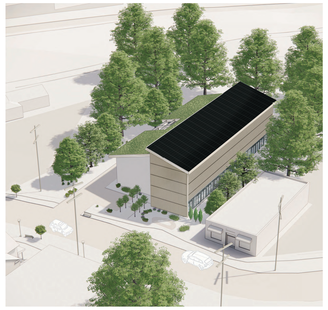
The Reveal

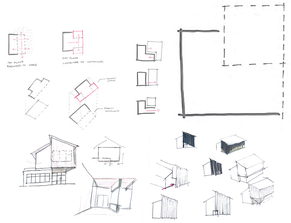
NBI East Coast Headquarters

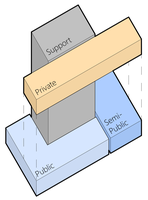
Sarah Jane Graven and Rylie Schoch

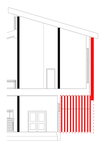
Nestled at the intersection of architectural innovation and ecological consciousness, the envisioned structure serves as the future East Coast headquarters for the New Buildings Institute. This design stands as a testament to the transformative power of cutting-edge technological advances in both design and building sciences. The motivation underlying the project revolves around dismantling the traditional barriers that separate the architectural process from the public eye. Through a combination of passive and active design strategies, the building aspires to achieve net-zero energy consumption. By opening its doors to the public, the project invites visitors to witness, engage, and be inspired by the seamless integration of sustainable practices. It encourages individuals to reimagine and implement these forward-thinking strategies on a broader scale. This design exemplifies the potential of transparency in design to inspire a brighter, more sustainable future for communities worldwide.

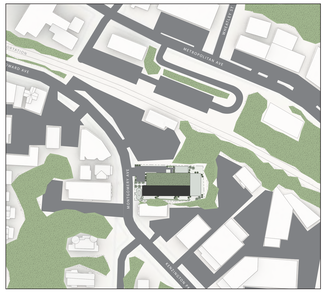


AERIAL VIGNETTE









CONTEXT SITE
SCALE: 1:50

ZONE: CRT-1.5 COVERAGE: 20%

REQUIRED SETBACKS: FRONT: 0' SIDE: 0' REAR: 5'

BTA: HEIGHT: 20' SIDE: 15'

FAR: 1.0

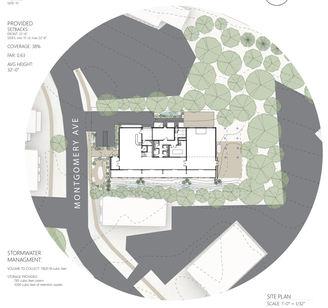
HEIGHT: 45'

PROVIDED SETBACKS: FRONT: 22'-6" SIDES: 144'-15" to max 21'-6"

COVERAGE: 38%

FAR: 0.63

AVG HEIGHT: 32'-0"



STORMWATER MANAGMENT:

VOLUME TO COLLECT: 1600 ft cubic feet

COVERAGE: 20% PERVIOUS: 5000 cubic feet of retention needed

SITE PLAN
SCALE: 1/16" = 1'0"

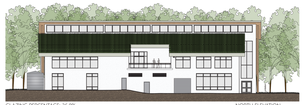
LIFE SAFETY AND SECURITY
N.T.S.

GLAZING PERCENTAGE: 63.0%

SOUTH ELEVATION
SCALE: 1'-0"=1/8"

GLAZING PERCENTAGE: 20.7%

EAST ELEVATION
SCALE: 1'-0"=1/8"

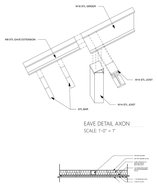


GLAZING PERCENTAGE: 36.8%

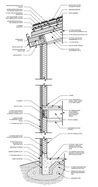
NORTH ELEVATION
SCALE: 1'-0"=1/8"

GLAZING PERCENTAGE: 18.8%

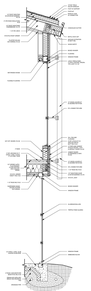
WEST ELEVATION
SCALE: 1'-0"=1/8"



EAVE DETAIL AXION
SCALE: 1'-0" = 1'

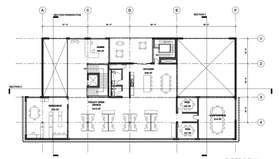


TYPICAL WALL PLAN
SCALE: 1'-0" = 1/2"

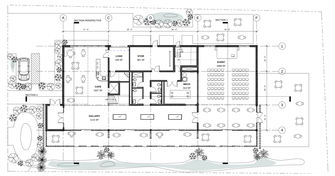


TYPICAL WALL SECTION
SCALE: 1'-0" = 1/2"

FACADE DETAIL
SCALE: 1'-0" = 1/2"

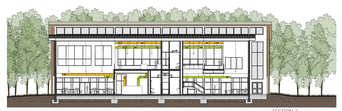


FLOOR 2 PLAN
SCALE: 1'-0" = 1/8"



FLOOR 1 PLAN
SCALE: 1'-0" = 1/8"

SECTION 1
SCALE: 1'-0"=1/8"



SECTION 2
SCALE: 1'-0"=1/8"

STREET

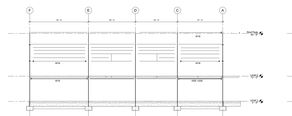
ARRIVAL

GALLERY

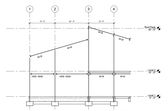
EVENT

ADMIN

OPEN OFFICE



STRUCTURAL SECTION A
SCALE: 1'-0" = 1/8"



STRUCTURAL SECTION B
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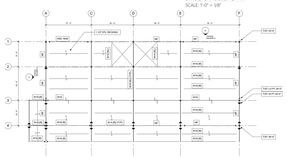
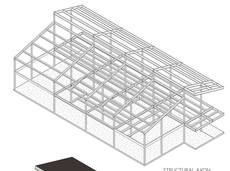
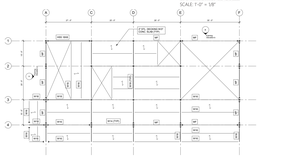


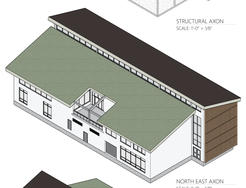
ROOF FRAMING PLAN
SCALE: 1'-0" = 1/8"



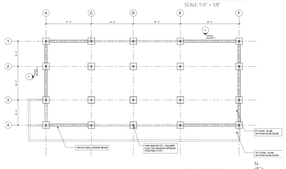
STRUCTURAL AXION
SCALE: 1'-0" = 1/8"



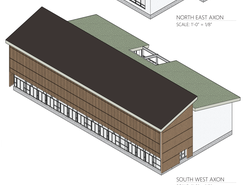
FLOOR 2 FRAMING PLAN
SCALE: 1'-0" = 1/8"



NORTH EAST AXION
SCALE: 1'-0" = 1/8"



FOUNDATION PLAN
SCALE: 1'-0" = 1/8"



SOUTH WEST AXION
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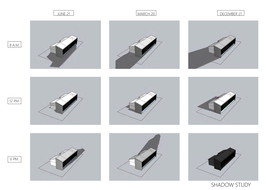
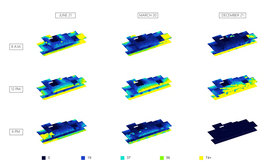
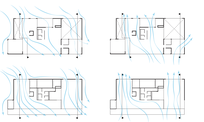


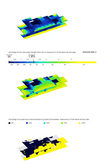
SHADOW STUDY

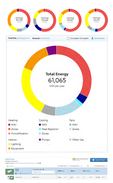


FOOTCANDLES

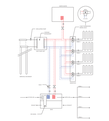


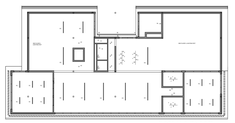
BIOCLIMATIC STRATEGIES
N.T.S.





LOUVER ANALYSIS
SUN PATH DIAGRAM

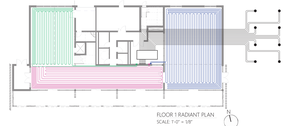




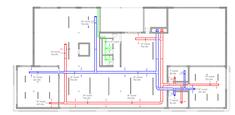
FLOOR 1 LIGHTING RCP
SCALE: 1'-0" = 1/8"

FLOOR 1 LIGHTING RCP
SCALE: 1'-0" = 1/8"

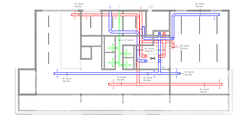
FLOOR 2 RADIANT PLAN
SCALE: 1'-0" = 1/8"



FLOOR 1 RADIANT PLAN
SCALE: 1'-0" = 1/8"



FLOOR 2 DOAS RCP
SCALE: 1'-0" = 1/8"



FLOOR 1 DOAS RCP
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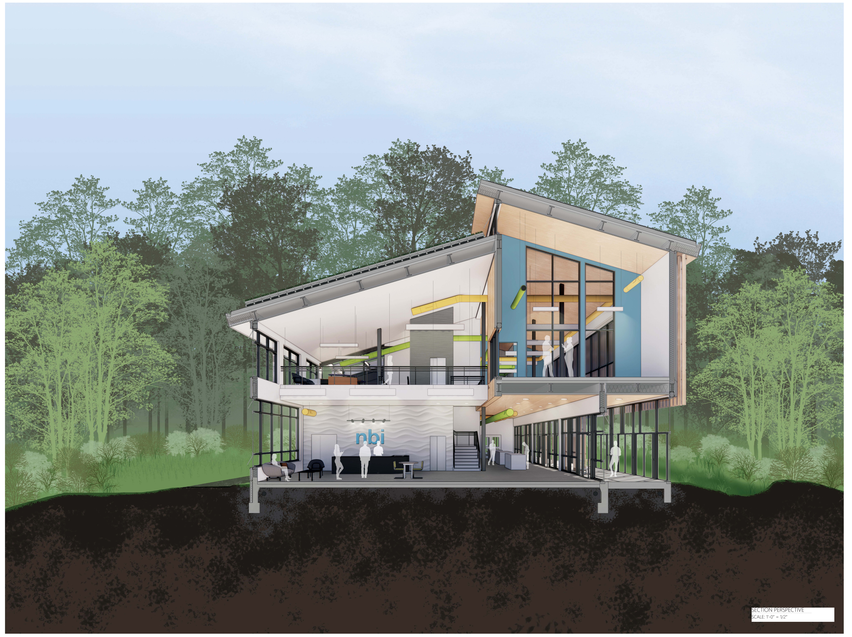
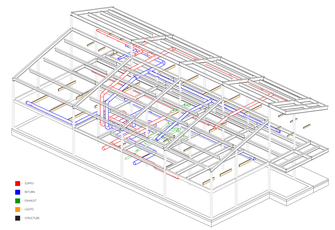


EXTERIOR PERSPECTIVE
SCALE: 1'-0" = 1/2"



COLLISION DETECTION
N.T.S.