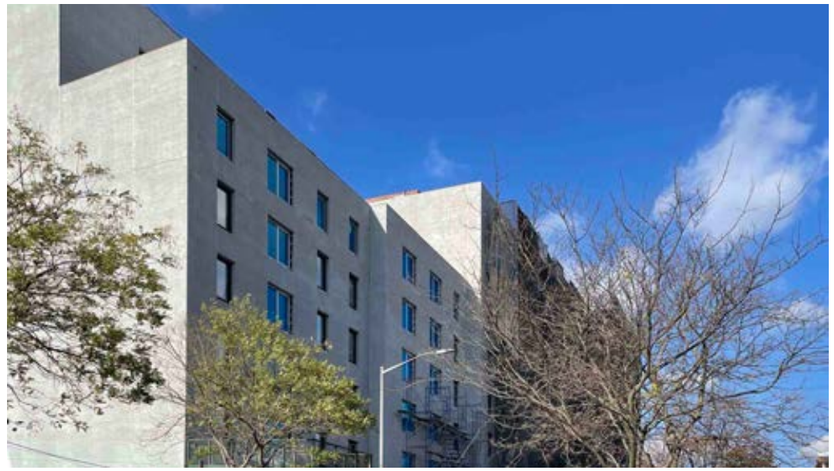


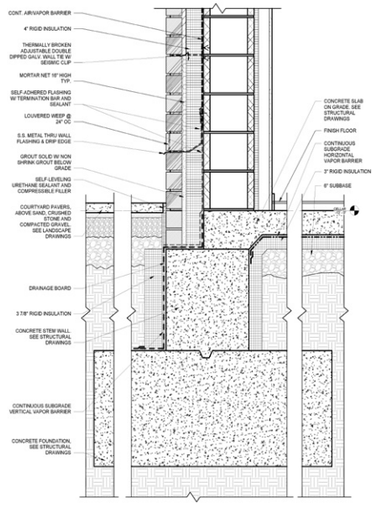


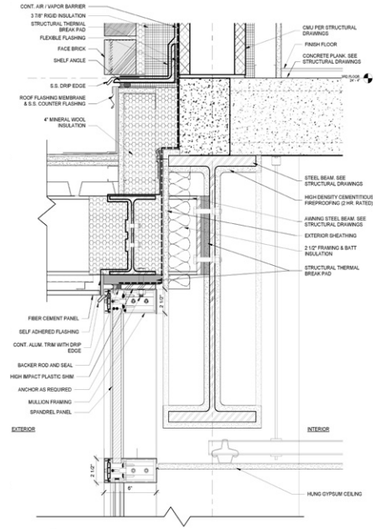


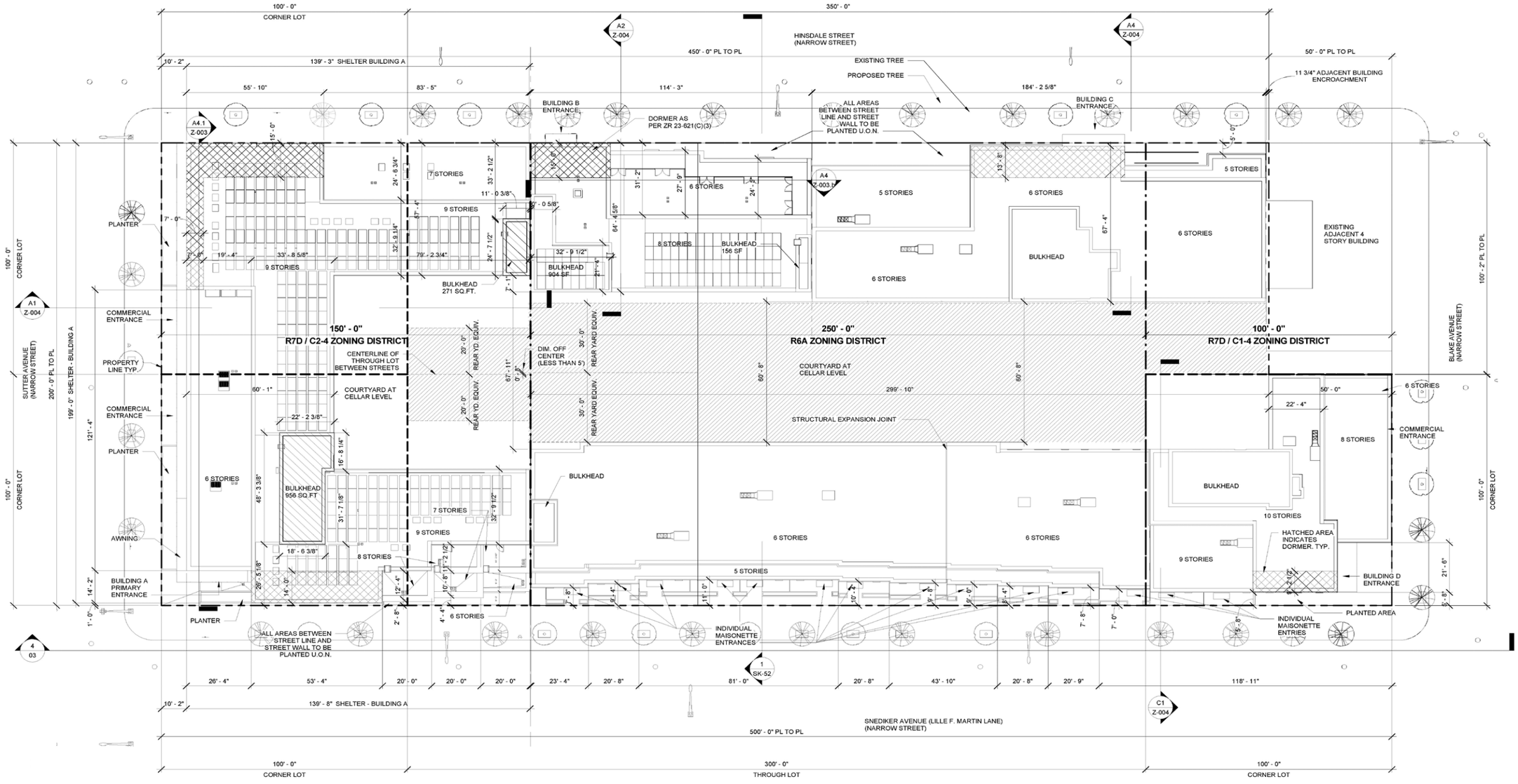

PROPERTY LINE
ALUM. COPING
3 7/8" RIGID INSULATION, R-22
CONTINUOUS AIR/ WATER BARRIER
BRICK
INSULATED UPVC WINDOW
8" CMU
5" MINERAL WOOL, R-21.5
FIBER CEMENT PANEL
CONCRETE WINDOW LINTEL
3 7/8" RIGID INSULATION W/ EIFS FINISH
MODIFIED BITUMEN ROOFING
12" PRECAST CONCRETE PLANK
8" MIN. POLYISOCYANURATE, R-47.5
B.O. LINTEL
APARTMENT
1" RIGID INSULATION
2 1/2" MTL STUD
5/8" GYP. BD.
LVT FLOORING
GYPSUM CEMENT TOPPING
10" CMU
BRICK
8" PRECAST CONCRETE PLANK
ACT DROPPED CEILING
SUPPORT SERVICE OFFICE
INSULATED ALUM. STOREFRONT
CONC. SIDEWALK SEE BPP DWGS.
DRAINAGE BOARD
TRAINING CLASSROOM
CARPET TILE
19" CONCRETE
CONTINUOUS SUBGRADE VAPOR BARRIER
5" CONCRETE SLAB
3" RIGID INSULATION, R-15
6" GRANULAR FILL


ALUM. COPING
BRICK
3 7/8" RIGID INSULATION
CONTINUOUS AIR/ WATER BARRIER
8" CMU
3 7/8" RIGID INSULATION W/ EIFS FINISH
MODIFIED BITUMEN ROOFING
8" PRECAST CONCRETE PLANK
POLYISOCYANURATE
B.O. LINTEL
5/8" GYP. BD.
2 1/2" MTL STUD
1" RIGID INSULATION
APARTMENT
LVT FLOORING
GYPSUM CEMENT TOPPING
CONT. GUTTER
STEEL MEMBER, S.S.D.
FIBER CEMENT PANEL
SOUND ATTEN. BATT INSULATION SEE CEILING DETAILS
GYP. DROPPED CEILING
STRUCTURAL TUBE STEEL
LOBBY DOUBLE HEIGHT SPACE
CURTAIN WALL
PORCELAIN TILE
MUD SET
BRICK SHELF +36.10'
DRAINAGE BOARD
3 7/8" RIGID INSULATION
ELECTRICAL ROOM
19" CONCRETE
CONTINUOUS SUBGRADE VAPOR BARRIER
6 1/2" CONCRETE SLAB
3" RIGID INSULATION
6" GRANULAR FILL




CONT. AIR/VAPOR BARRIER
4" RIGID INSULATION
THERMALLY BROKEN ADJUSTABLE DOUBLE DIPPED GALV. WALL TIE W/ SEISMIC CLIP
MORTAR NET 16" HIGH TYP.
SELF ADHERED FLASHING W/ TERMINATION BAR AND SEALANT
LOUVERED WEEP @ 24" OC
S.S. METAL THRU WALL FLASHING & DRIP EDGE
GROUT SOLID W/ NON SHRINK GROUT BELOW GRADE
SELF LEVELING URETHANE SEALANT AND COMPRESSIBLE FILLER
COURTYARD PAVERS, ABOVE SAND BEDDING, STONE AND COMPACTED GRAVEL SEE LANDSCAPE DRAWINGS
DRAINAGE BOARD
3 7/8" RIGID INSULATION
CONCRETE STEM WALL SEE STRUCTURAL DRAWINGS
CONTINUOUS SUBGRADE VERTICAL VAPOR BARRIER
CONCRETE FOUNDATION, SEE STRUCTURAL DRAWINGS
CONCRETE SLAB ON GRADE, SEE STRUCTURAL DRAWINGS
FINISH FLOOR
CONTINUOUS SUBGRADE HORIZONTAL VAPOR BARRIER
2" RIGID INSULATION
6" SUBBASE


CONT. AIR / VAPOR BARRIER
3 7/8" RIGID INSULATION
STRUCTURAL THERMAL BREAK PAD
FLEXIBLE FLASHING
FACE BRICK
SHELF ANGLE
S.S. DRIP EDGE
ROOF FLASHING MEMBRANE & S.S. COUNTER FLASHING
4" MINERAL WOOL INSULATION
CMU PER STRUCTURAL DRAWINGS
FINISH FLOOR
CONCRETE PLANK, SEE STRUCTURAL DRAWINGS
STEEL BEAM, SEE STRUCTURAL DRAWINGS
HIGH DENSITY CEMENTITIOUS FIREPROOFING (2 HR. RATED)
AWNING STEEL BEAM, SEE STRUCTURAL DRAWINGS
EXTERIOR SHEATHING
2 1/2" FRAMING & BATT INSULATION
STRUCTURAL THERMAL BREAK PAD
FIBER CEMENT PANEL
SELF ADHERED FLASHING
CONT. ALUM. TRIM WITH DRIP EDGE
BACKER ROD AND SEAL
HIGH IMPACT PLASTIC SHIM
ANCHOR AS REQUIRED
MULLION FRAMING
SPANDREL PANEL
EXTERIOR
INTERIOR
HUNG GYPSUM CEILING


100' - 0"
CORNER LOT
350' - 0"
HINSDALE STREET
(NARROW STREET)
450' - 0" PL TO PL
50' - 0" PL TO PL
10' - 2"
139' - 3" SHELTER BUILDING A
55' - 10"
83' - 5"
114' - 3"
184' - 2 5/8"
EXISTING TREE
PROPOSED TREE
11 3/4" ADJACENT BUILDING ENCROACHMENT
BUILDING B ENTRANCE
DORMER AS PER ZR 23-621(C)(3)
ALL AREAS BETWEEN STREET LINE AND STREET WALL TO BE PLANTED U.O.N.
BUILDING C ENTRANCE
A2 Z-004
A4 Z-004
A4.1 Z-003
A4 Z-003.1
A1 Z-004
A4 03
1 SK-52
C1 Z-004
7 STORIES
9 STORIES
6 STORIES
5 STORIES
8 STORIES
10 STORIES
BULKHEAD 271 SQ.FT.
BULKHEAD 904 SF
BULKHEAD 156 SF
BULKHEAD 956 SQ.FT
BULKHEAD
EXISTING ADJACENT 4 STORY BUILDING
PLANTER
COMMERCIAL ENTRANCE
PROPERTY LINE TYP.
AWNING
BUILDING A PRIMARY ENTRANCE
150' - 0"
R7D / C2-4 ZONING DISTRICT
250' - 0"
R6A ZONING DISTRICT
100' - 0"
R7D / C1-4 ZONING DISTRICT
CENTERLINE OF THROUGH LOT BETWEEN STREETS
DIM. OFF CENTER (LESS THAN 5')
REAR YD. EQUIV.
REAR YARD EQUIV.
COURTYARD AT CELLAR LEVEL
STRUCTURAL EXPANSION JOINT
SUTTER AVENUE (NARROW STREET)
BLAKE AVENUE (NARROW STREET)
100' - 0" CORNER LOT
200' - 0" PL TO PL
199' - 0" SHELTER - BUILDING A
100' - 2" PL TO PL
121' - 4"
HATCHED AREA INDICATES DORMER. TYP.
BUILDING D ENTRANCE
PLANTED AREA
INDIVIDUAL MAISONETTE ENTRANCES
INDIVIDUAL MAISONETTE ENTRIES
ALL AREAS BETWEEN STREET LINE AND STREET WALL TO BE PLANTED U.O.N.
SNEDIKER AVENUE (LILLE F. MARTIN LANE)
(NARROW STREET)
500' - 0" PL TO PL
139' - 8" SHELTER - BUILDING A
100' - 0"
CORNER LOT
300' - 0"
THROUGH LOT
100' - 0"
CORNER LOT

Multifamily

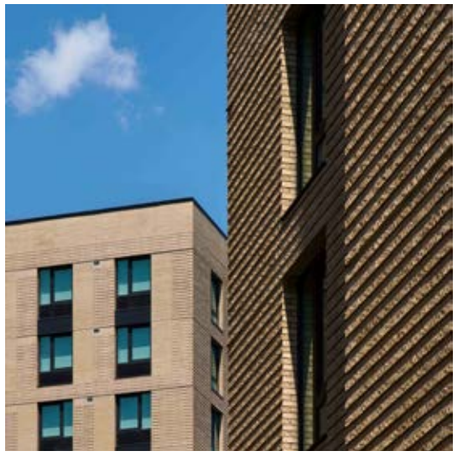
Affordable / Market Rate
Curtis + Ginsberg Architects

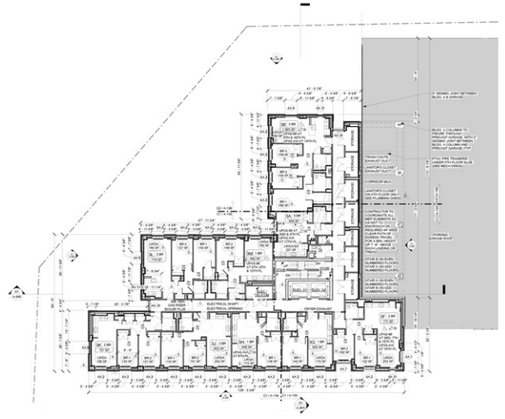
Phipps Houses | As the executive Architects working along side FXCollaborative, C+GA provided four new buildings in the neighborhood of Forest Hills, Queens. The buildings, averaging about 20 stories, provide the neighborhood with much needed affordable and market rate housing. Each building is designed to meet PassivHaus standards, and features vast PV panel arrays for energy generation.

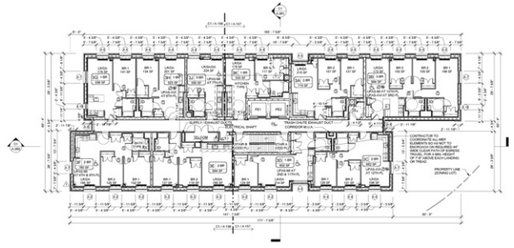
My Involvement with the project began towards the end of the Construction Document phase. I continue to work on Construction Administration, providing the GC with direction on any design issues, as well as perform regular site visits.

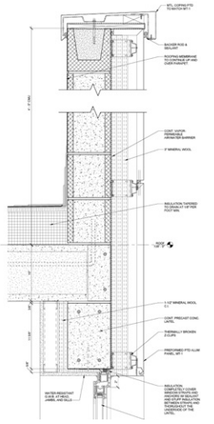
Marcus Garvey Village | Located in Brooklyn, NY, this set of two concrete structured building use heat pumps, geothermal systems, and ERVs to meet PassivHaus standards energy standards. The buildings bring hundreds of affordable housing units to residents of the area, and are part of a soon to be realized larger set of four buildings that straddle an elevated subway line.

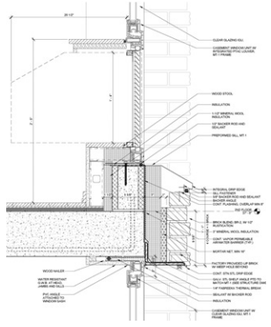
My involvement with the project began towards the completion of Schematic Design. I was brought onto the job to see the project through Construction documents.

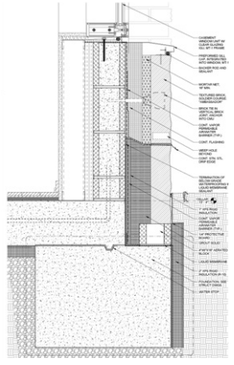


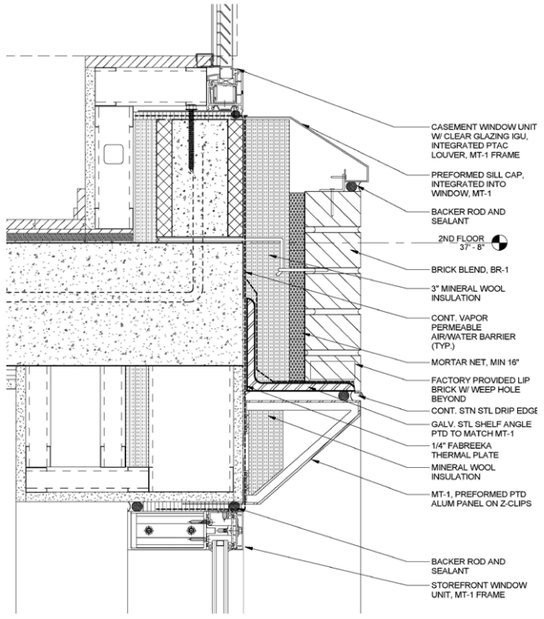


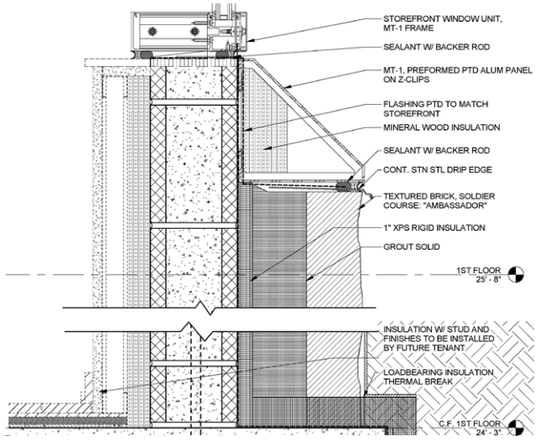




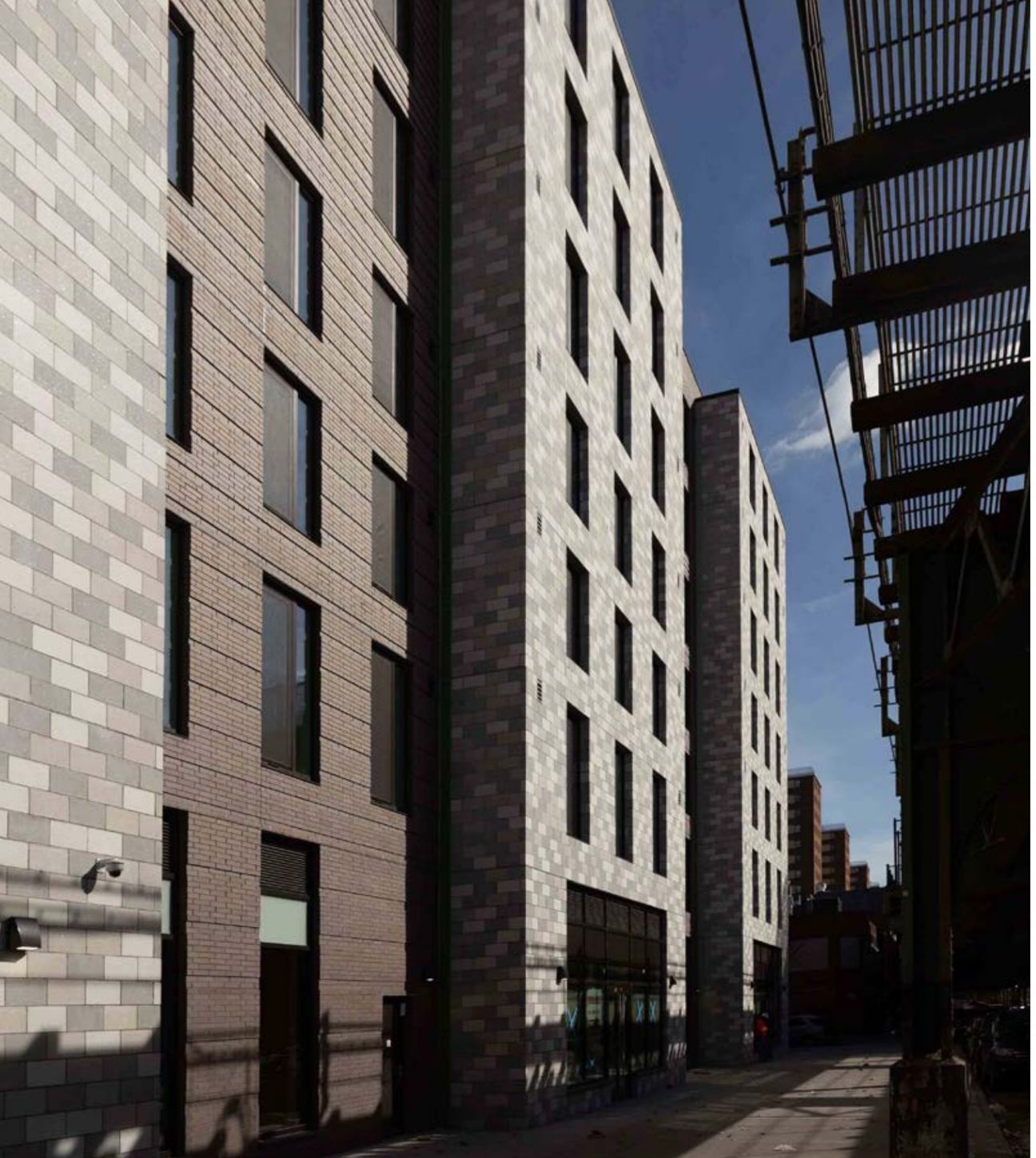


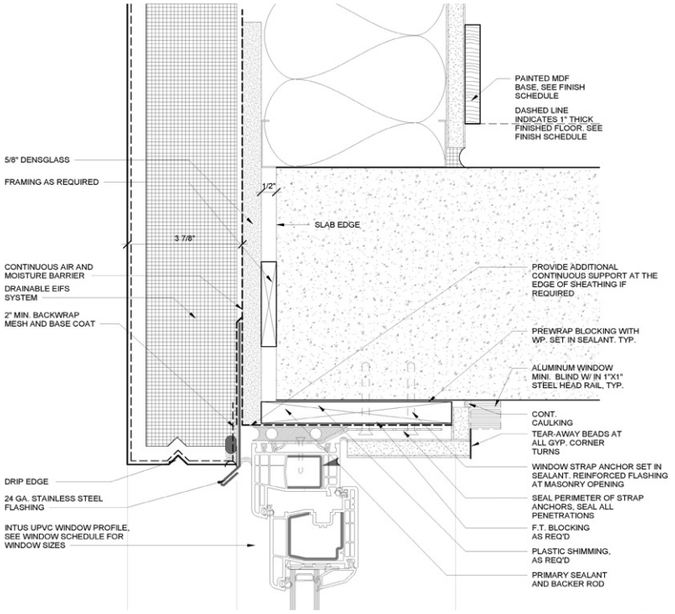


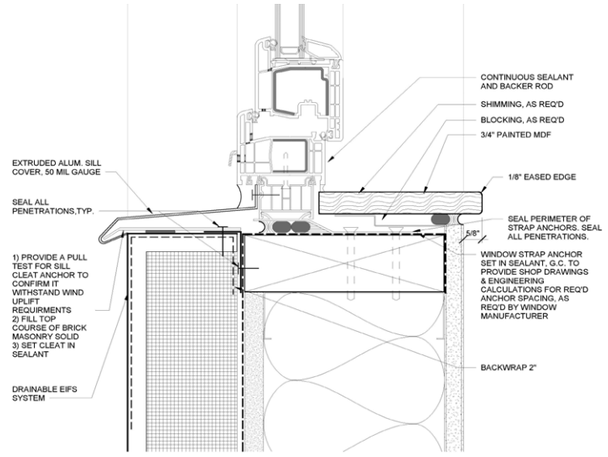

CASEMENT WINDOW UNIT W/ CLEAR GLAZING IGU, INTEGRATED PTAC LOUVER, MT-1 FRAME
PREFORMED SILL CAP, INTEGRATED INTO WINDOW, MT-1
BACKER ROD AND SEALANT
2ND FLOOR 37' - 8"
BRICK BLEND, BR-1
3" MINERAL WOOL INSULATION
CONT. VAPOR PERMEABLE AIR/WATER BARRIER (TYP.)
MORTAR NET, MIN 16"
FACTORY PROVIDED LIP BRICK W/ WEEP HOLE BEYOND
CONT. STN STL DRIP EDGE
GALV. STL SHELF ANGLE PTD TO MATCH MT-1
1/4" FABREEKA THERMAL PLATE
MINERAL WOOL INSULATION
MT-1, PREFORMED PTD ALUM PANEL ON Z-CLIPS
BACKER ROD AND SEALANT
STOREFRONT WINDOW UNIT, MT-1 FRAME


STOREFRONT WINDOW UNIT, MT-1 FRAME
SEALANT W/ BACKER ROD
MT-1, PREFORMED PTD ALUM PANEL ON Z-CLIPS
FLASHING PTD TO MATCH STOREFRONT
MINERAL WOOD INSULATION
SEALANT W/ BACKER ROD
CONT. STN STL DRIP EDGE
TEXTURED BRICK, SOLDIER COURSE: "AMBASSADOR"
1" XPS RIGID INSULATION
GROUT SOLID
1ST FLOOR 25' - 8"
INSULATION W/ STUD AND FINISHES TO BE INSTALLED BY FUTURE TENANT
LOADBEARING INSULATION THERMAL BREAK
C.F. 1ST FLOOR 24' - 3"

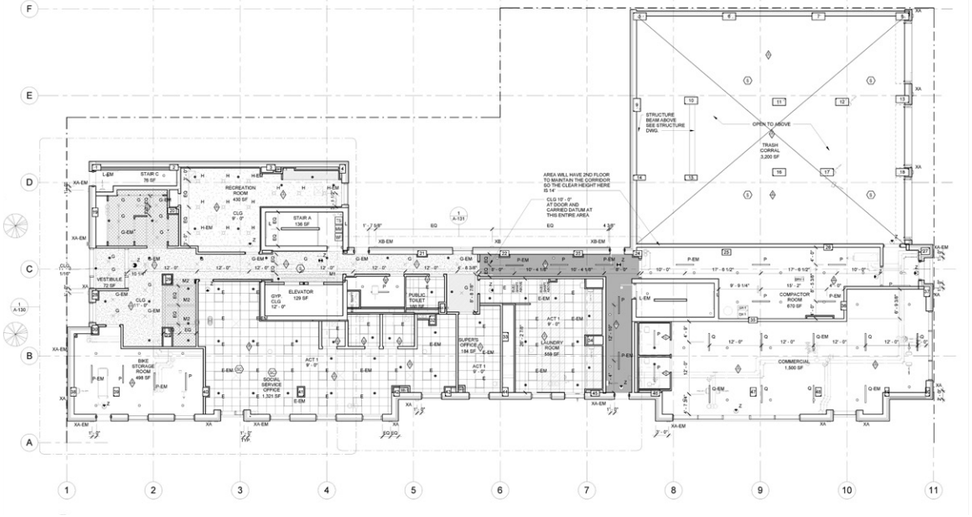

108-75 62ND DRIVE




PAINTED MDF BASE, SEE FINISH SCHEDULE
DASHED LINE INDICATES 1" THICK FINISHED FLOOR, SEE FINISH SCHEDULE
5/8" DENSGLASS
FRAMING AS REQUIRED
1/2"
SLAB EDGE
3 7/8"
CONTINUOUS AIR AND MOISTURE BARRIER
DRAINABLE EIFS SYSTEM
2" MIN. BACKWRAP MESH AND BASE COAT
PROVIDE ADDITIONAL CONTINUOUS SUPPORT AT THE EDGE OF SHEATHING IF REQUIRED
PREWRAP BLOCKING WITH WP. SET IN SEALANT. TYP.
ALUMINUM WINDOW MINI. BLIND W/ IN 1"X1" STEEL HEAD RAIL, TYP.
CONT. CAULKING
TEAR-AWAY BEADS AT ALL GYP. CORNER TURNS
WINDOW STRAP ANCHOR SET IN SEALANT. REINFORCED FLASHING AT MASONRY OPENING
SEAL PERIMETER OF STRAP ANCHORS, SEAL ALL PENETRATIONS
F.T. BLOCKING AS REQ'D
PLASTIC SHIMMING, AS REQ'D
PRIMARY SEALANT AND BACKER ROD
DRIP EDGE
24 GA. STAINLESS STEEL FLASHING
INTUS UPVC WINDOW PROFILE, SEE WINDOW SCHEDULE FOR WINDOW SIZES


CONTINUOUS SEALANT AND BACKER ROD
SHIMMING, AS REQ'D
BLOCKING, AS REQ'D
3/4" PAINTED MDF
1/8" EASED EDGE
5/8"
SEAL PERIMETER OF STRAP ANCHORS, SEAL ALL PENETRATIONS.
WINDOW STRAP ANCHOR SET IN SEALANT, G.C. TO PROVIDE SHOP DRAWINGS & ENGINEERING CALCULATIONS FOR REQ'D ANCHOR SPACING, AS REQ'D BY WINDOW MANUFACTURER
BACKWRAP 2"
EXTRUDED ALUM. SILL COVER, 50 MIL GAUGE
SEAL ALL PENETRATIONS,TYP.
1) PROVIDE A PULL TEST FOR SILL CLEAT ANCHOR TO CONFIRM IT WITHSTAND WIND UPLIFT REQUIRMENTS
2) FILL TOP COURSE OF BRICK MASONRY SOLID
3) SET CLEAT IN SEALANT
DRAINABLE EIFS SYSTEM


APT 311
APT 312
APT 313
APT 314
APT 310
APT 309
APT 302
APT 303
APT 304
APT 305
APT 306
APT 307
ELEC. BASEBOARD
STAIR A
STAIR B
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F


STAIR C
RECREATION ROOM
STAIR A
ELEVATOR
PUBLIC TOILET
SUPER'S OFFICE
LOCKER ROOM
BIKE STORAGE ROOM
BOOSTER SERVICE ROOM
COMPACTOR ROOM
COMMERCIAL
OPEN TO ABOVE
TRASH CORRAL
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F

RFP Work

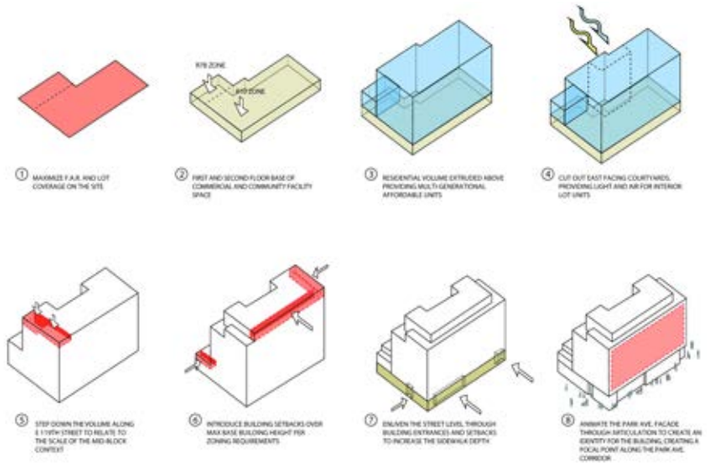
Affordable / Senior Housing
Curtis + Ginsberg Architects

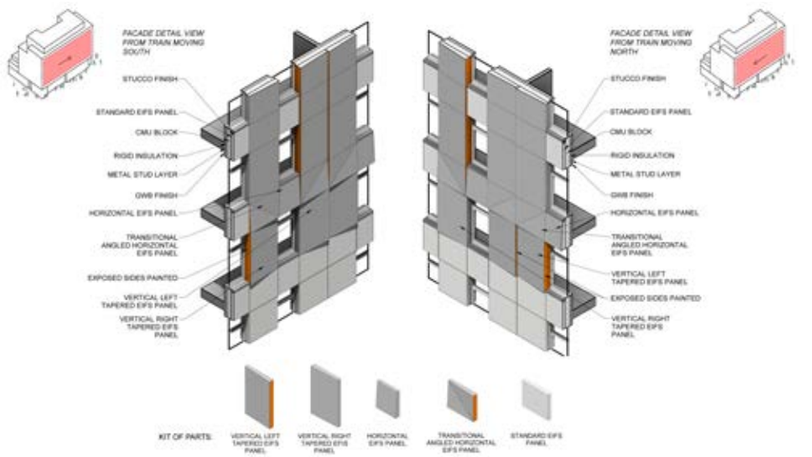
East Harlem RFP | Providing 296 units of affordable housing and over 30,700 Square Feet of commercial and community facility space, the project is shaped by its iconic East Harlem Site. The RFP consisted of two separate sites, and required that the two buildings be designed to meet the PassivHaus and EGC standards, with the goal to reach 80% carbon reduction by 2050. Two colleagues and I provided the work for all elements of this RFP.

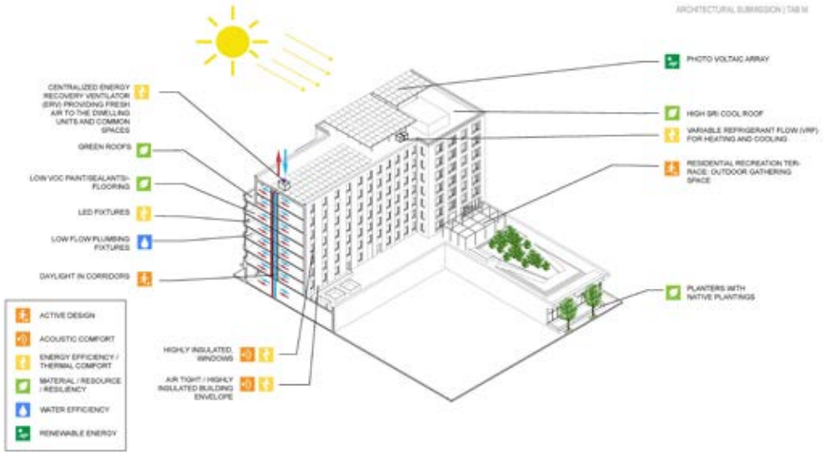
Bay Ridge Senior Housing | My work began on this project in the pre-design phase, and continues as my team and I approach the end of SD. The project will contain 130 units of affordable senior housing in a PassivHaus building totaling over 120,000 Square Feet. The design of the building borrows from its elegant neighborhood of Bay Ridge, Brooklyn; Home to a wide variety of buildings of various sizes and typographies.

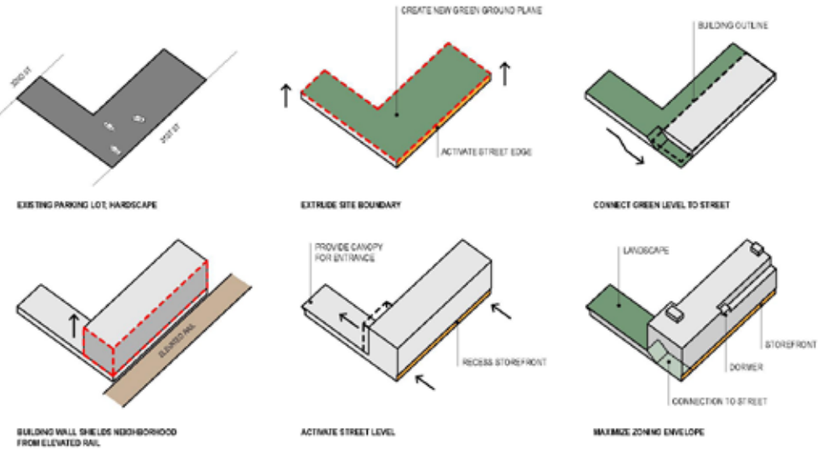
Astoria Seniors RFP | Providing affordable housing for seniors in Astoria, Queens, the RFP requested that respondents aimed to meet PassivHaus standards. Being as it was located in the most diverse community on the planet, elements of many cultures were taken into consideration to provide a welcoming environment for its senior inhabitants. Three colleagues and I provided the work for all elements of this RFP.


SOLAR PANEL AND SUPPORT STRUCTURE
METAL CHANNEL CORNICE
EIFS PANEL COLOR A LIGHT GRAY
EIFS PANEL COLOR B DARK GRAY
BRICK COLOR A RED-ORANGE
METAL CHANNEL REVEAL
METAL CHANNEL REVEAL W/ RECESSED LINEAR LIGHTING
CONTINUOUS RECESSED LIGHTING AT SETBACK
FIBER CEMENT PANEL
ROOF CANOPY W/ ILLUMINATED SIGNAGE AND UNDER CANOPY RECESSED LINEAR LIGHTING
PERGOLA
BULKHEAD
ROOF
16TH FLOOR
15TH FLOOR
14TH FLOOR
13TH FLOOR
12TH FLOOR
11TH FLOOR
10TH FLOOR
9TH FLOOR
8TH FLOOR
7TH FLOOR
6TH FLOOR
5TH FLOOR
4TH FLOOR
3RD FLOOR
2ND FLOOR
1ST FLOOR


R7B ZONE
R7D ZONE
① MAXIMIZE F.A.R. AND LOT COVERAGE ON THE SITE
② FIRST AND SECOND FLOOR BASE OF COMMERCIAL AND COMMUNITY FACILITY SPACE
③ RESIDENTIAL VOLUME EXTRUDED ABOVE PROVIDING MULTI-GENERATIONAL AFFORDABLE UNITS
④ CUT OUT EAST FACING COURTYARDS, PROVIDING LIGHT AND AIR FOR INTERIOR LOT UNITS
⑤ STEP DOWN THE VOLUME ALONG E 116TH STREET TO RELATE TO THE SCALE OF THE MID-BLOCK CONTEXT
⑥ INTRODUCE BUILDING SETBACKS OVER MAX BASE BUILDING HEIGHT PER ZONING REQUIREMENTS
⑦ ENLIVEN THE STREET LEVEL THROUGH BUILDING ENTRANCES AND SETBACKS TO INCREASE THE SIDEWALK DEPTH
⑧ ANIMATE THE PARK AVE. FACADE THROUGH ARTICULATION TO CREATE AN IDENTITY FOR THE BUILDING, CREATING A FOCAL POINT ALONG THE PARK AVE. CORRIDOR


FACADE DETAIL VIEW FROM TRAIN MOVING SOUTH
STUCCO FINISH
STANDARD EIFS PANEL
CMU BLOCK
RIGID INSULATION
METAL STUD LAYER
GWB FINISH
HORIZONTAL EIFS PANEL
TRANSITIONAL ANGLED HORIZONTAL EIFS PANEL
EXPOSED SIDES PAINTED
VERTICAL LEFT TAPERED EIFS PANEL
VERTICAL RIGHT TAPERED EIFS PANEL
FACADE DETAIL VIEW FROM TRAIN MOVING NORTH
KIT OF PARTS:
VERTICAL LEFT TAPERED EIFS PANEL
VERTICAL RIGHT TAPERED EIFS PANEL
HORIZONTAL EIFS PANEL
TRANSITIONAL ANGLED HORIZONTAL EIFS PANEL
STANDARD EIFS PANEL


ARCHITECTURAL SUBMISSION | TAB M
CENTRALIZED ENERGY RECOVERY VENTILATOR (ERV) PROVIDING FRESH AIR TO THE DWELLING UNITS AND COMMON SPACES
GREEN ROOFS
LOW VOC PAINT/SEALANTS/FLOORING
LED FIXTURES
LOW FLOW PLUMBING FIXTURES
DAYLIGHT IN CORRIDORS
ACTIVE DESIGN
ACOUSTIC COMFORT
ENERGY EFFICIENCY / THERMAL COMFORT
MATERIAL / RESOURCE / RESILIENCY
WATER EFFICIENCY
RENEWABLE ENERGY
HIGHLY INSULATED WINDOWS
AIR TIGHT / HIGHLY INSULATED BUILDING ENVELOPE
PHOTO VOLTAIC ARRAY
HIGH SRI COOL ROOF
VARIABLE REFRIGERANT FLOW (VRF) FOR HEATING AND COOLING
RESIDENTIAL RECREATION TERRACE: OUTDOOR GATHERING SPACE
PLANTERS WITH NATIVE PLANTINGS


EXISTING PARKING LOT, HARDSCAPE
CREATE NEW GREEN GROUND PLANE
ACTIVATE STREET EDGE
EXTRUDE SITE BOUNDARY
BUILDING OUTLINE
CONNECT GREEN LEVEL TO STREET
ELEVATED RAIL
BUILDING WALL SHIELDS NEIGHBORHOOD FROM ELEVATED RAIL
PROVIDE CANOPY FOR ENTRANCE
RECESS STOREFRONT
ACTIVATE STREET LEVEL
LANDSCAPE
STOREFRONT
DORMER
CONNECTION TO STREET
MAXIMIZE ZONING ENVELOPE

Concrete Kindergarten

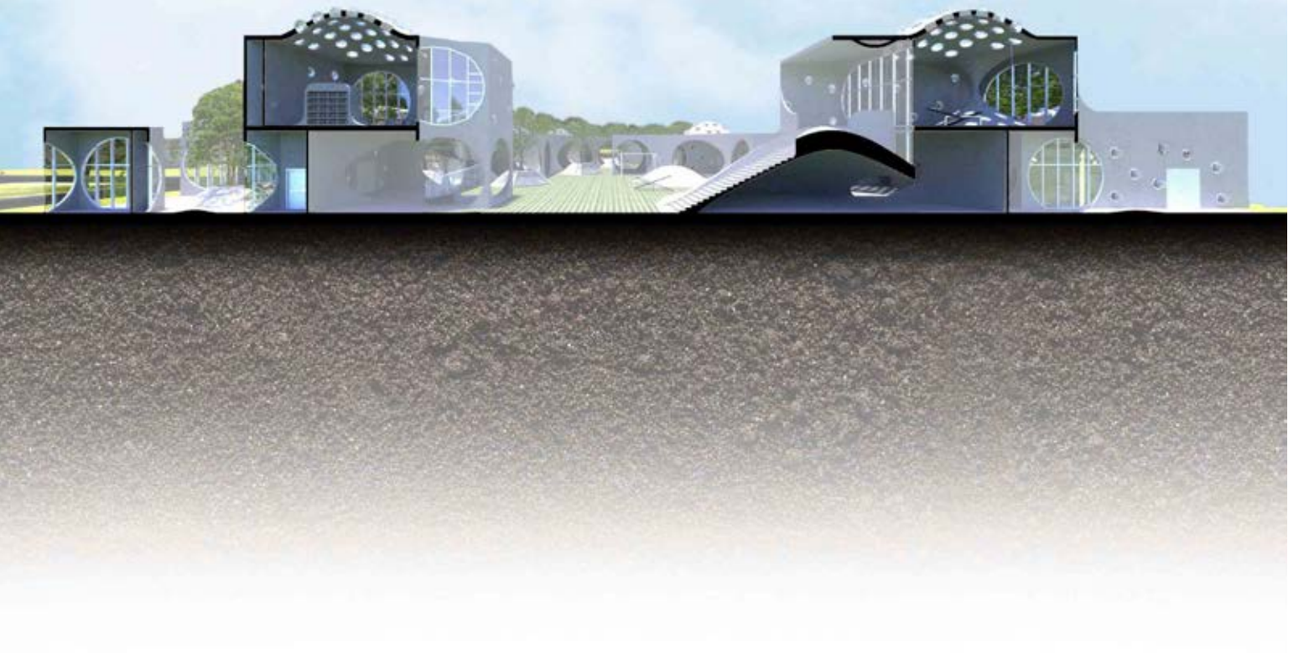
Masters Thesis

Nick Gelpi | Spring 2019

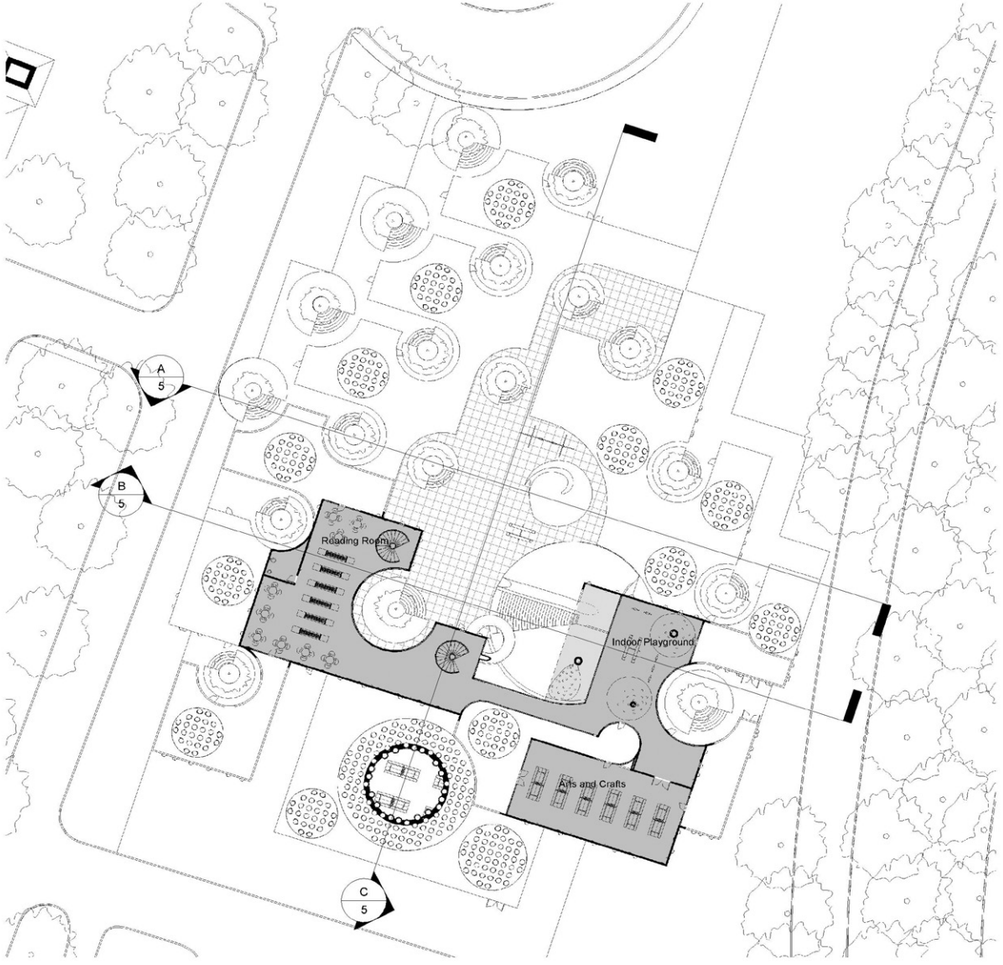
Description | Through the study of Isamu Noguchi's playgrounds, Aldo Van Eyck's Amsterdam Orphanage, and Mark West's Jacket and Liner technique for fabric forming concrete, our thesis studio was tasked with creating a seemingly oxymoronic building; A concrete Kindergarten in New Orleans Audubon Park. Through the use of physical models and intensive research, I was able to recreate the protrusions and bulges from West's work and reinterpret them, as well as Noguchi's signature play mounds, into the form of the building at varying scales. Noguchi's work, Lunar landscape, and West's fabric formed concrete come together to create a conceptual playground cube, which was then used as a starting point for the design of the building.

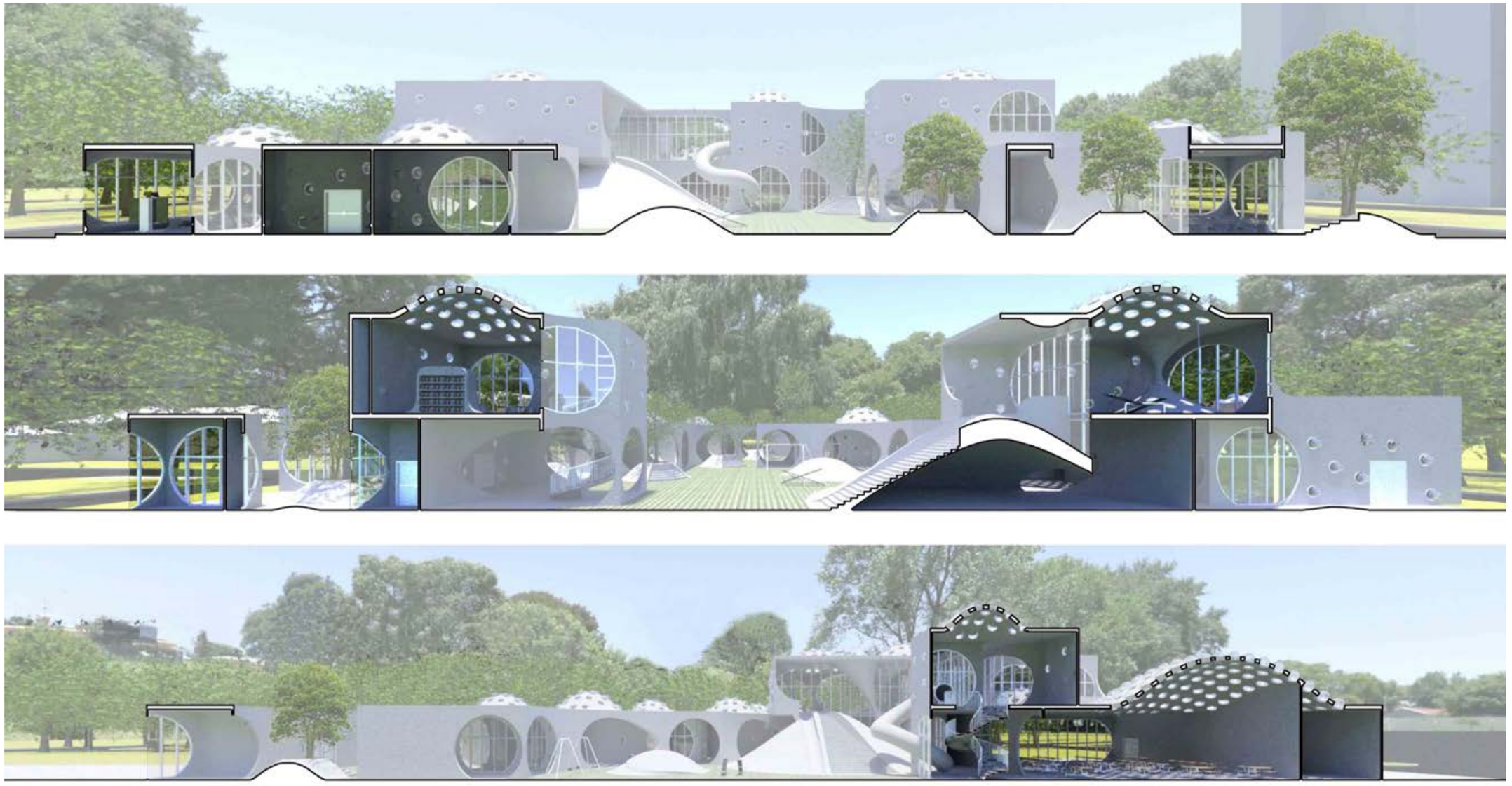
Concept | By using techniques of fabric formed concrete, The overall building is able to the softened to allow for a more welcoming and safer space for young school children to inhabit. Scaling this down creates domed skylights in rooftop mounds to draw playful light into many of the buildings spaces. Fusing Noguchi's play mounds with these techniques produces areas for play in the school's interior courtyard, while the overall organizational strategy of Van Eyck's Amsterdam Orphanage drives the layout of the building. By Creating non-conventional spaces for learning and play, young children's minds can be challenged and given a jump start in their cognitive development.

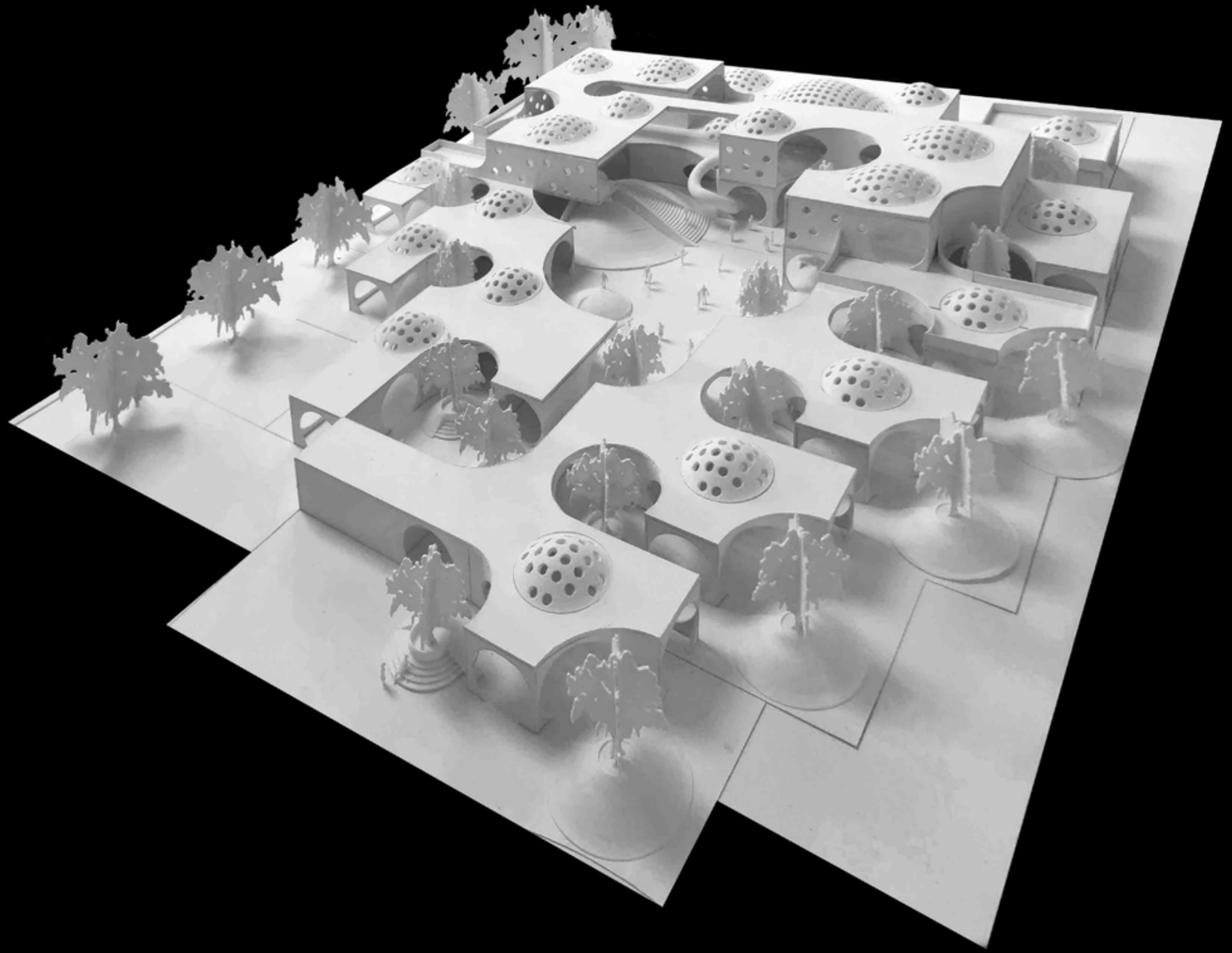
Program | The 2 story project features 10 classrooms for kindergarten children, a library, lab space, reading room, cafeteria, administrative spaces an interior playground and large courtyard space.




Classroom
Classroom
Classroom
Classroom
Classroom
Classroom
Classroom
Classroom
Classroom
Classroom
Outdoor Classes / Playground
Administration
Teachers Lounge
Gym / Cafetena
Lab / Indoor Zoo
A 5
B 5
C 5


Reading Room
Indoor Playground
Arts and Crafts
A 5
B 5
C 5





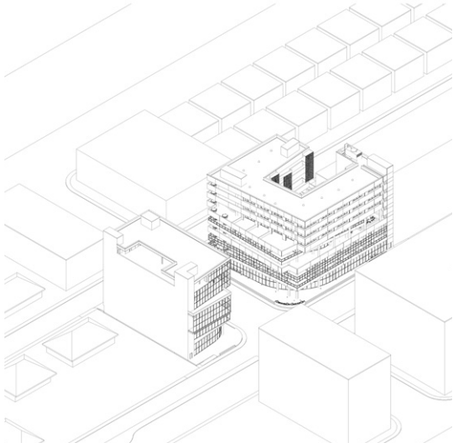
Workforce Housing

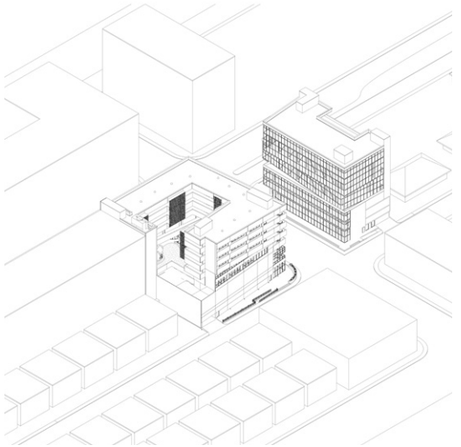
Comprehensive + IBS
Juan Alayo | Summer 2018

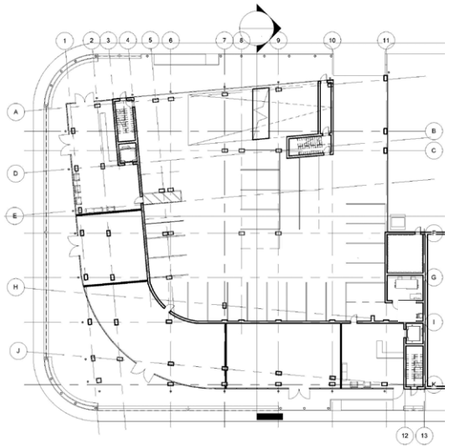
Description | Comprehensive studio and Integrated building systems are separate classes taken together which ask students to design a building and include all of its working systems. The building was to be located in Miami's Overtown; a historically black neighborhood whose residents are beginning to be displaced by rapid gentrification. Students were to design a building for the working class families who are finding it increasingly challenging to find an affordable place to live.

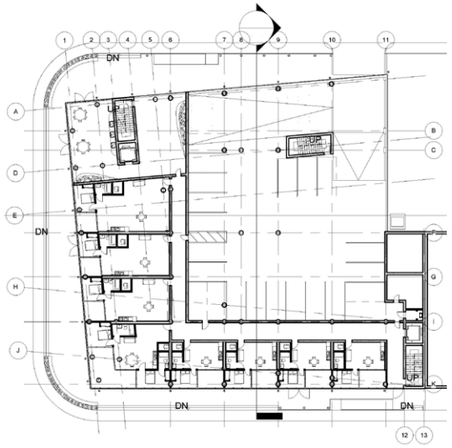
Concept | By incorporating personal terraces into every unit, the building emphasizes the idea that every individual deserves access to outdoor space. The inclusion of a large public courtyard, library, gym and other amenities, a sense of community is created amongst the building's residence, strengthening the health of the neighborhood at large. Each unit of the building features expansive amounts of glass and a narrow section to promote natural light and cross ventilation.

Program | The 8 story project features 58 affordable housing units, a multipurpose ground floor with two lobbies and retail spaces, a large central courtyard, smaller courtyards on each floor, a gym, library and parking for 90 cars.





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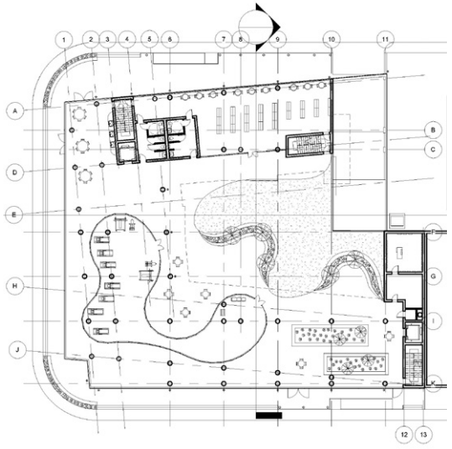
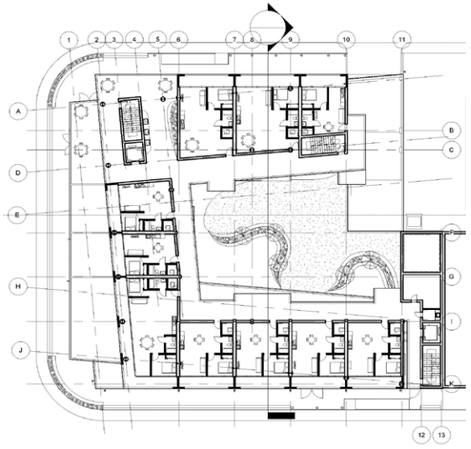
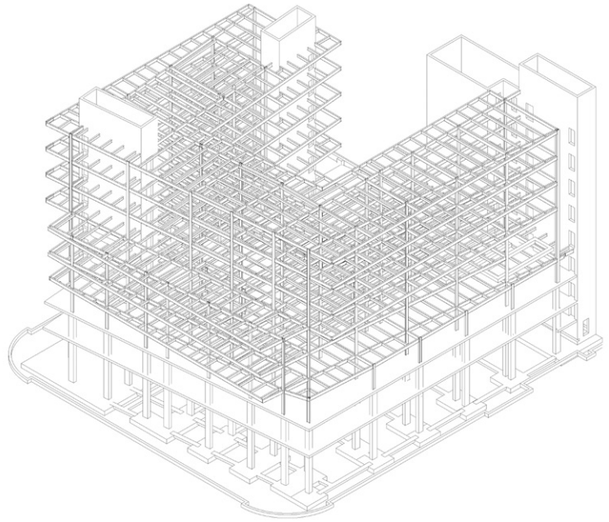
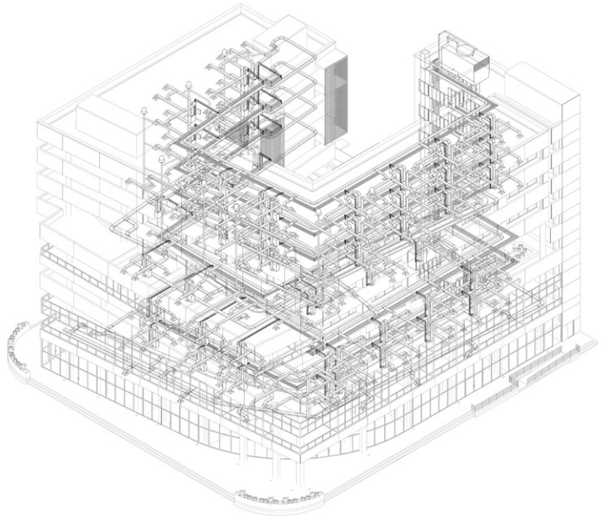
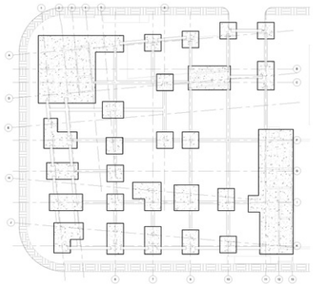
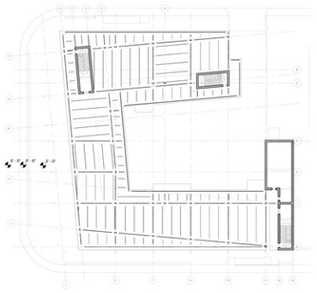


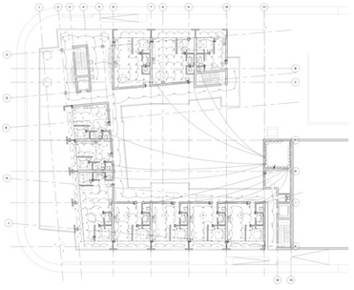


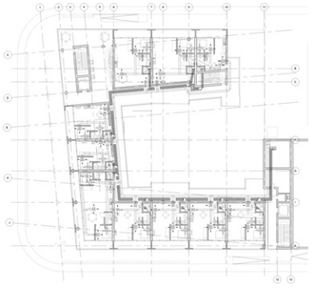


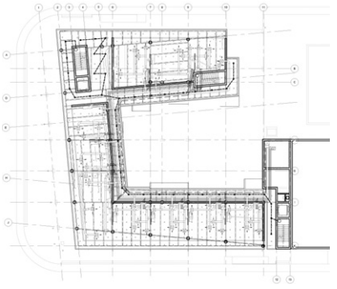


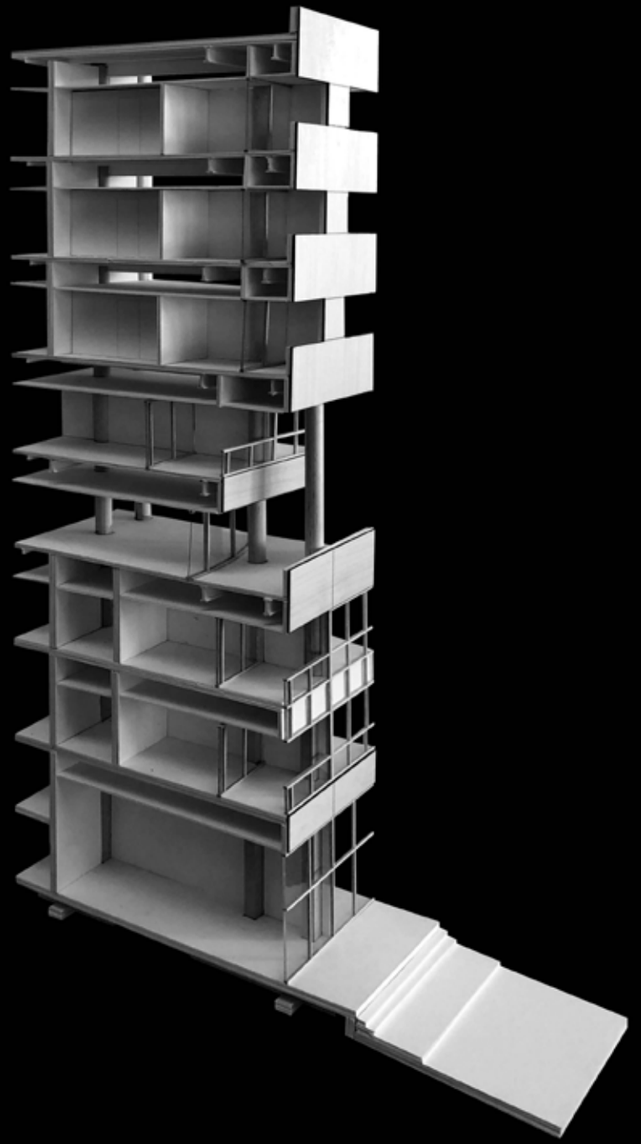












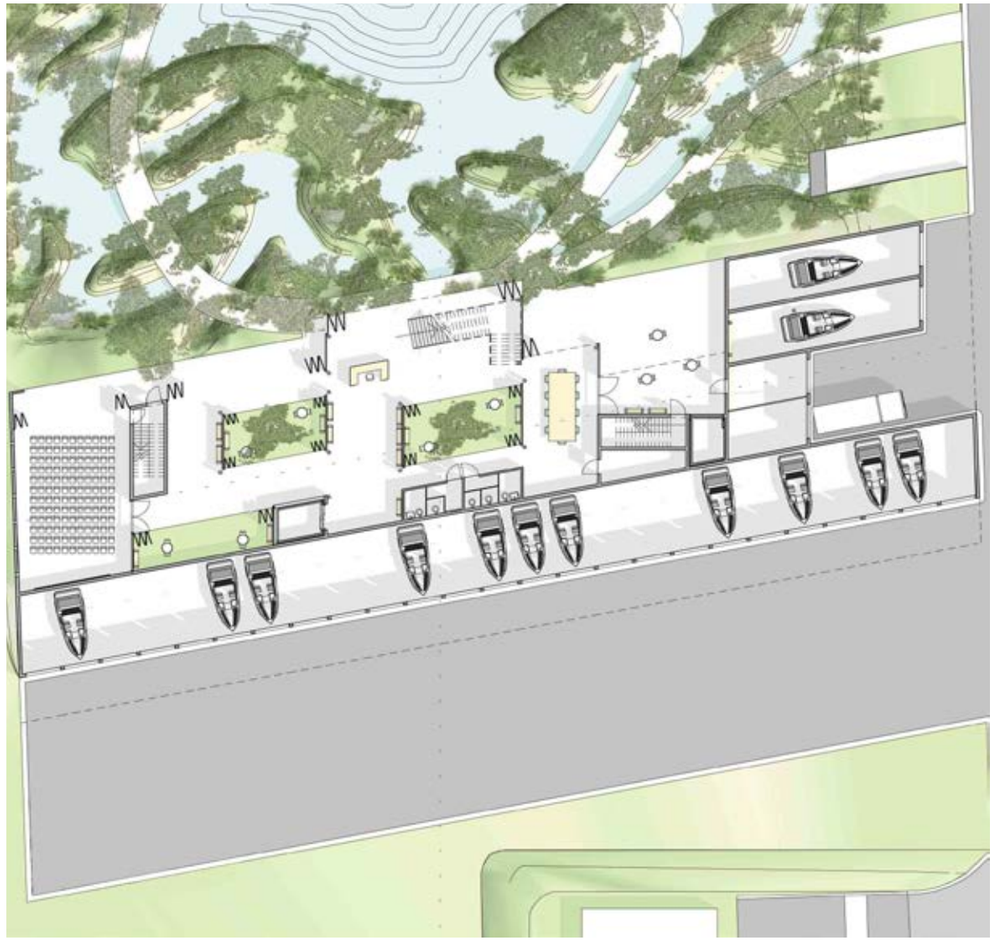
Sustainability Studio

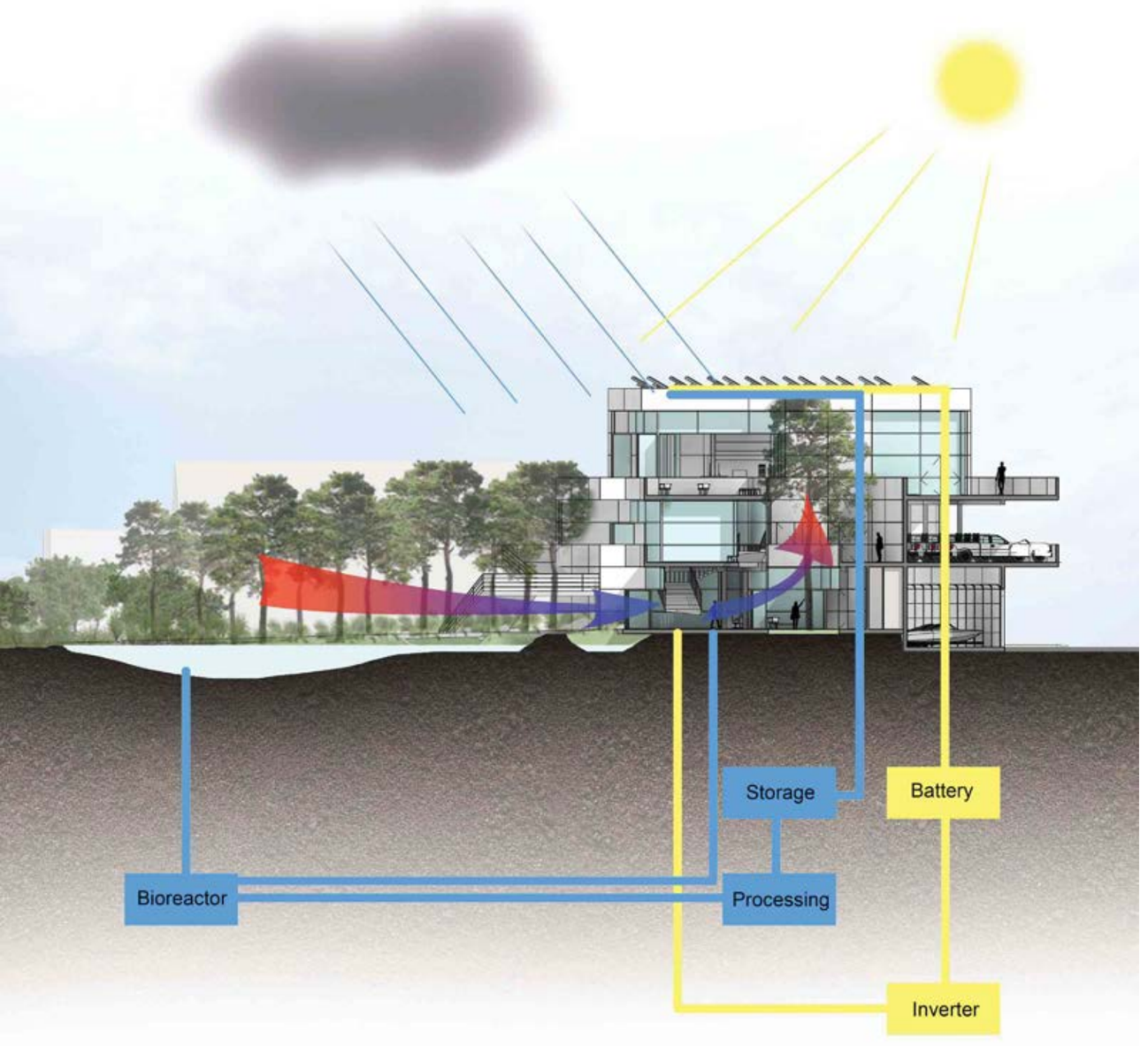
Design Studio 9
M. Nepomechie | Spring 2018

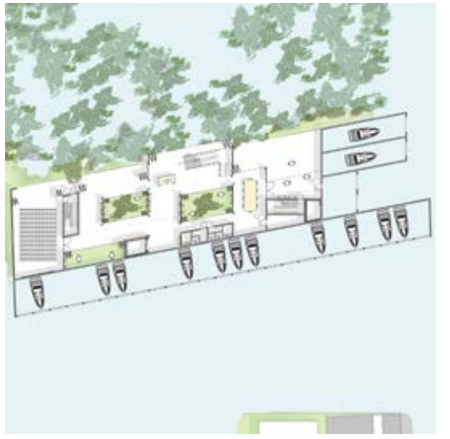
Description | In an effort to achieve a carbon neutral building, SERC (an on campus organization dedicated to Everglades research) approached the school of architecture for ideas on a new headquarters at Florida International University. The site in which it was to be located rested on a large empty piece of land on one edge of the university campus. This placed the building in a prime location to be viewed by passing cars on the nearby highway, calling for the building to be a landmark of the university. The project also was to respond to sea level rise, accounting for water levels expected over the next 100 years.

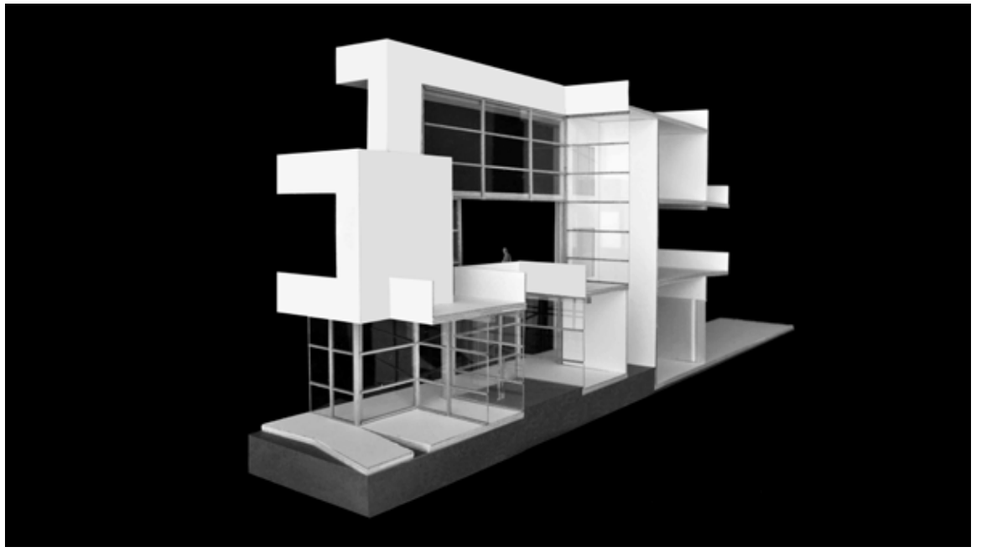
Concept | Due to the year round warmth and high solar radiation in South Florida, Many steps needed to be taken to ensure maximum sustainability for the project. These included a maximizing the North and South facade lengths while shading the South. Large expanses of glass to the North allows for diffused natural light to filter throughout the building. Accordion style glass doors and multiple interior courtyards open the building up completely to cross ventilation, while inhabitable green roofs and terraces insulate the building and provide people with exterior spaces to congregate. Solar panels on the roof generate the majority of the electricity needed to power the buildings systems, while an artificial wetland cools the ambient air around it. By elevating the buildings main programmatic spaces while keeping boat parking on the ground level, the project remains functional despite the predicted sea level rise through 2100.

Program | The 4 story project features interior parking for 26 boats and trucks, an auditorium, gallery space, 2 loading bays, boat wash and repair garages, classrooms, a cafe and storage spaces. A large driveway in the back allows for a truck with a boat on a trailer to back a boat into the garage, unhitch it, and then proceed to the truck parking on a higher level.




Storage
Battery
Bioreactor
Processing
Inverter



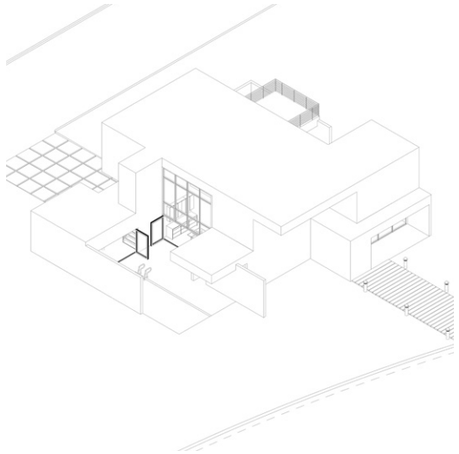


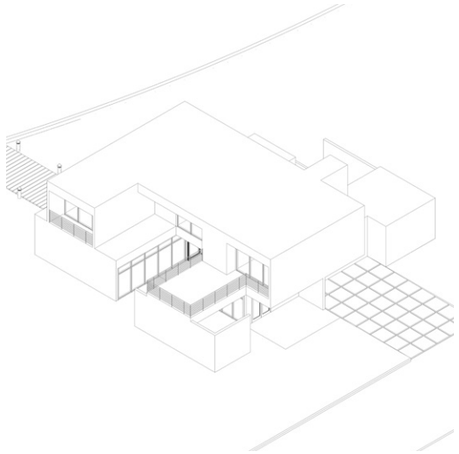
Single Family
Deluxe Modular
New York, NY | Spring 2019

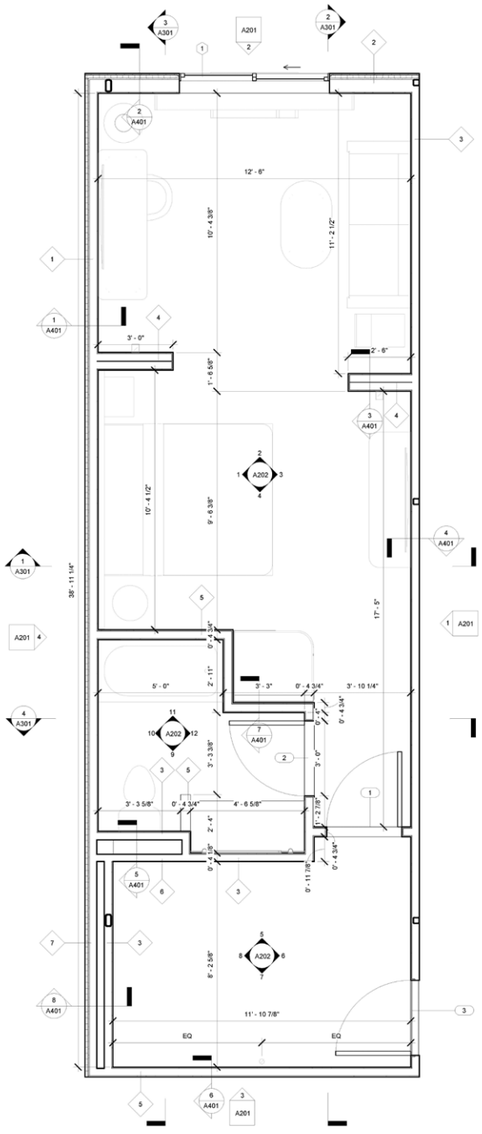
Dream Homes | Deluxe Modular established a Dream Home program in which the company would offer 50 separate home designs available to be purchased for modular construction at our factory. The projects were to be schematically designed and to be further developed upon interest from a customer. Those featured are ones which I was able to design.

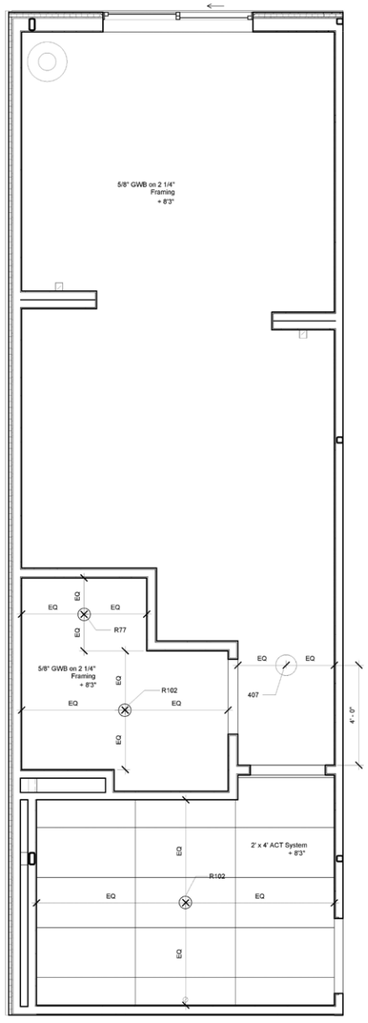
Conference Room | During my time at Deluxe, the NYC office moved and was in need of a new conference room. I was tasked with putting together the set for its construction.

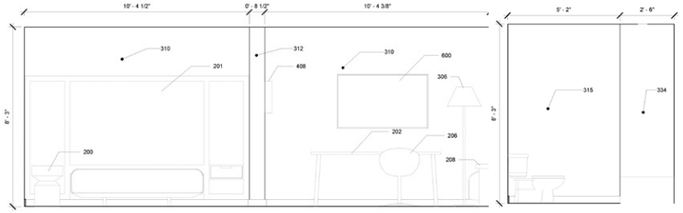
Modular Marriott | Our company was approached by the Marriott Hotels brand and was asked to work with them to possibly build their hotels modularly in the future. I was tasked with putting together a set for a sample of a single hotel room built on an existing modular box leftover from a previous project. Much care was taken to ensure that the sample met Marriott quality standards, as well as incorporated the proper finishes and furnishings used in Marriott Hotels. The samples featured are extracted form the completed drawings set.

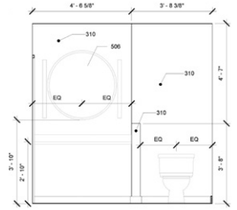


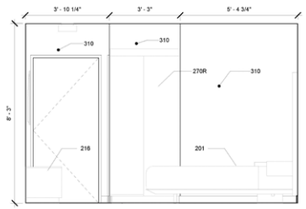


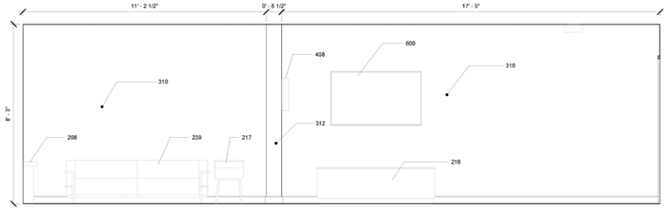

A201
A301
A401
A202
12' - 6"
10' - 4 3/8"
11' - 2 1/2"
3' - 0"
2' - 6"
1' - 6 5/8"
10' - 4 1/2"
9' - 9 3/8"
38' - 11 1/4"
17' - 5"
5' - 0"
2' - 11"
3' - 3"
0' - 4 3/4"
3' - 10 1/4"
3' - 3 3/8"
2' - 0"
3' - 3 5/8"
4' - 6 5/8"
2' - 4"
0' - 2 7/8"
0' - 11 7/8"
8' - 2 5/8"
11' - 10 7/8"
EQ

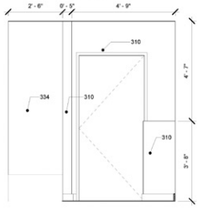

5/8" GWB on 2 1/4" Framing + 8'3"
EQ
R77
R102
407
4' - 0"
2' x 4' ACT System + 8'3"

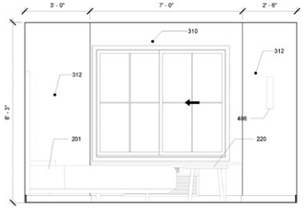

10' - 4 1/2"
0' - 8 1/2"
10' - 4 3/8"
5' - 2"
2' - 6"
8' - 3"
310
201
312
408
600
306
202
206
208
200
315
334


4' - 6 5/8"
3' - 8 3/8"
310
506
EQ
4' - 7"
3' - 8"
3' - 10"
2' - 10"


3' - 10 1/4"
3' - 3"
5' - 4 3/4"
310
270R
216
201
8' - 3"


11' - 2 1/2"
0' - 8 1/2"
17' - 5"
8' - 3"
310
408
600
208
239
217
312
216


2' - 8"
0' - 5"
4' - 9"
310
334
4' - 7"
3' - 8"


3' - 0"
7' - 0"
2' - 8"
310
312
201
408
220
8' - 3"

Tokyo & Genoa

Study Abroad Work
Summer - Fall 2018

Tokyo Pavilion
Description | The project featured was designed after a study abroad trip to Tokyo, Japan. In the High density Shinjuku neighborhood of Tokyo, a pavilion was to be designed to represent an assigned brand. The pavilion needed to serve as both a beacon of the city and a pedestrian bridge to help people navigate around the busy streets of Shinjuku.

Concept | In order to best represent the brand Puma and its affinity for technology driven design, a sleek organic contemporary shape was chosen for the pavilion. Large openings in the form allow for light to penetrate despite the density of the surrounding city. Exposing stainless steel structural ribs emphasize a high tech appearance for the brand.

Program | The 2 Story pavilion features both interior and exterior spaces designated for a variety of different uses. Some possibilities include a running track on the second floor, and interior retail spaces on the bottom level. The entire pavilion also serves as a pedestrian bridge to allow people to safely cross the busy streets.

Genoa Bagni Scogliera
Description | Bagni Scogliera (cliff spa) was designed in the cliff side Italian city of Nervi on a study abroad trip to Genoa, Italy. Each student was allowed to pick their own site and program for their project. The dramatic seaside cliffs and elegant stone created the perfect location for an outdoor spa.

Concept | By carving the project into the stone of the cliffs, its visitors are constantly surrounded by the natural beauty of the site. Huge vistas direct guests view to the calming Mediterranean sea, while slits of light penetrate spaces and flow streams of water as they proceed from pool to pool and eventually spill over the cliff and into the sea.

Program | The project features a check in room above ground. The remainder of the project is carved into the cliff and includes changing / locker rooms with showers and bathrooms, multiple pools and areas for relaxation.