THE "SOUND OF GOGO" MUSEUM

FINAL PRESENTATION

Dean Bailey

THE SITE

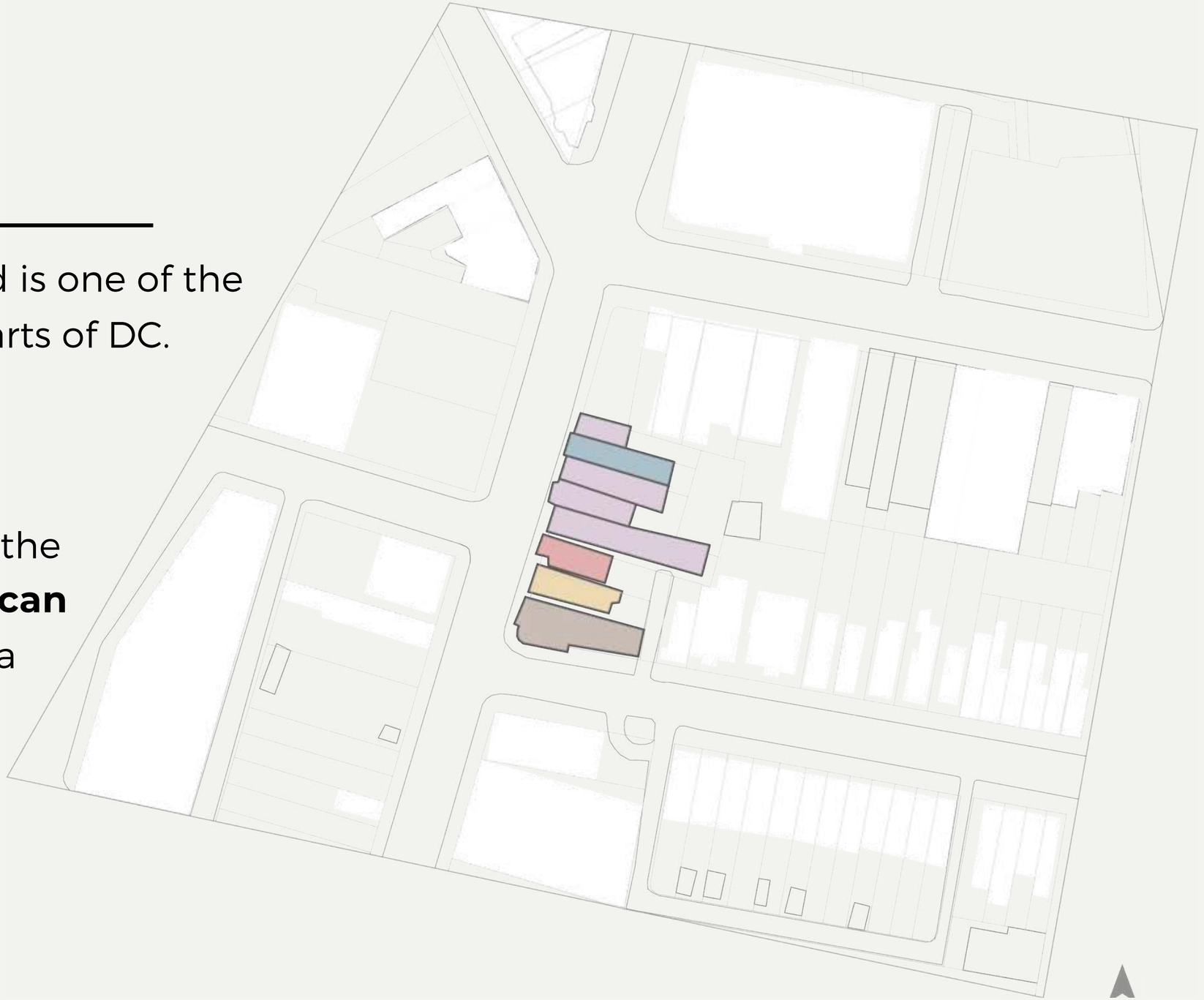
This project's site is located in Washington DC, on **Martin Luther King Jr. Ave SE**, between **Good Hope Road SE** and **U St SE**.

A BRIEF BACKGROUND

THE SITE

The **Anacostia** neighborhood is one of the Blackest and most historic parts of DC.

The community surrounding the site is comprised of 97% **African American** residents and has a population of about 56,131 individuals.



THE SITE

The **Anacostia** neighborhood has a rich history that lives through its music scene and the buildings that host its culture.

A BRIEF BACKGROUND

CULTURE

The residents of Anacostia have helped establish a rich musical **culture**, and are descended from those who helped establish DC's official sound: **Go-go**.

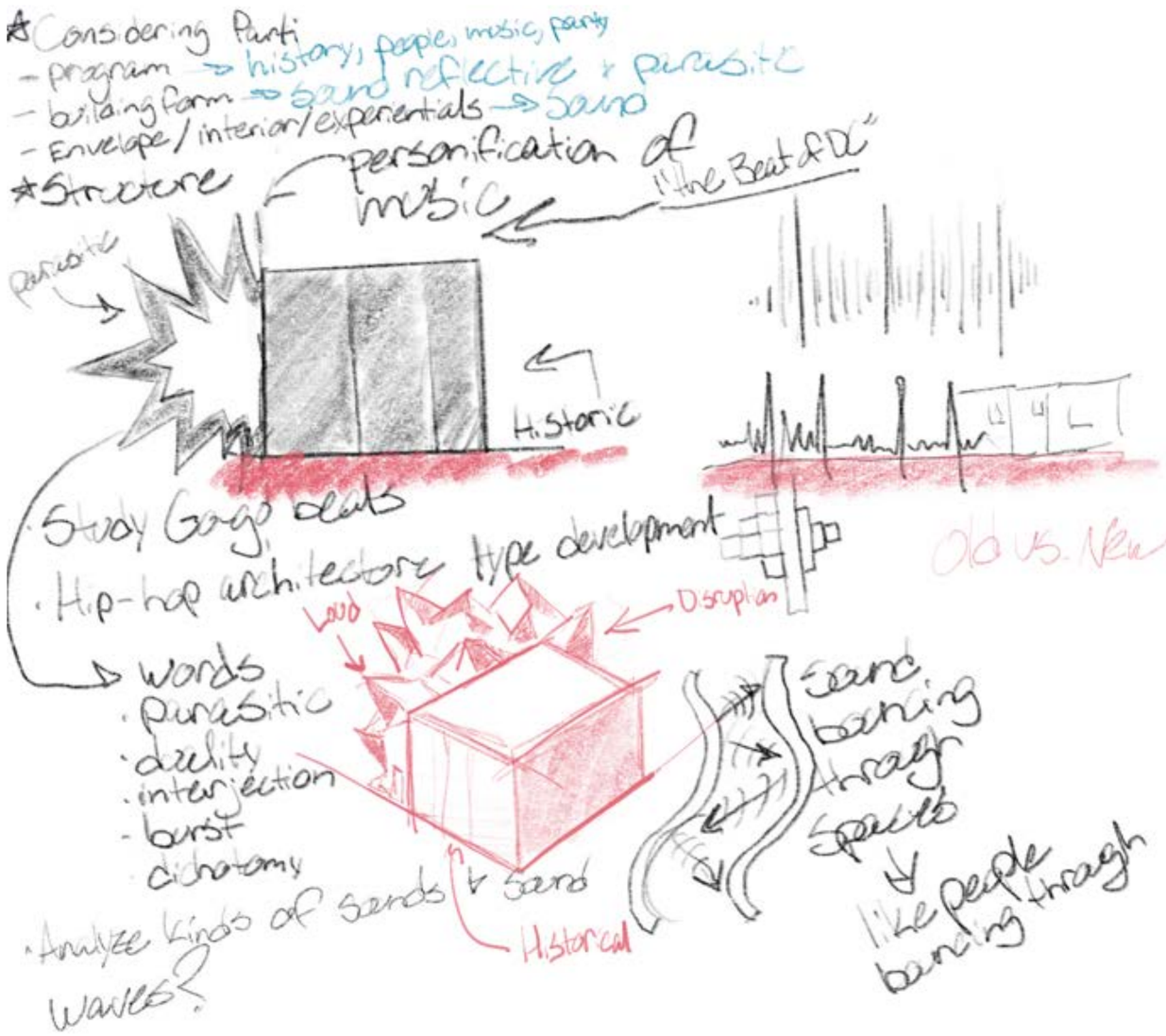
Chuck Brown: Father of Go-go

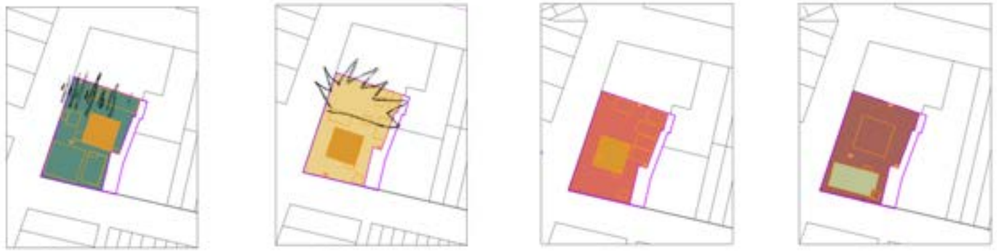
A BRIEF BACKGROUND

PARTI SKETCHING

The original motive behind the design, was to capture sound through the shape and function of a building.

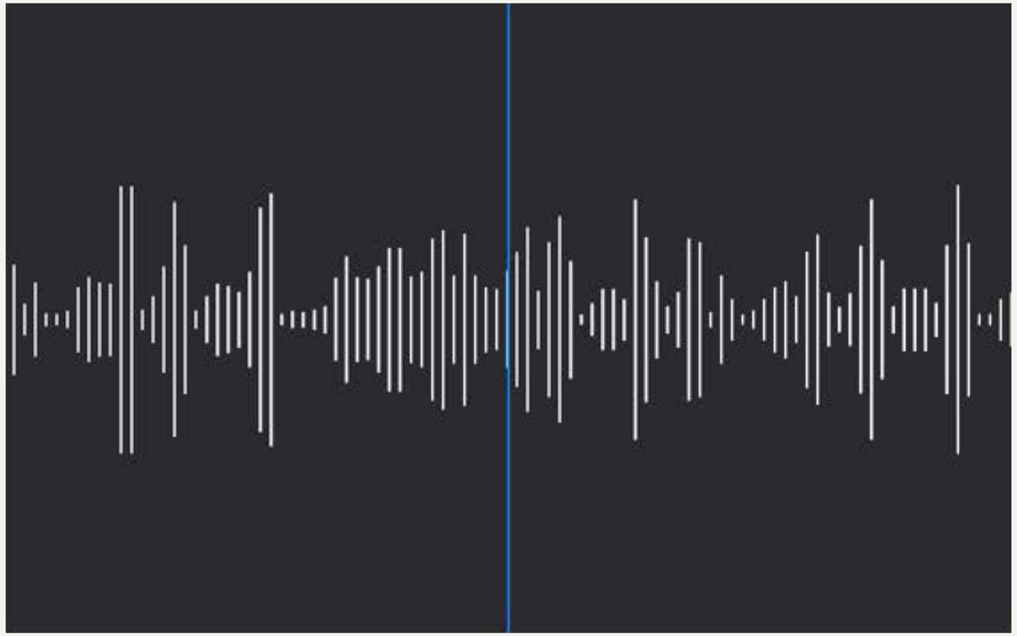
Documented, are some preliminary ideas, drawn up when the project was first pitched.

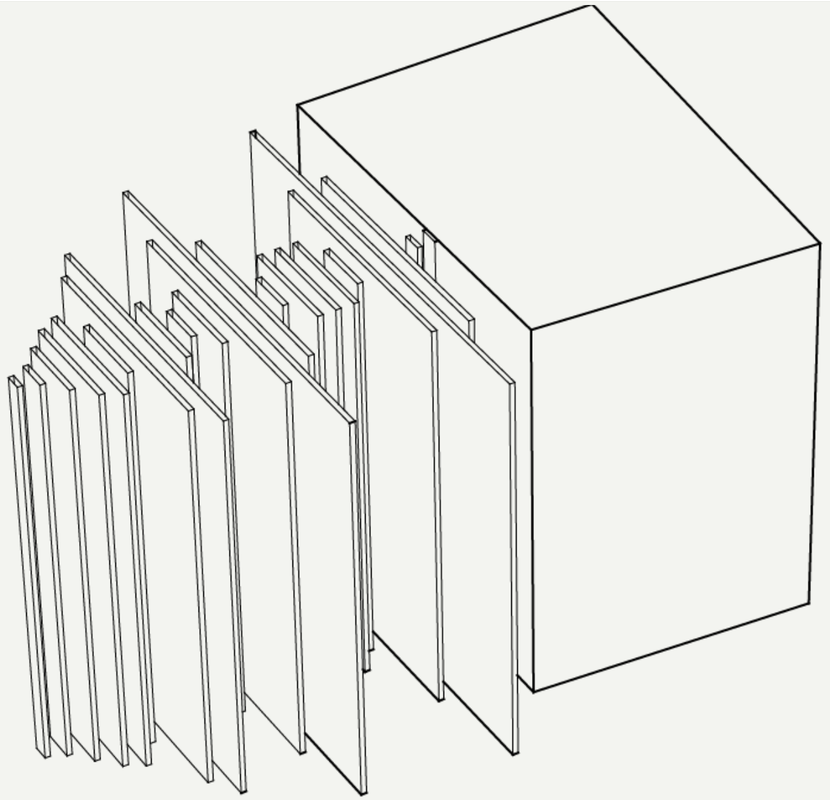




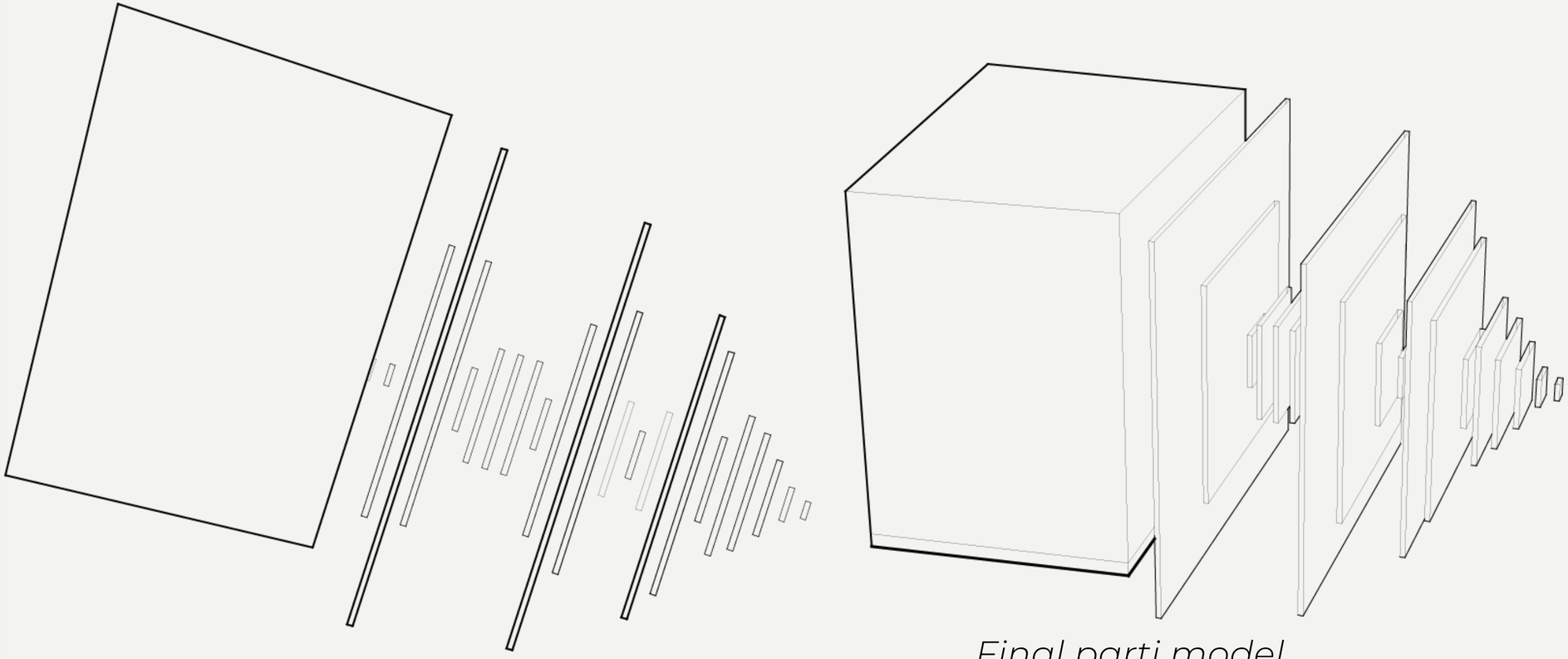
PARTI

One of **Chuck Brown's** most popular songs, "**Chuck Baby**," served as inspiration for the parti.





PARTI



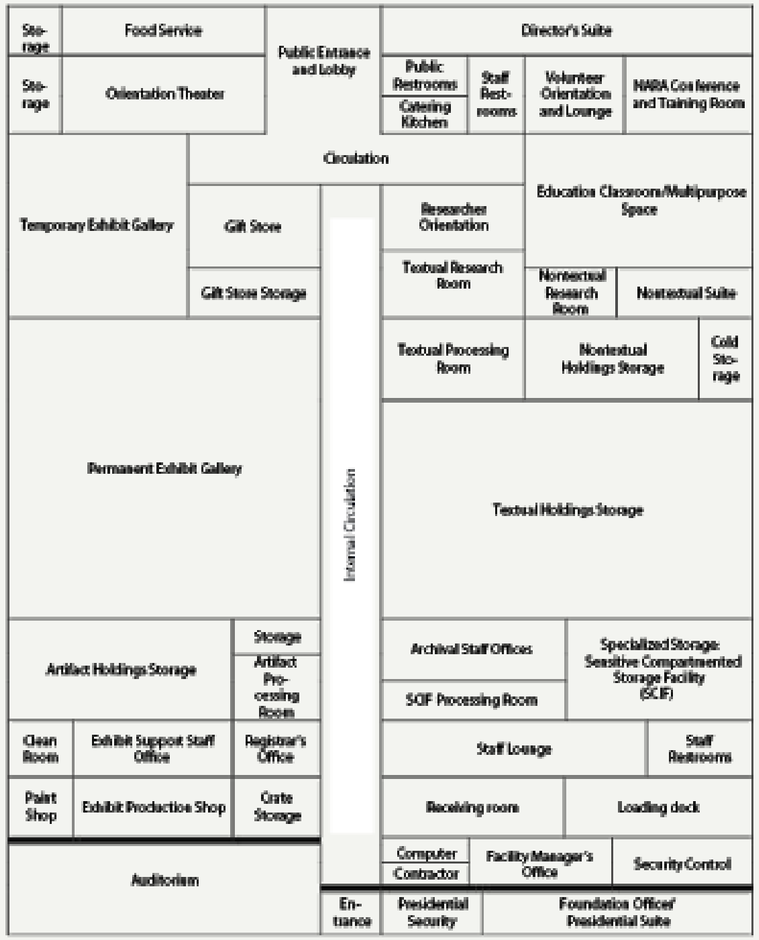
Final parti model

The personification of **sound** as a 3D element with **mass**, **direction** and **rhythm**, became the focus of the parti.

Soundwaves as blades motif established.

PROGRAM

Figure 2-1: Library Spaces and Functional Relationships



Precedents

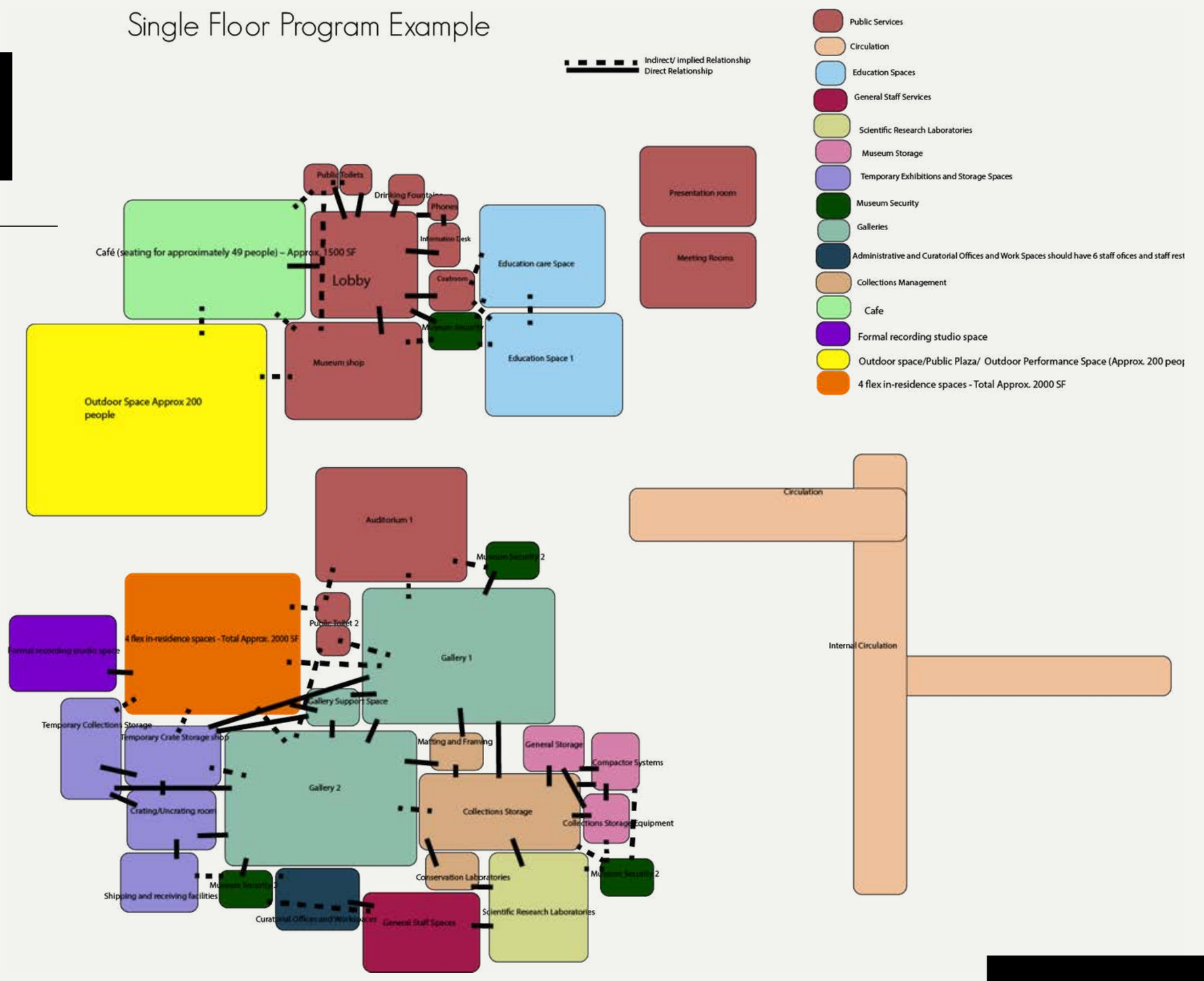
Prince George's African American Museum and Cultural Center

Presidential Library

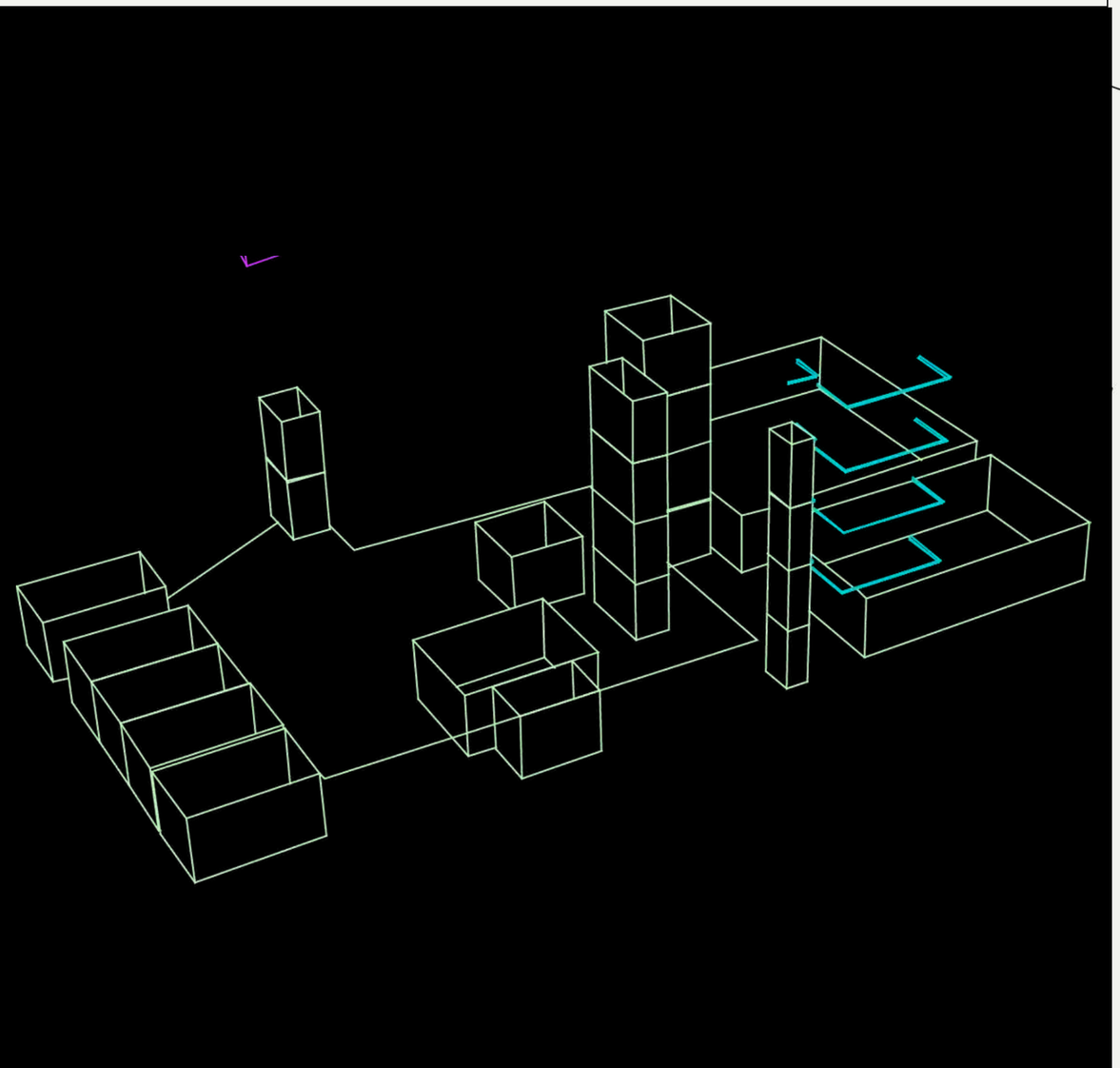
Anacostia Community Museum

PROGRAM

This bubble diagram was an early attempt at trying to balance adjacencies in the scheme of a large building, based off the chosen precedents.

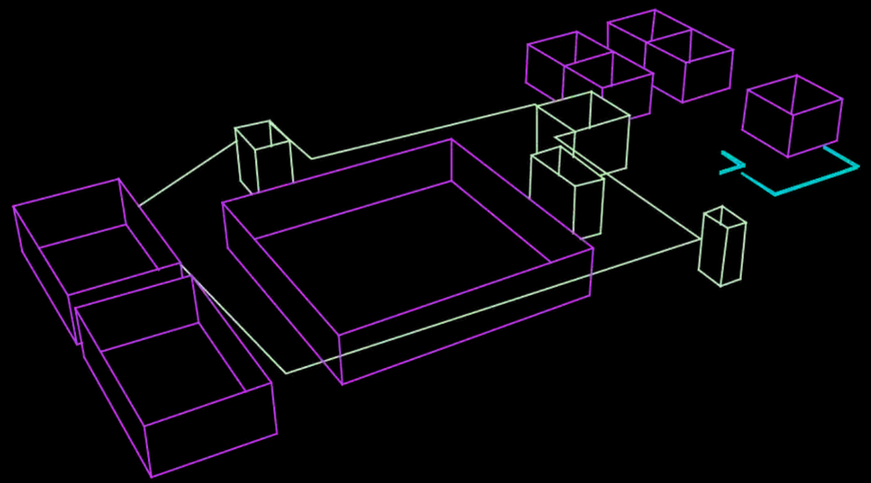


PROGRAM



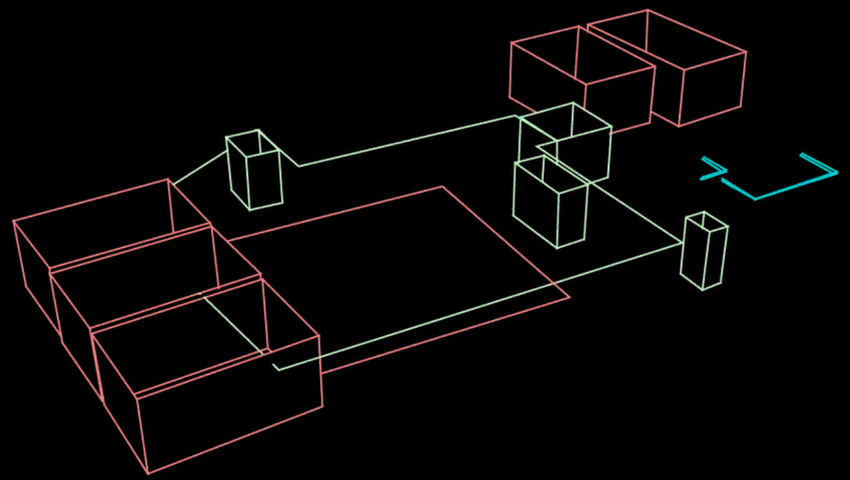

Martin Luther King Jr. Ave SE
Elevator
Conference Space 300 SF
Presentation Space 300 SF
Educational Spaces 1282 SF
Vestibule 150 SF
Lobby 500 SF
N
Gallery Space
2500 SF
Gift Shop 210 SF
Elevator
Freight Elevator
Stairs
Restroom 210 SF
Auditorium 3000 SF
Cafe
1500 SF
U St SE

PROGRAM



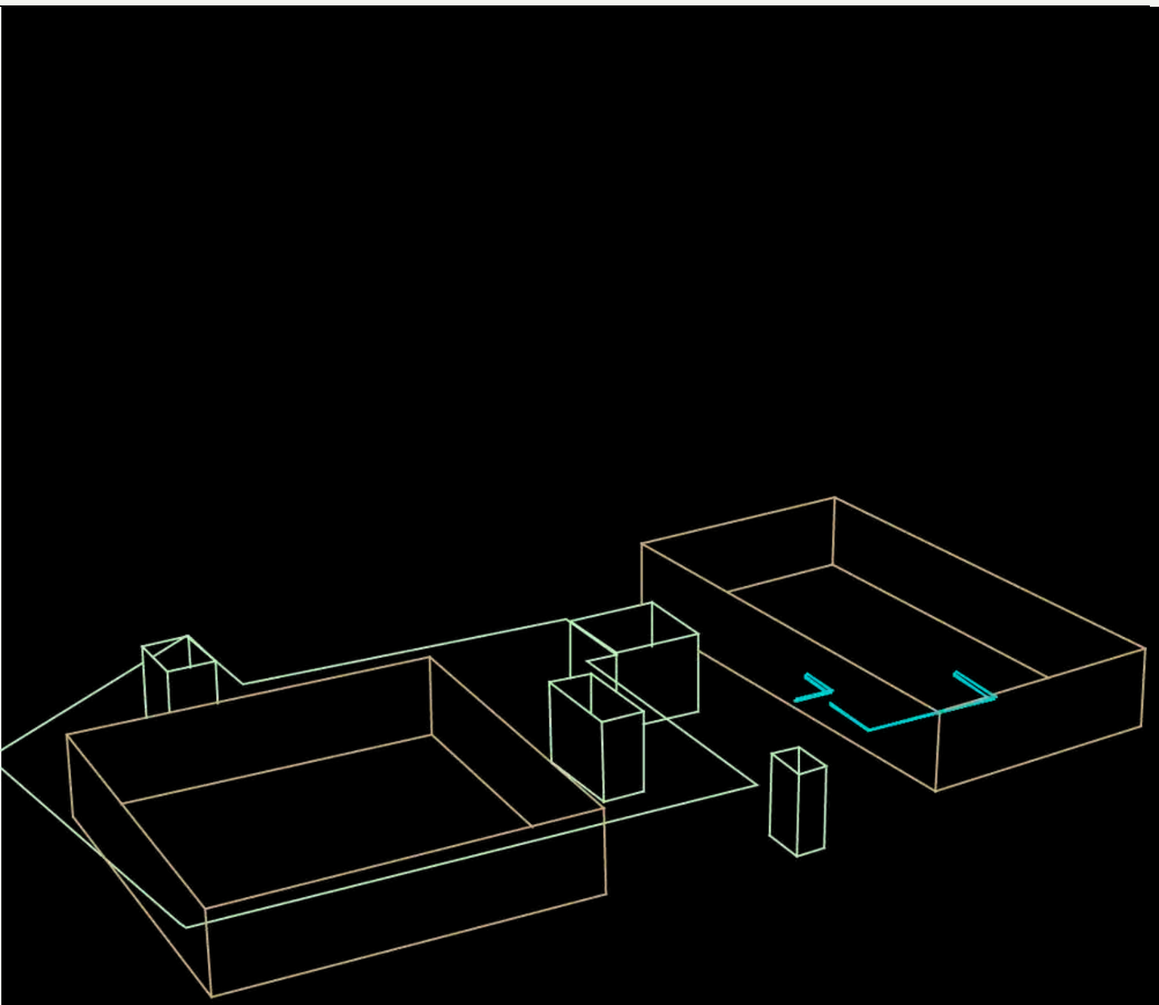

Martin Luther King Jr. Ave SE
N
Elevator
Flex-In Resident Spaces
2000 SF Total
Collection Storage
700 SF
Recording Studio
210 SF
Curatorial Offices
700 SF
Gallery Space
2500 SF
Freight Elevator
Stairs
Elevator
Restrooms
210 SF
U St SE

PROGRAM



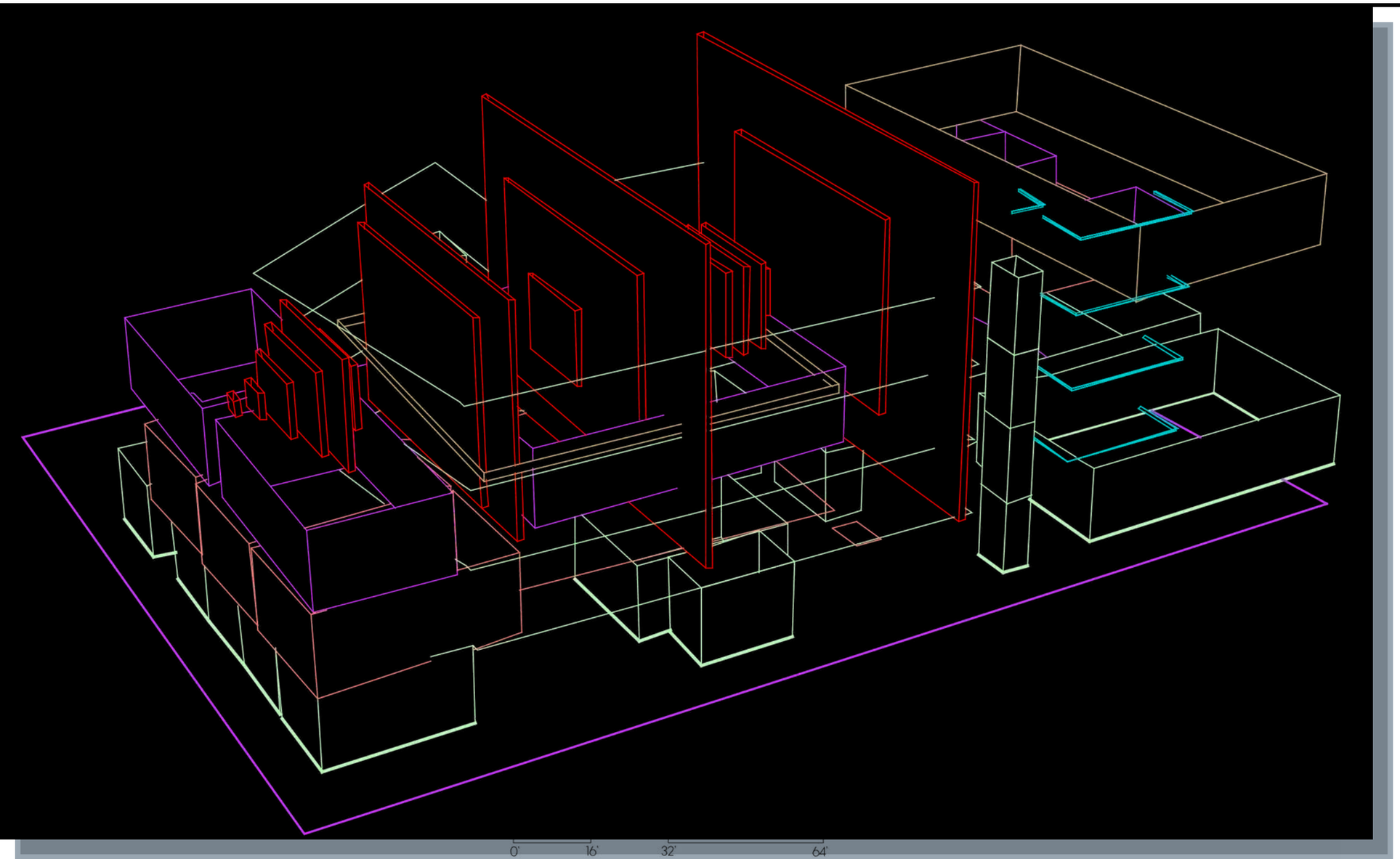

Martin Luther King Jr. Ave SE
N
Matting and Framing 1500 SF
Elevator
General Staff Spaces
1500 SF
Mechanical Systems 1550 SF
General Storage and
Collections Storage
1500 SF
Gallery Space
2500 SF
Elevator
Temporary Collections Storage
1500 SF
Freight Elevator
Stairs
Restroom 210 SF
U St SE

PROGRAM




Martin Luther King Jr. Ave SE
N
Elevator
Outdoor Performance Space
(approx 200 people)
2916 SF
Elevator
Freight Elevator
Stairs
Green Space
2000 SF
Restrooms
210 SF
U St SE

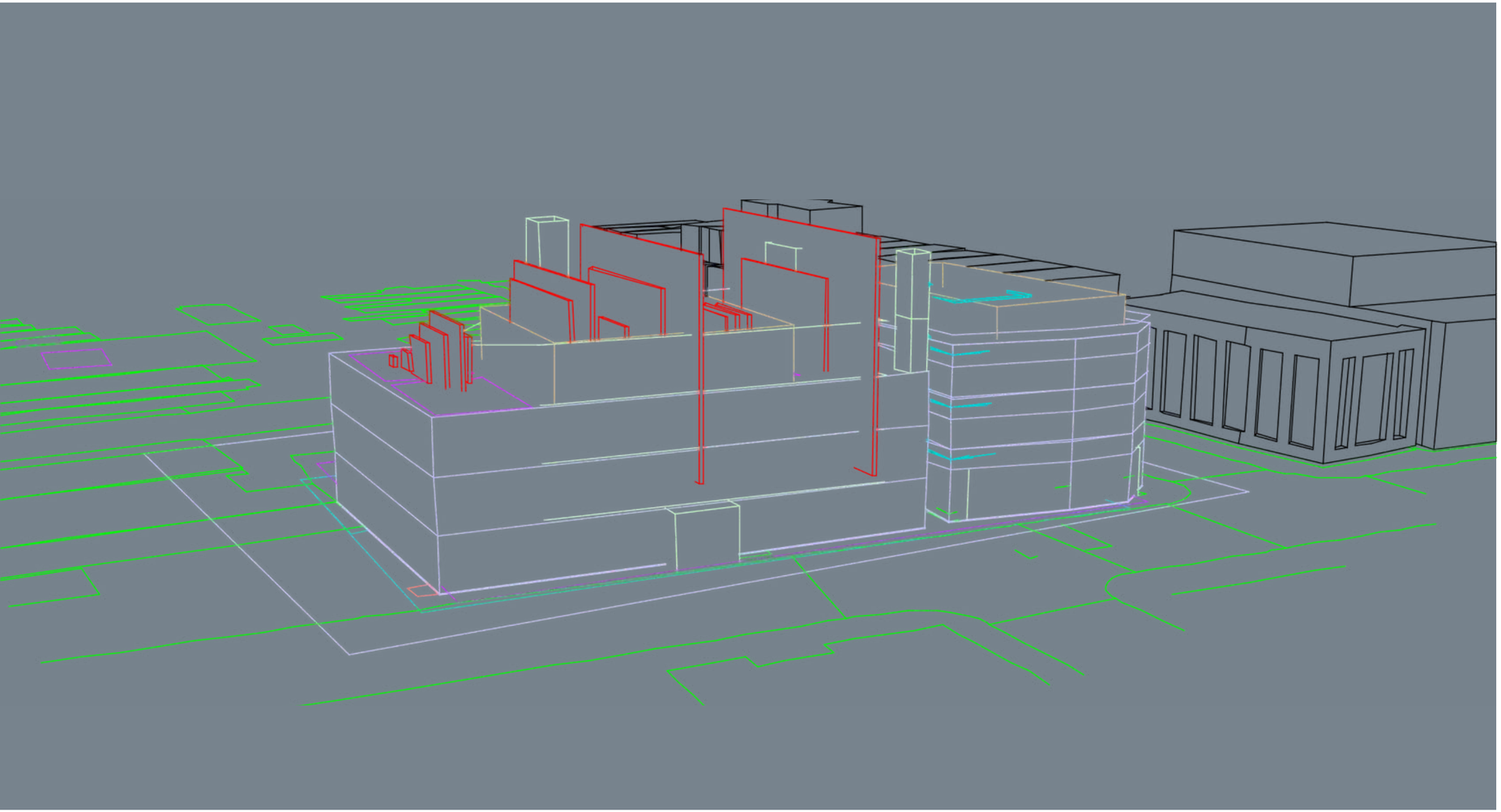
CONCEPT MODEL



SYNTHESIS

The floor layouts, decided in the program analysis, and the motifs generated from the parti, were combined to begin establishing a form.

CONCEPT MODEL

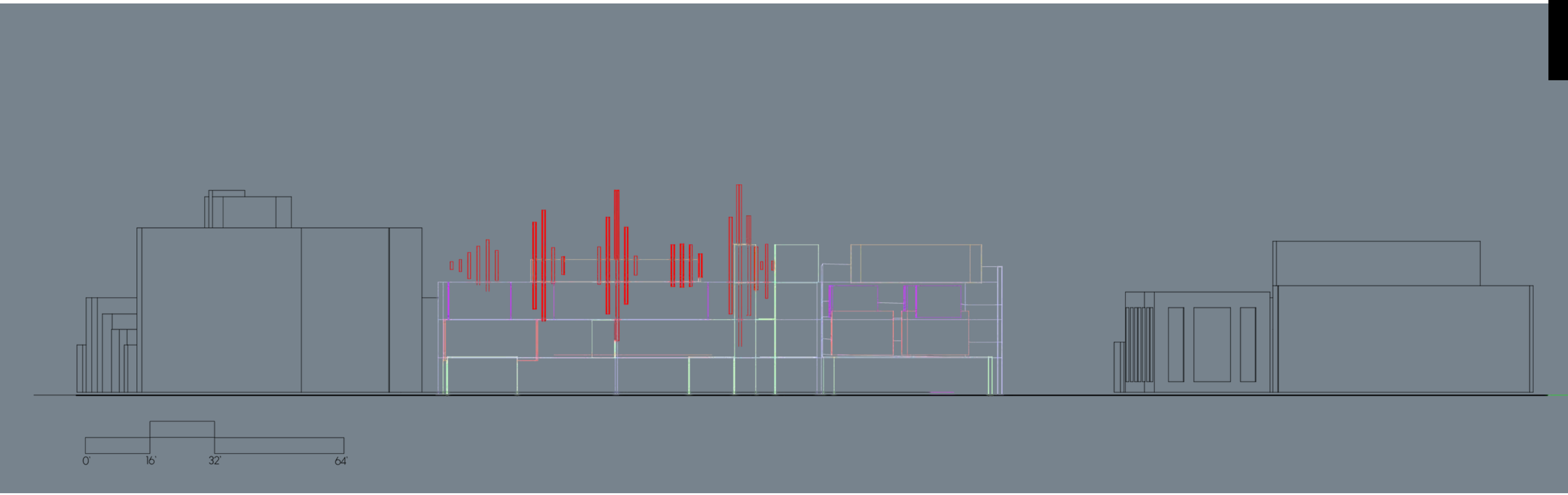


SYNTHESIS

A boundary system was set in place to contain the program, and begin interacting with the parti elements.

CONCEPT MODEL

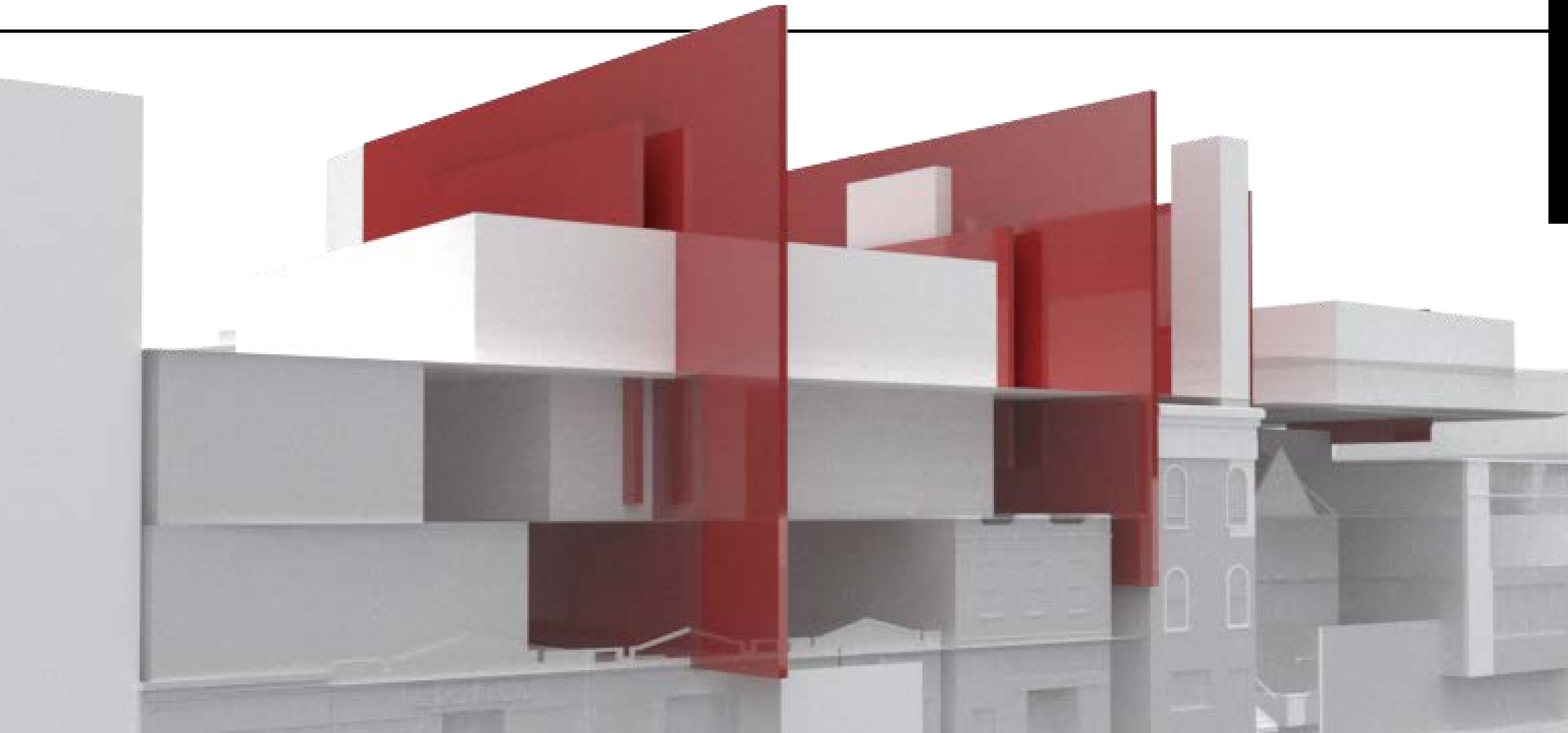
The concept in context



Concept Elevation Scale: 1'0"=1/16"

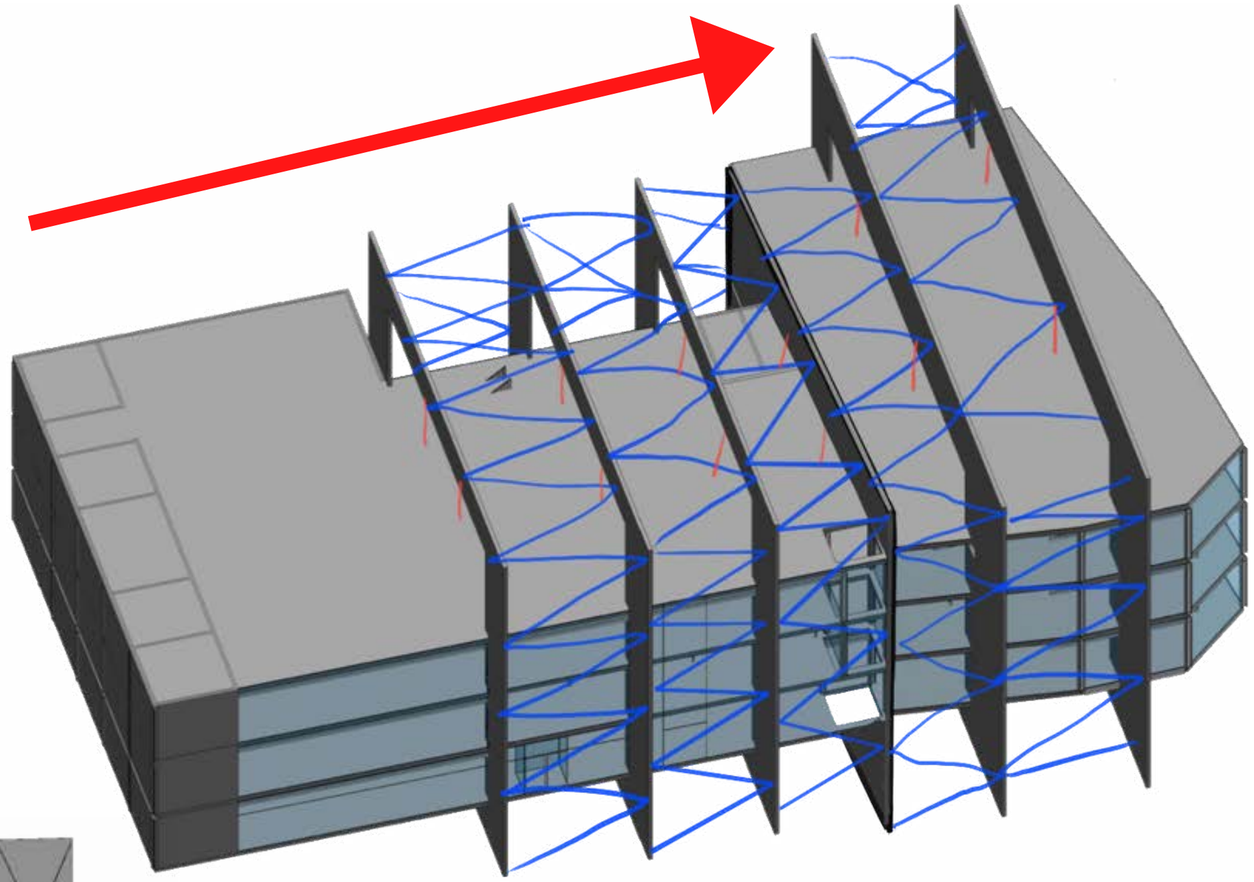
CONCEPT MODEL

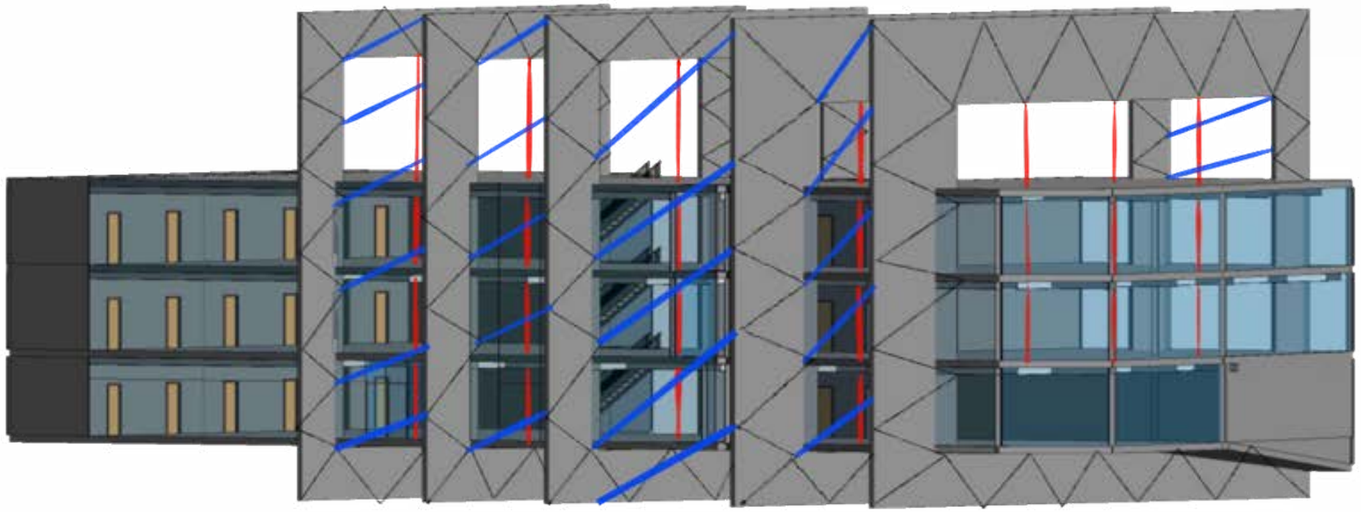
Detail moment of massing iteration



STRUCTURE

A basic design was yielded from the concept and the **soundwaves** matured structural elements that had a direction that and rhythm.

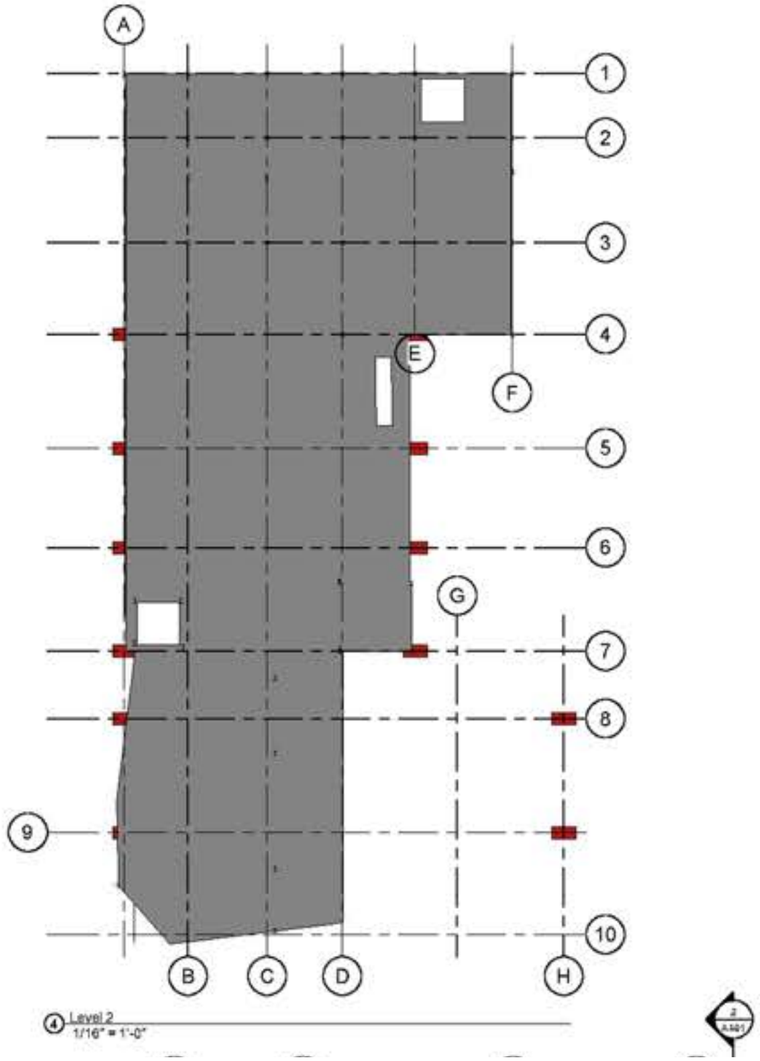


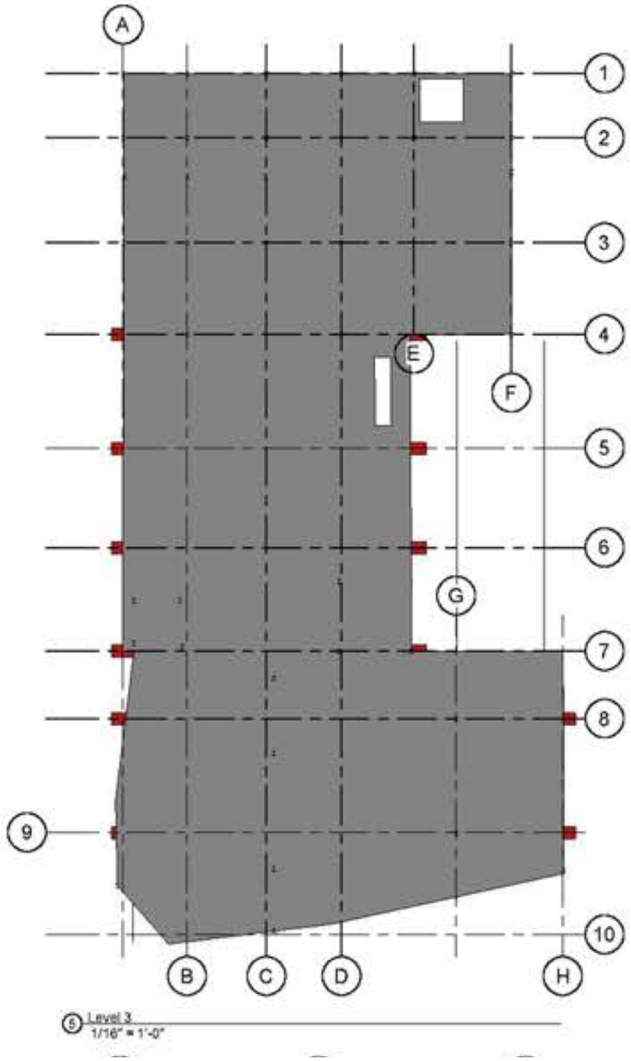


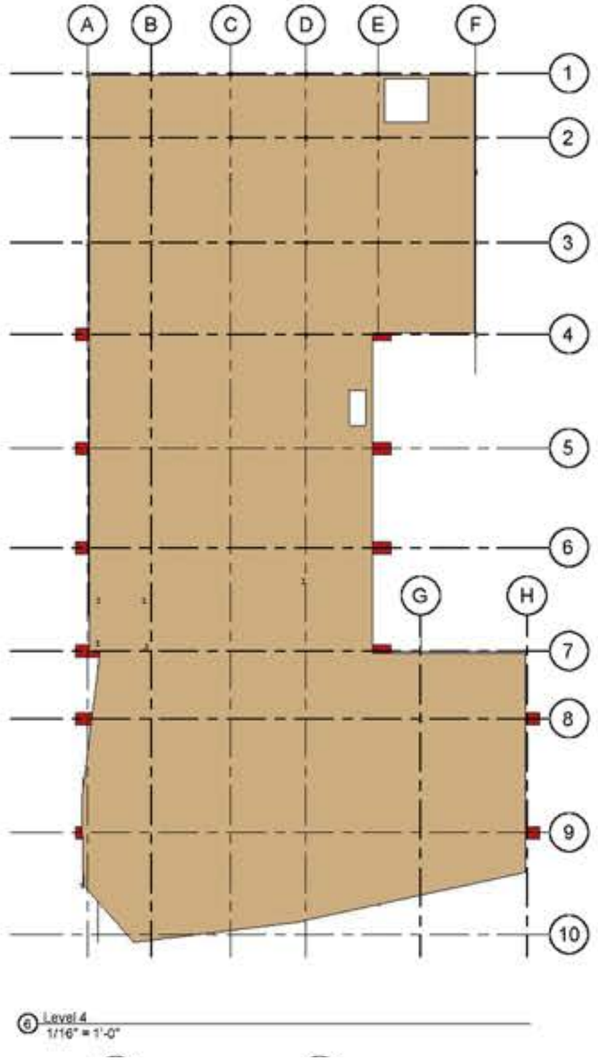
Design questions began being asked about structural integrity.

STRUCTURE

The structure became a hybrid **suspension**- **steel frame system**, with **concrete slabs**. A grid was realized.

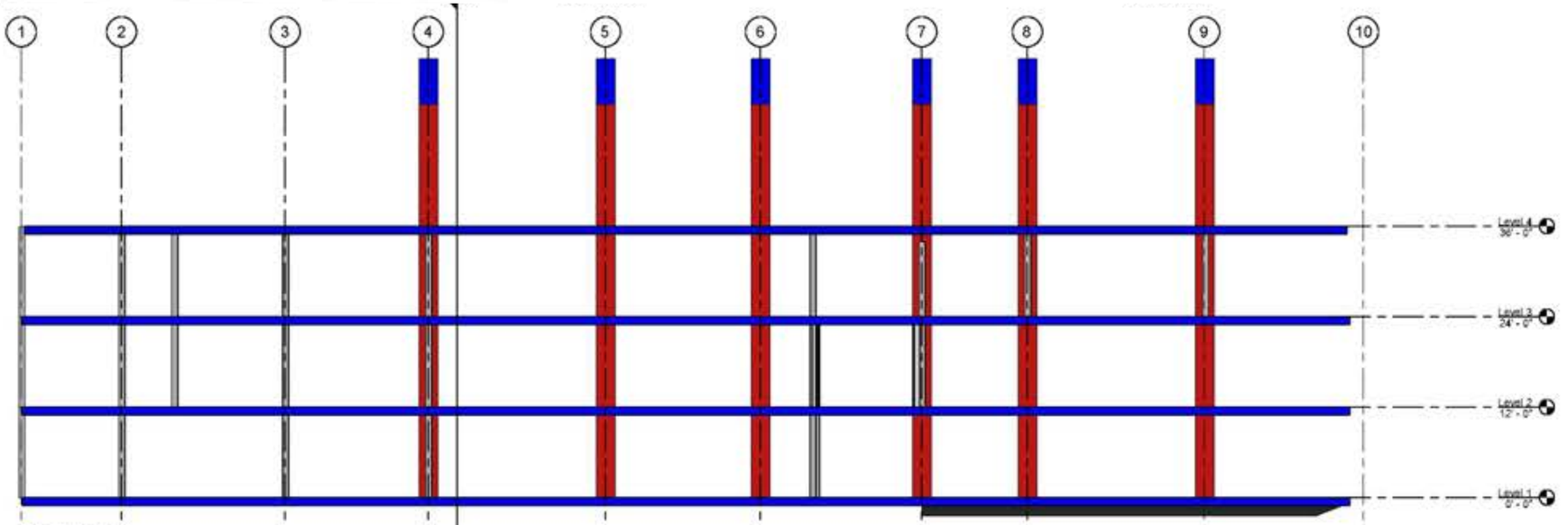


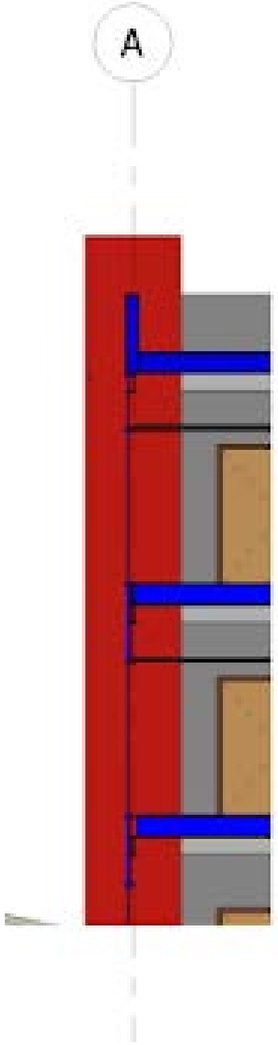




STRUCTURE

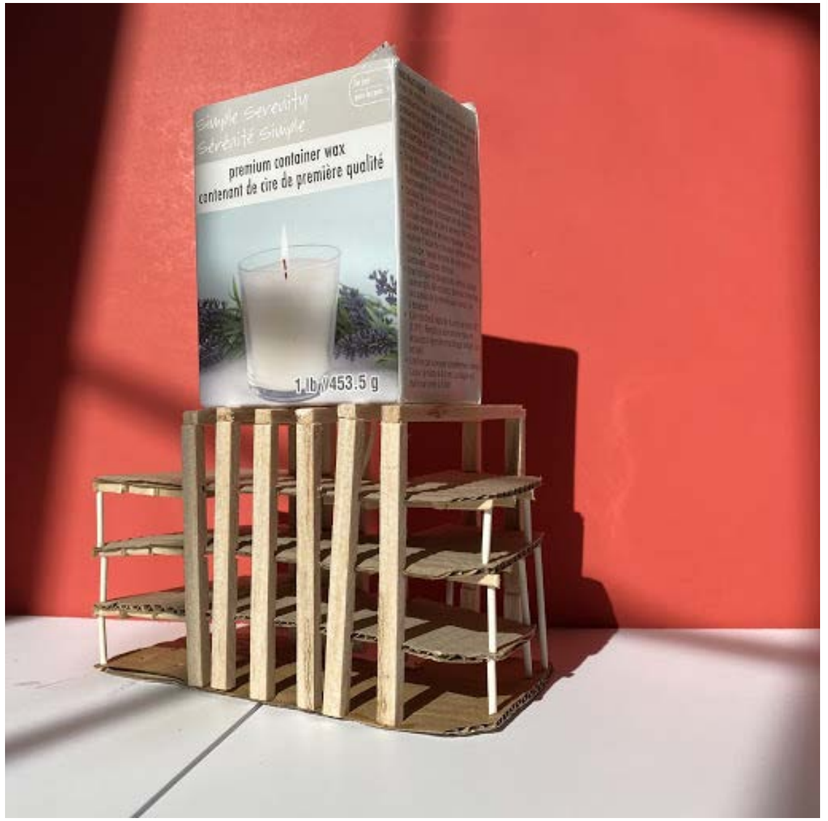
The **soundwaves** became structural **column and beam systems**, from which the middle sections of the floor would be supported. The northern and southern aspects would remain **frame supported**.





STRUCTURE

A model was made to test the structure's bearing capacity as the concept evolved with the design.



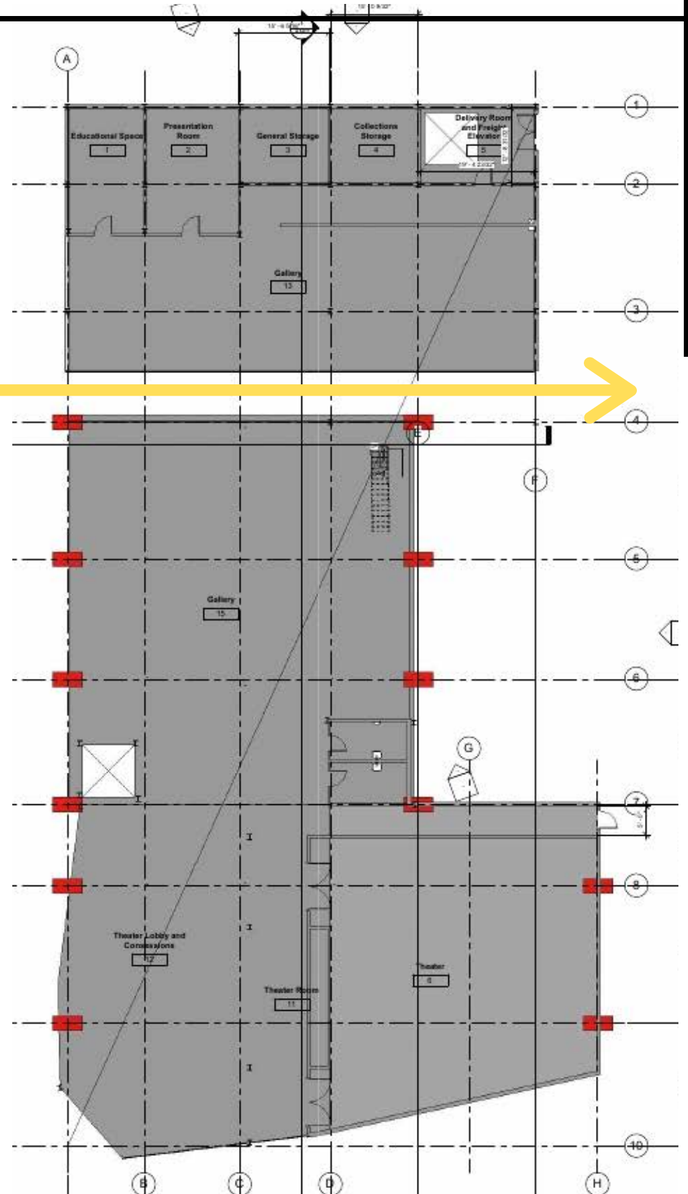
Note: The candle wax weights 1lb.

STRUCTURE

A model was made to test the structure's bearing capacity as the concept evolved with the design.

Progress on the physical model pointed out a need for a **split** in the two different structural systems. This would create new opportunities for **program** development and parti expression.

This critical structural decision would inform the entire program and design decisions moving forward.



DESIGN PRECEDENTS

Zo Living Oakland, CA

This precedent helped with the decision to create an open rooftop design. It also helped informed the facade study that would lead to the "Sound Museum's" Thermal chimney system.

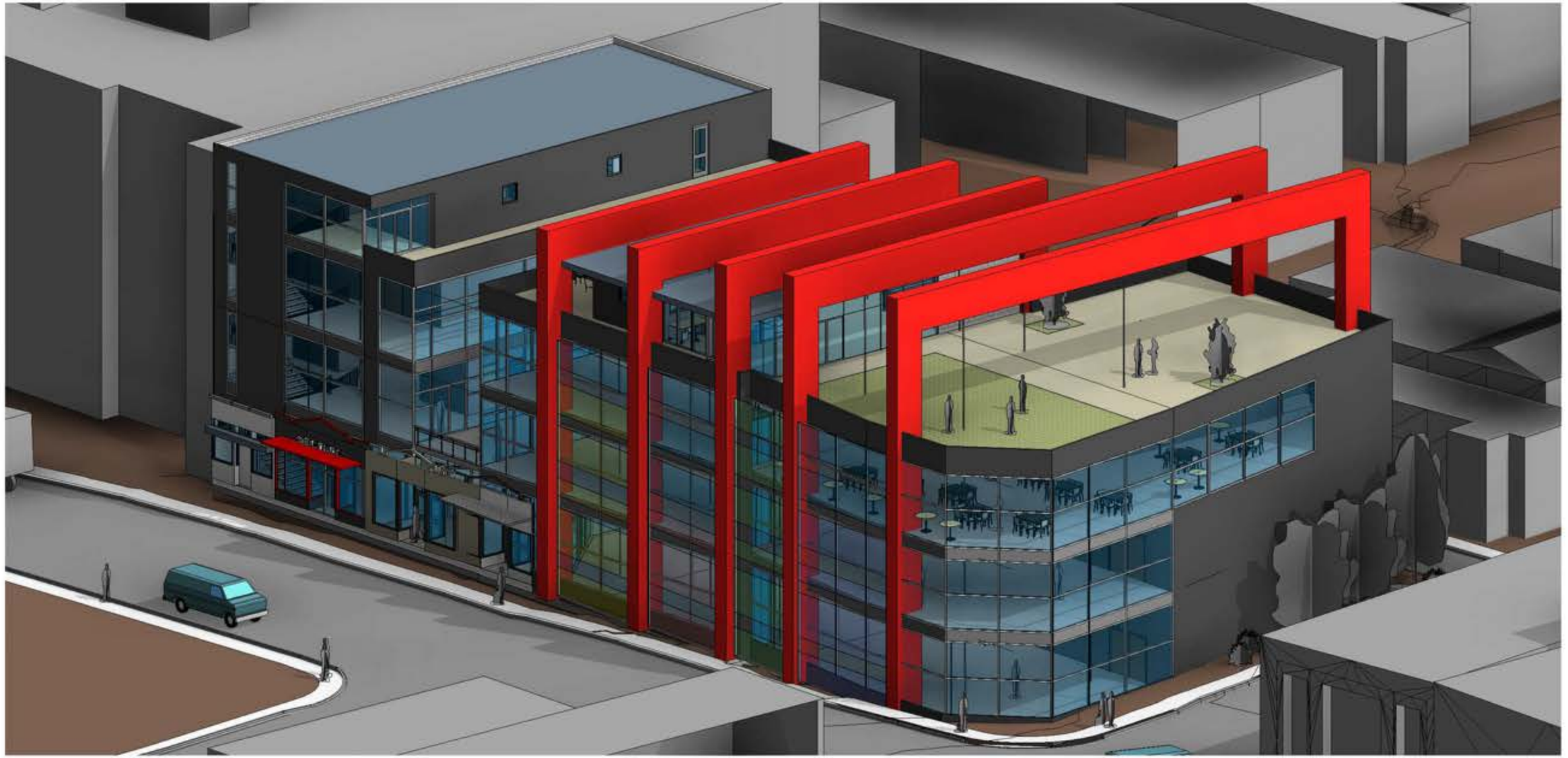
Sweden House Georgetown Washington, DC

A visit to this museum helped inform aesthetic choices and programmatic design.

Campus Repsol Madrid, Spain

The exoskeletal structural system made this building a reference point during the design of the Sound Museum.

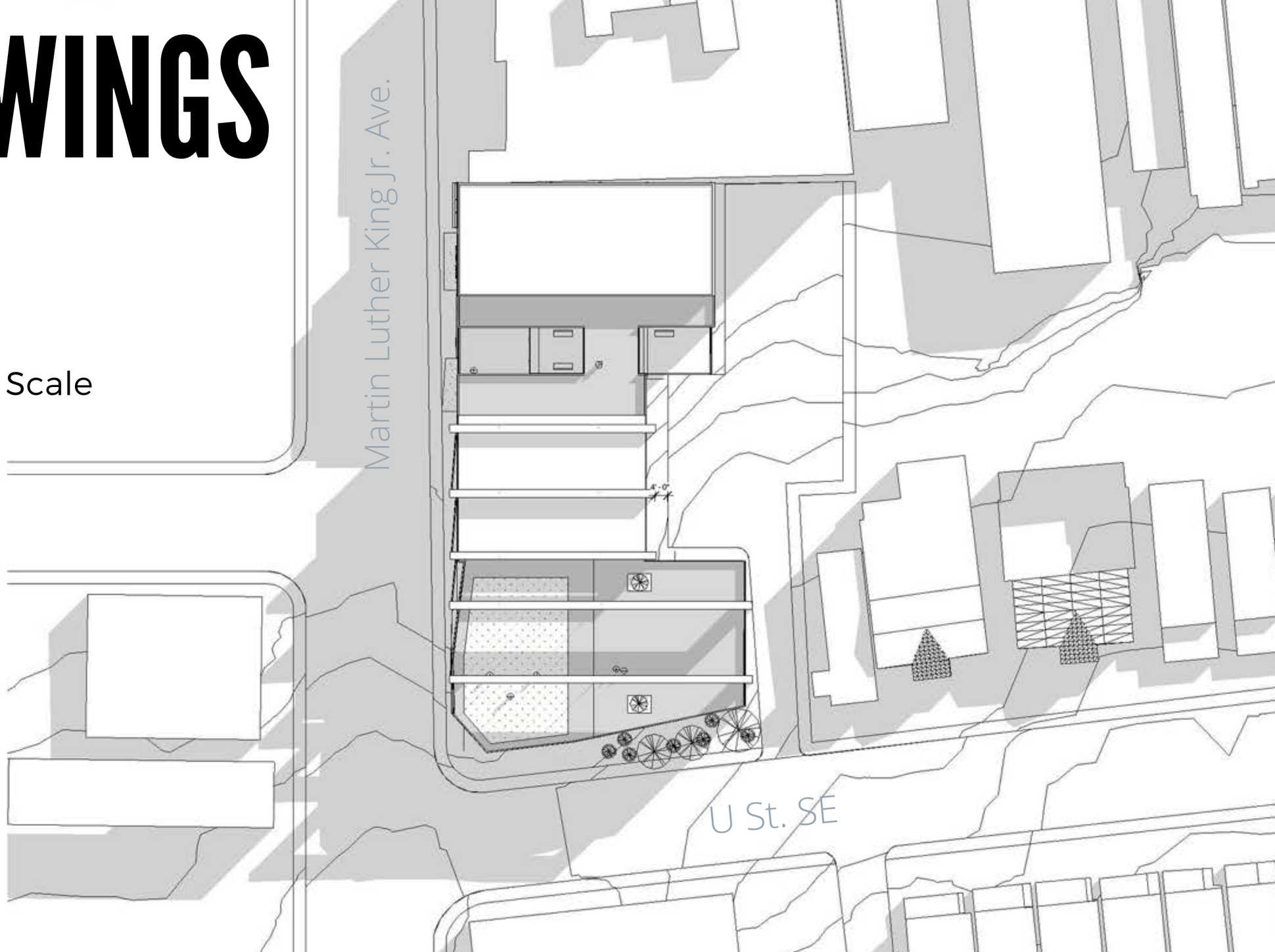
THE MODEL



THE DRAWINGS

SITE MODEL

All plans are in 1'0"=1/8" Scale



FLOOR 1

All plan views are in 1'0"=1/8" Scale

Room Legend

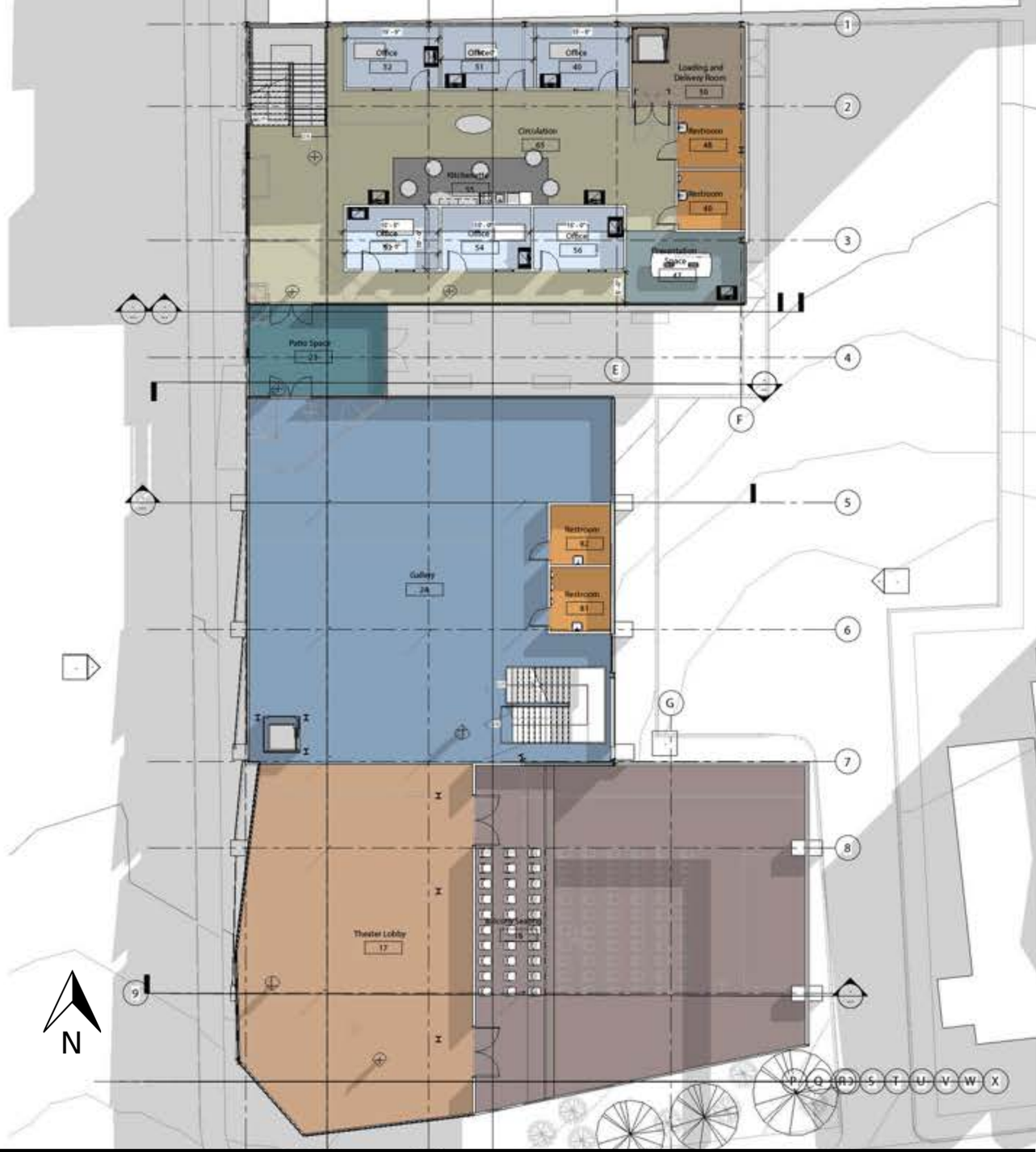
- Circulation
- Educational Space
- Gift Shop
- Loading and Delivery Room
- Lobby
- Multipurpose/Community Space
- Outdoor Alleyway
- Presentation Room
- Restroom
- Temporary Gallery
- Theater
- Theater Concessions and Plaza
- Theater Room
- Vestibule

FLOOR 2

All plan views are in 1'0"=1/8" Scale

Room Legend

- Balcony Seating
- Circulation
- Gallery
- Kitchenette
- Loading and Delivery Room
- Office
- Patio Space
- Presentation Space
- Restroom
- Theater Lobby



FLOOR 3

All plan views are in 1'0"=1/8" Scale

Room Legend

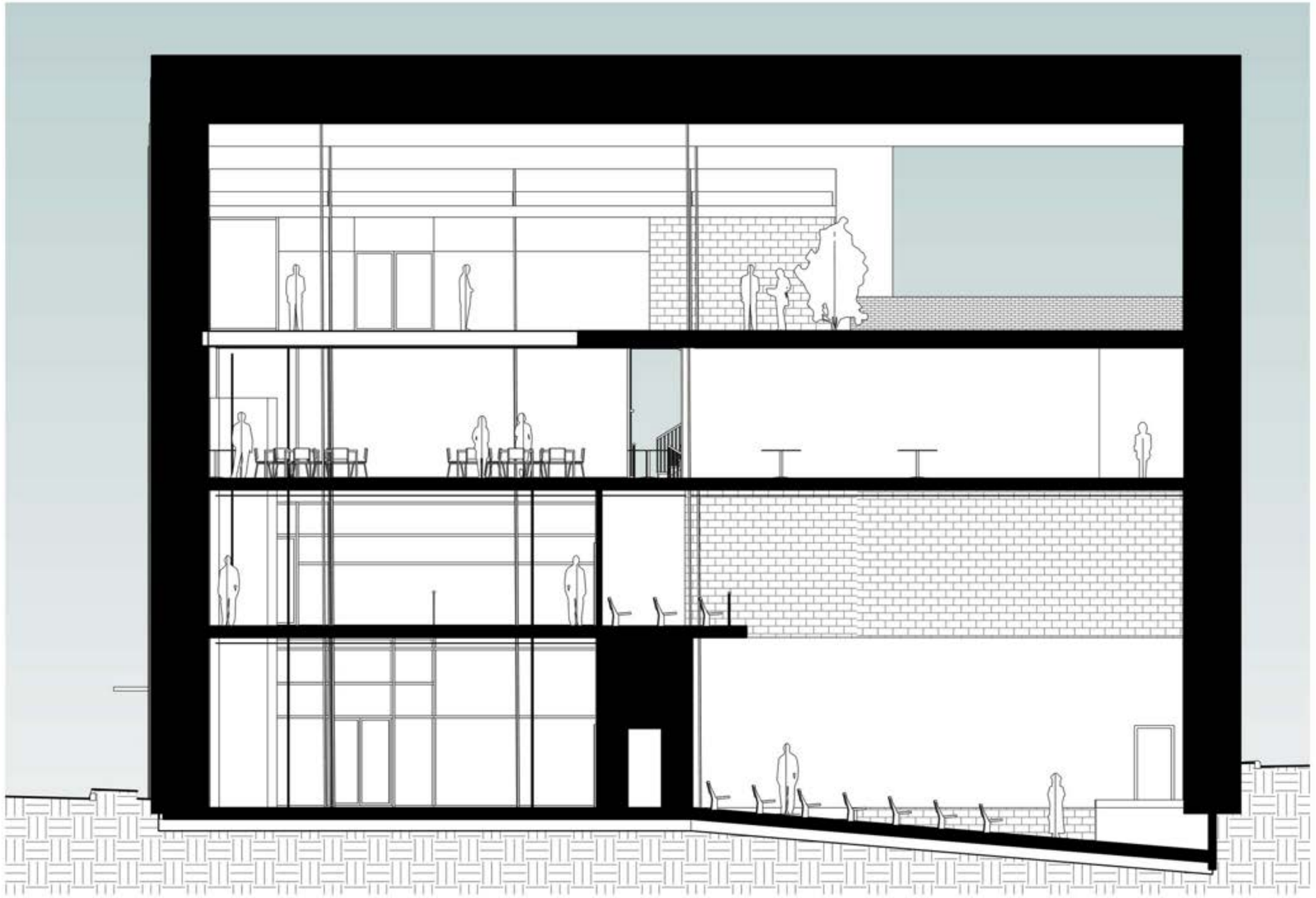
- Cafeteria
- Circulation
- Collections Storage
- Kitchen
- Loading and Delivery Room
- Permanent Gallery
- Restroom

FLOOR 4

All plan views are in 1'0"=1/8" Scale

Room Legend

- Circulation
- Closet
- Flex in Room
- Flex in Suite
- Full Bath
- Green Space
- Loading and Delivery Room
- Mechanical Room
- Outdoor Circulation
- Outdoor Performance Space
- Producer's Room
- Recording Studio
- Restroom

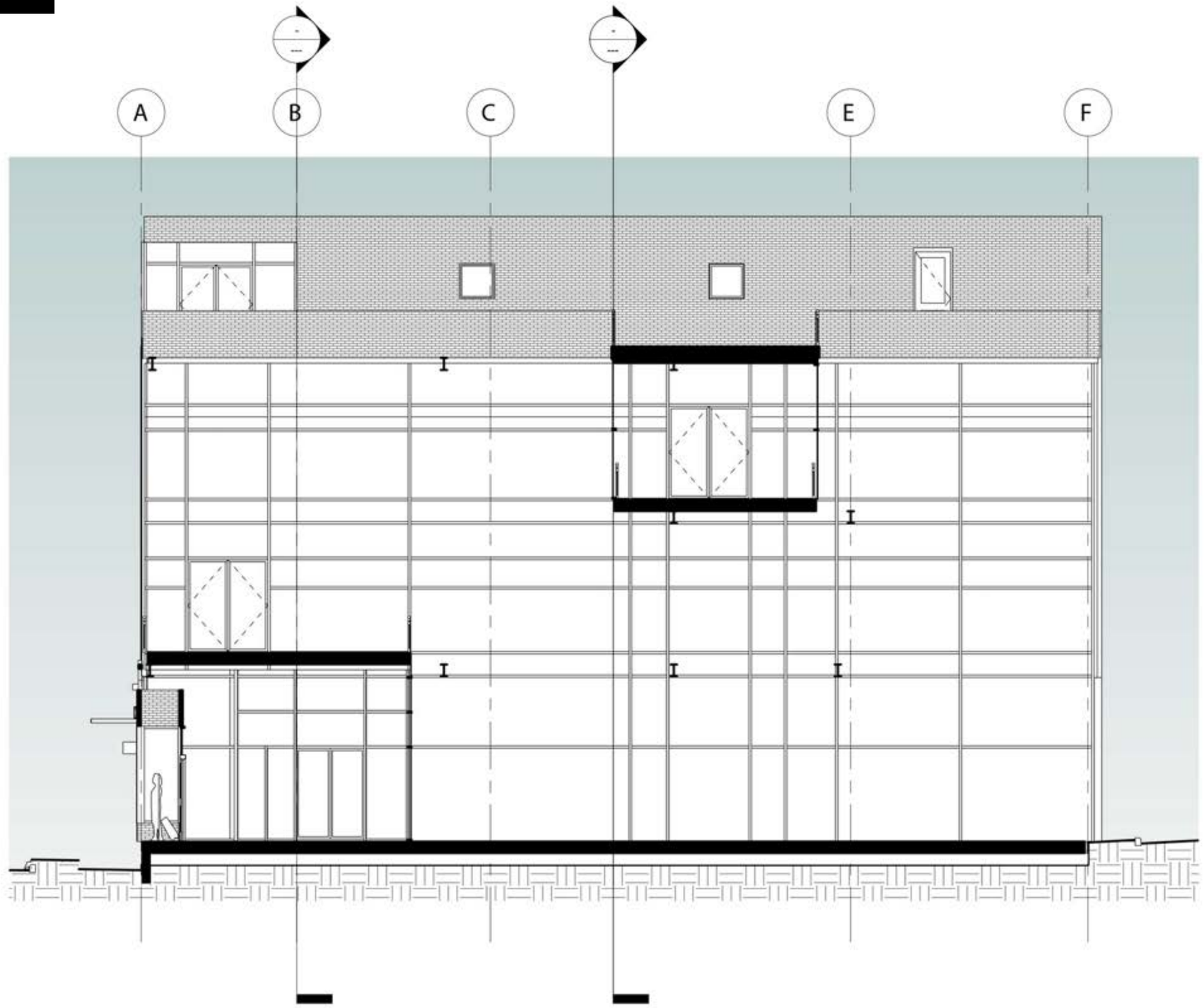


CUT SECTION

BUILDING SECTION

This view looks North, through the building.

Scale: 1'0"=1/8"



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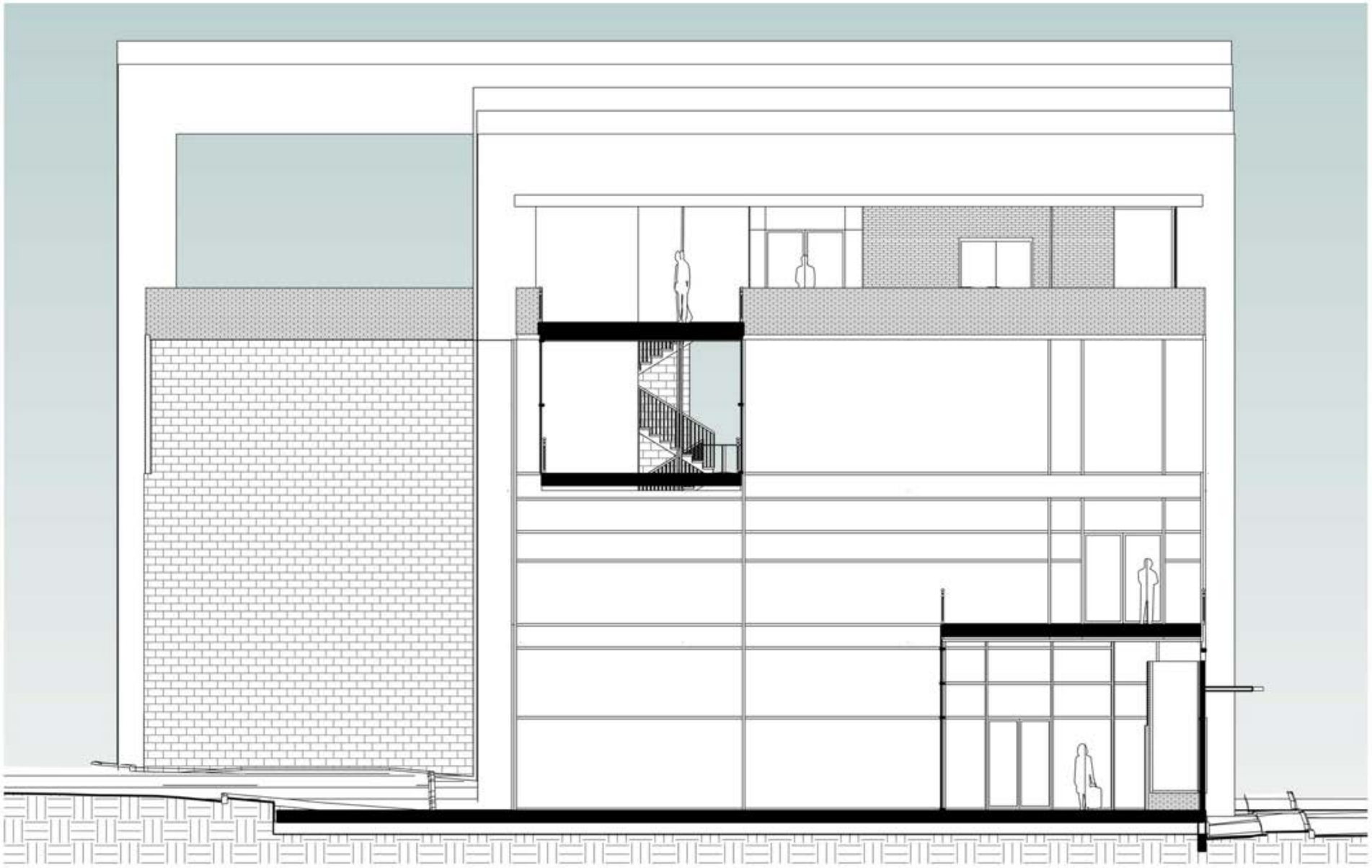

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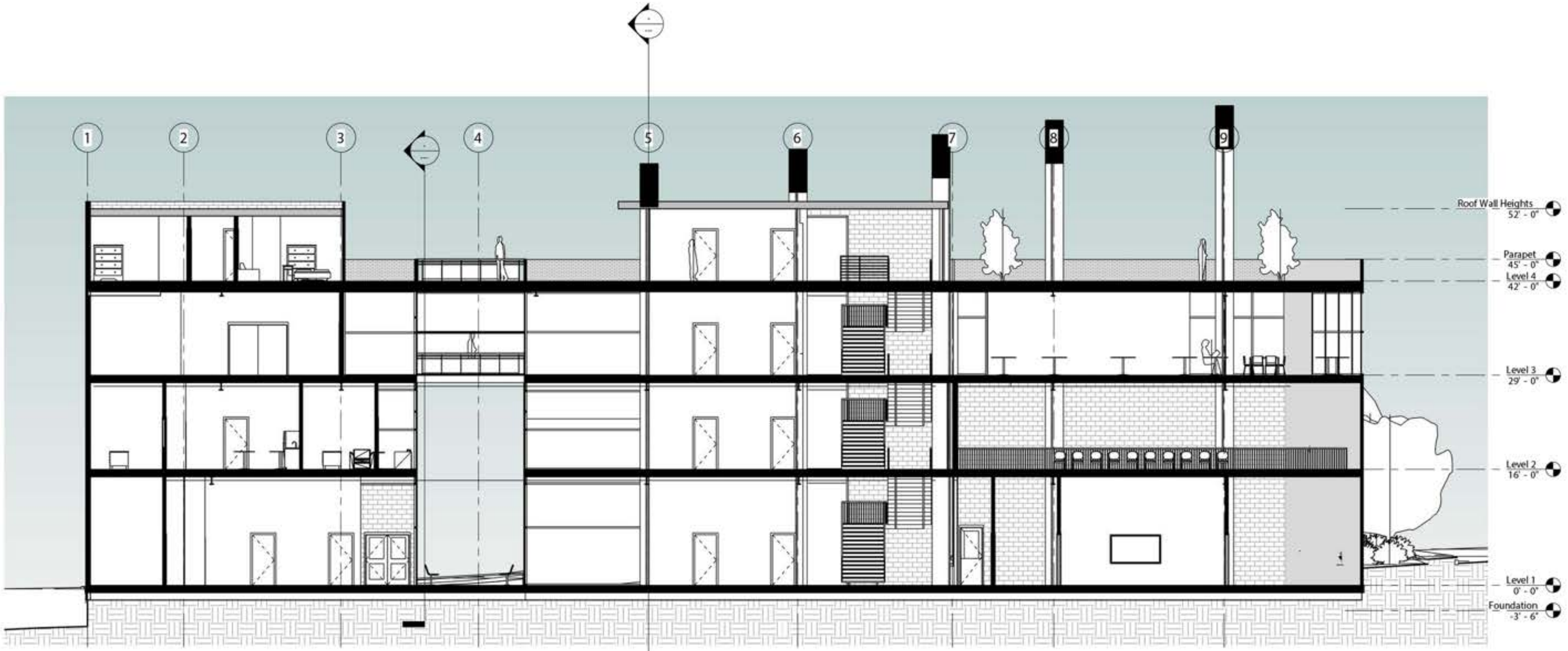
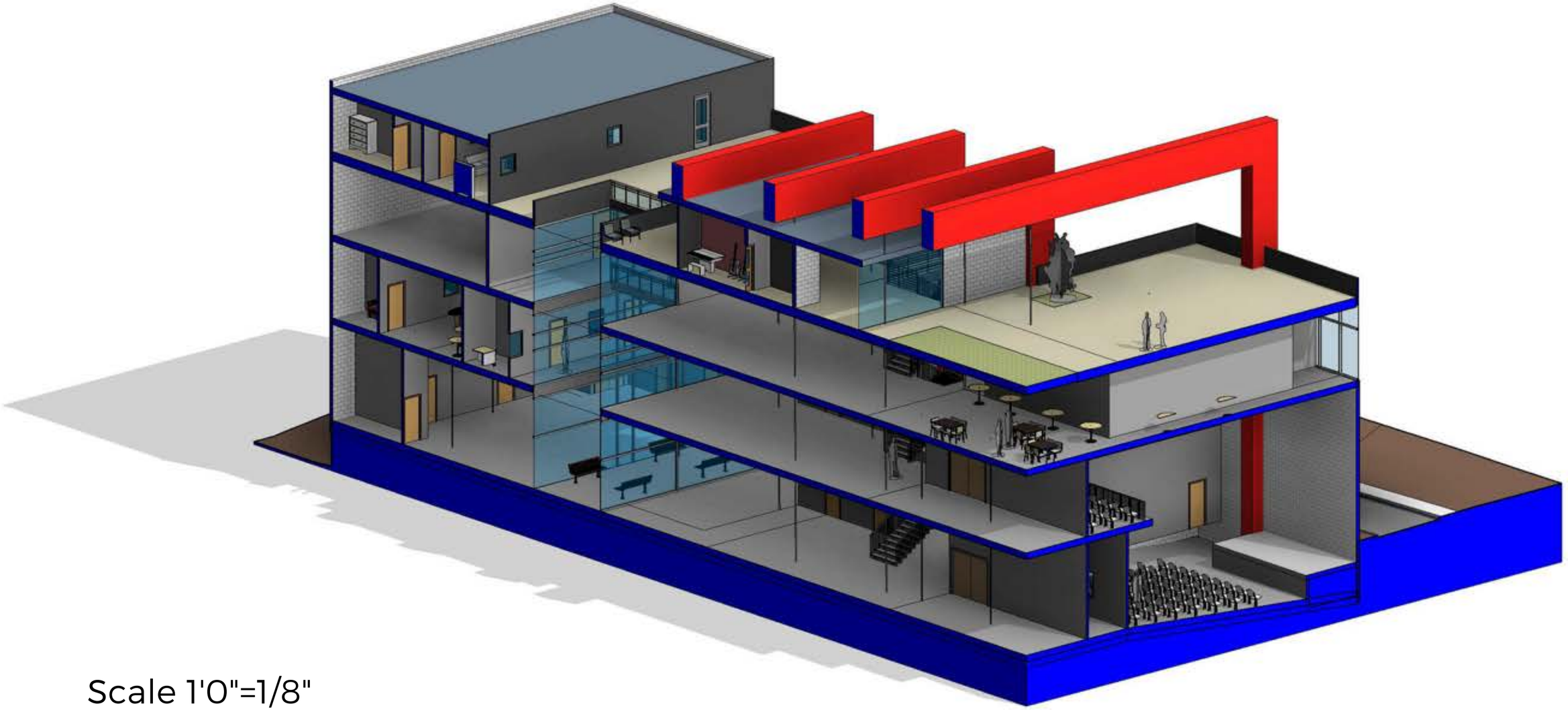


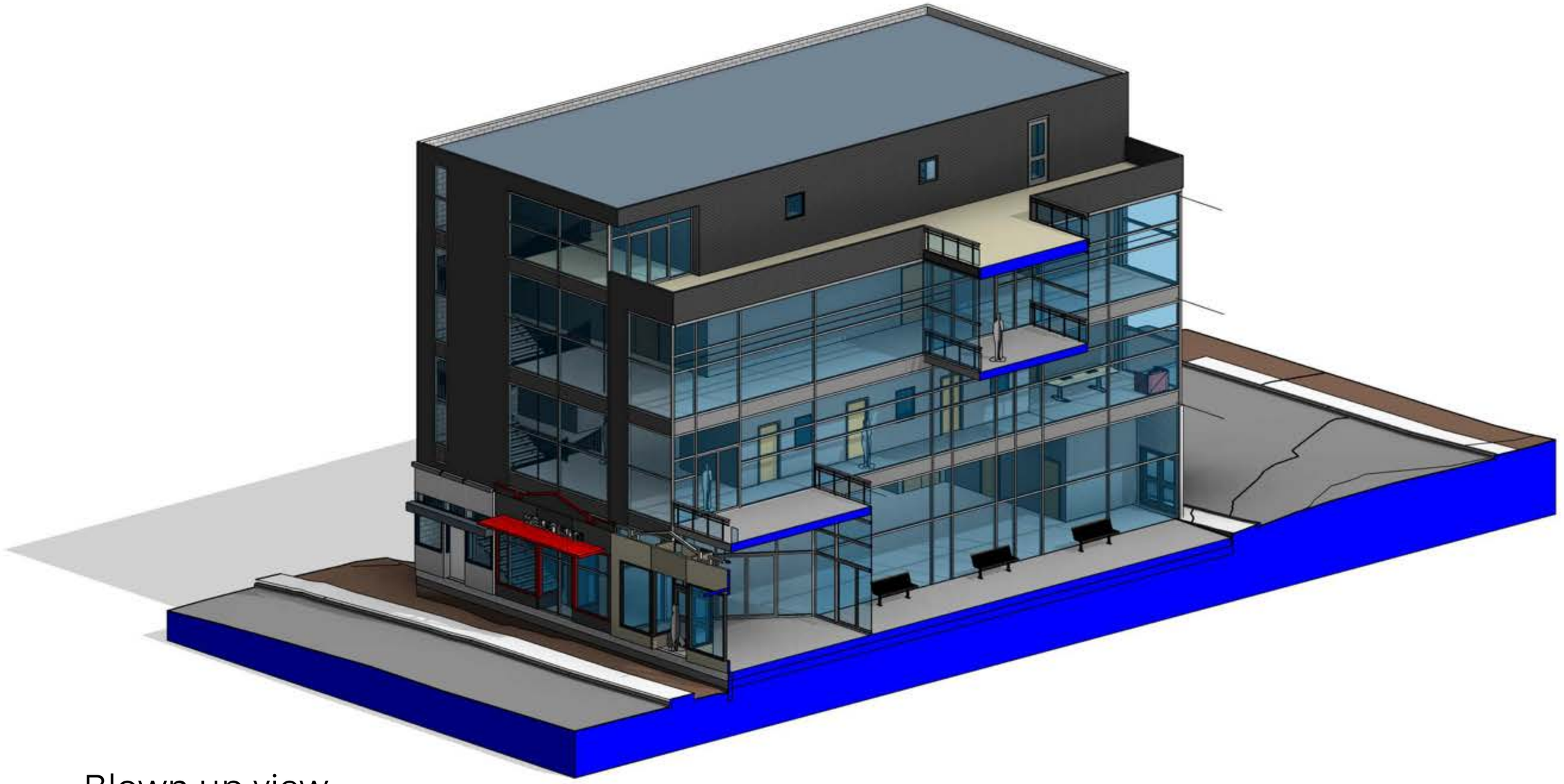
LONGITUDINAL SECTION

Scale: 1'0"=1/8"

3D SECTION

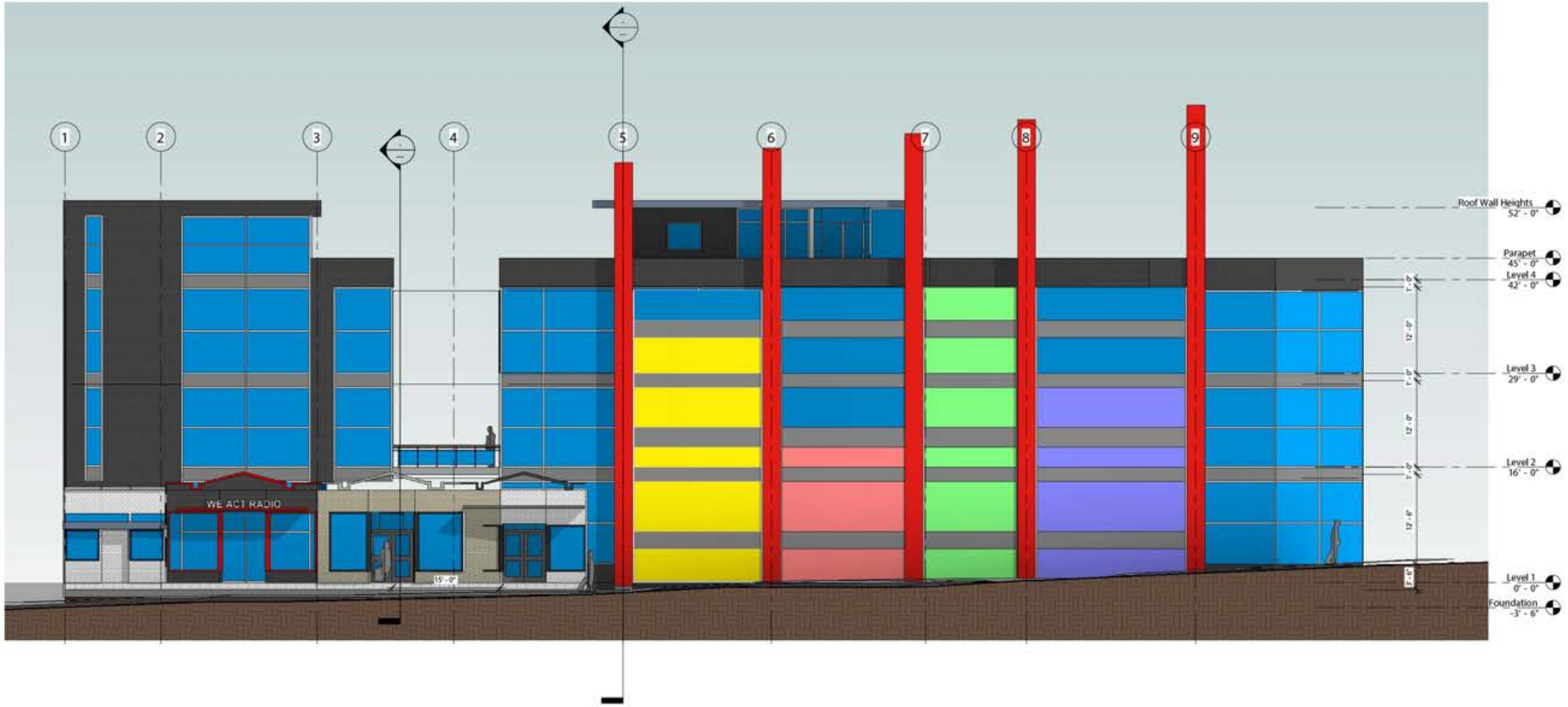


Scale 1'0"=1/8"



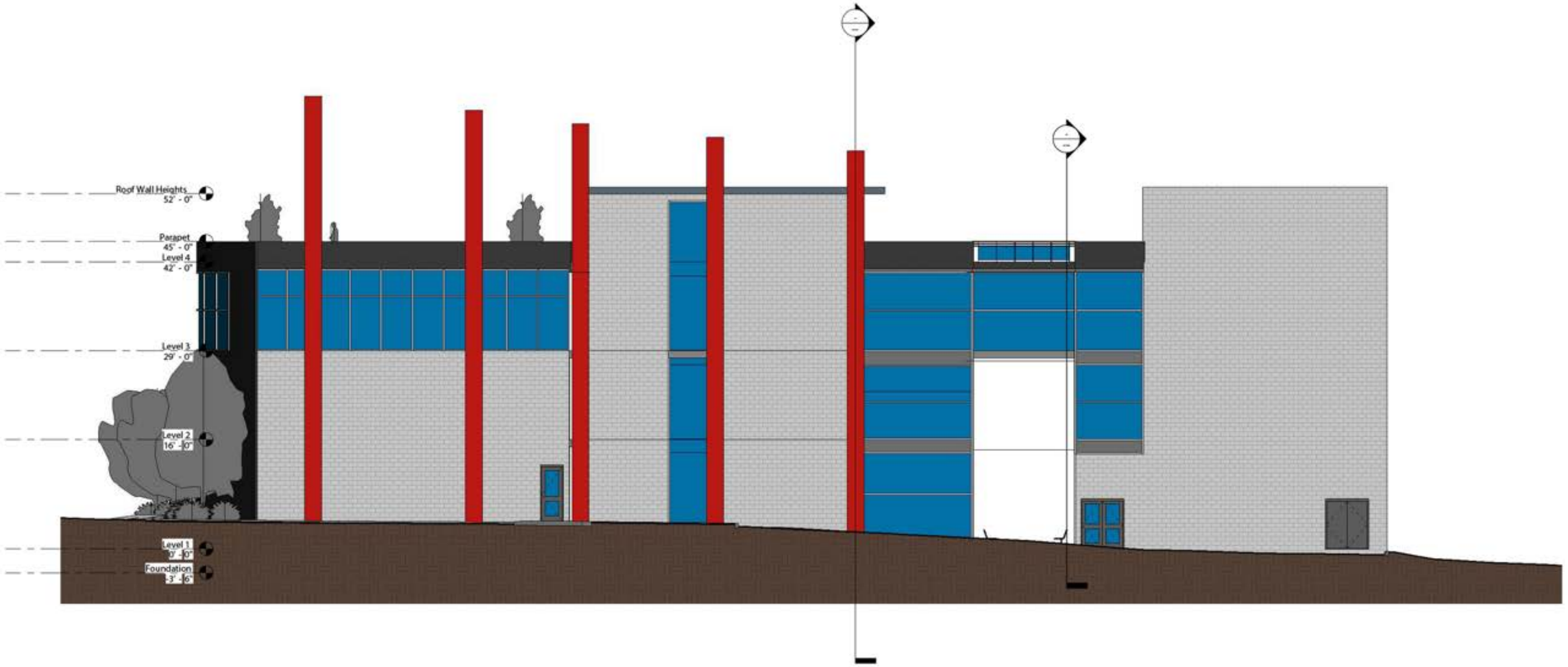
Blown up view

WEST ELEVATION



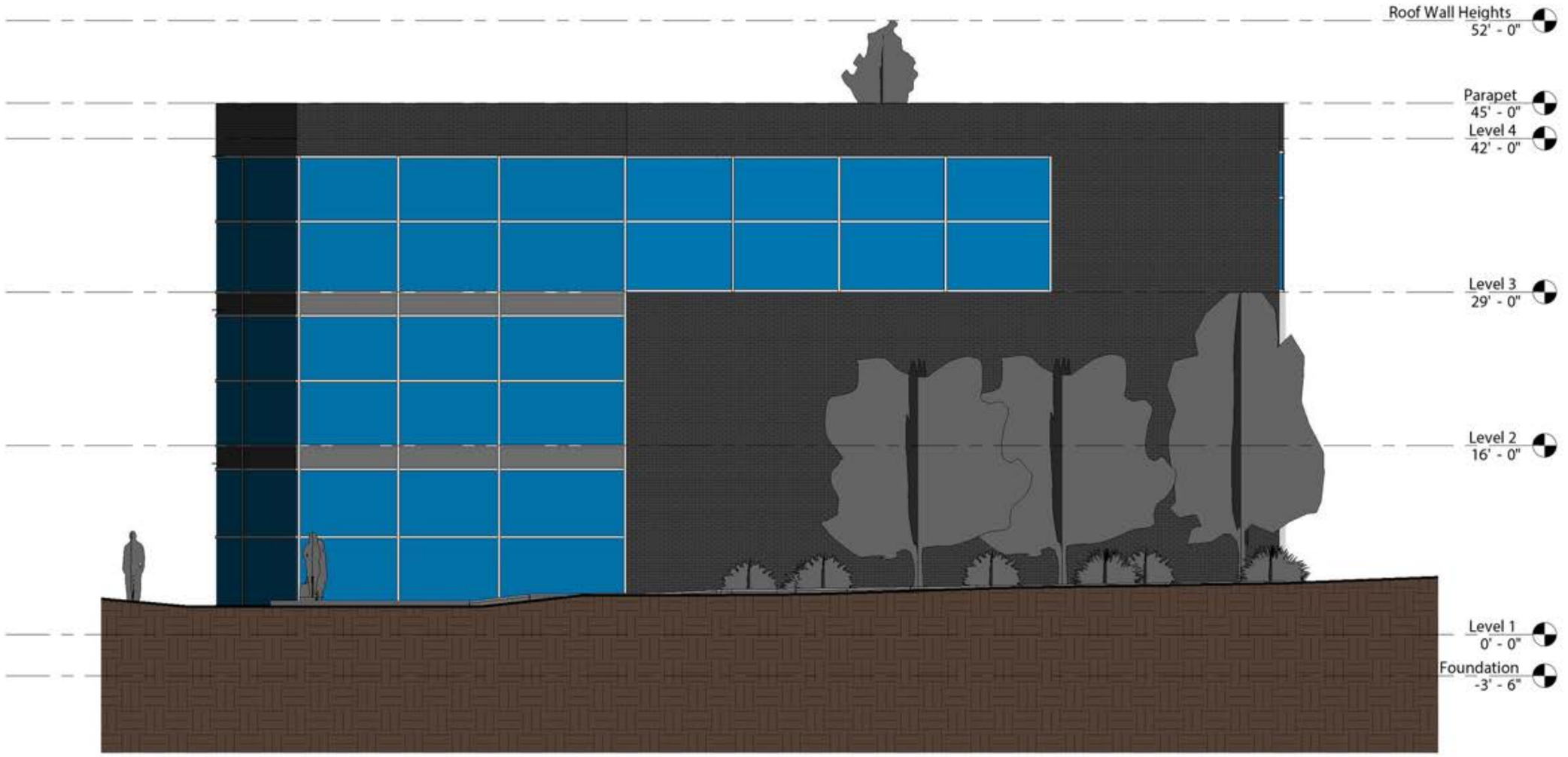
Expression of parti: The concept of soundwaves and the different levels of rhythm can be seen represented on the facade of the building. The historical facades informed aesthetic choices, and serve as the entrway to the museum.

WEST ELEVATION



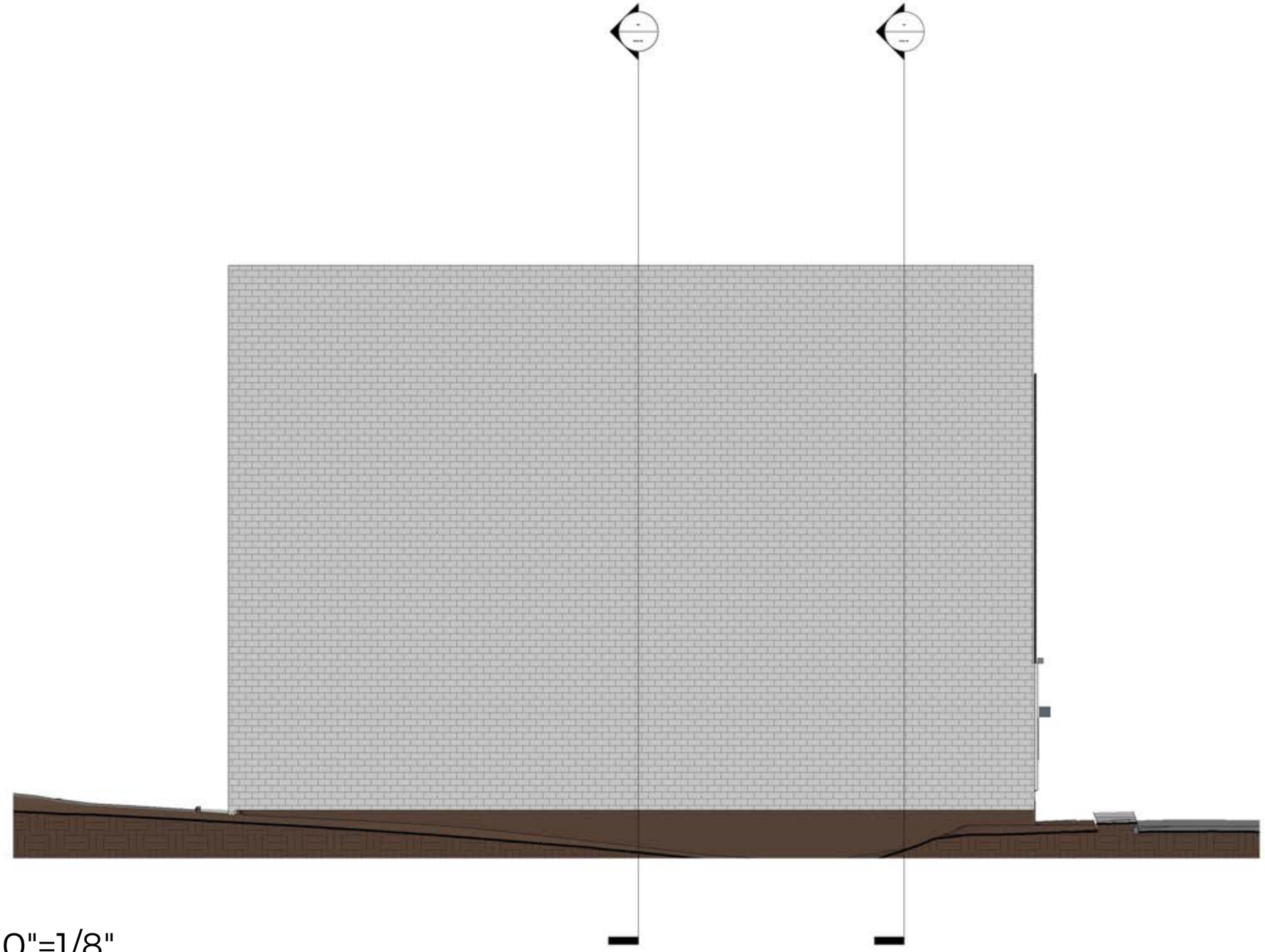
The back of the museum boasts a service road and egress. It also promotes access to the outdoor alleyway, whihc would be managed by the museum employees.

SOUTH ELEVATION

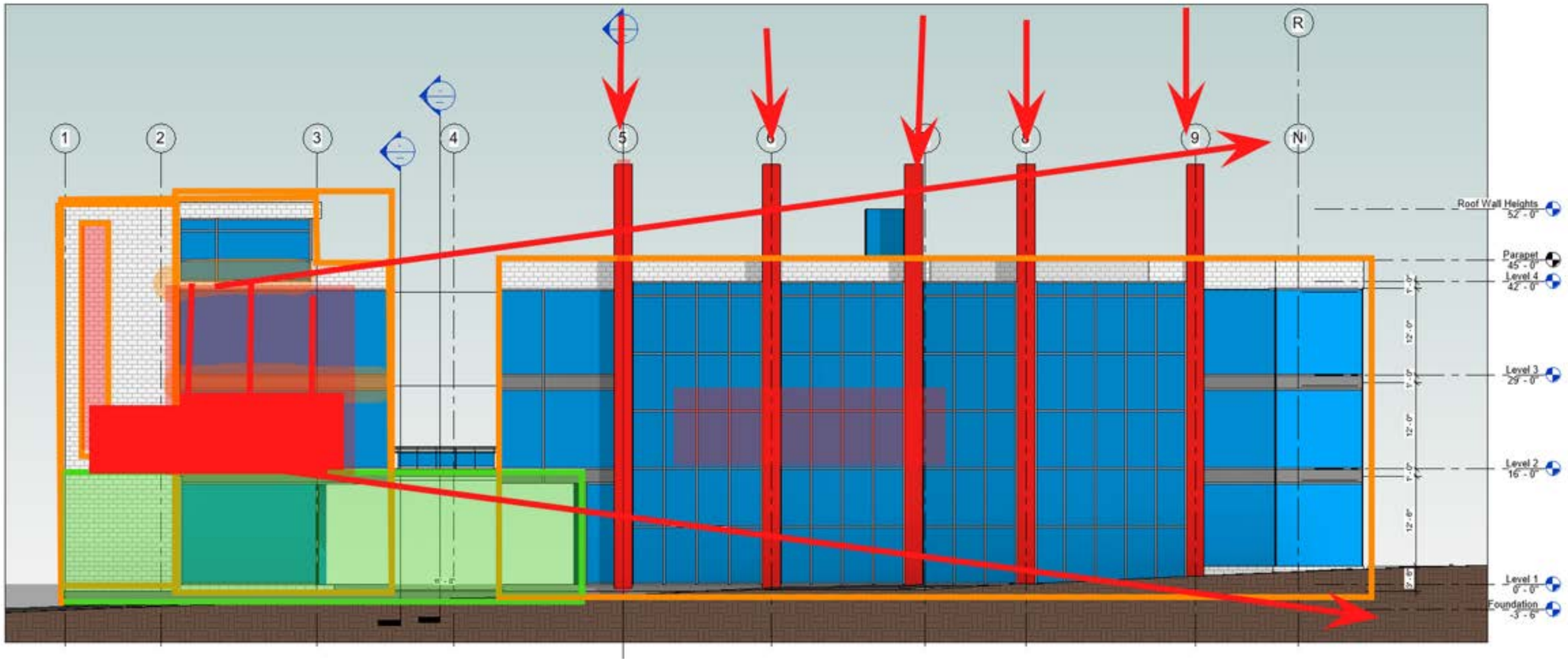


Scale: 1'0"=1/8"

NORTH ELEVATION



Scale: 1'0"=1/8"



This diagram helps illustrate the governing concepts that inform the building's final design:

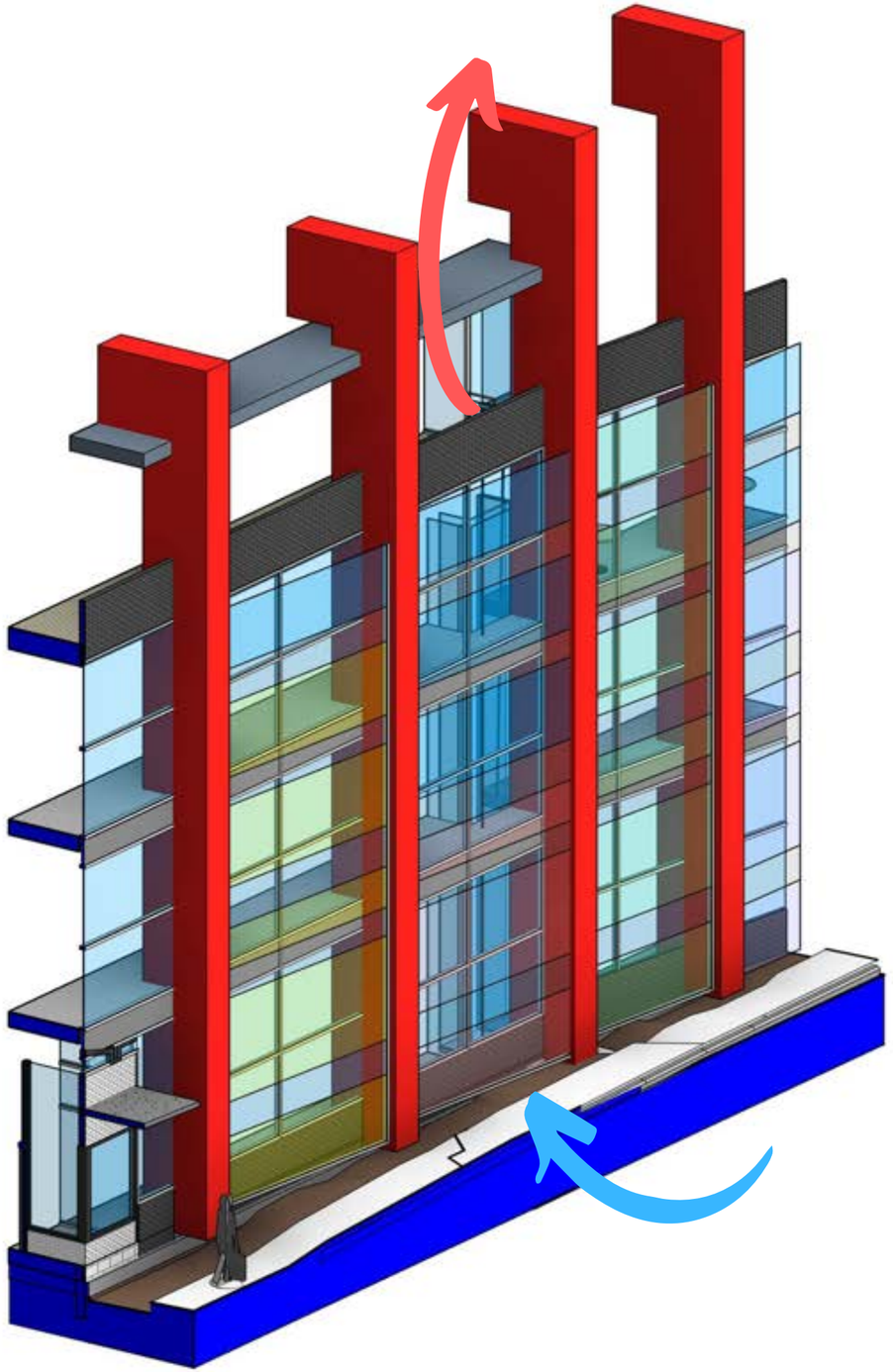
The load is transferred from the top of the soundwaves down. The floors within the southern body (right), are suspended from tension rods that connect to the "soundwaves above. This design allows for an open floorplan through the southern wing. The northern wing represents that source of a sound, and is constructued of usual steel frame and concrete slab. The concept of sound eminating from a source remains, as the columns grow progressively in height,

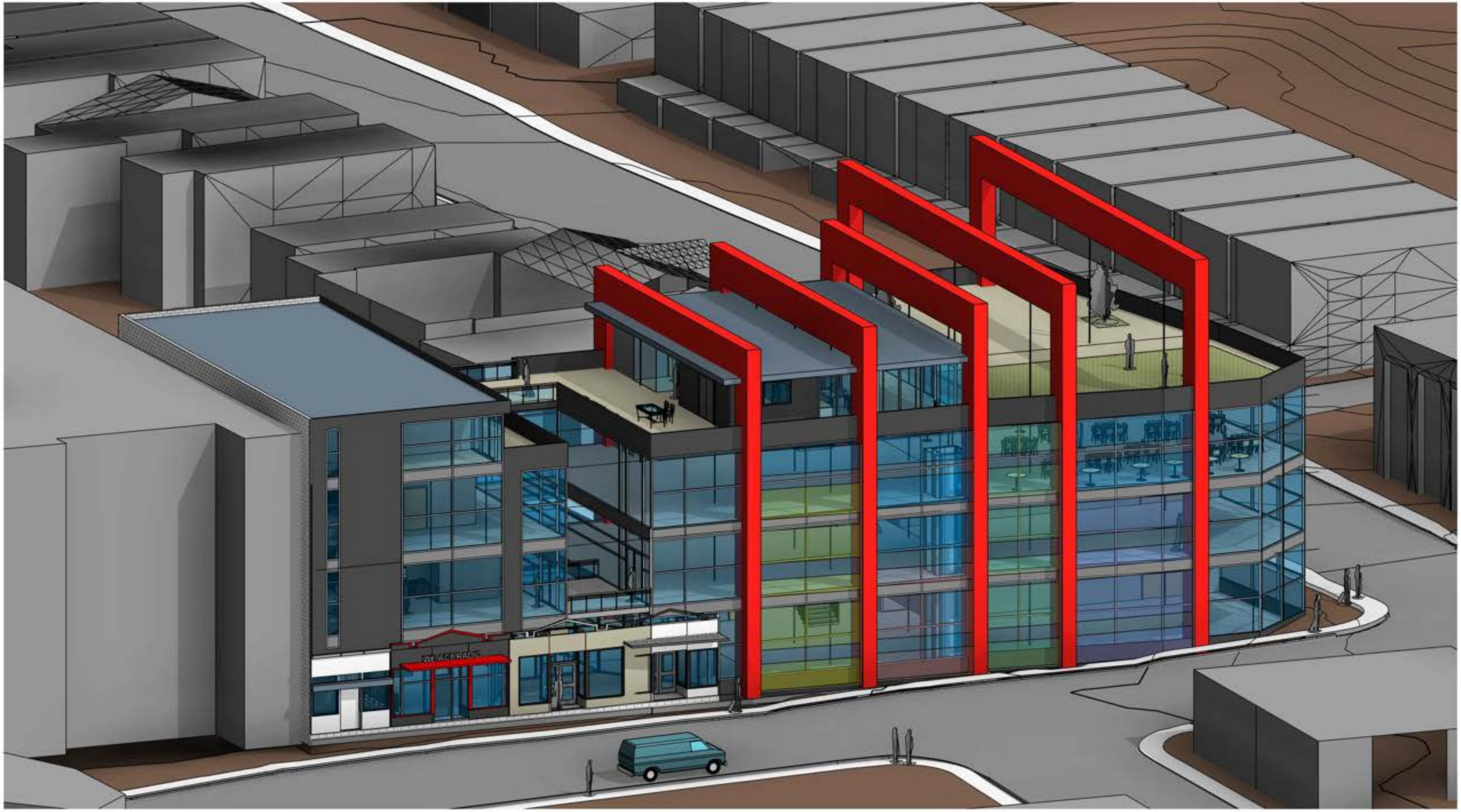
DETAIL MOMENT

Scale: 1'0"=1/8"

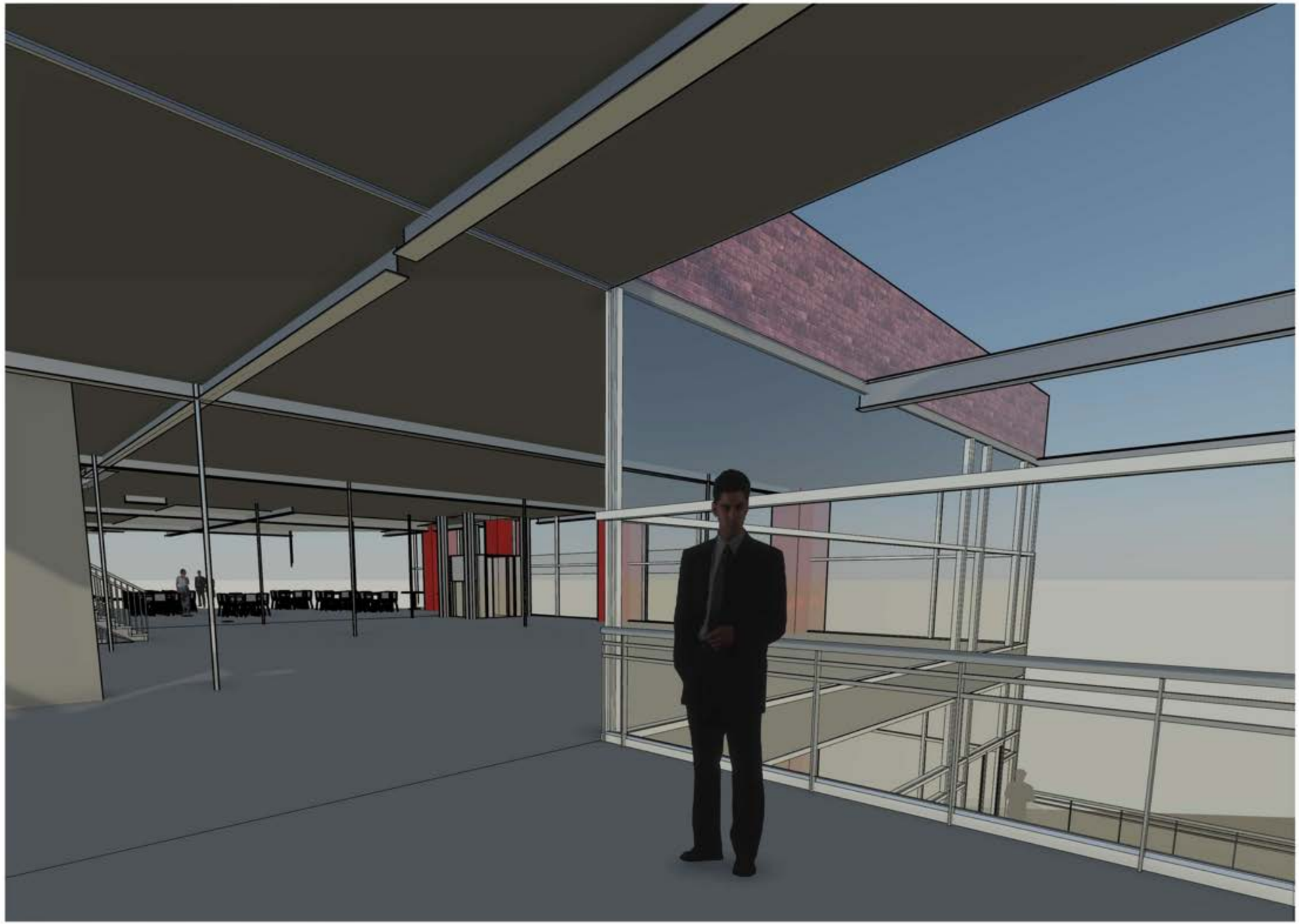
The Sound Museum's facade serves not only to create welcoming environment inspired by Go-go music, but its double skin design also acts as a thermal chimney.

Heat will be momentarily trapped between the first and second layer of glass, and as fresh air flows through the bottom, the building will be able to cool. use of a double skin could positively affect the sustainability of the museum's HVAC system, and potentially introduce the developers to other sustainable options during the building's lifetime.





Model in Context



MOMENTS

A LOOK INSIDE
THE BRIDGE

MOMENTS

CAFETERIA

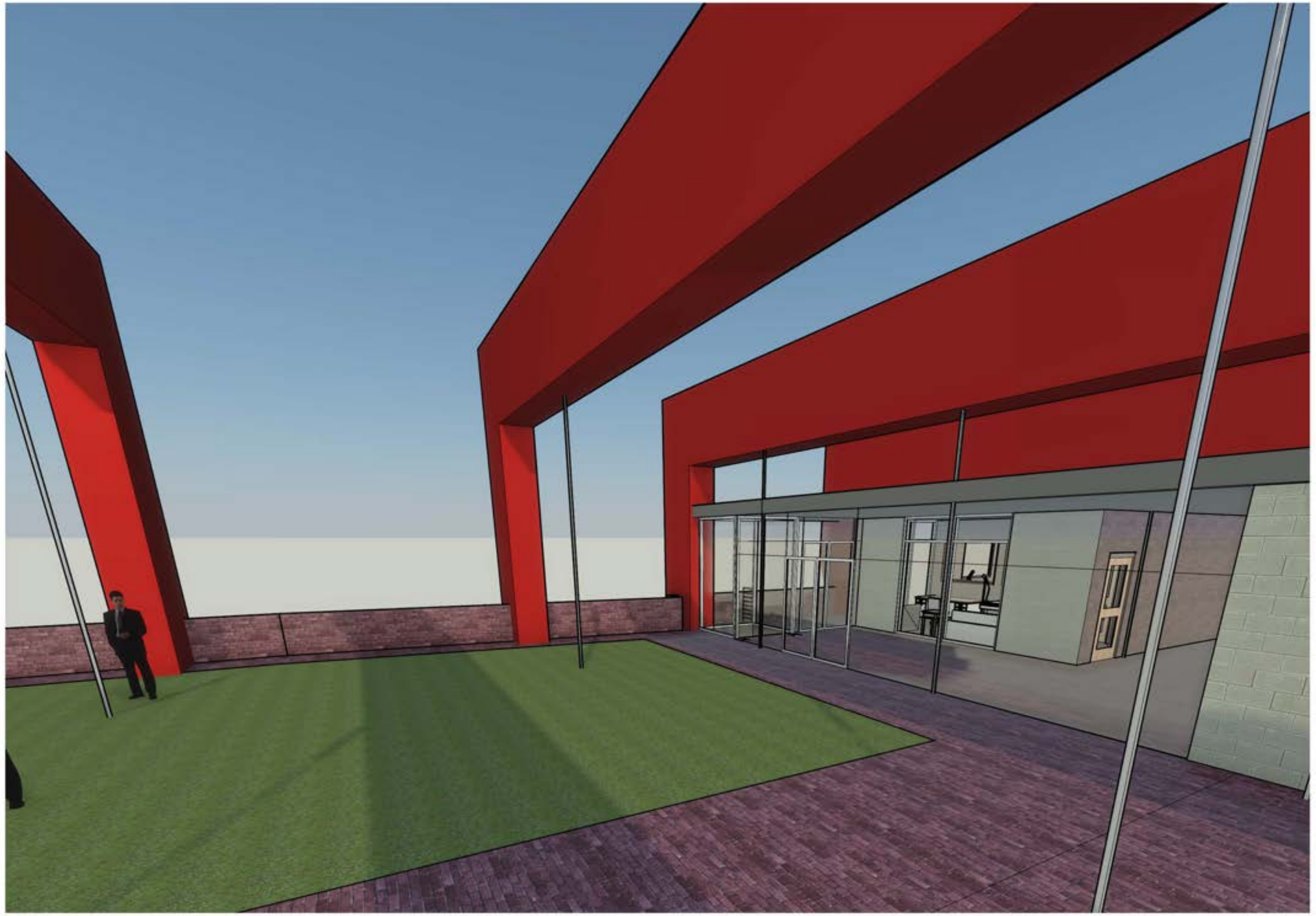
MOMENTS

ROOFTOP VESTIBULE AND LOBBY

MOMENTS

HISTORIC ENTRY

(RAW MATERIAL VARIANT)



MOMENTS

ROOF DECK AND GREEN AREA

Thank you