

**Health Sciences  
Education Building  
University of Washington**

**LEWIS / MILLER HULL / SLAM / GGN**

**UWAC & ULAC MEETING**

October 28<sup>th</sup> 2019

# Project Goals

- Create a hub for the Health Science education and training that **fosters interaction, collaboration, and creativity** for students and the health professional community.
- Build a centrally located Health Sciences Education Building utilizing the unique adjacencies of research, academic, and clinical programs to train future health professionals in support of **affordable, accessible, and high quality 21st Century health care.**
- Create a Health Sciences Education Building with **flexible spaces, modern technologies, and a broad array of environments that adapt to the changing pedagogical needs** of the Health Sciences and enable active and team-based learning.
- Maintain the outstanding performance of UW's Health Science schools by **attracting and retaining the best** health and health care professionals to serve the State of Washington.
- Design the building to enable the Health Sciences campus to support the goals of the **2018 Campus Master Plan.**

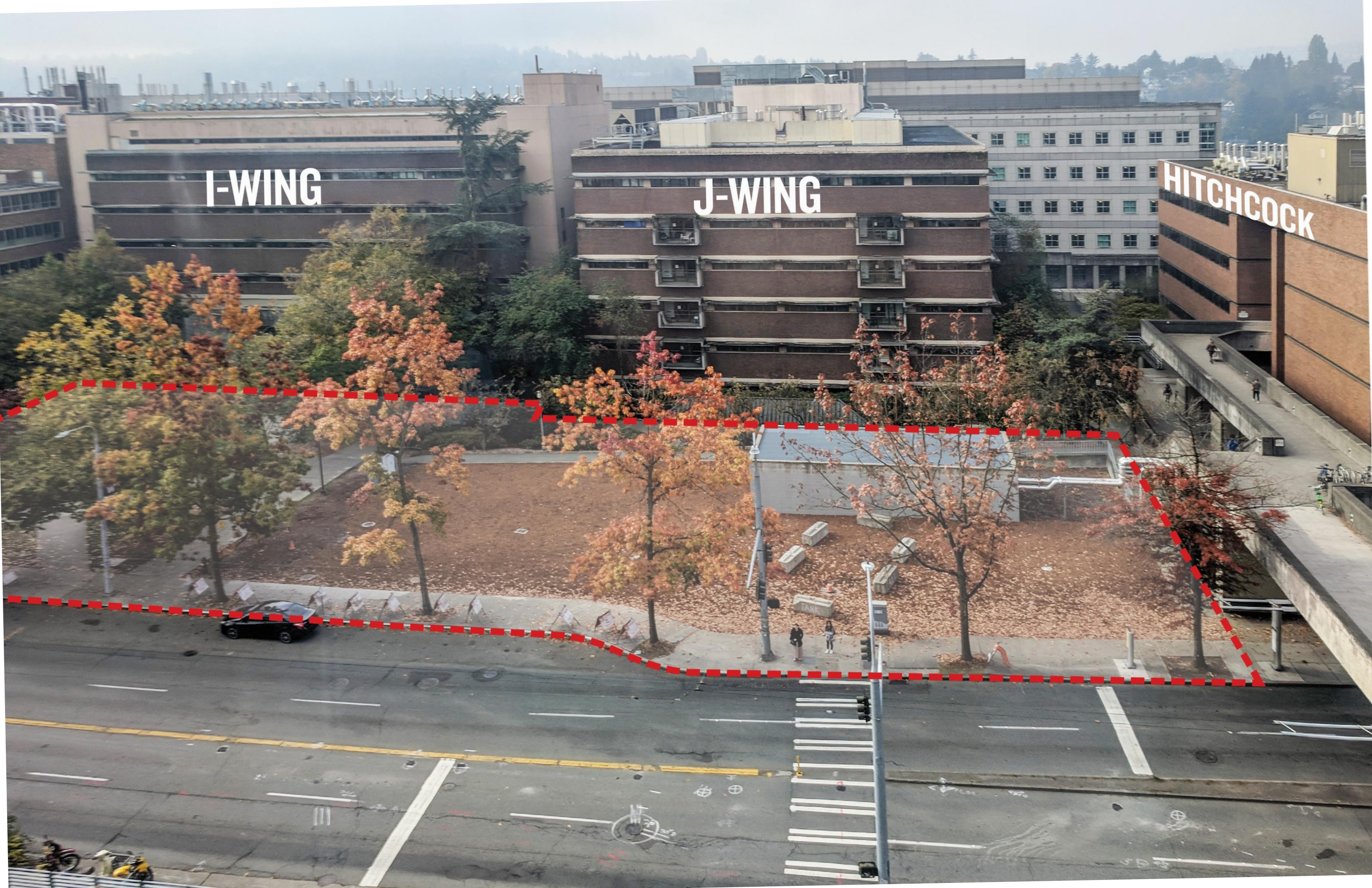
# Campus Context



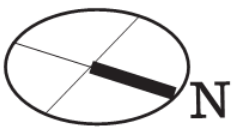
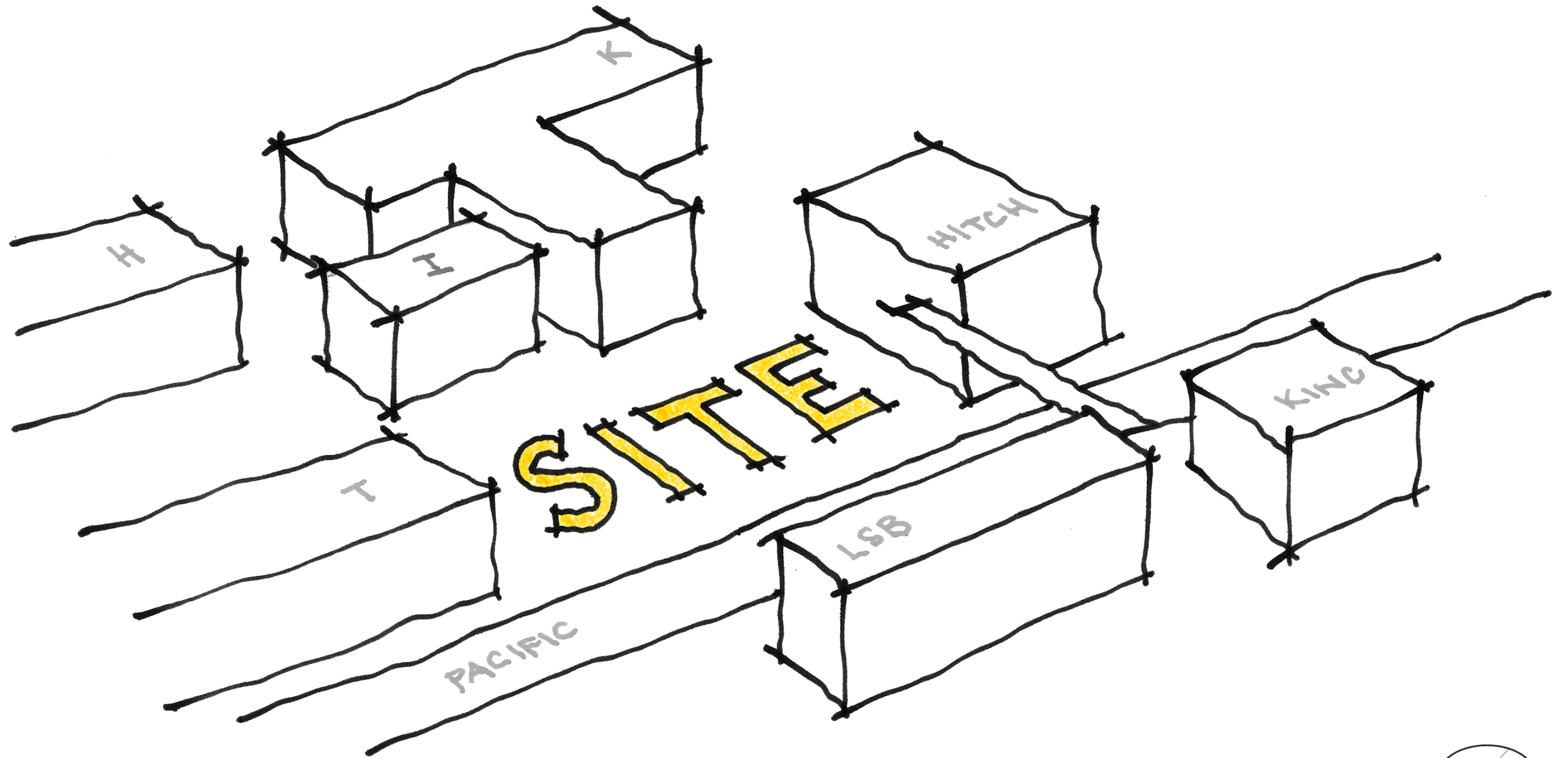
I-WING

J-WING

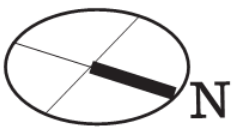
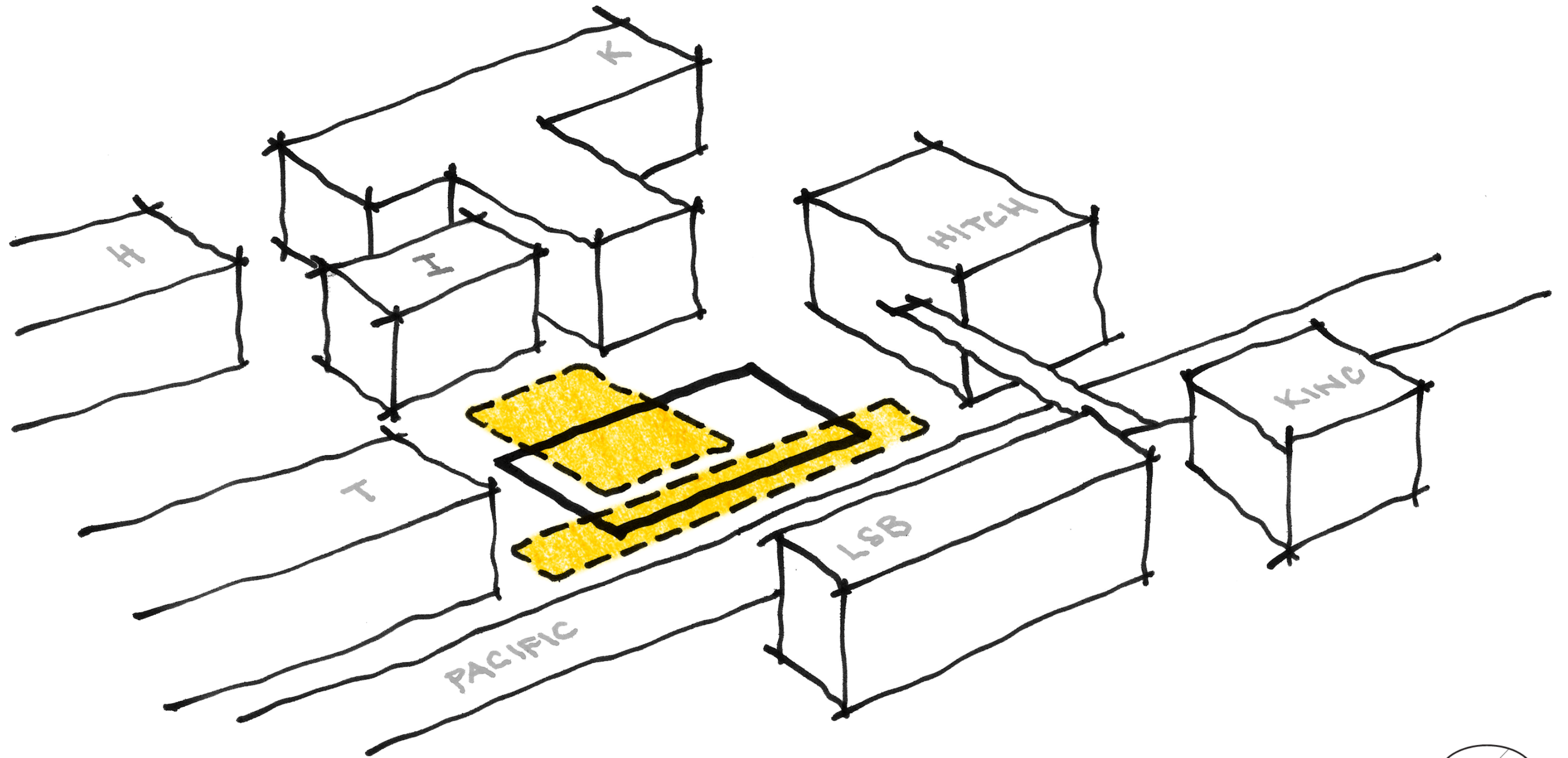
HITCHCOCK



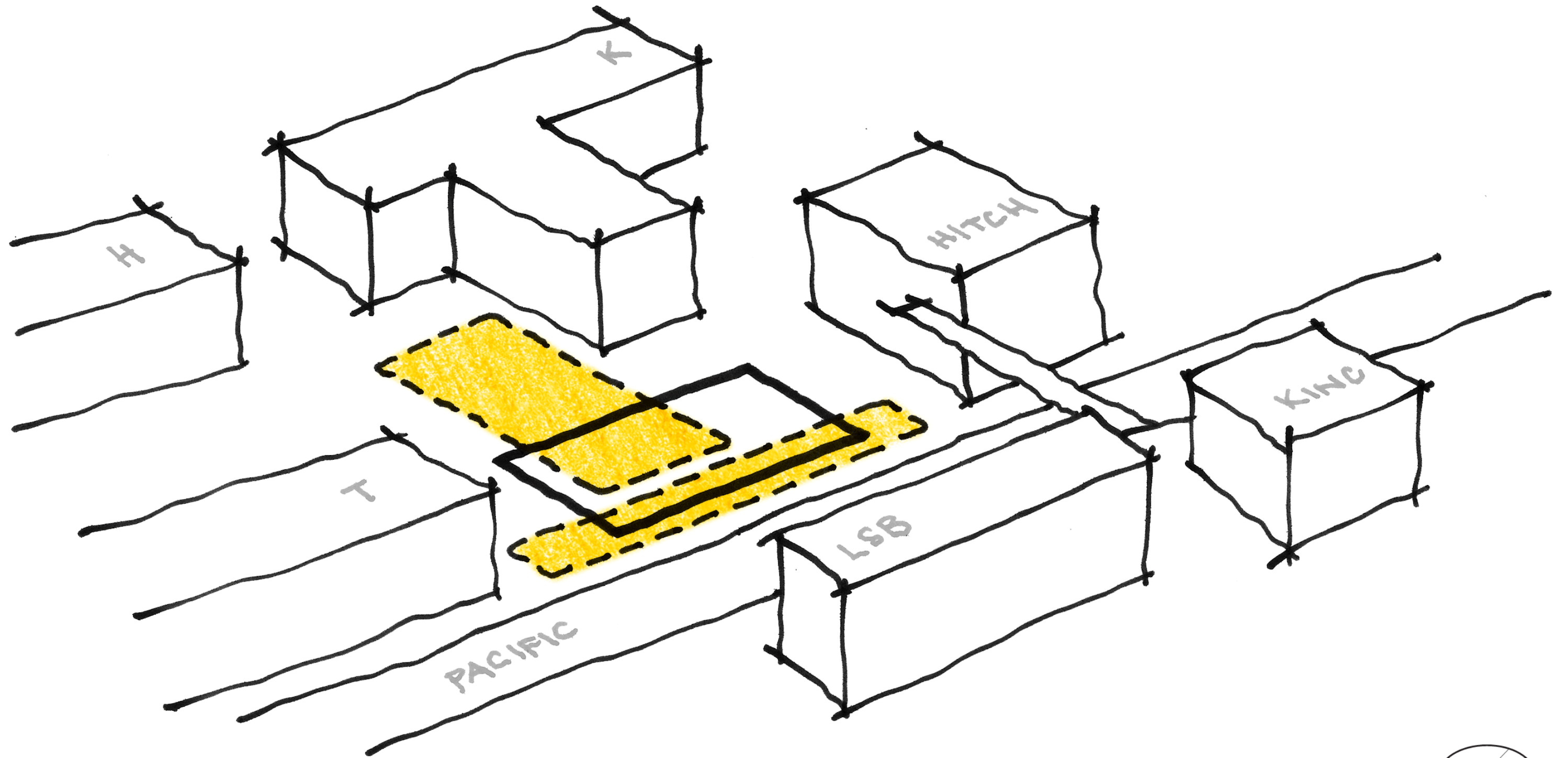
# Existing Site



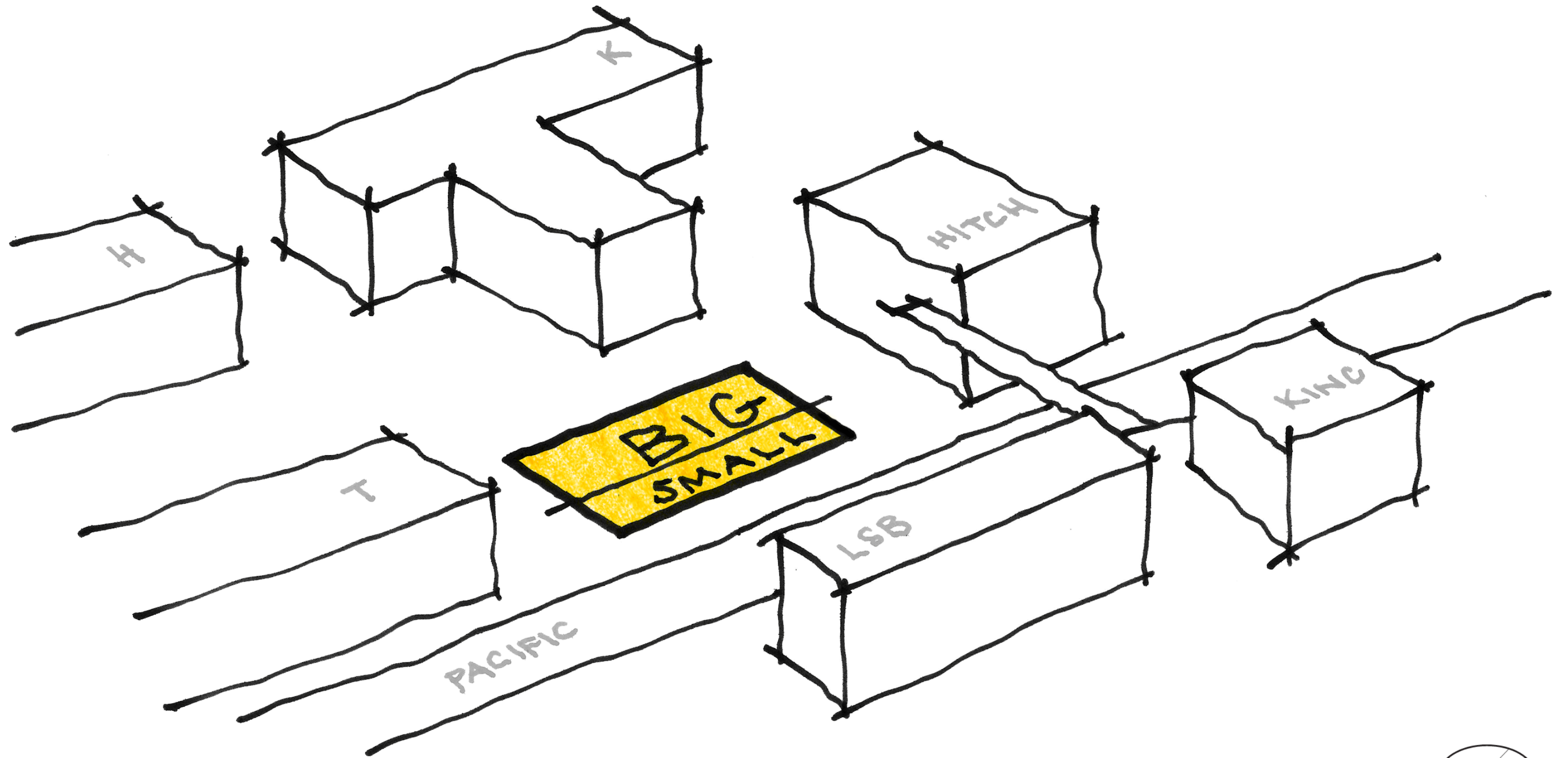
# Indoor - Outdoor Rooms



# Indoor - Outdoor Rooms

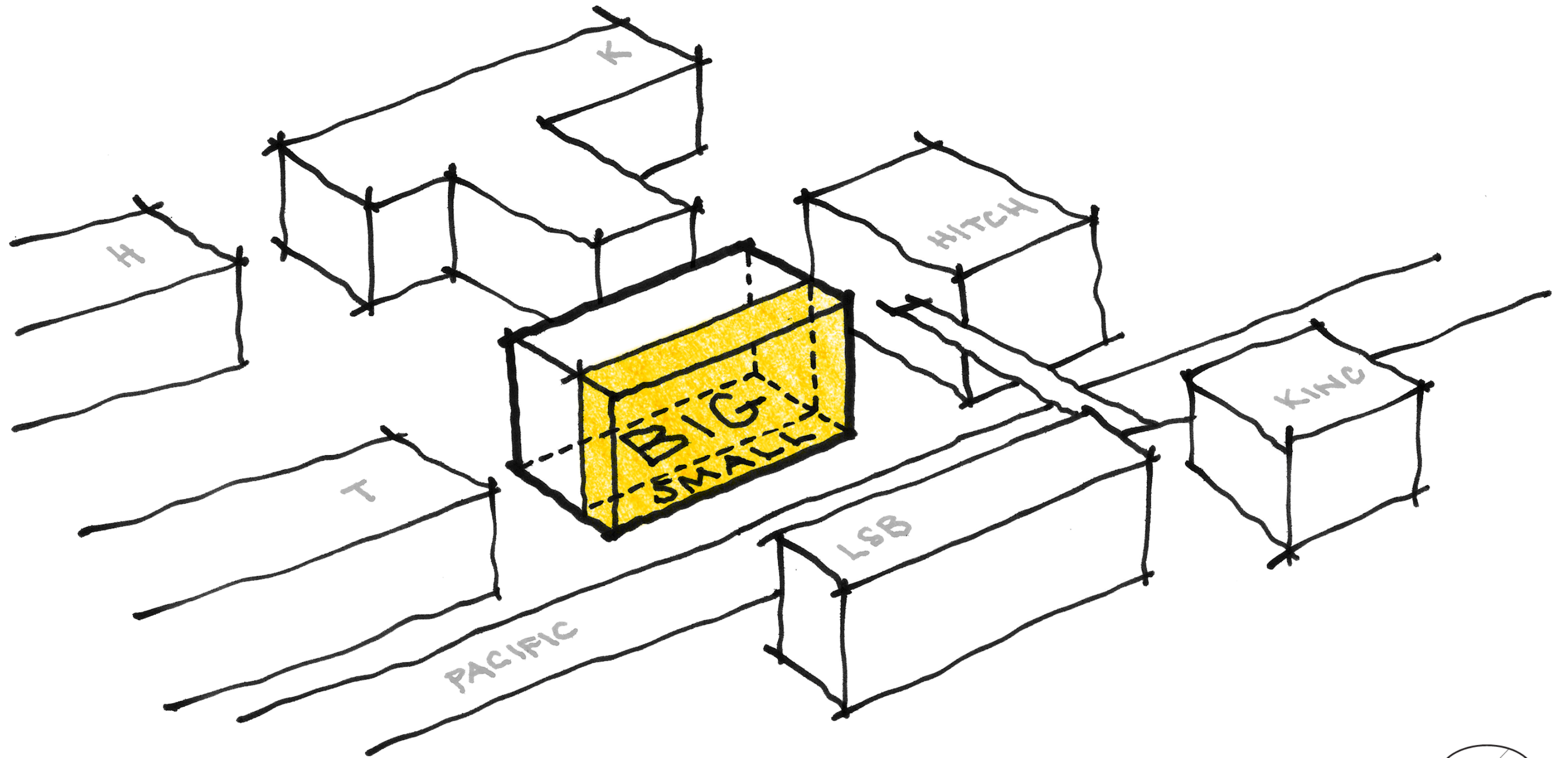


# Program Relationships

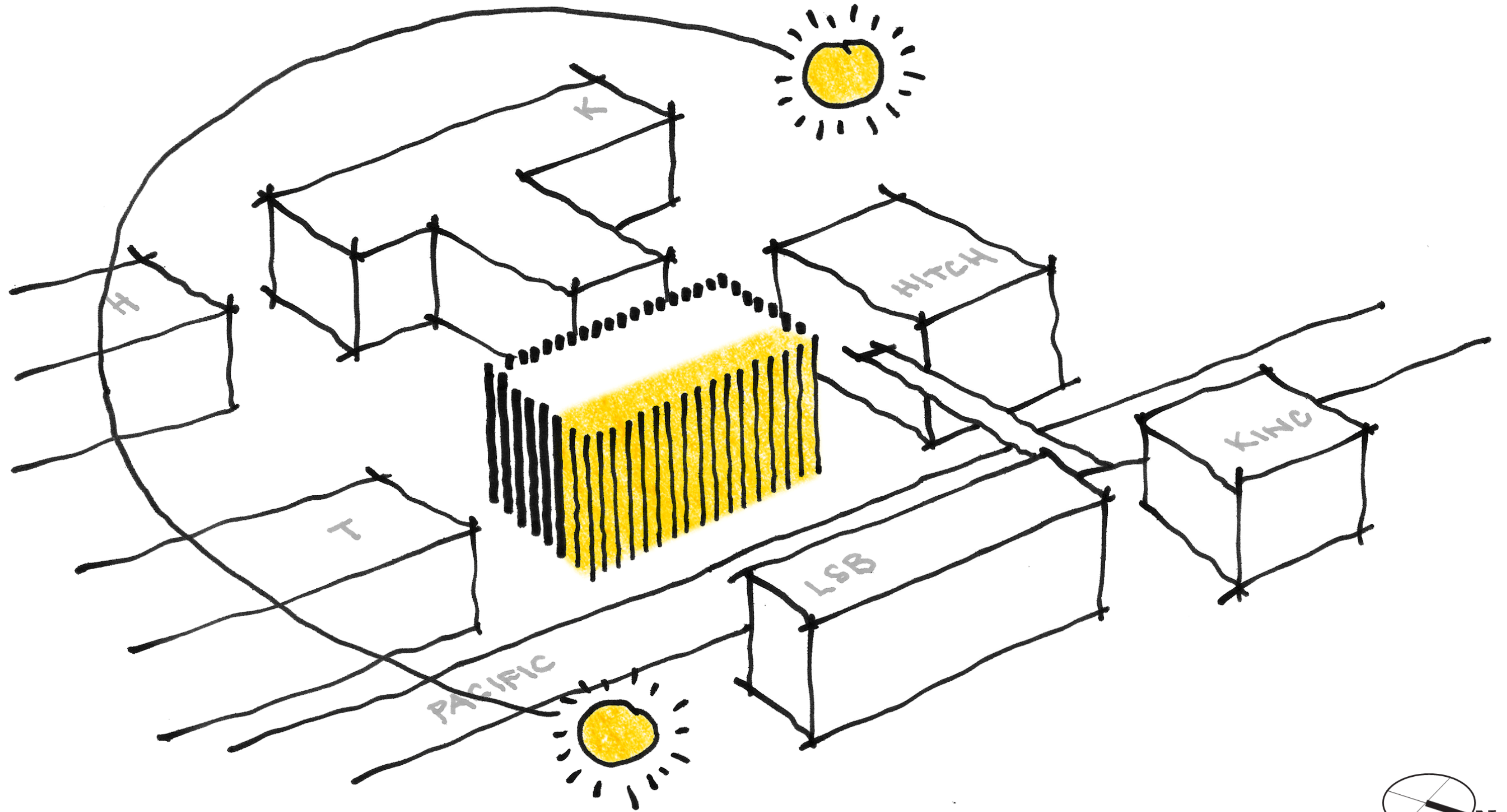




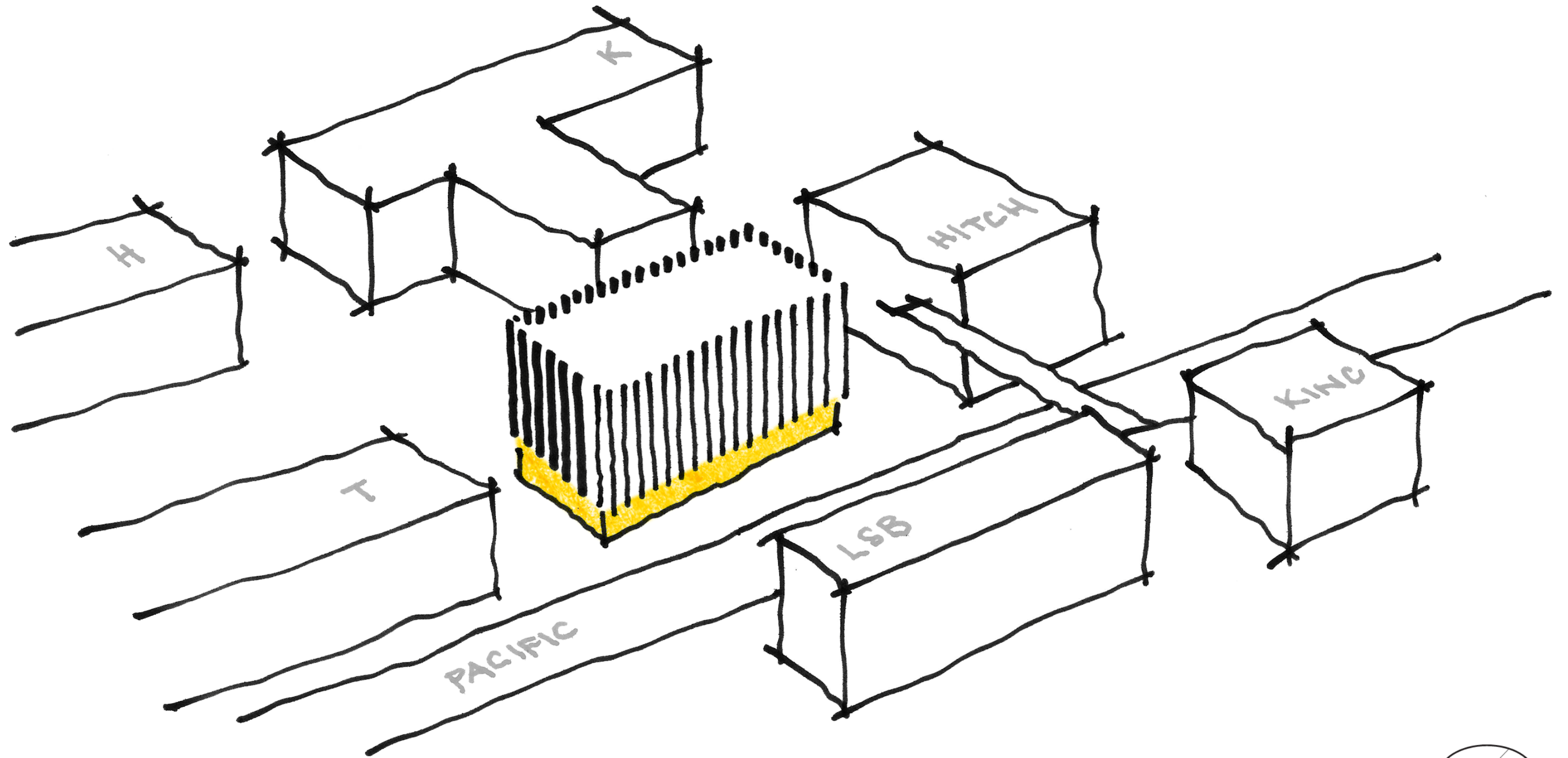
# Active Edge



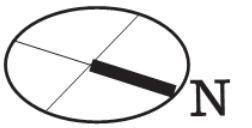
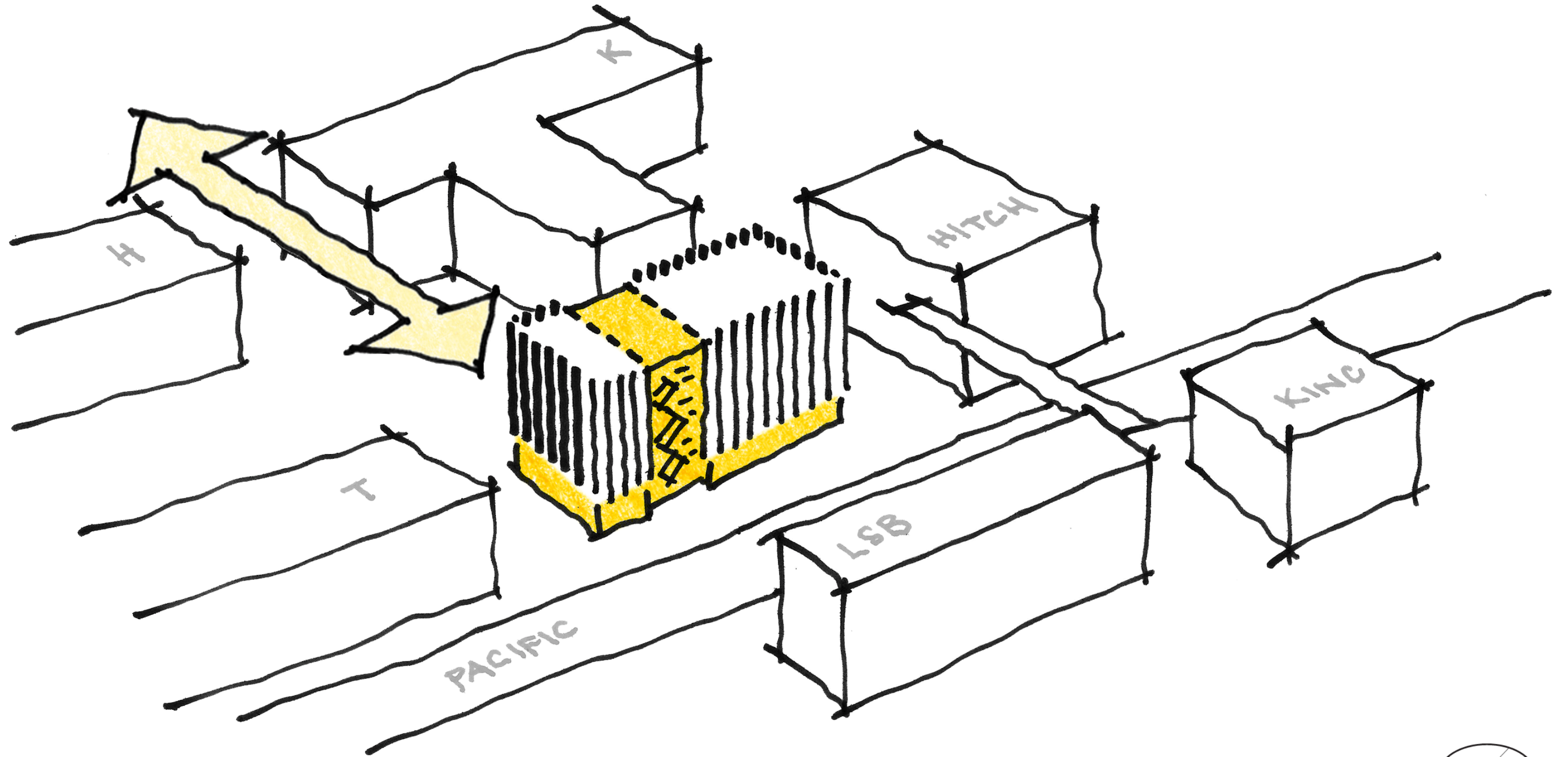
# Site + Program Response



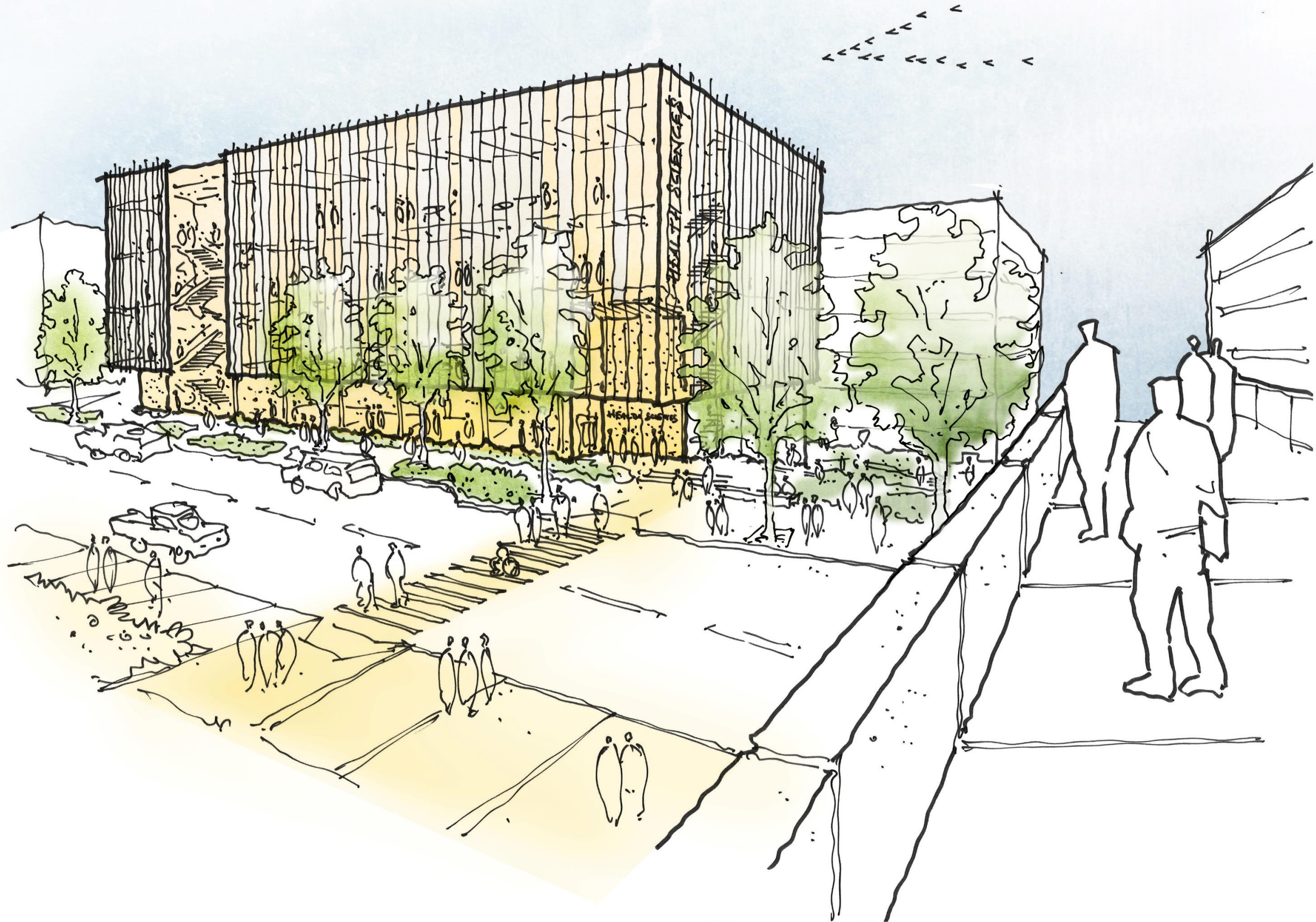
# Porous Podium

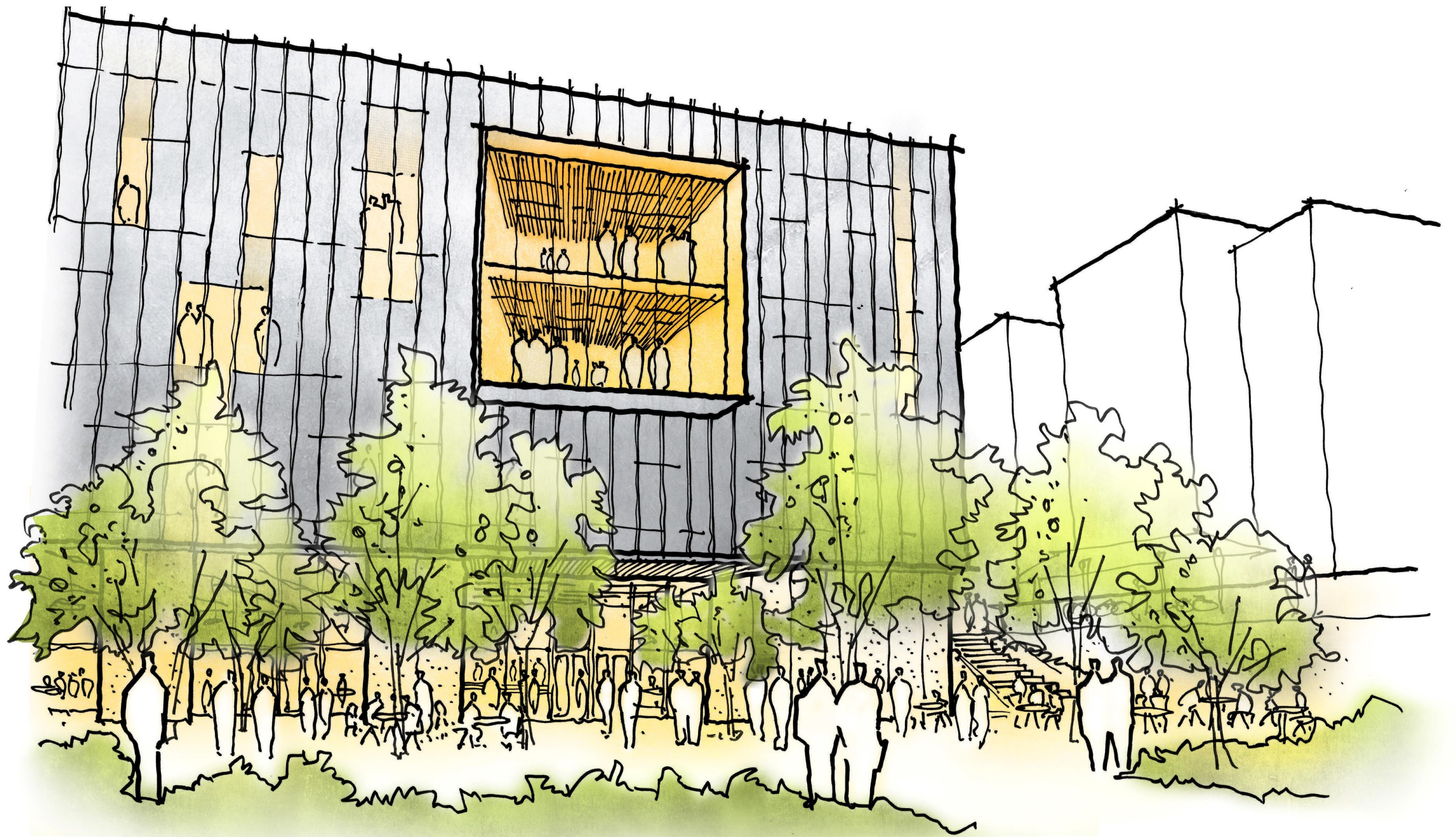


# Student Heart



# Simple form





the culture of care [“ahhhhhh...” ]

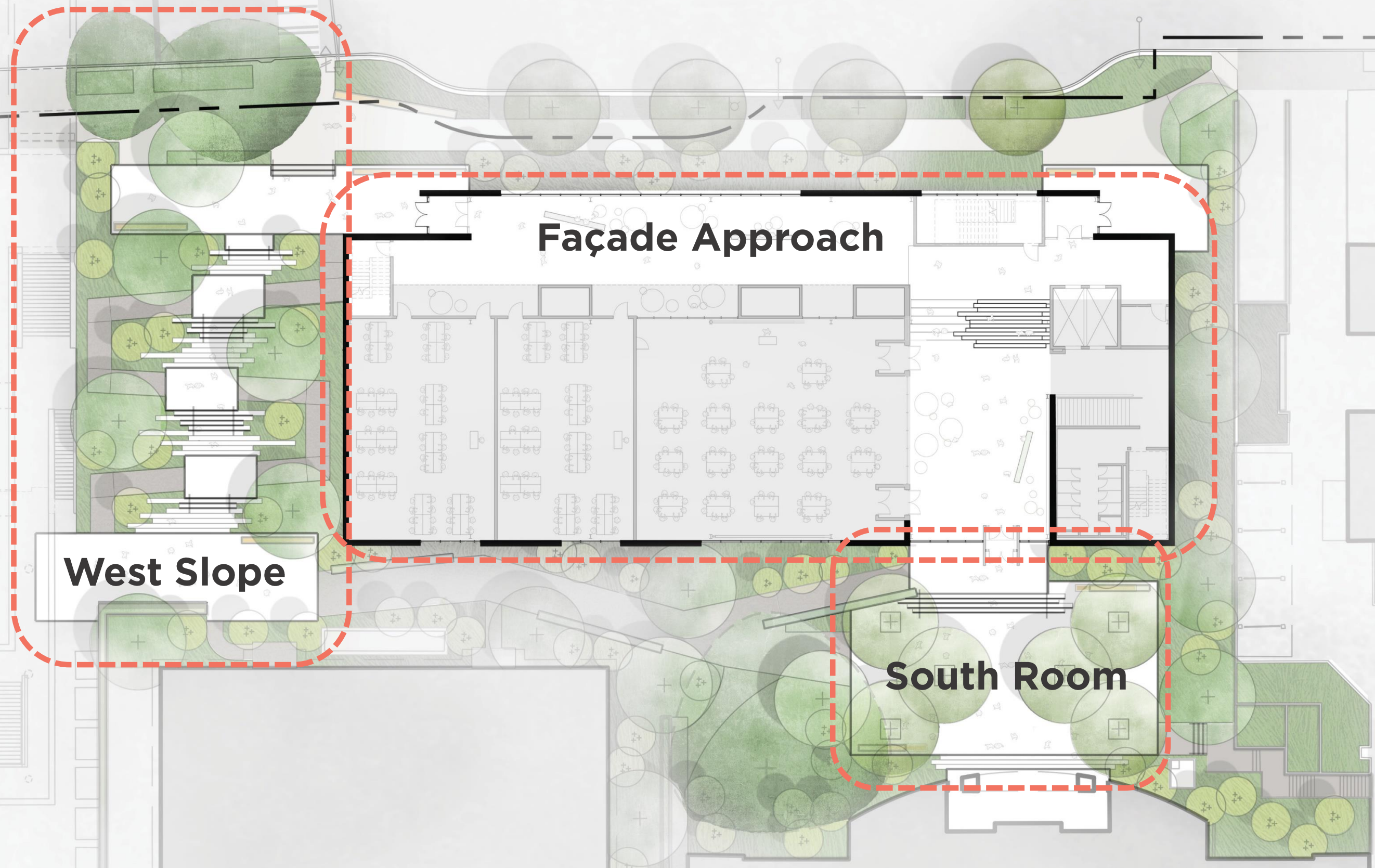


# What we heard

- **Big idea is clear and strong: simple form, experientially rich**
- **Envelope design should reflect a cohesive strategy to unify solar orientation criteria**
- **How/why is CLT being used?**
- **How is access to the outdoors provided?**
- **How will bikes be accommodated?**
- **How do we create both a campus connector + entrance to south campus?**



# Today's topics



**West Slope**

**Façade Approach**

**South Room**



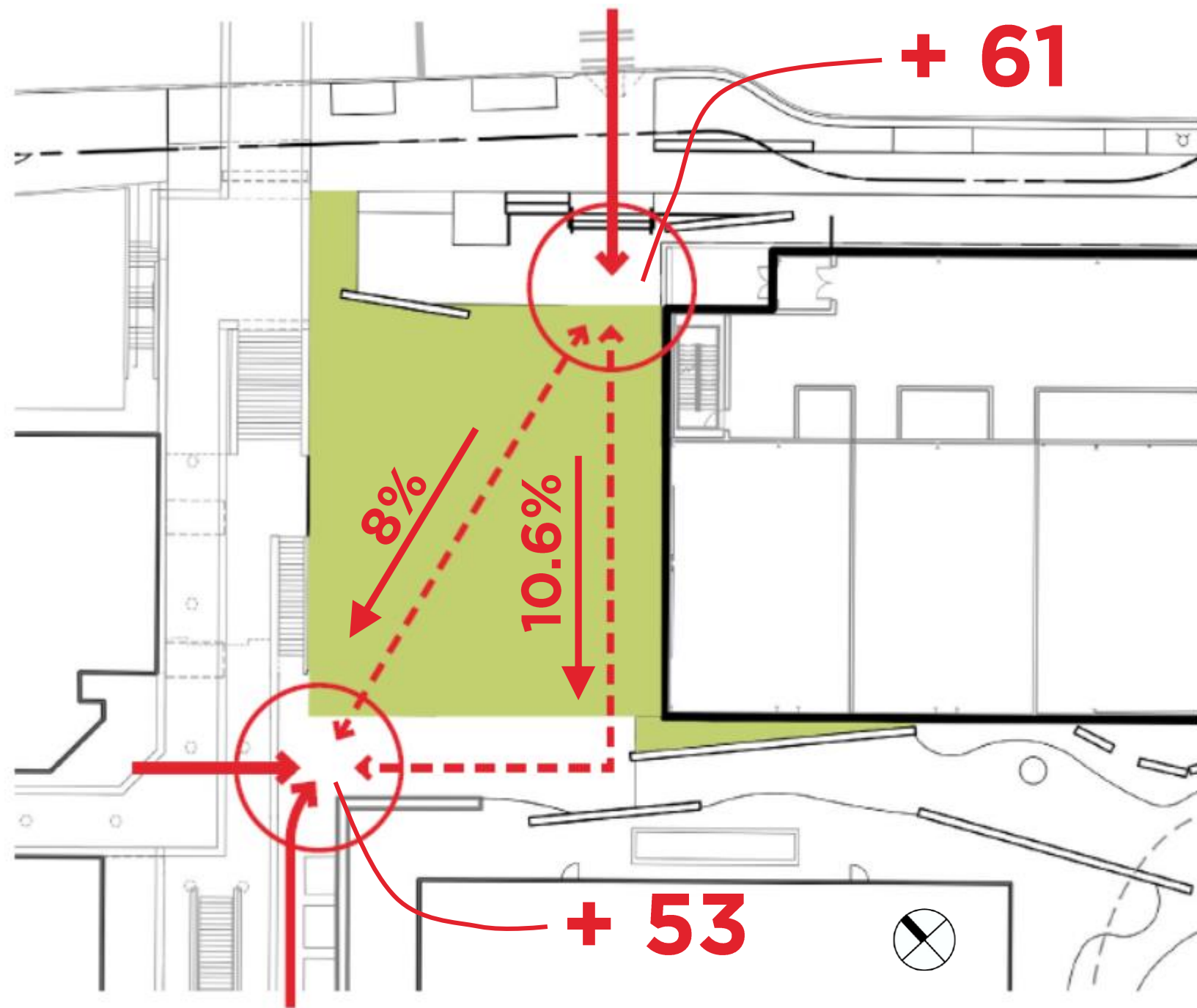
**Current EXPLORATION  
[West Slope + South Room]**

## West Slope design criteria

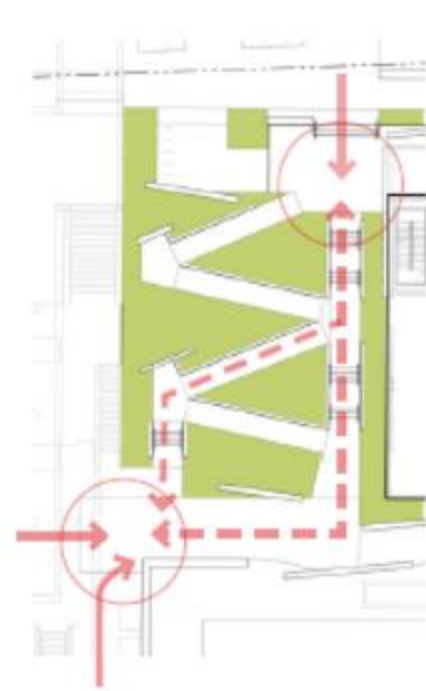
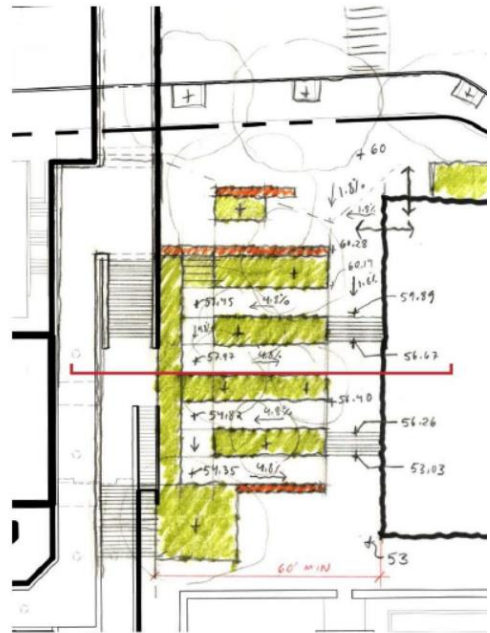
- Create welcoming entry to South Campus
- Connect with main campus across Pacific
- Provide a gracious, accessible route
- Set precedent and logic for South Campus landscape language

**\*express the culture of care**

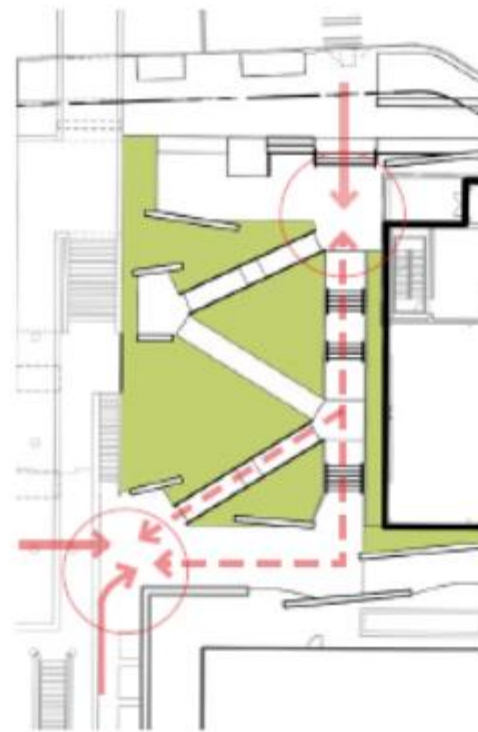
# Constraints & Framework



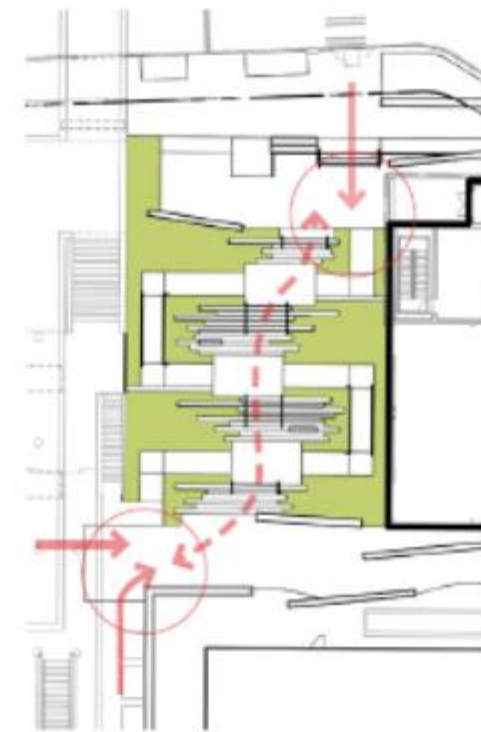
# Design Studies



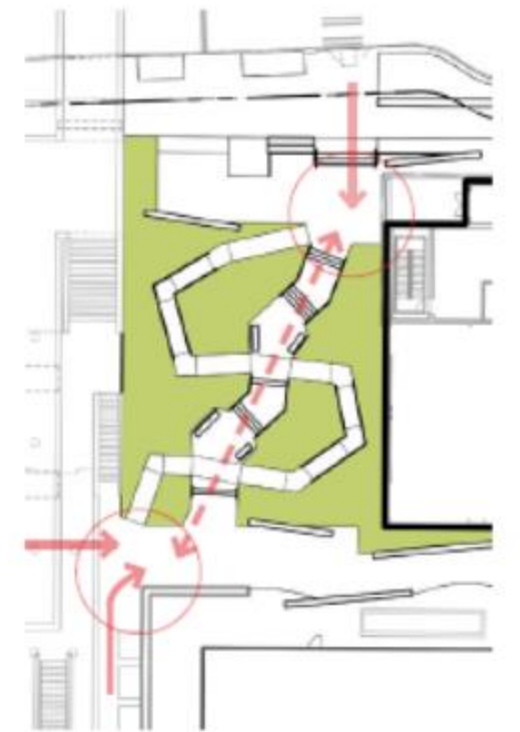
10% Concept



Option 1  
**Three  
Switchbacks**

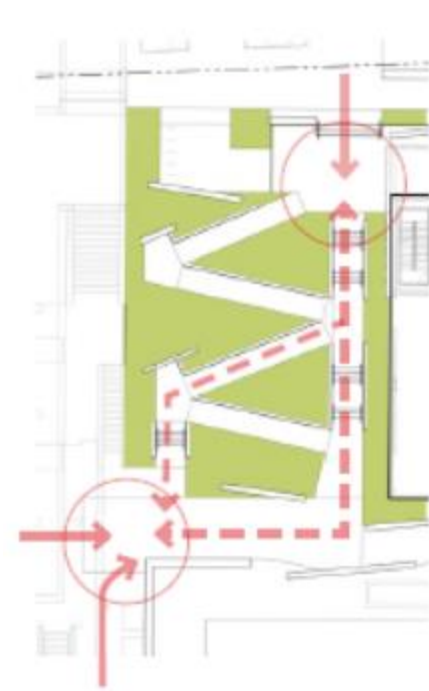
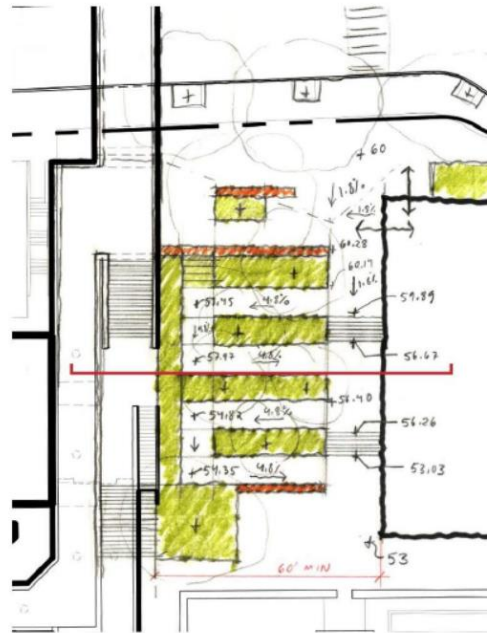


Option 2  
**Science as  
a Gateway**

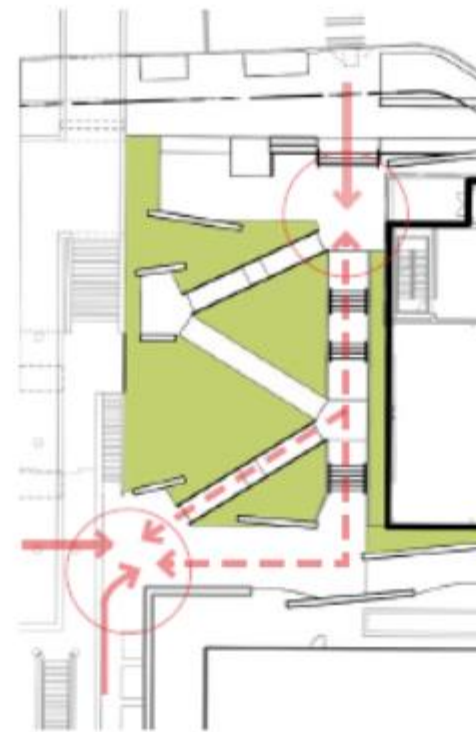


Option 3  
**Cascading Walk**

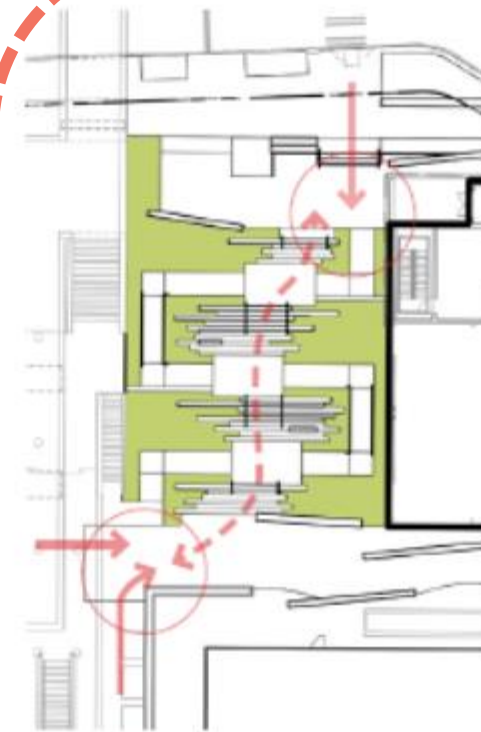
# Design Studies



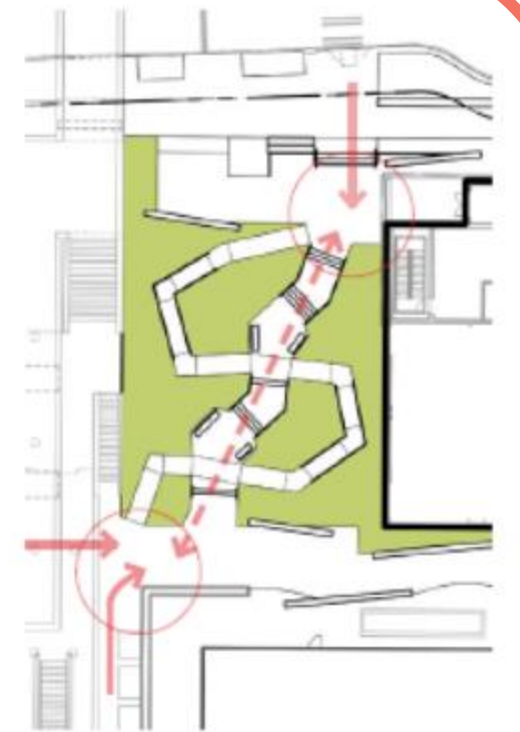
10% Concept



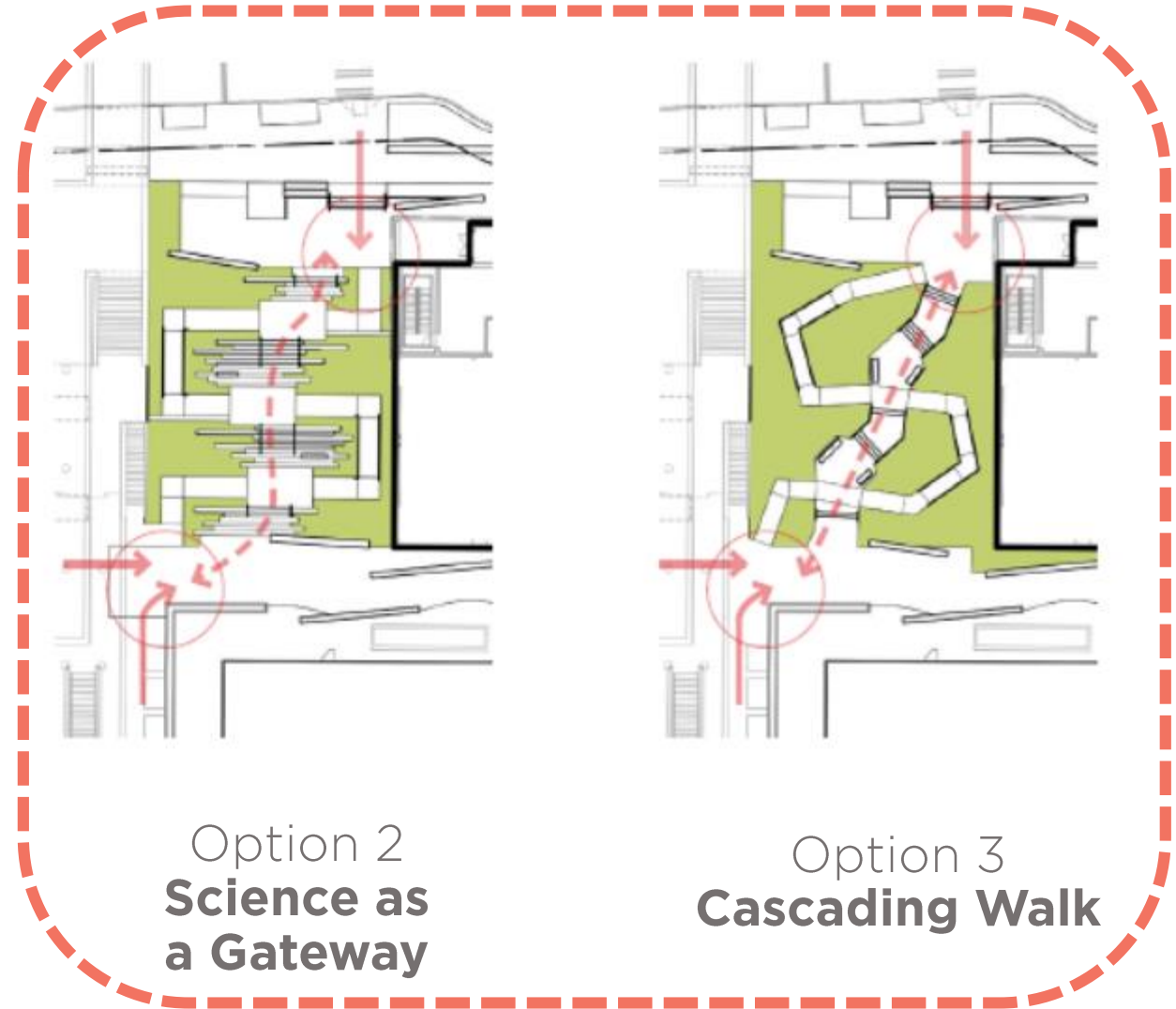
Option 1  
**Three  
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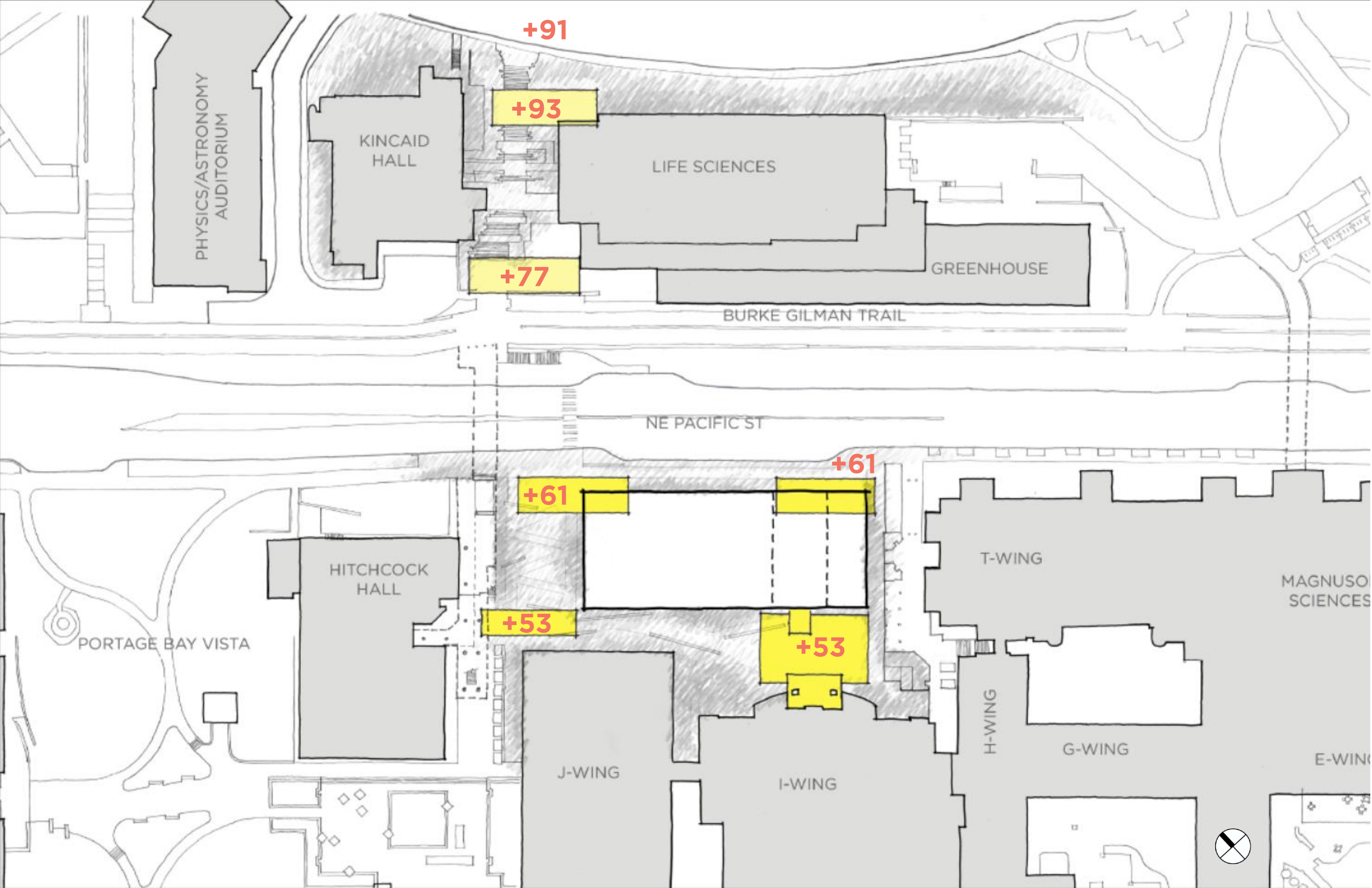


Option 2  
**Science as  
a Gateway**



Option 3  
**Cascading Walk**





+91

+93

+77

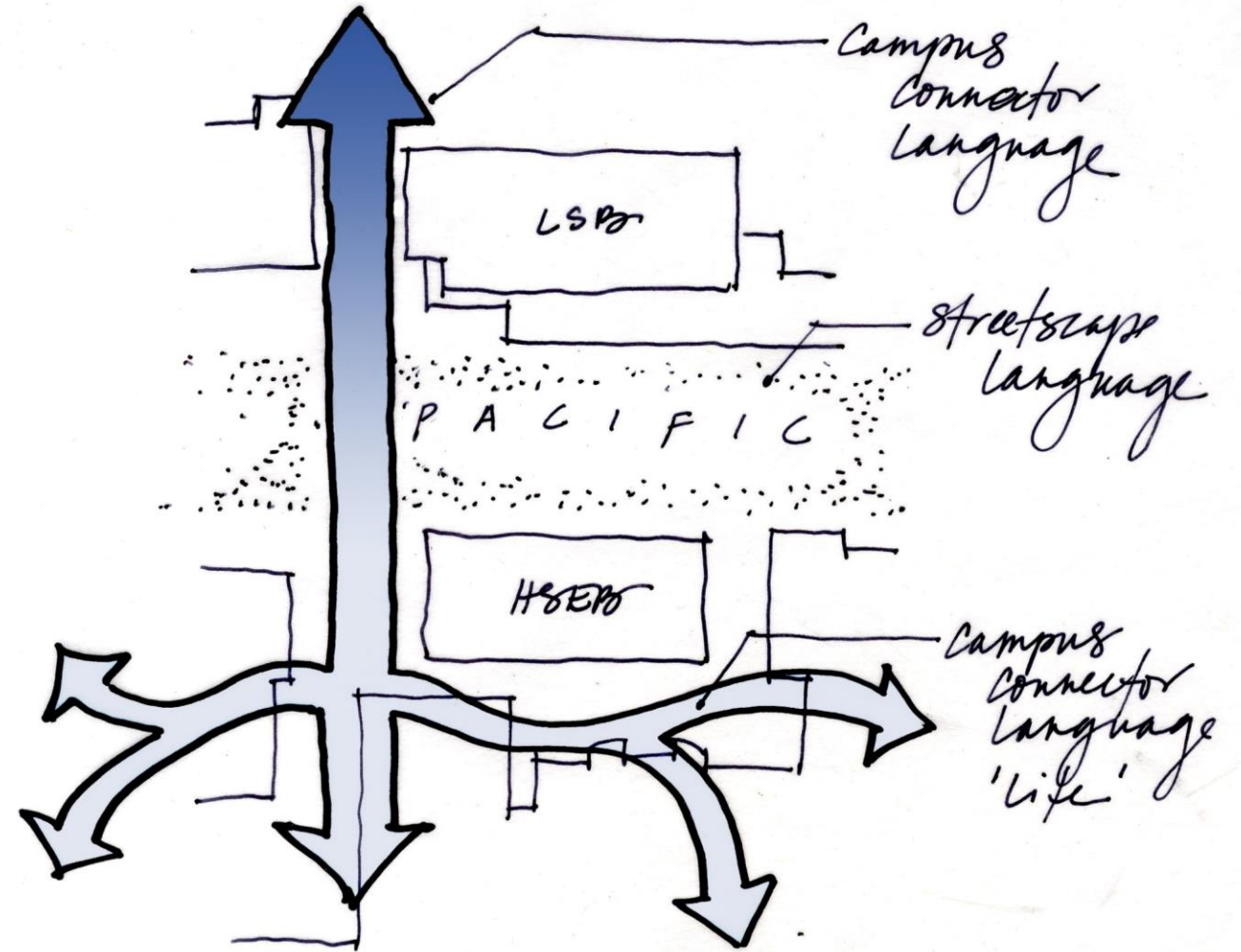
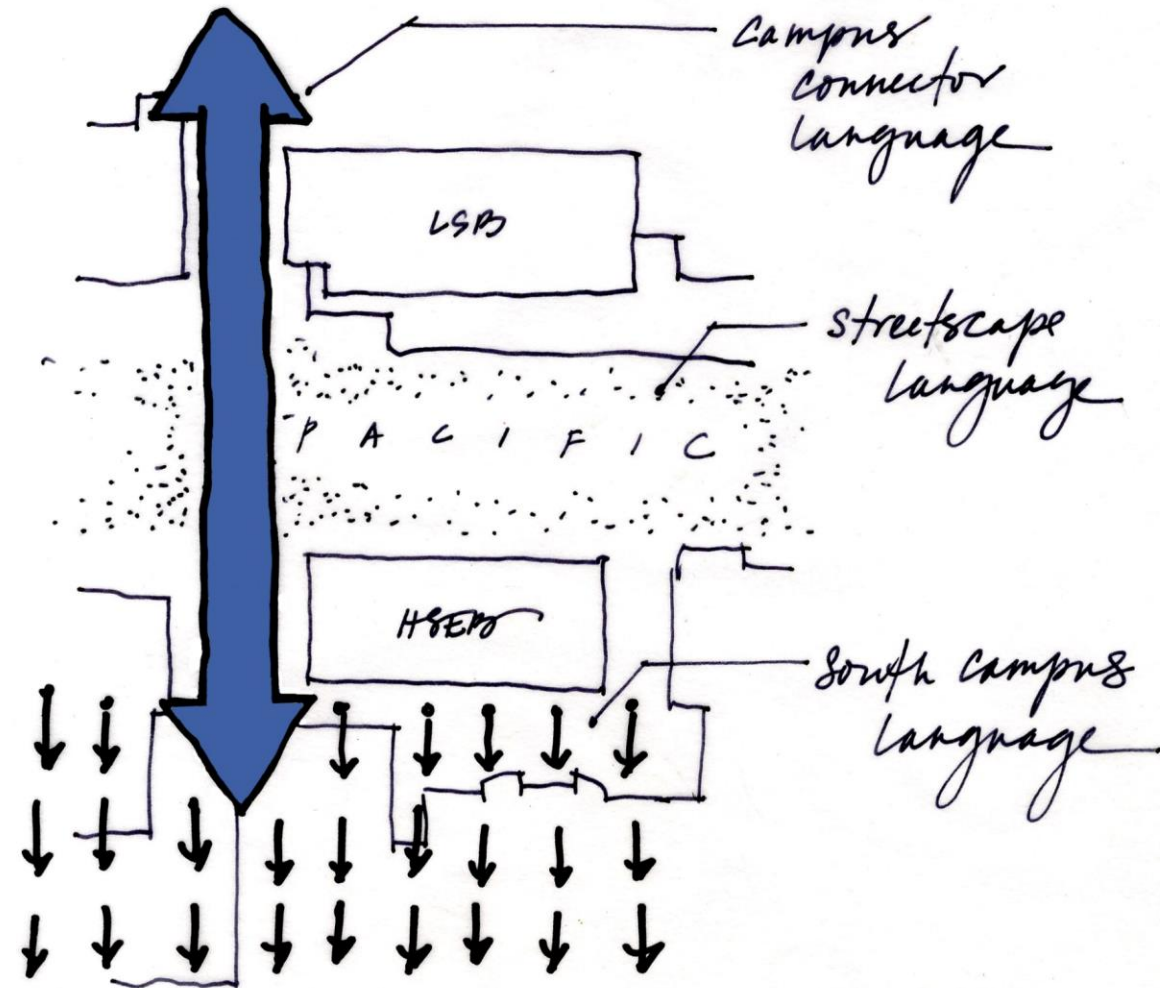
+61

+61

+53

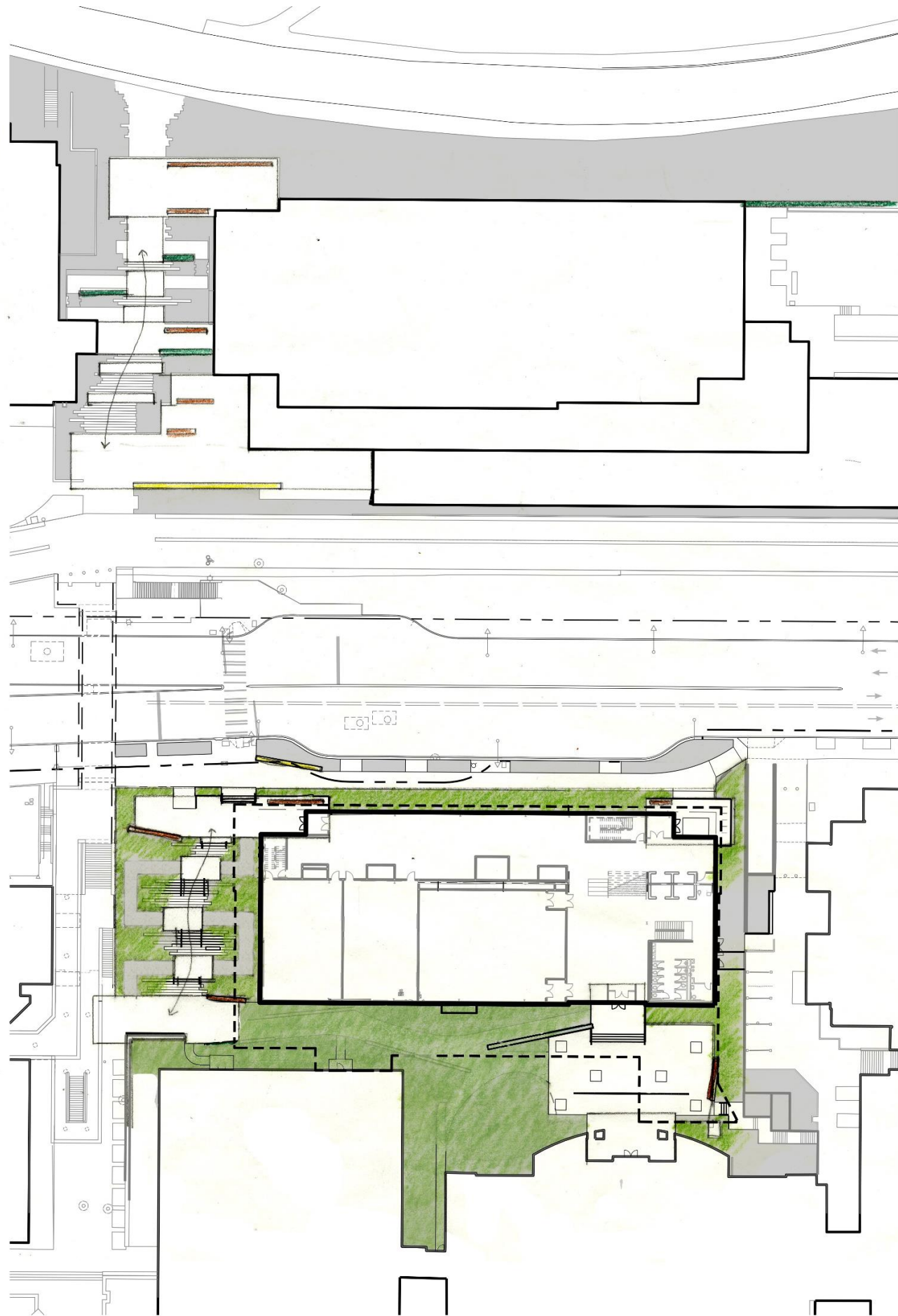
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# Plan Options - Diagrams

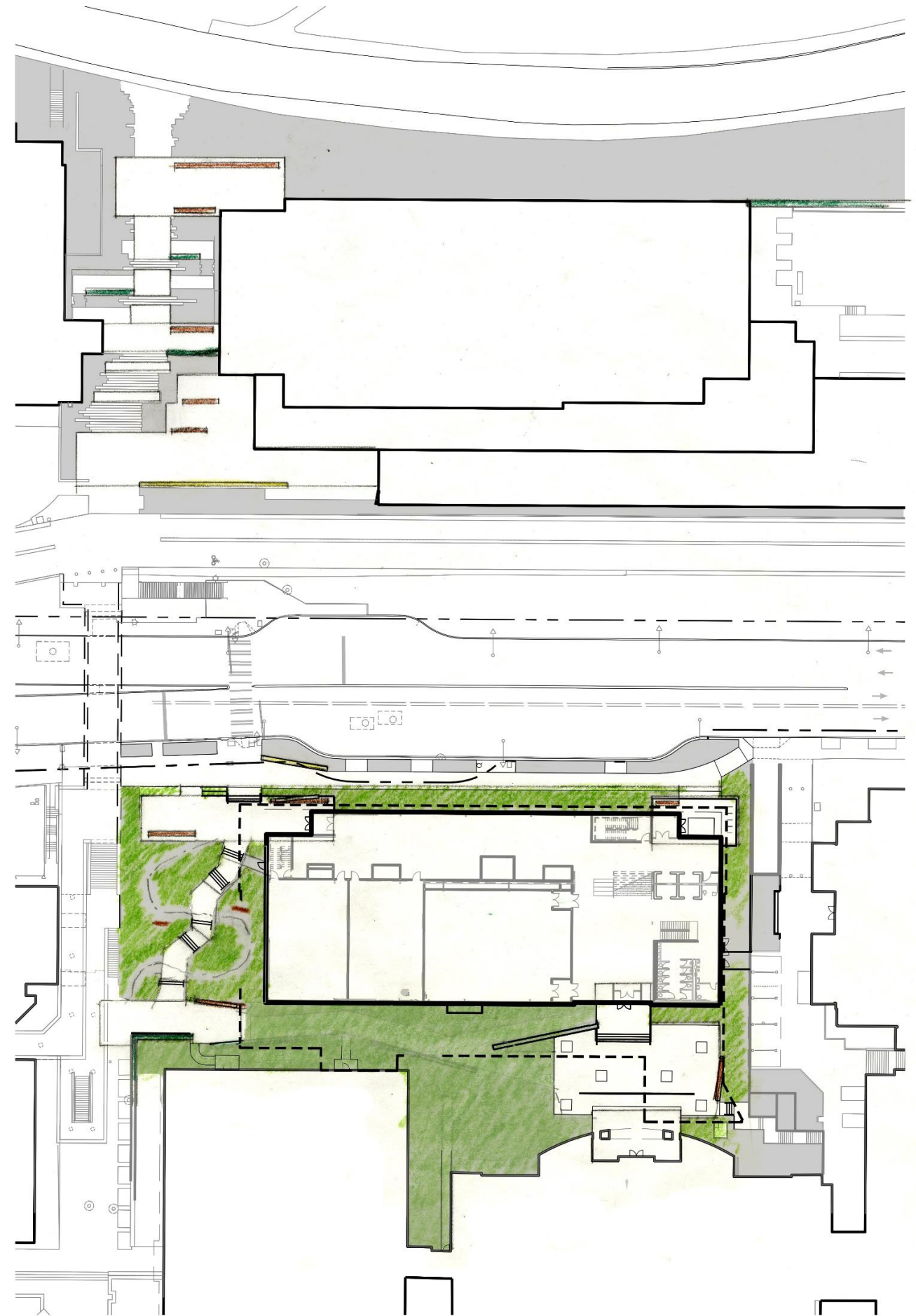




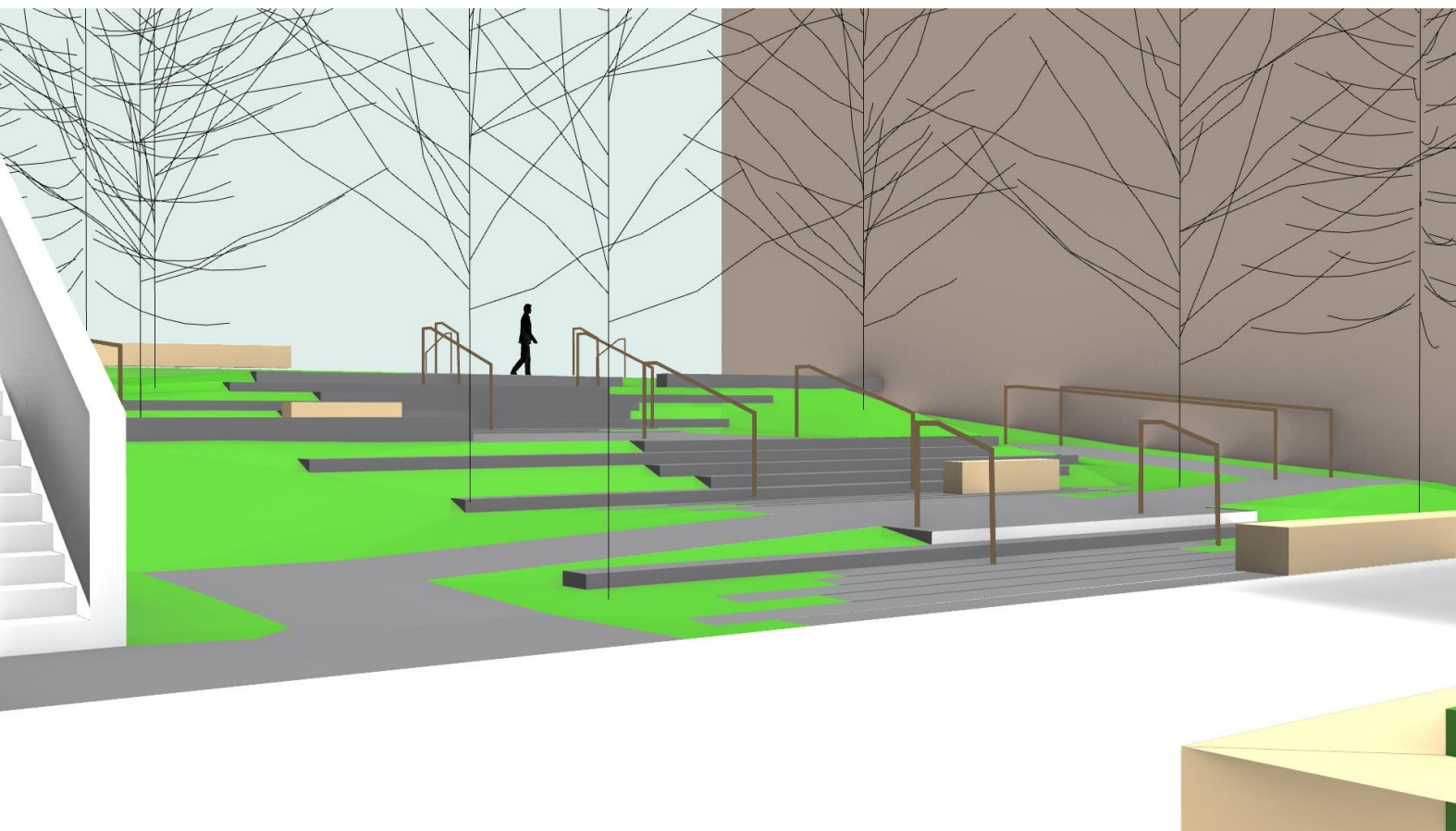
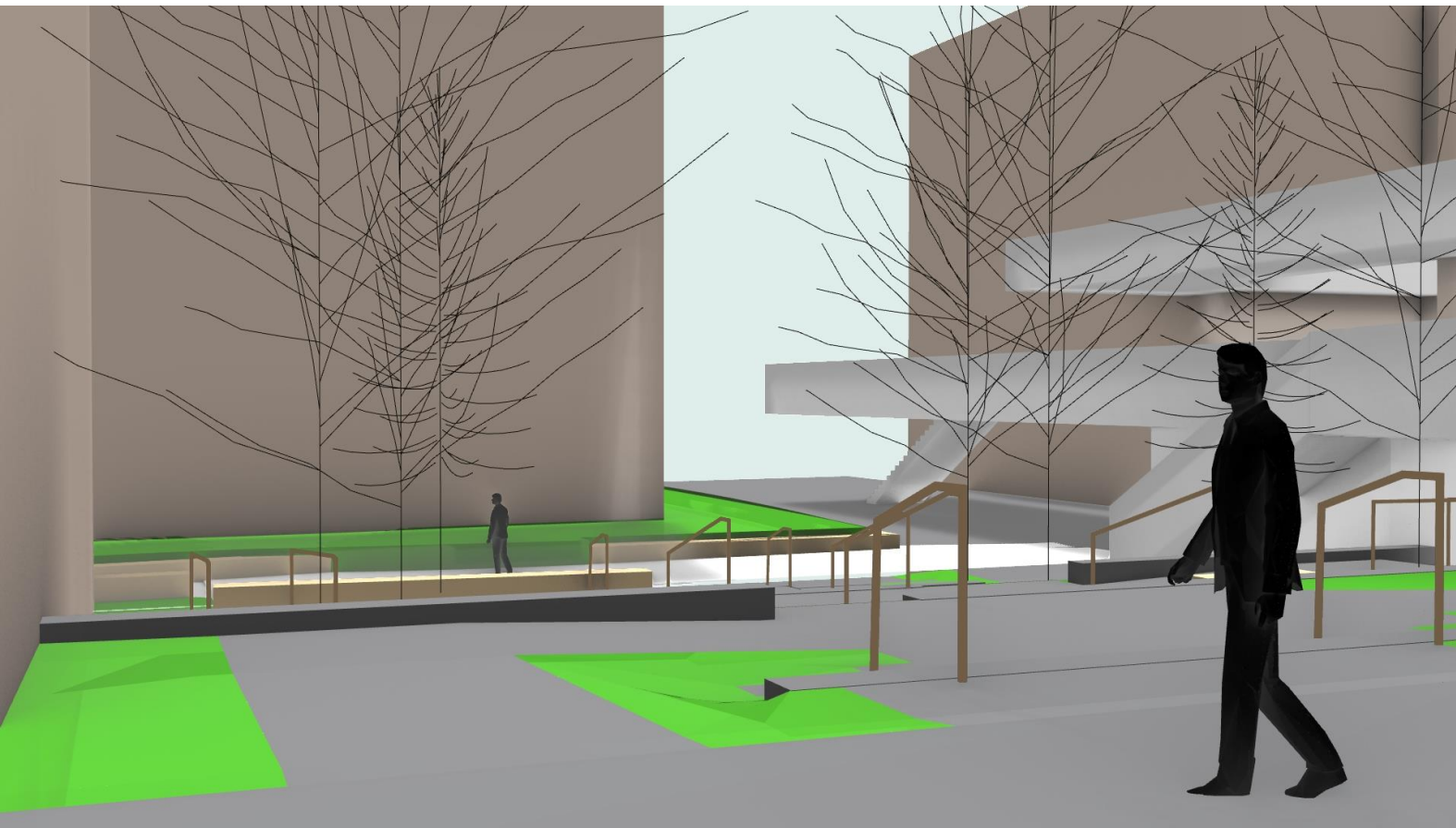
## Option 1 - Science as a Gateway



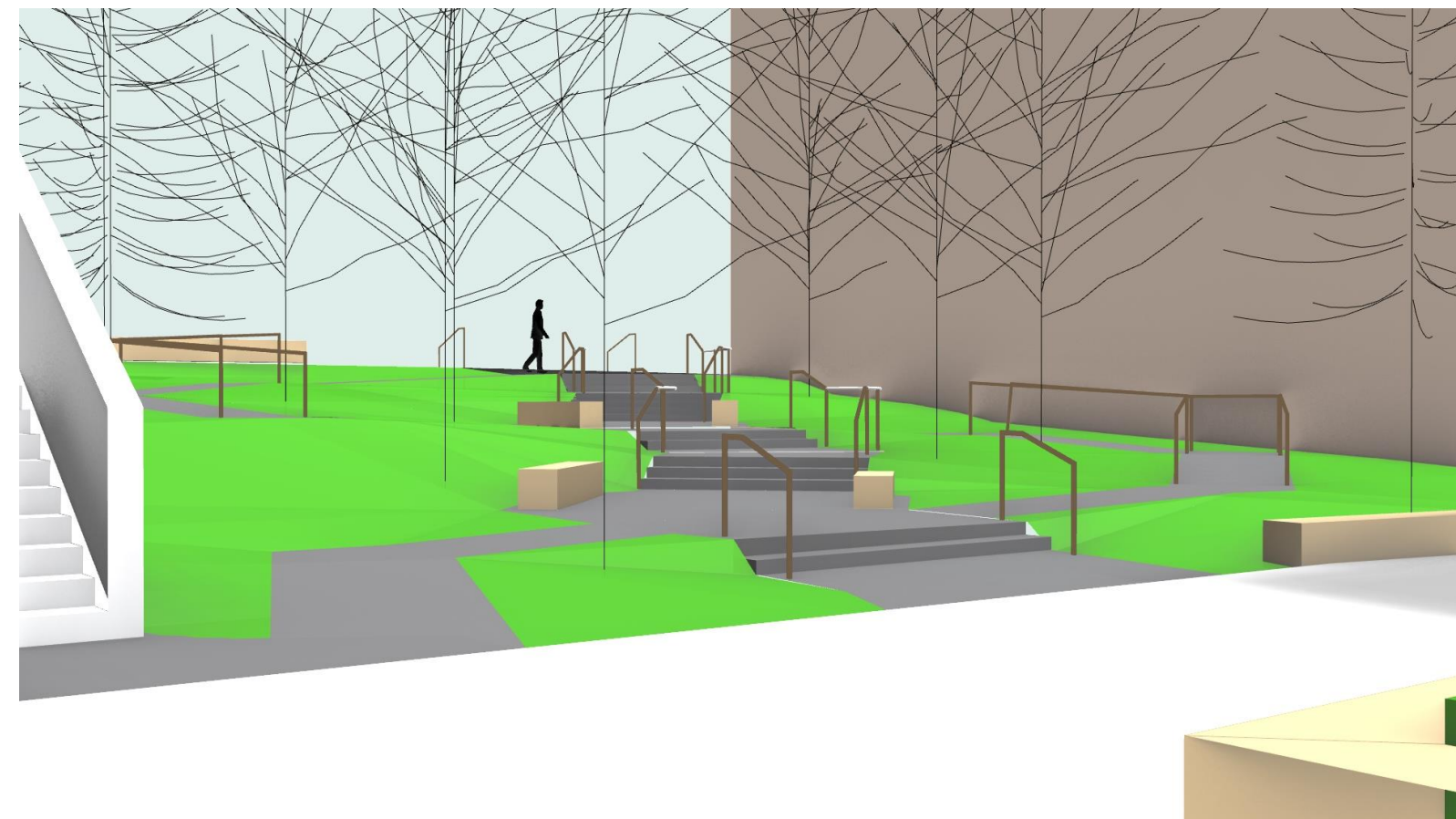
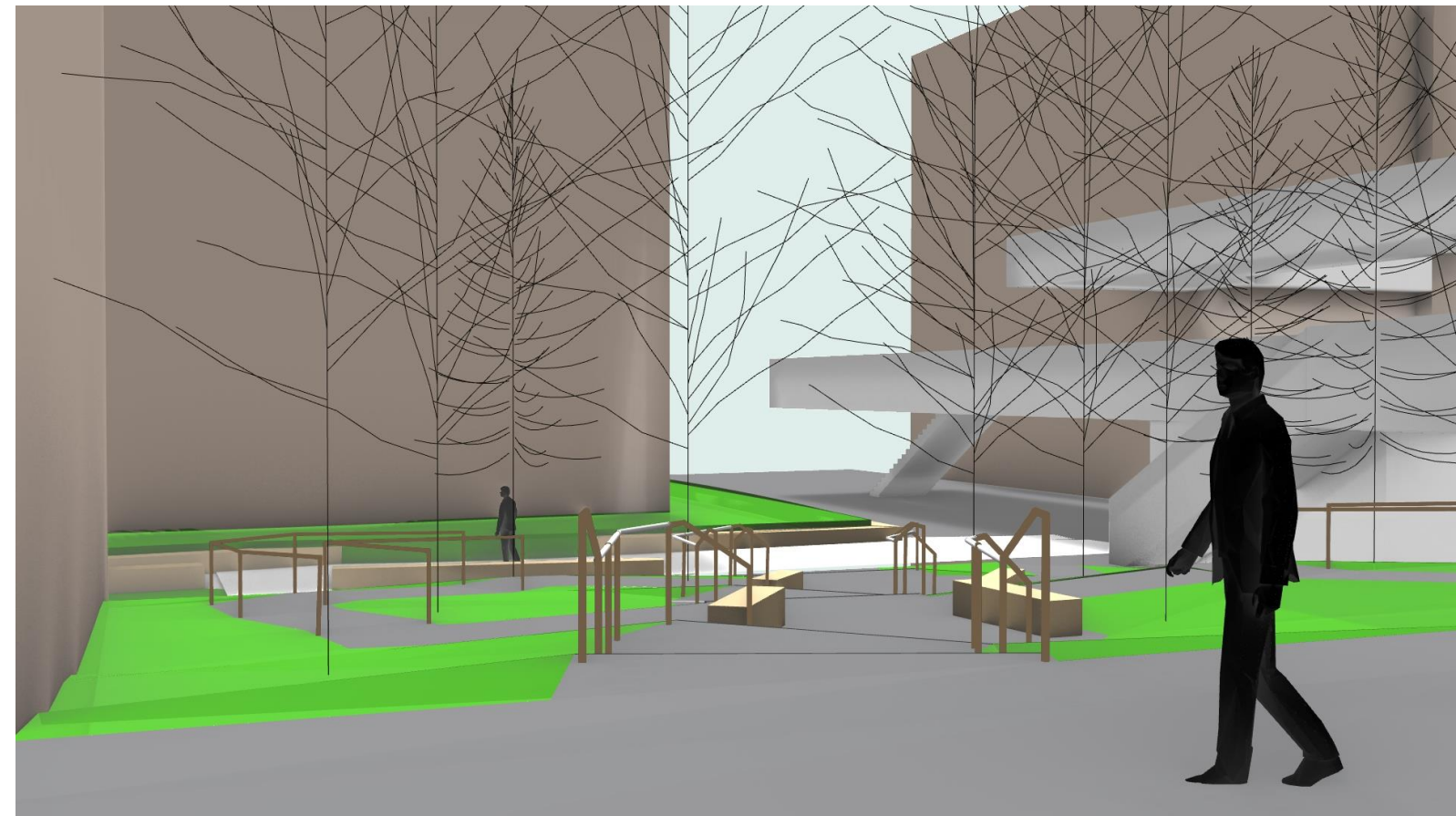
## Option 2 - Cascading Walk



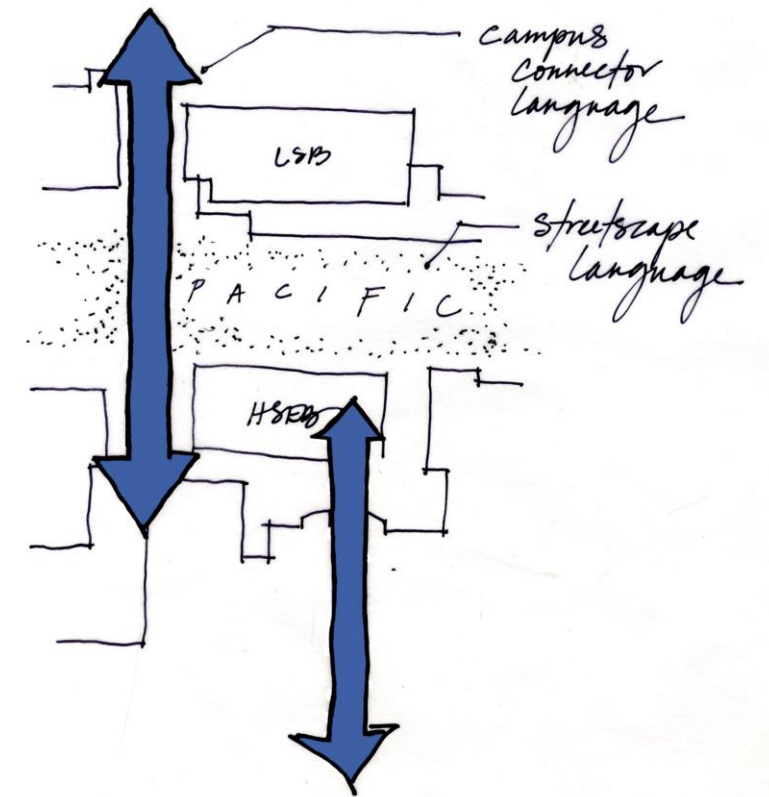
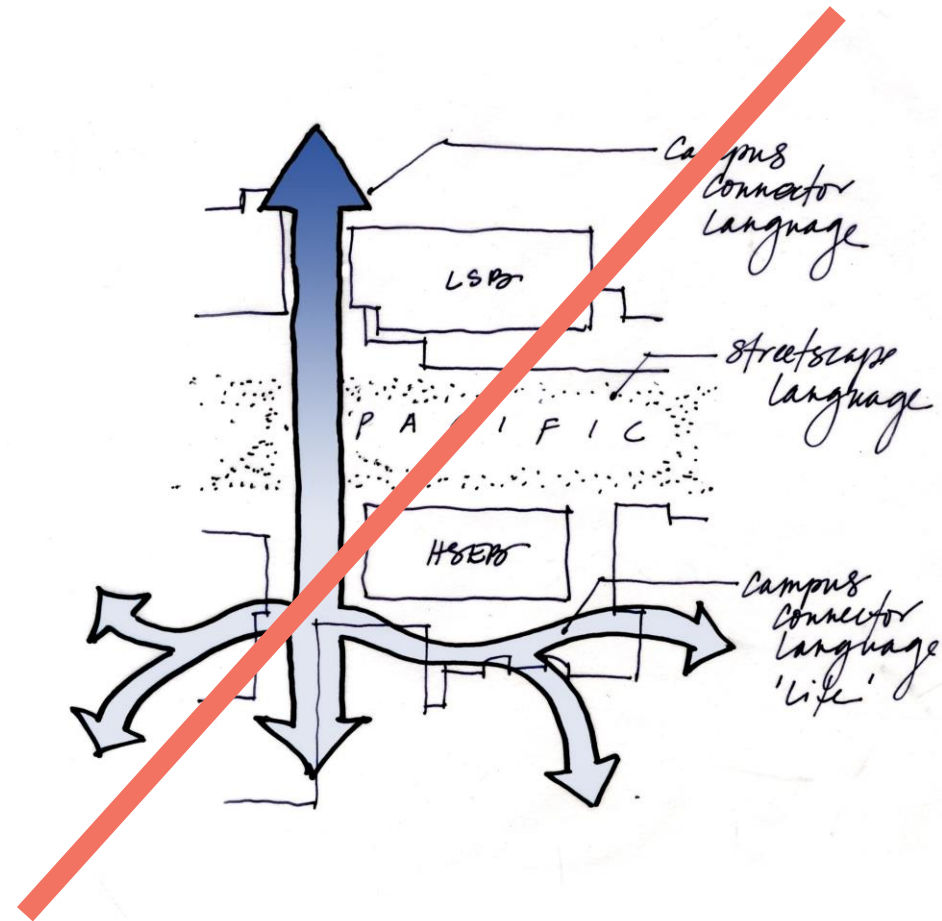
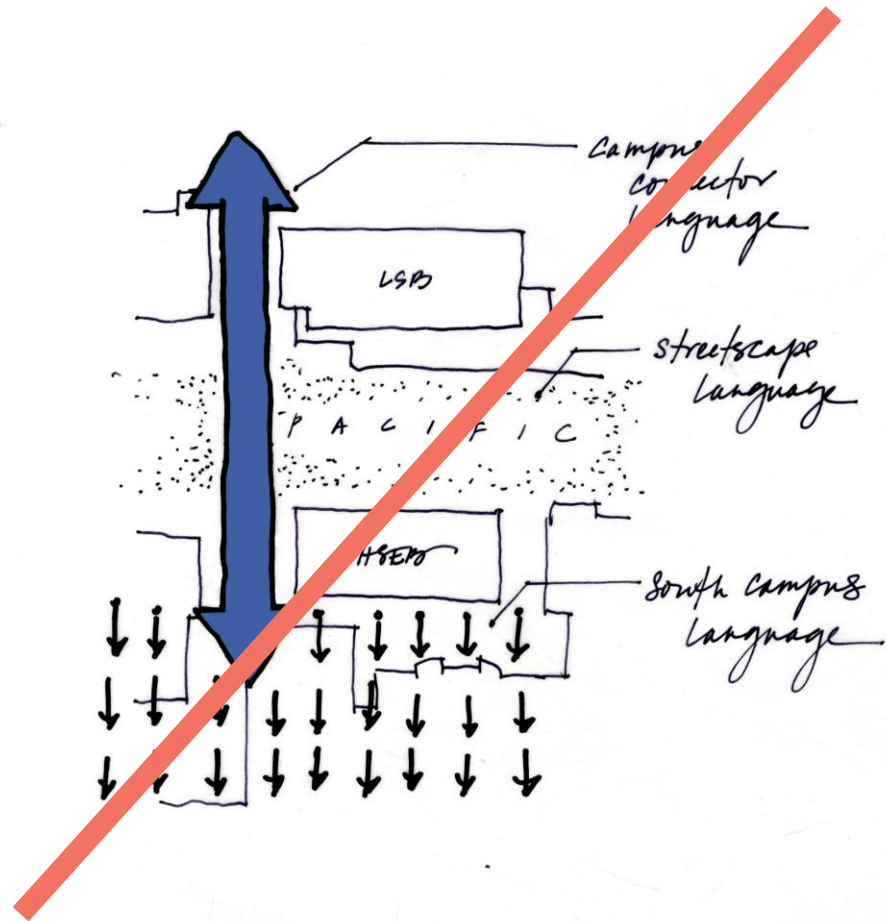
## Option 1 - Science as a Gateway



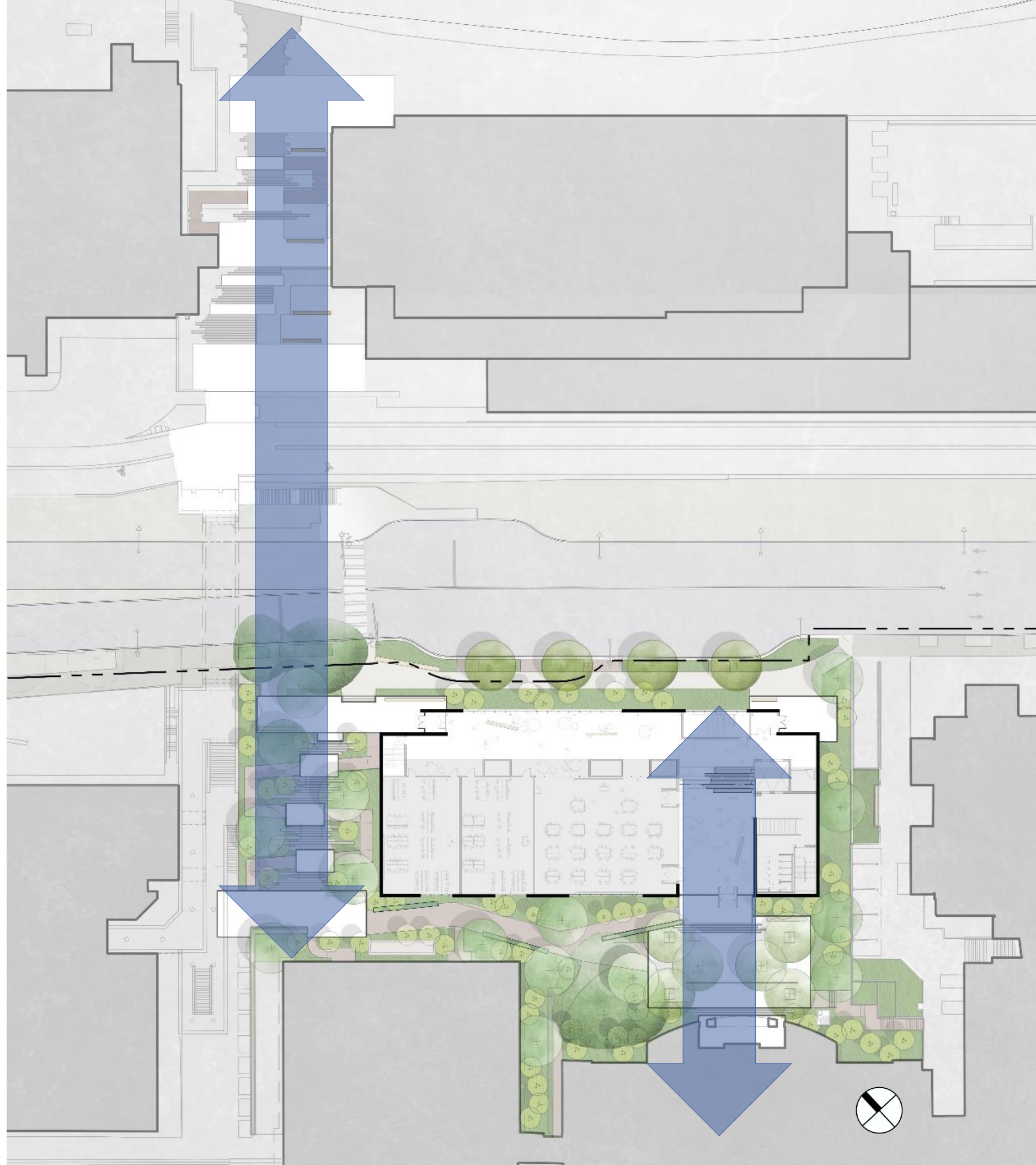
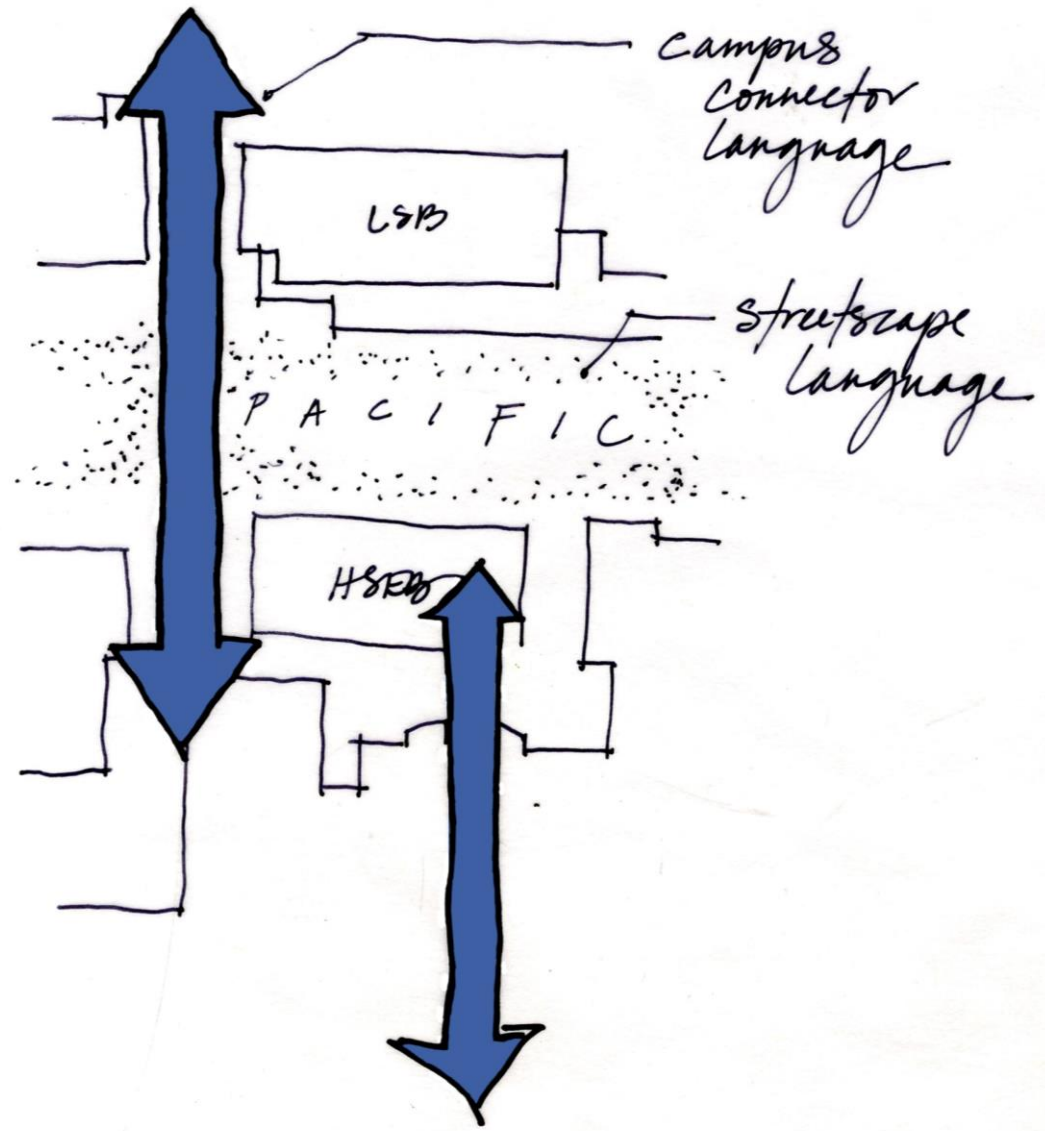
## Option 2 - Cascading Walk



# Plan Options - Diagrams



# Preferred Plan

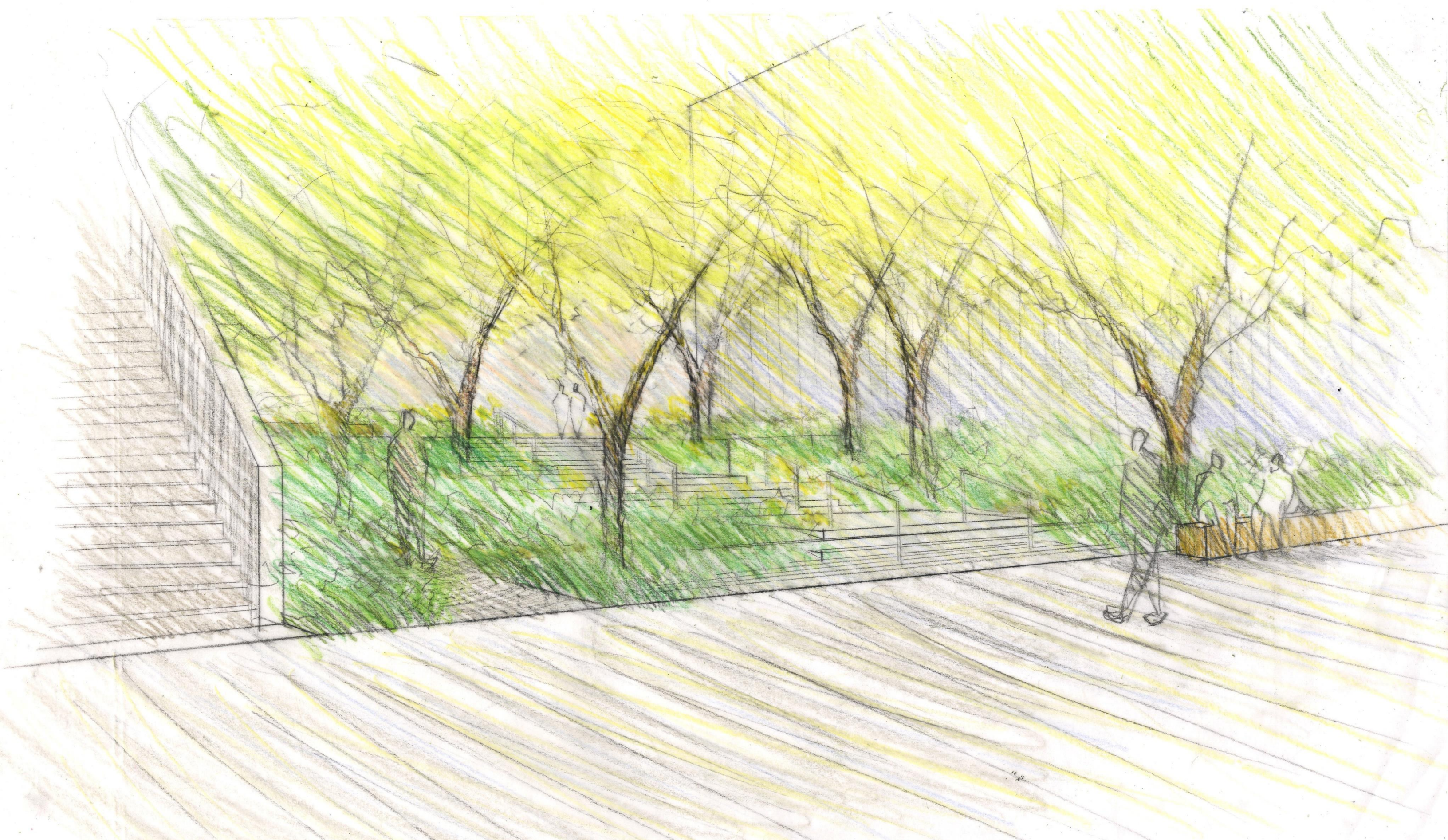




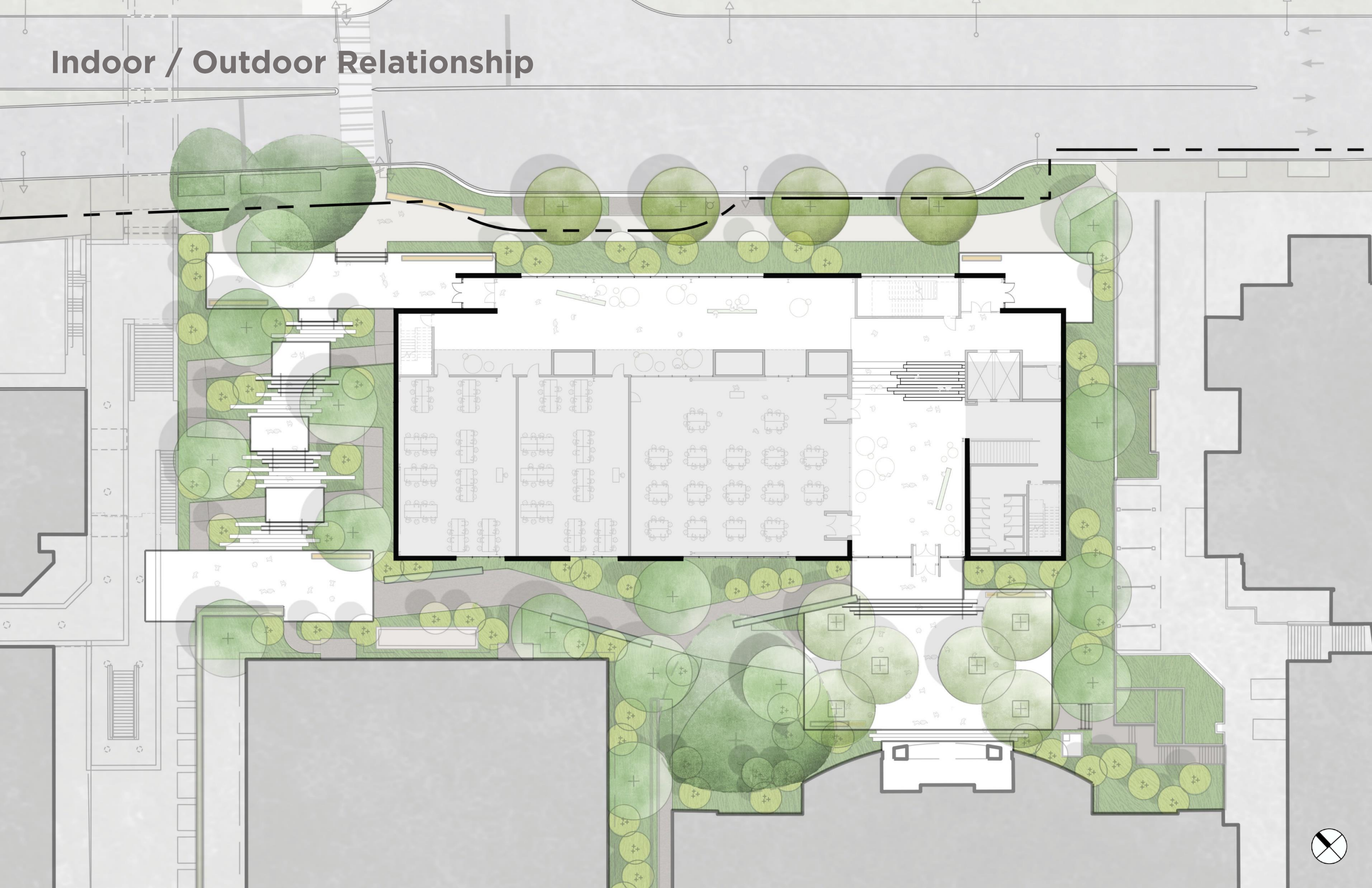
**View from top of slope**



**View looking up slope from below**

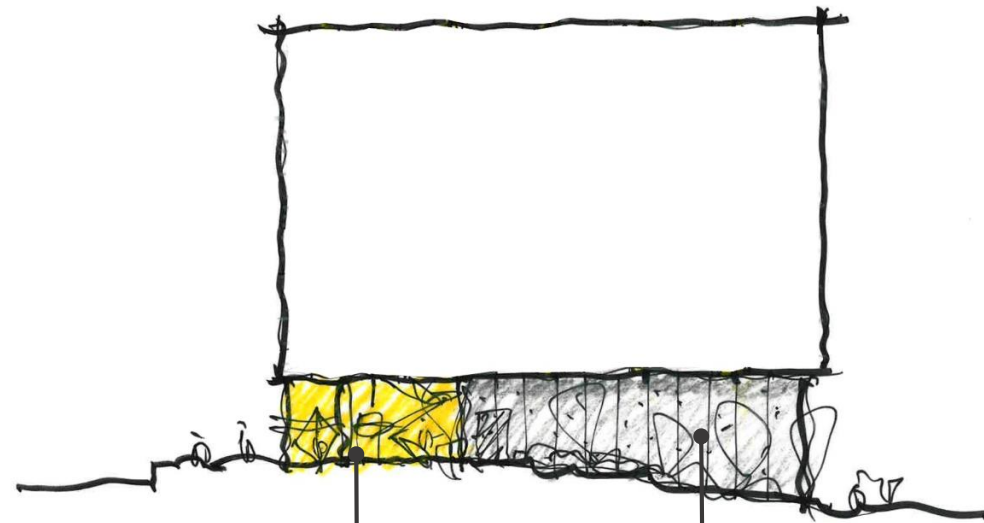


# Indoor / Outdoor Relationship



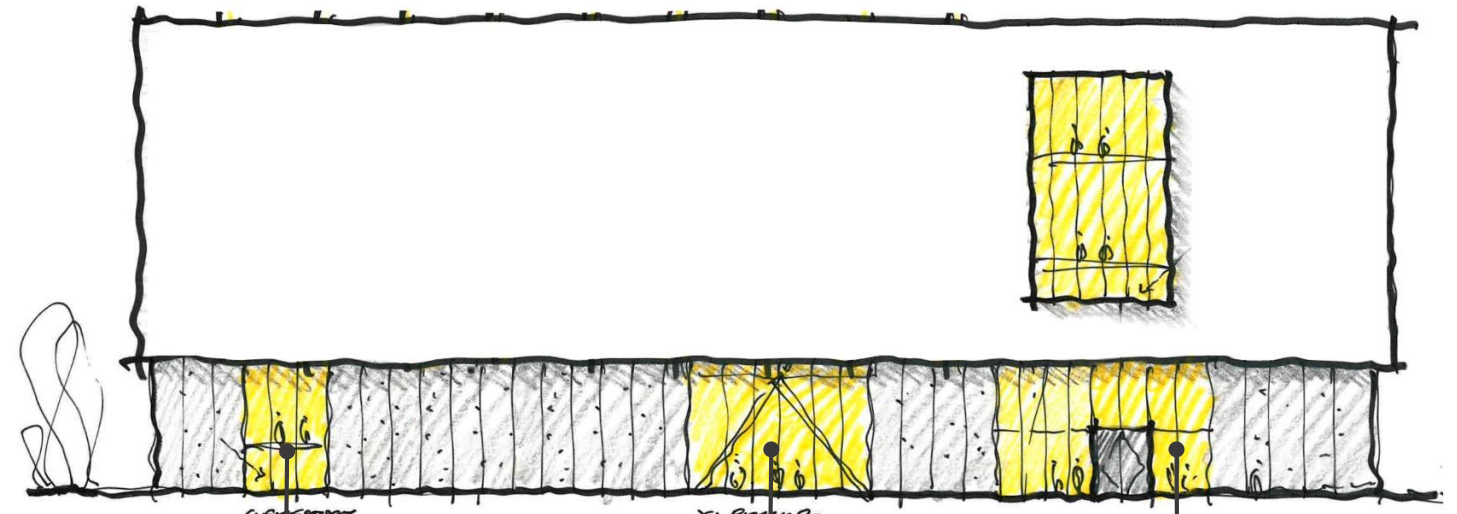


# Ground Level



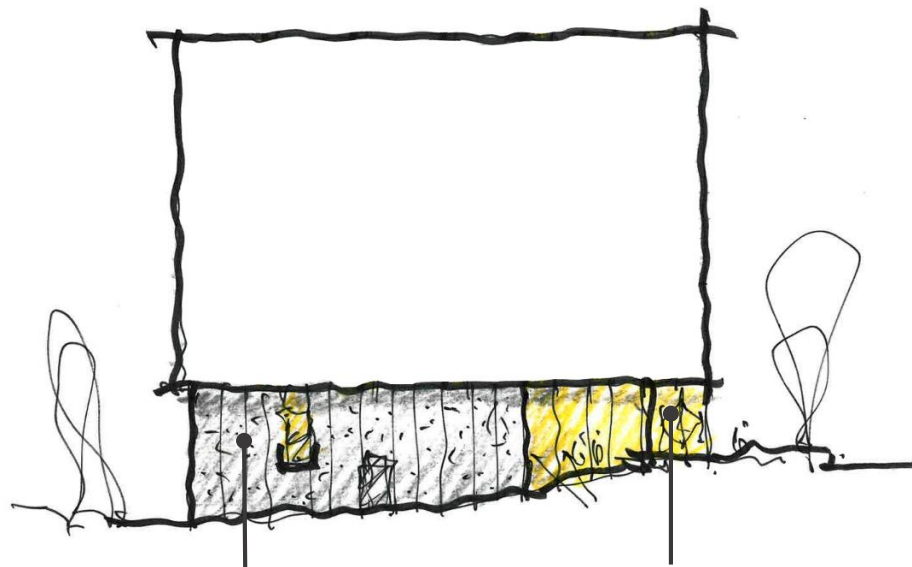
Entry + lobby      Solid site wall (grade change)

West Elevation



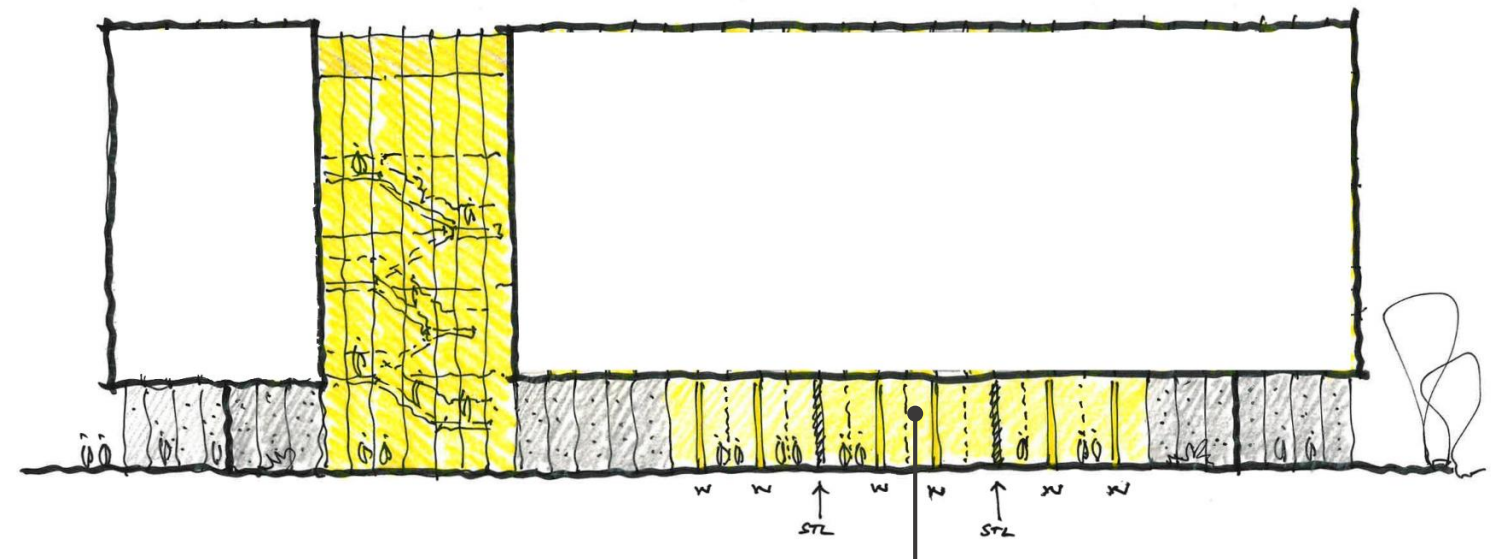
Classroom daylighting      View to program      Entry + lobby

South Elevation



Solid site wall (grade change)      Entry + lobby

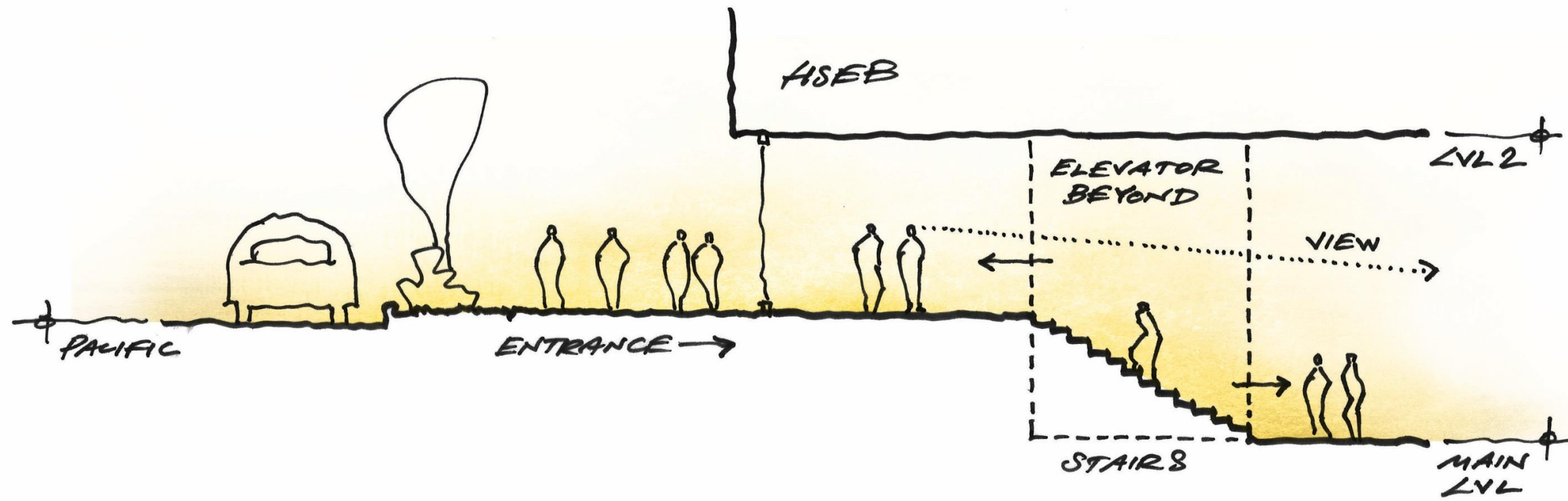
East Elevation



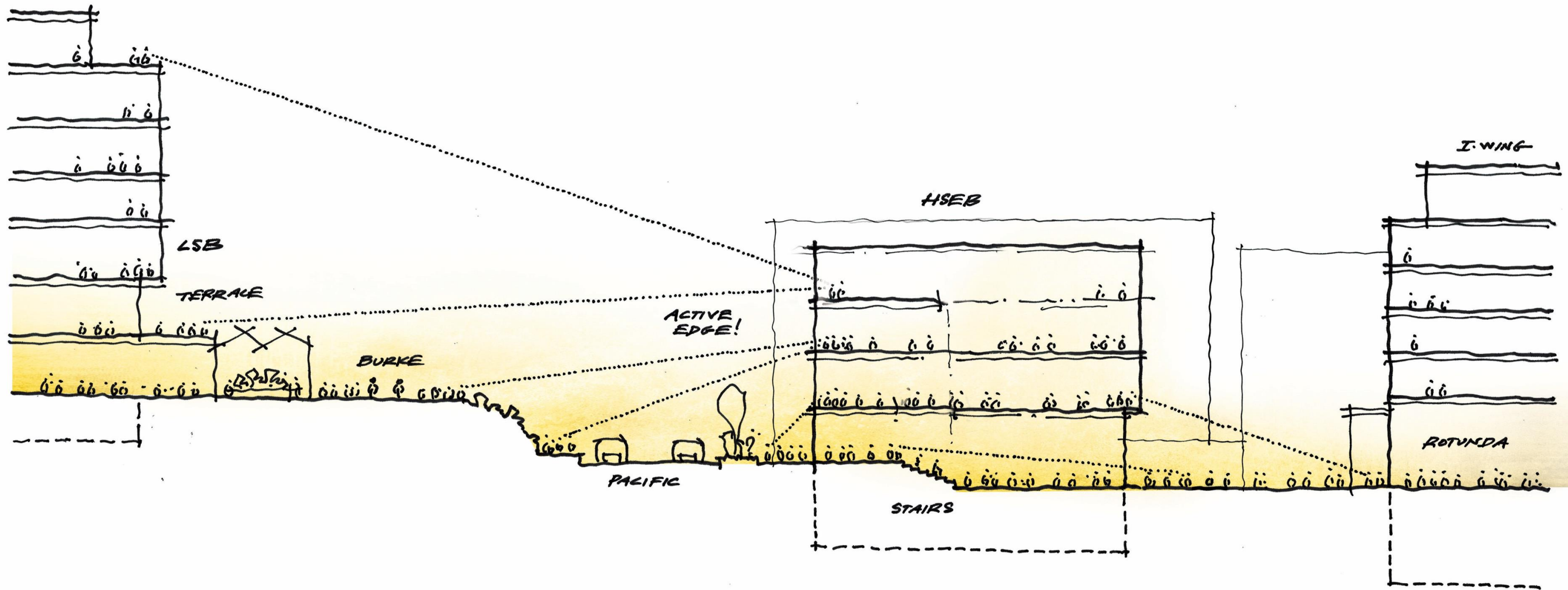
View to program

North Elevation

# Podium



# Podium

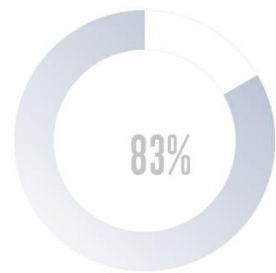
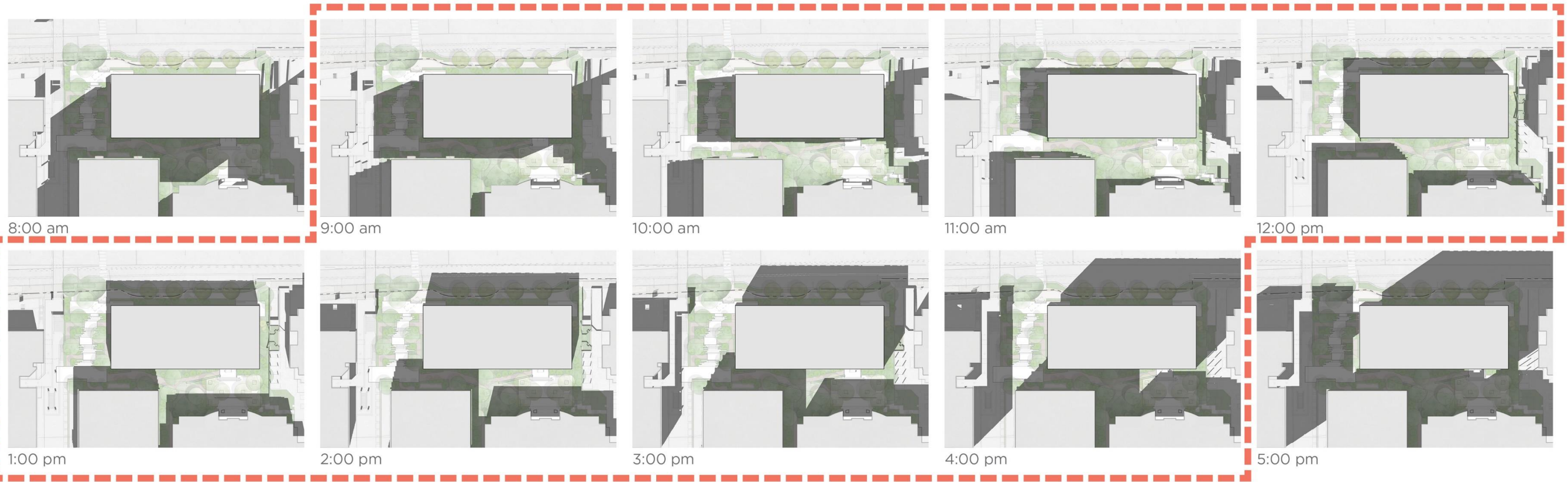


# South Room - view from the southeast

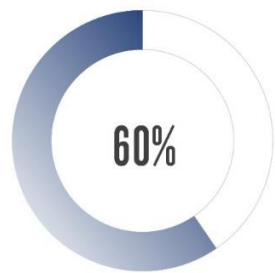


# Summer

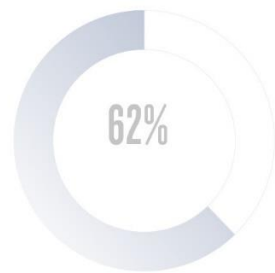
Solar Exposure 9:00am to 4:00pm



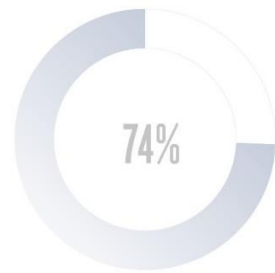
Winter



Summer



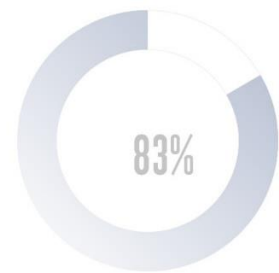
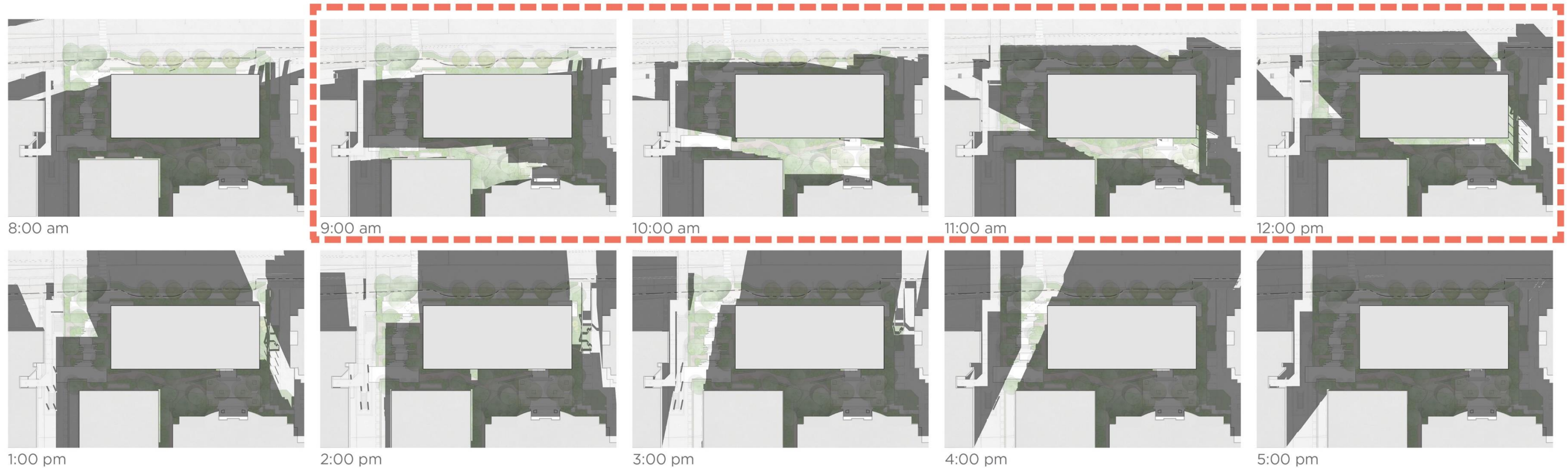
Fall



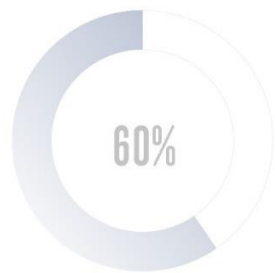
Spring

# Spring/Fall

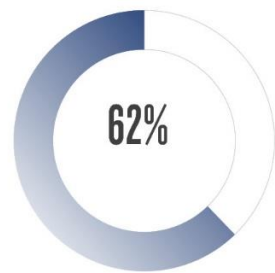
Solar Exposure 9:00am to 12:00pm



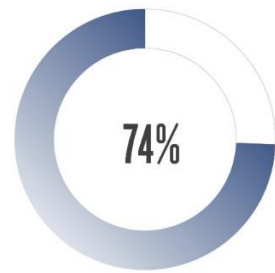
Winter



Summer



Fall



Spring

# Winter

## Minimum Solar Exposure



8:00 am



9:00 am



10:00 am



11:00 am



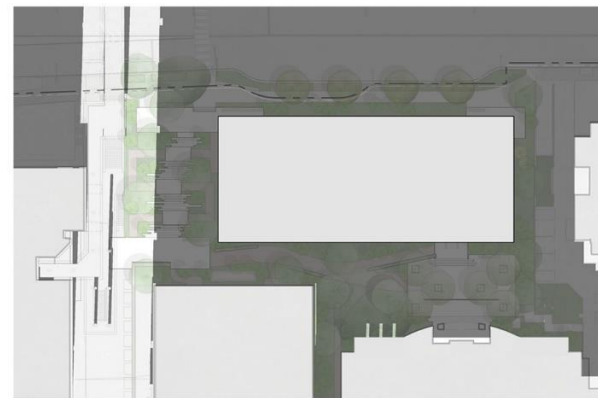
12:00 pm



1:00 pm



2:00 pm



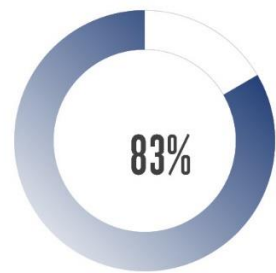
3:00 pm



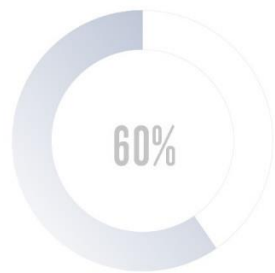
4:00 pm



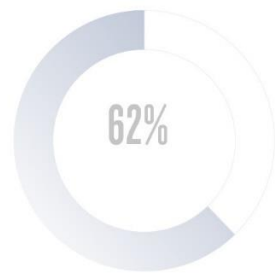
5:00 pm



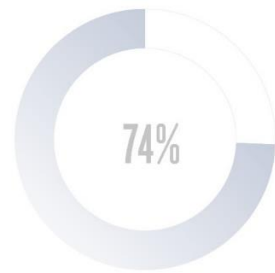
Winter



Summer



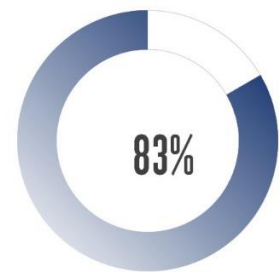
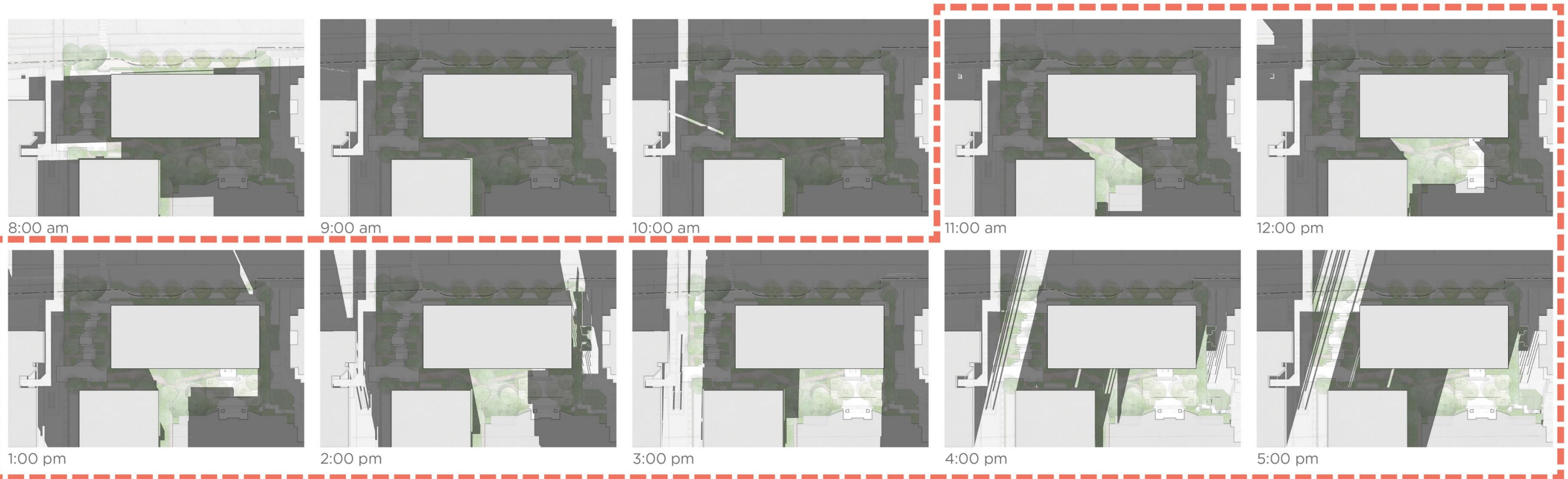
Fall



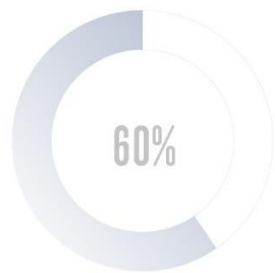
Spring

# Winter – without I-Wing

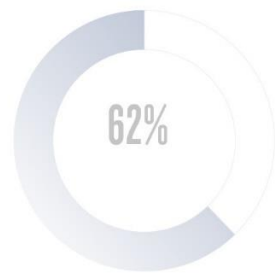
Solar Exposure 11:00am to 5:00pm



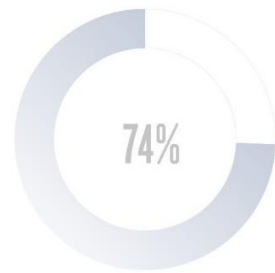
Winter



Summer



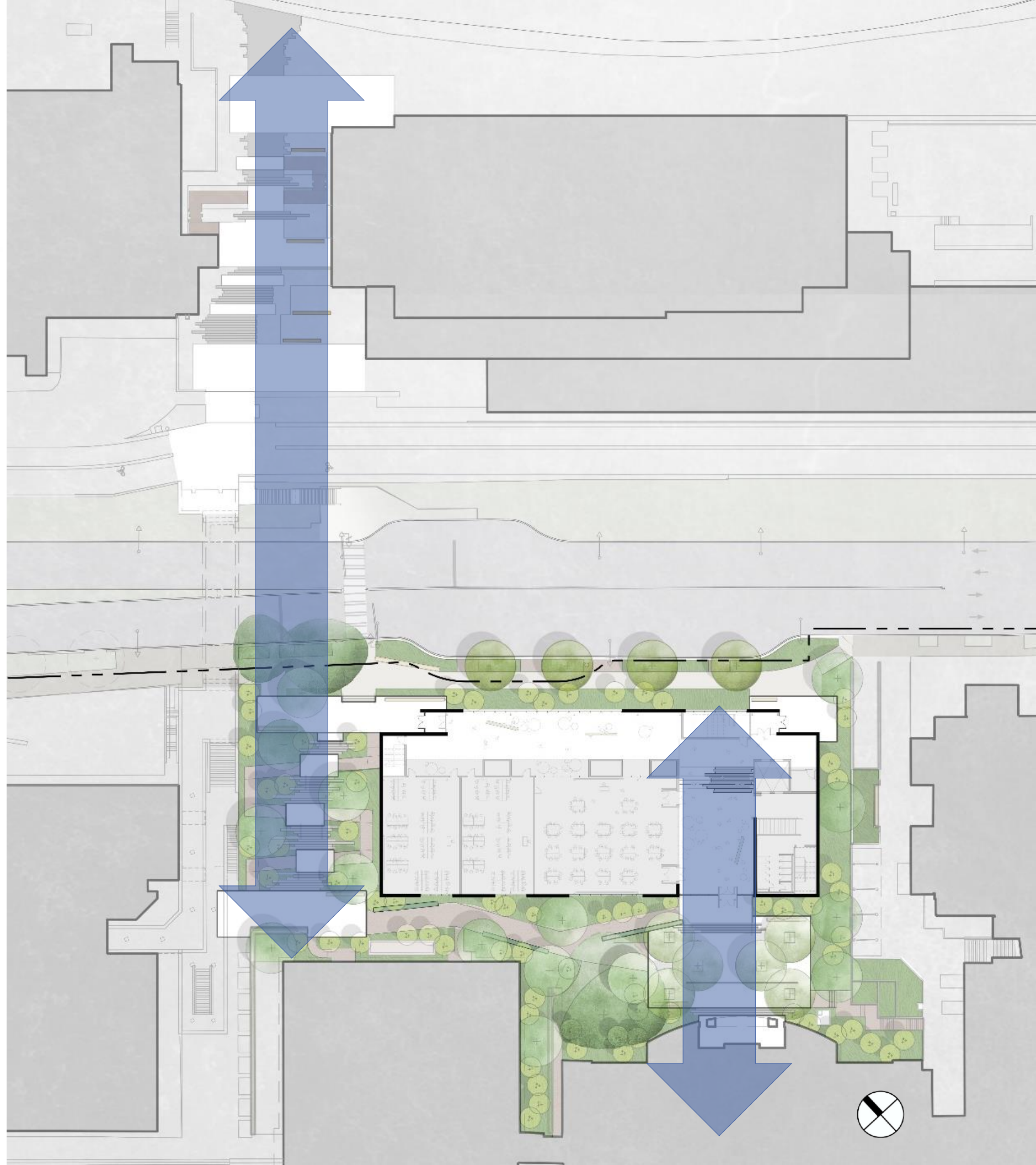
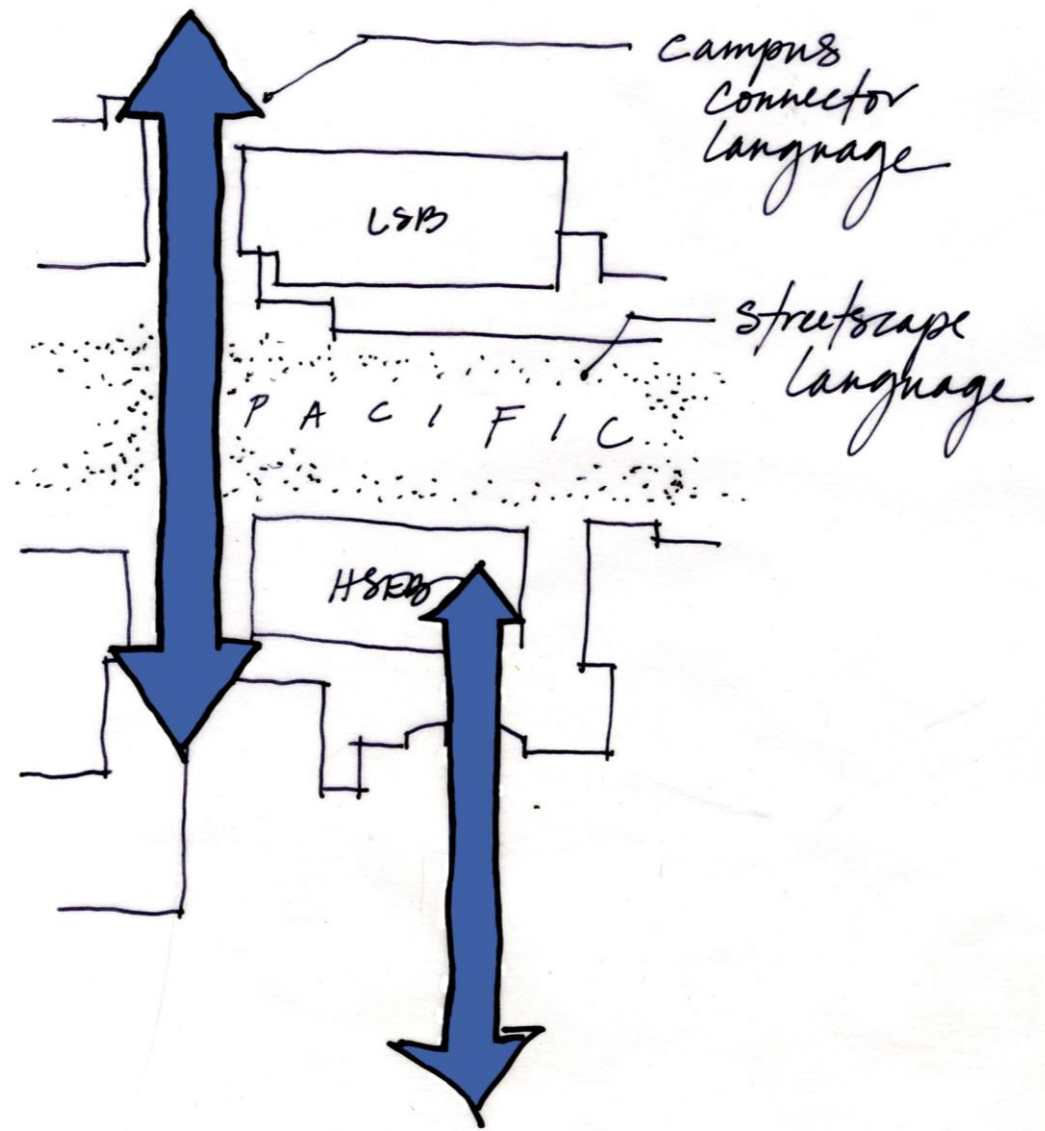
Fall



Spring



# Preferred Plan



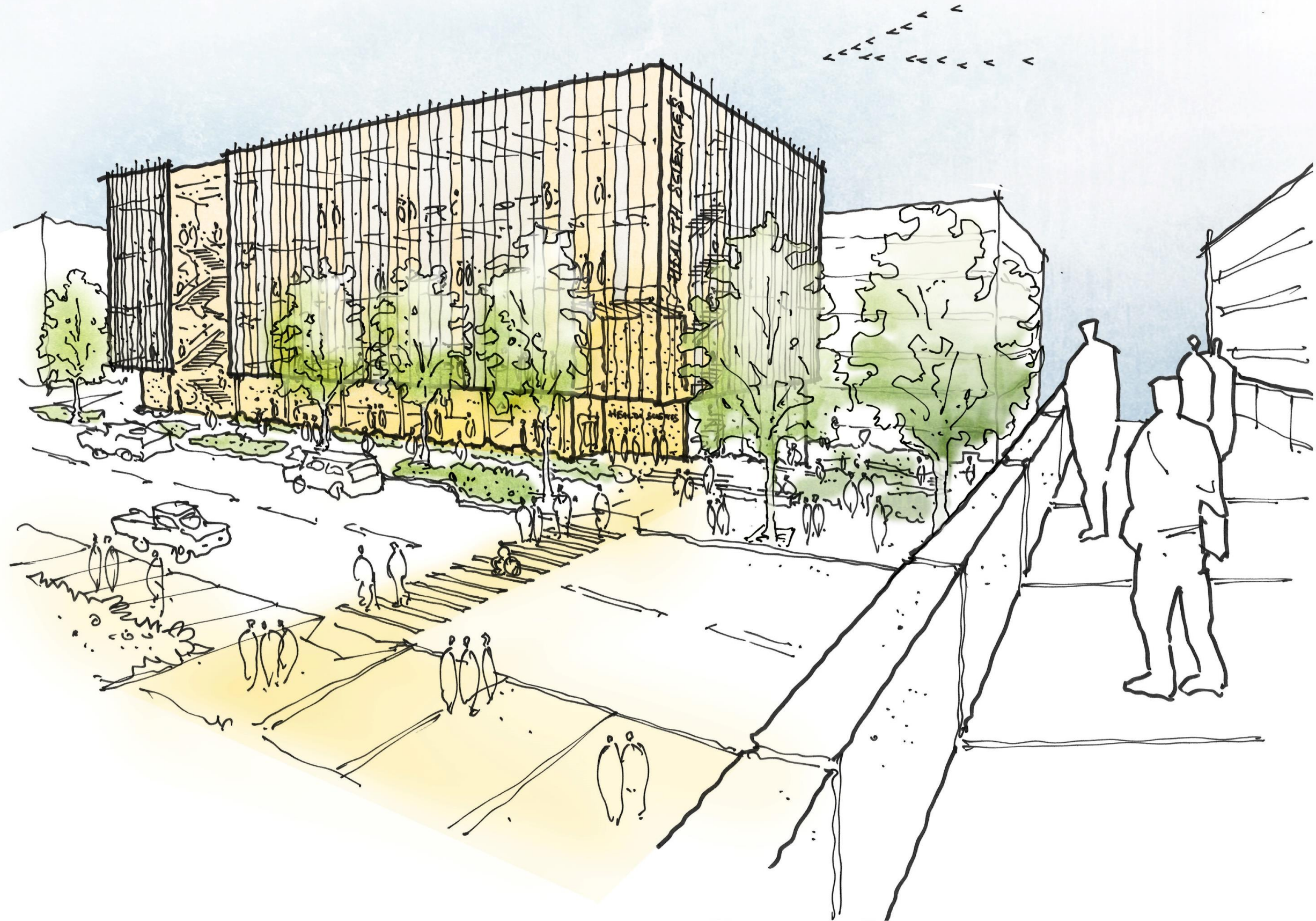
**Current EXPLORATION**  
**[façade logic]**

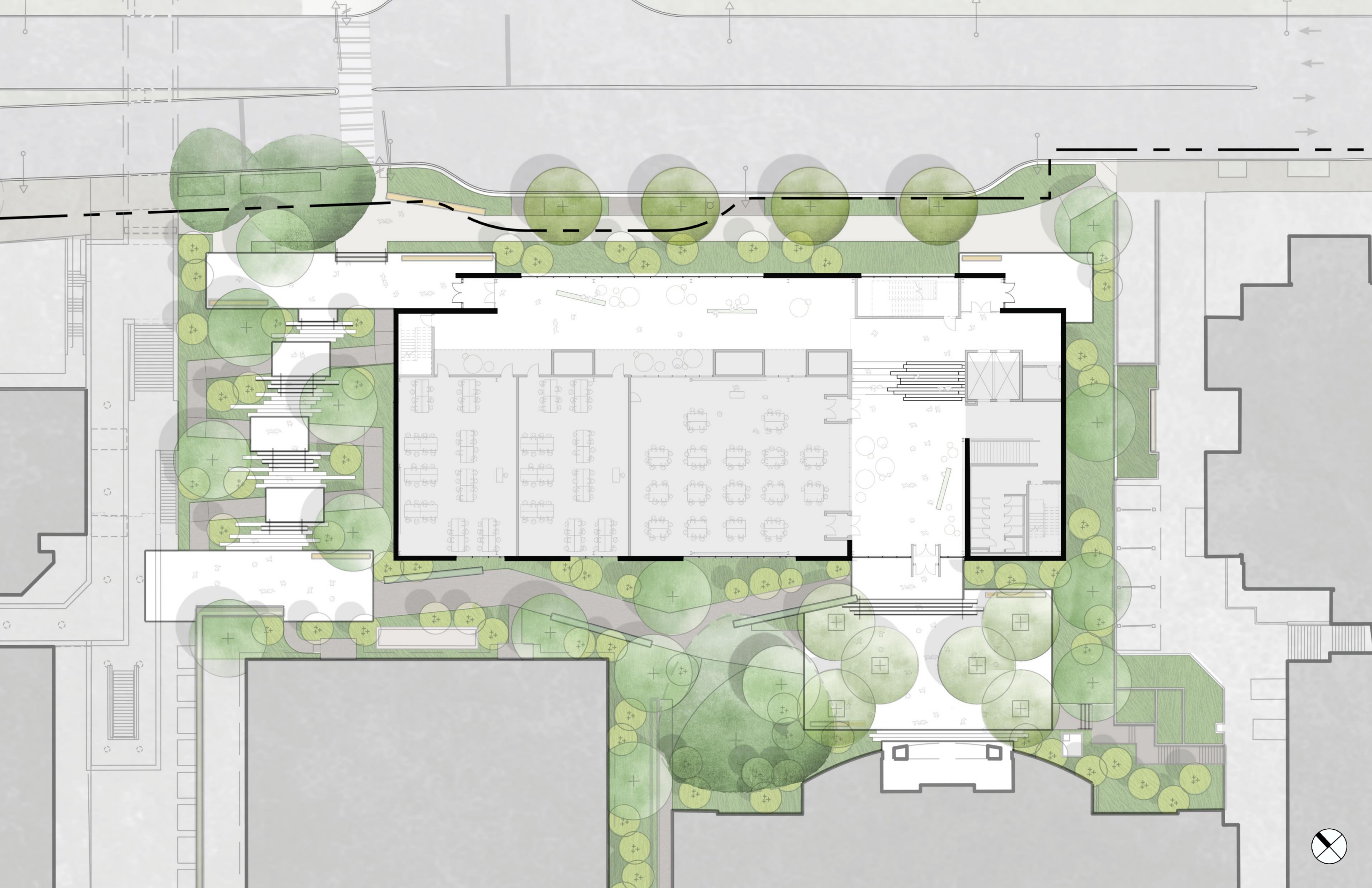
# Façade Design Logic

- Reflect the environment + program
- Set precedent for performance on south campus
- Operate at multiple scales
- Convey a sensory, textural gradient
- Express significant opening/program at the 'heart'

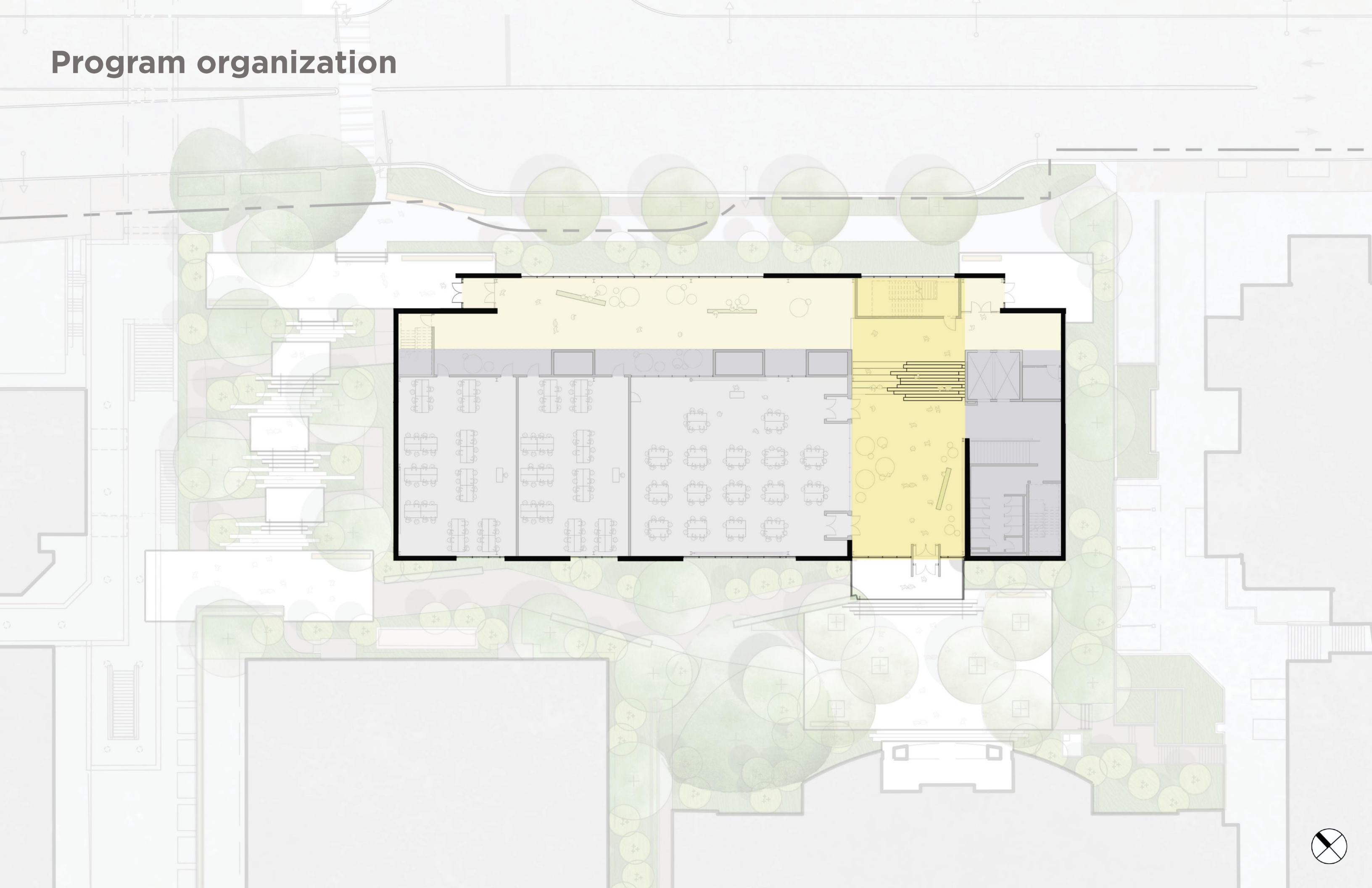
**\*express the culture of care**

# Simple form

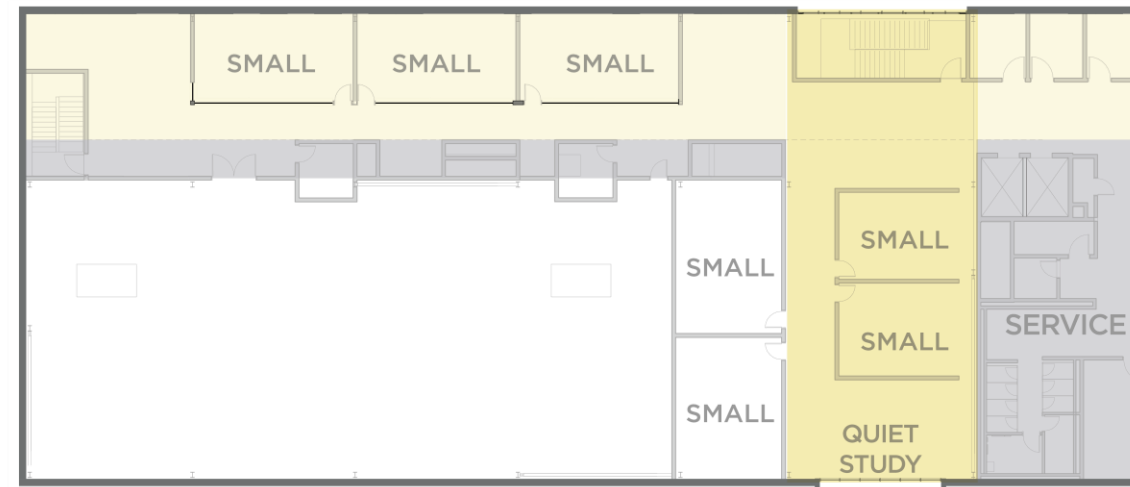




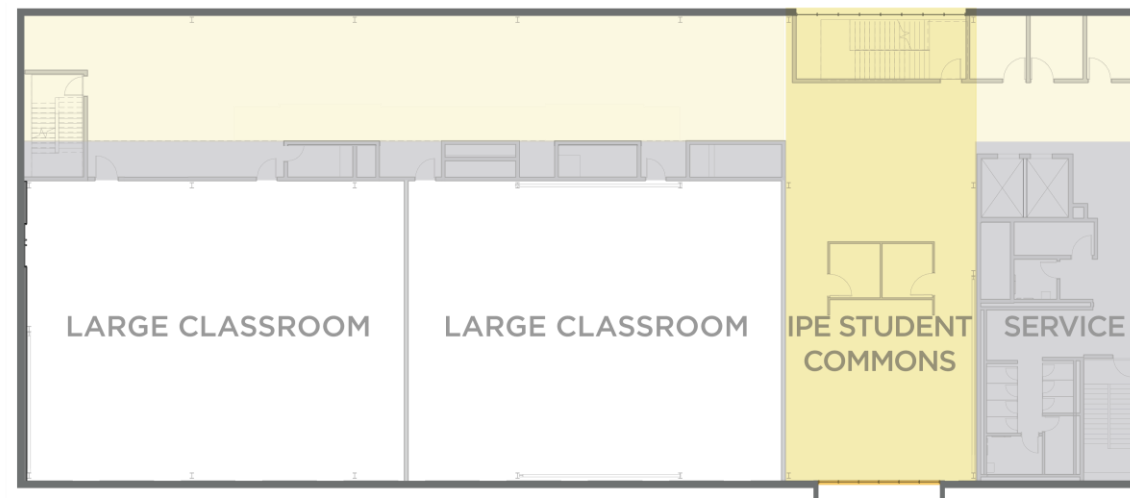
# Program organization



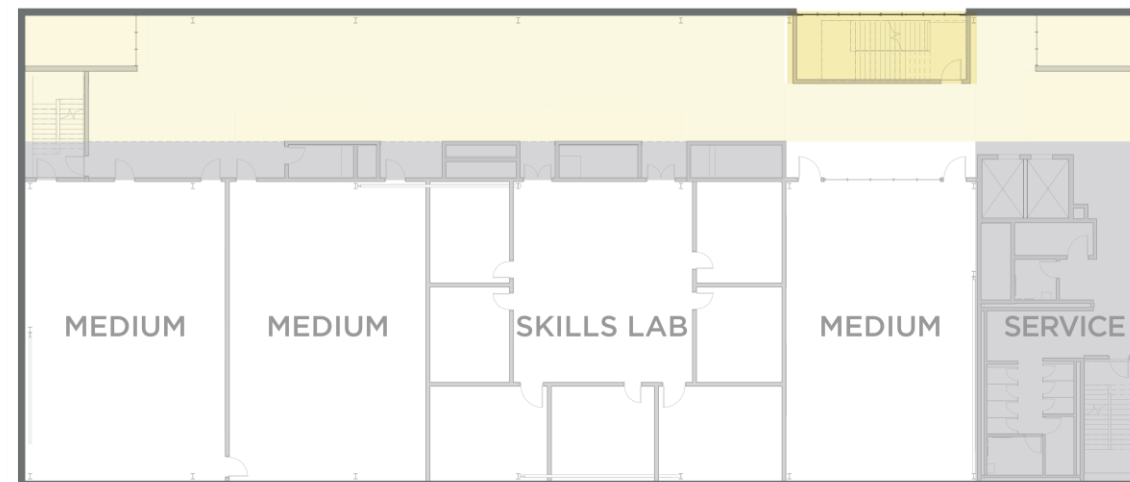
# program organization



⊗ Level 4

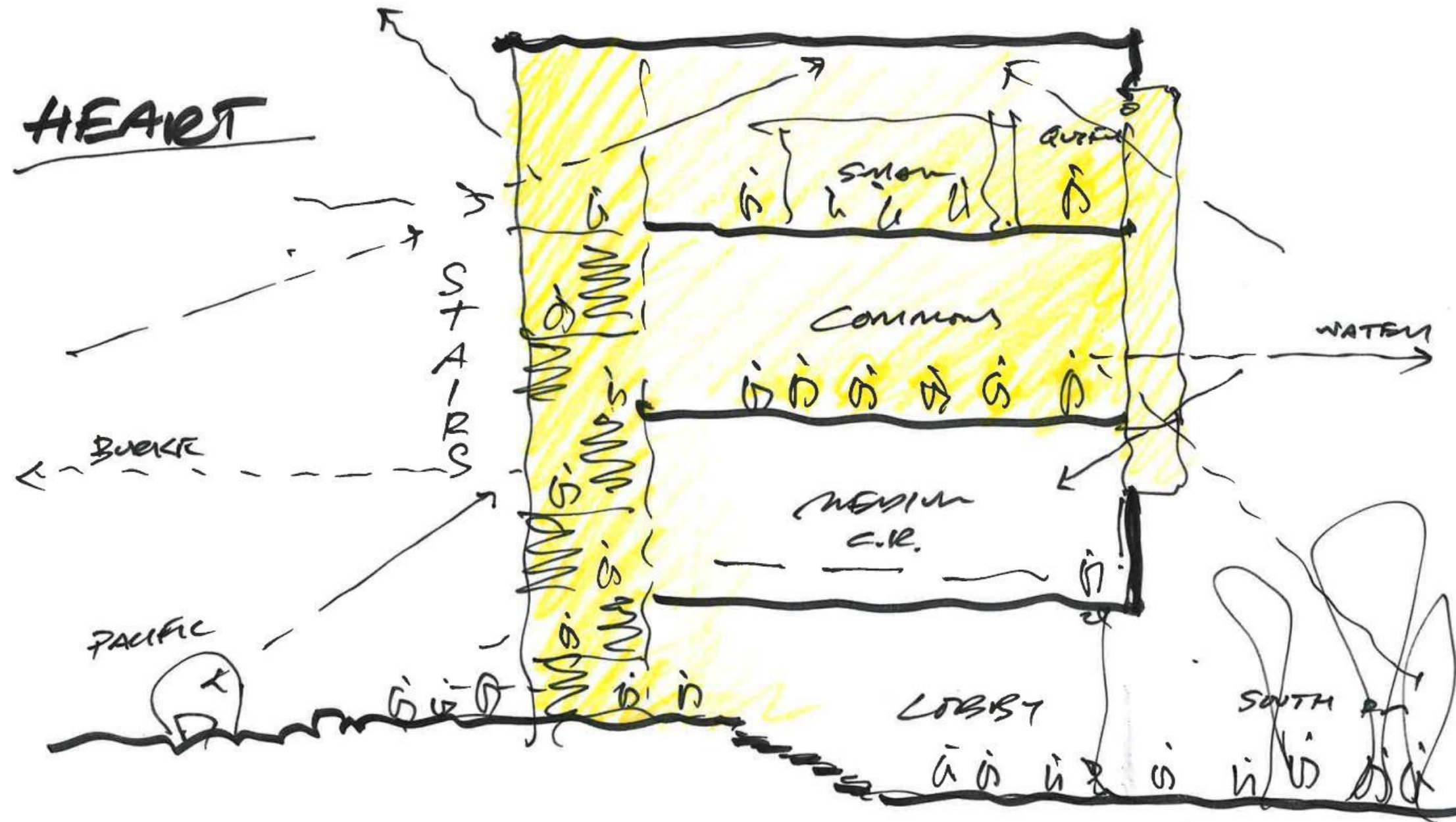


⊗ Level 3



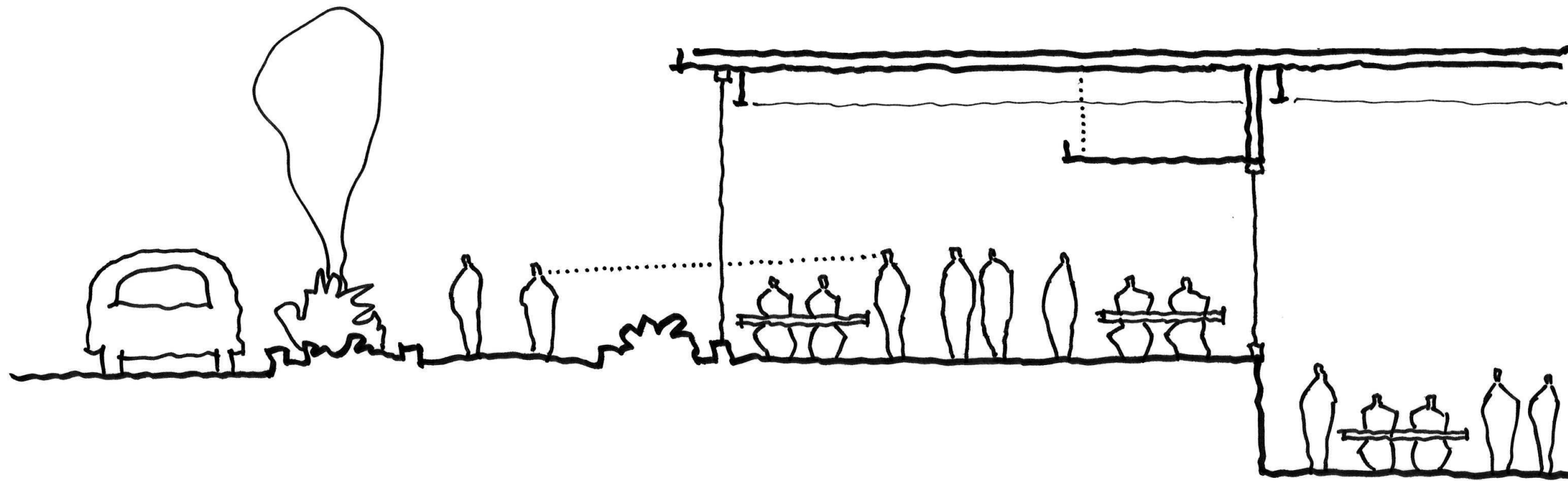
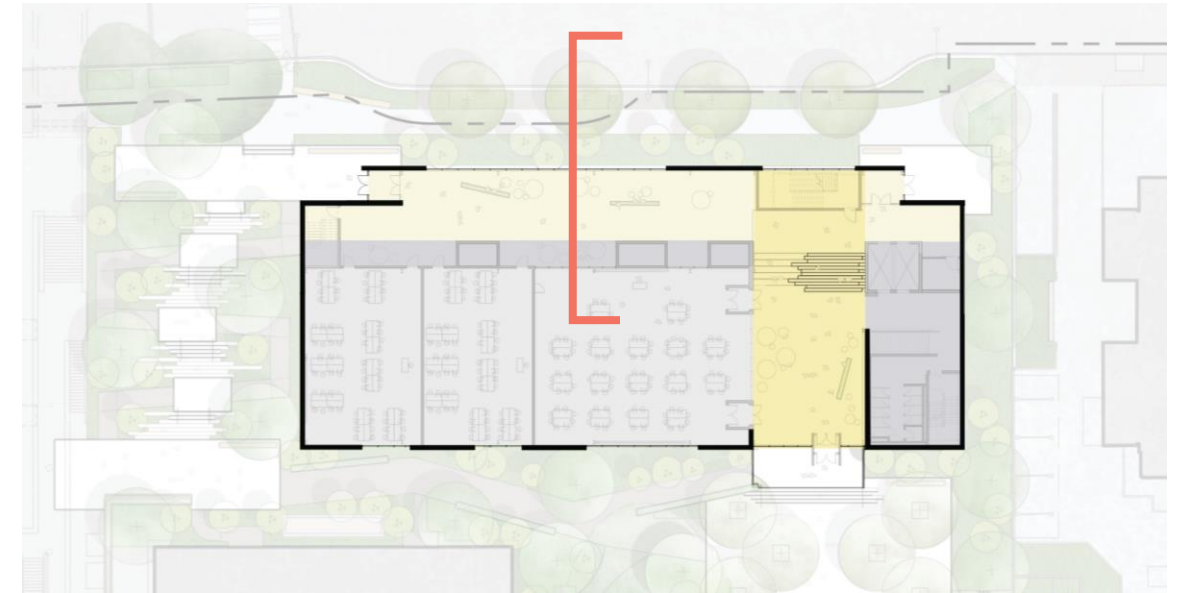
⊗ Level 2

# Heart

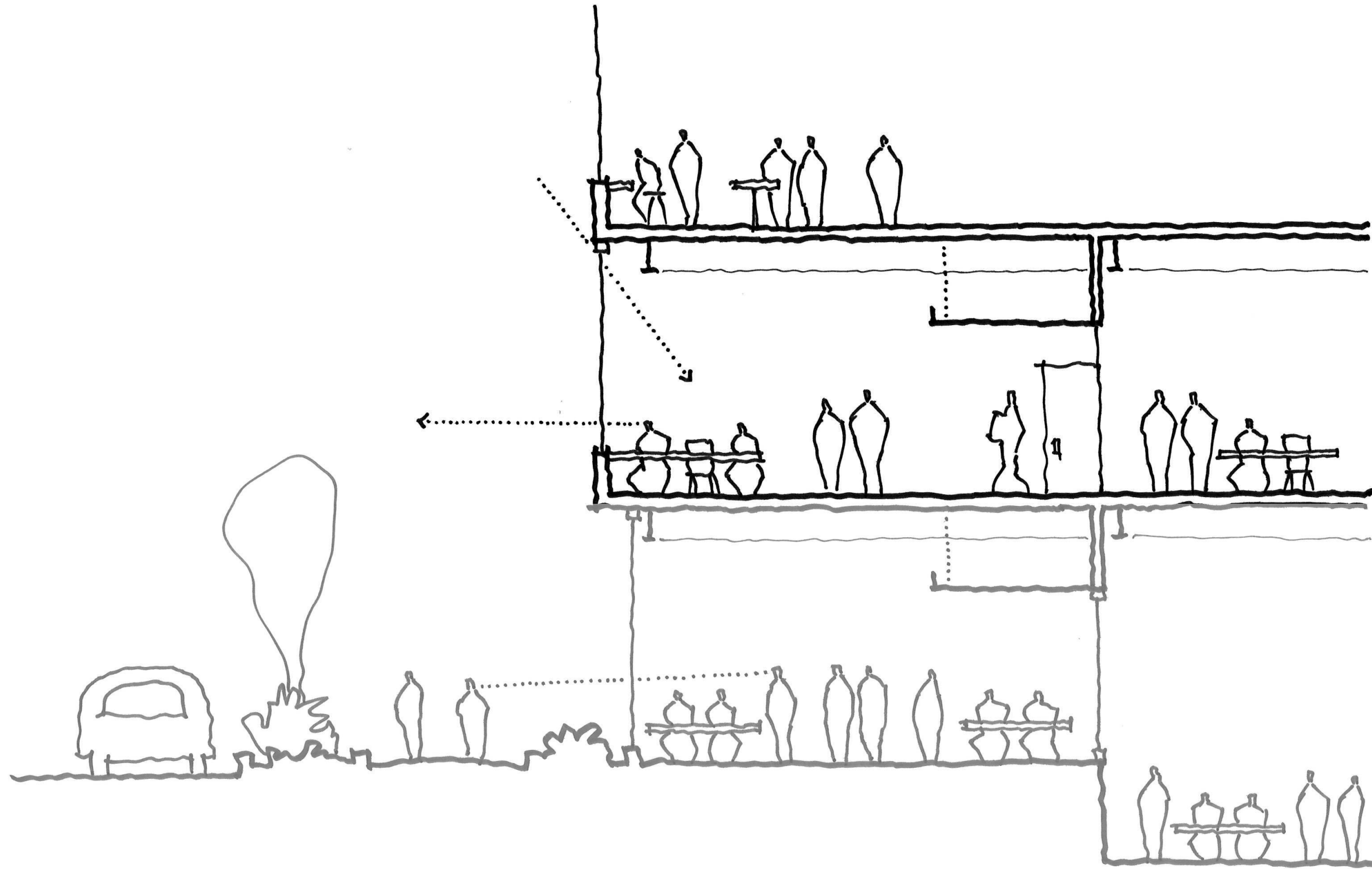




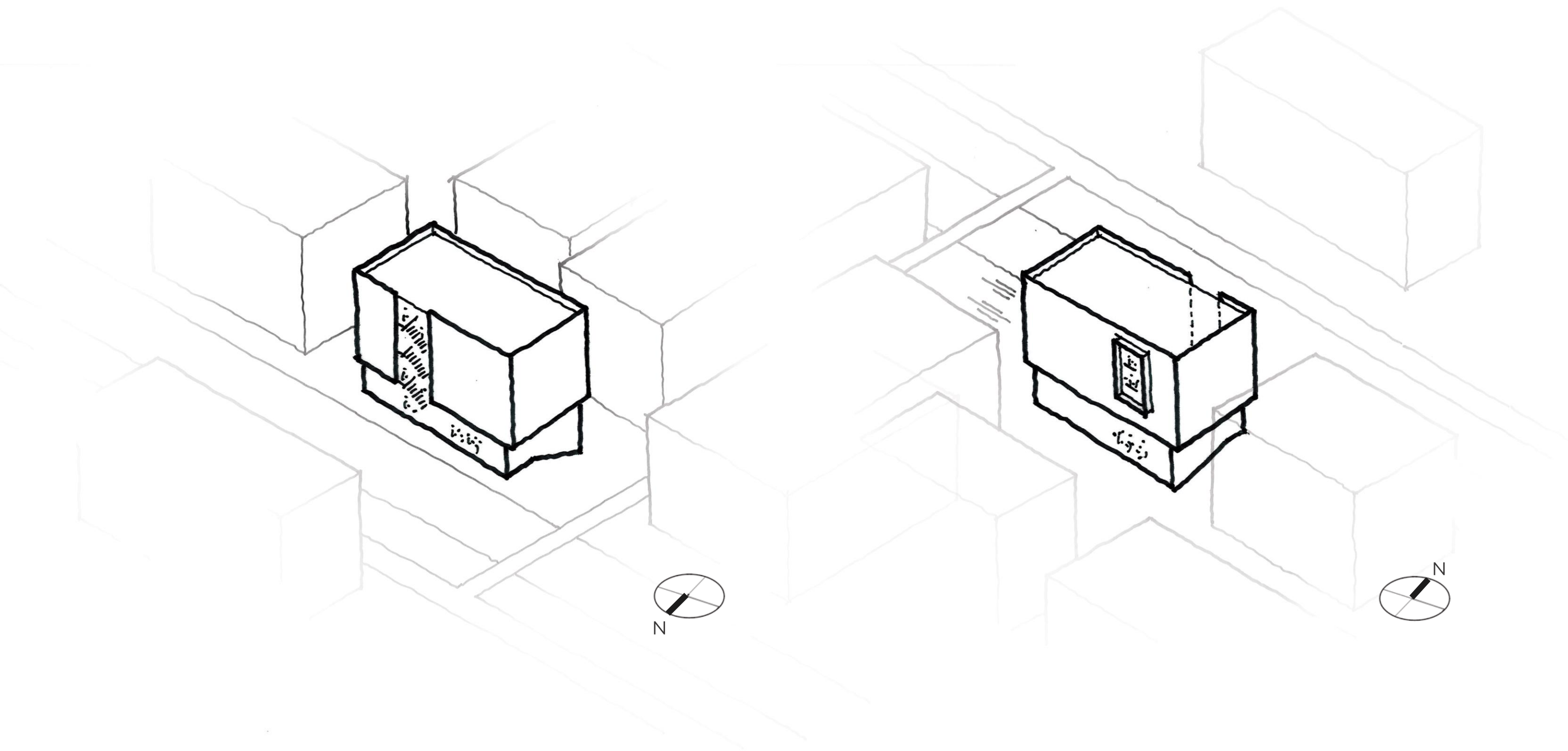
# Active Edge



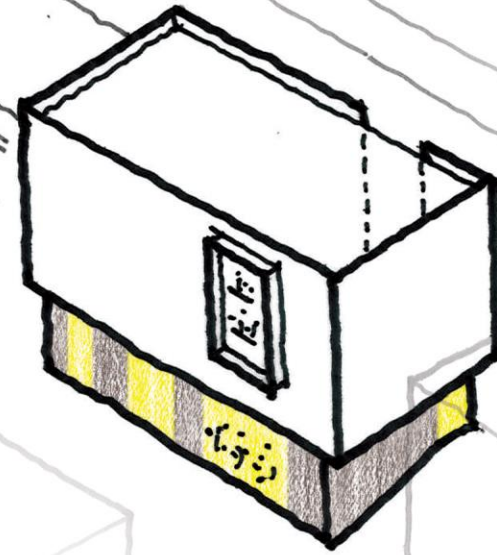
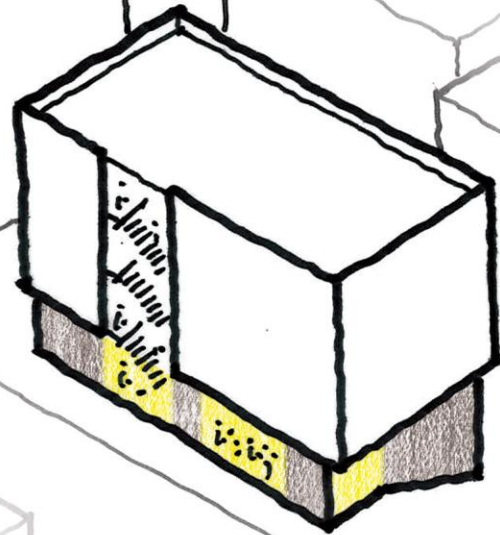
# Active Edge



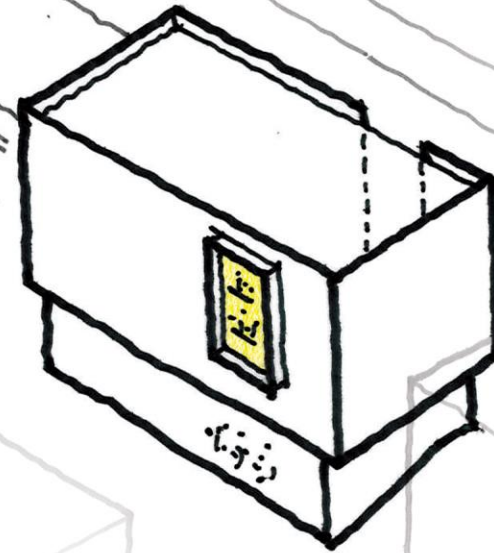
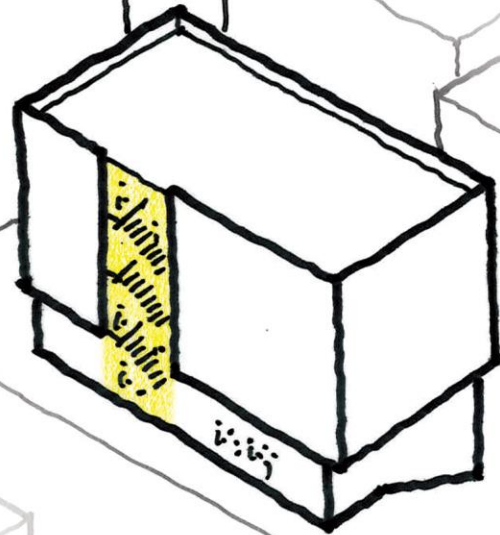
To recap...



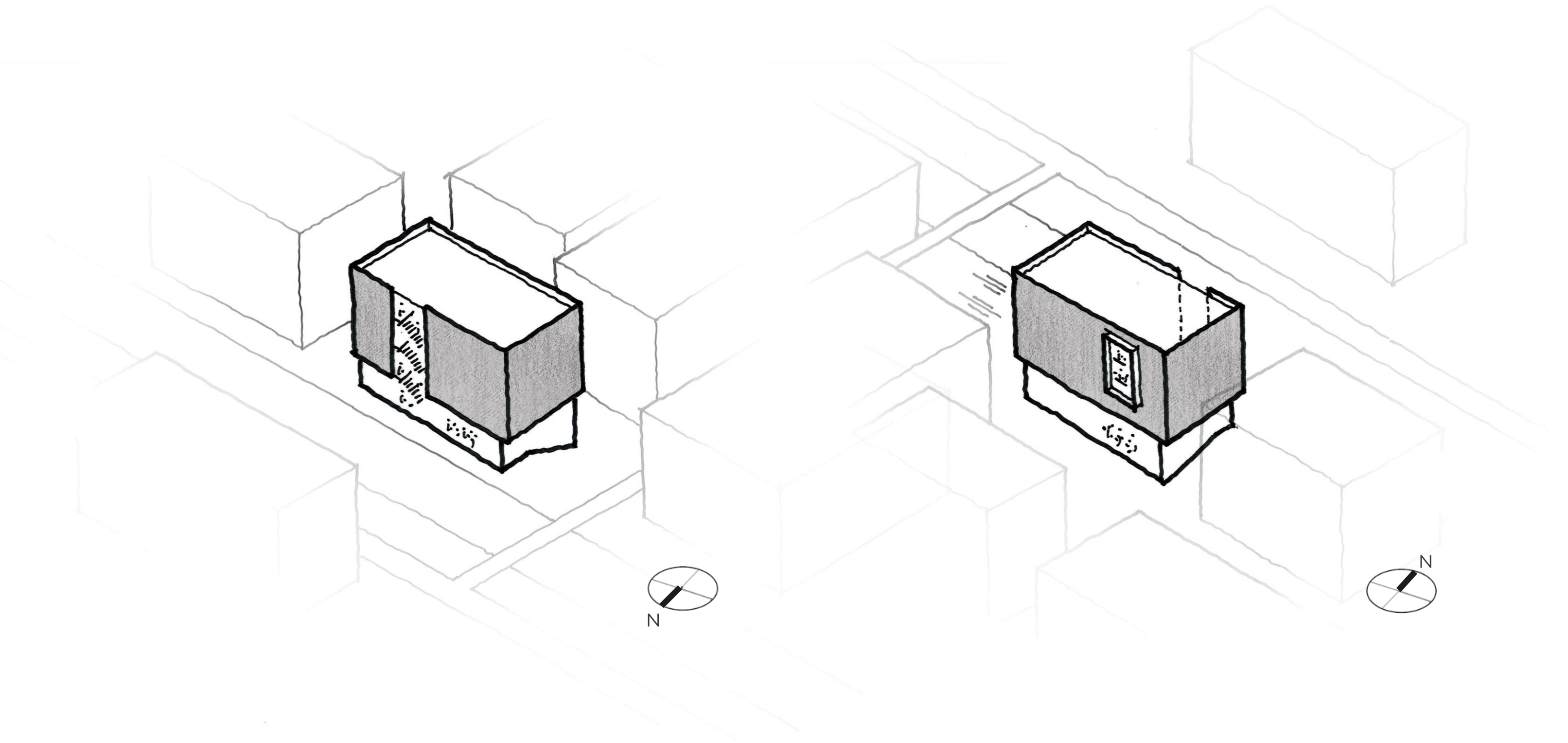
# Podium



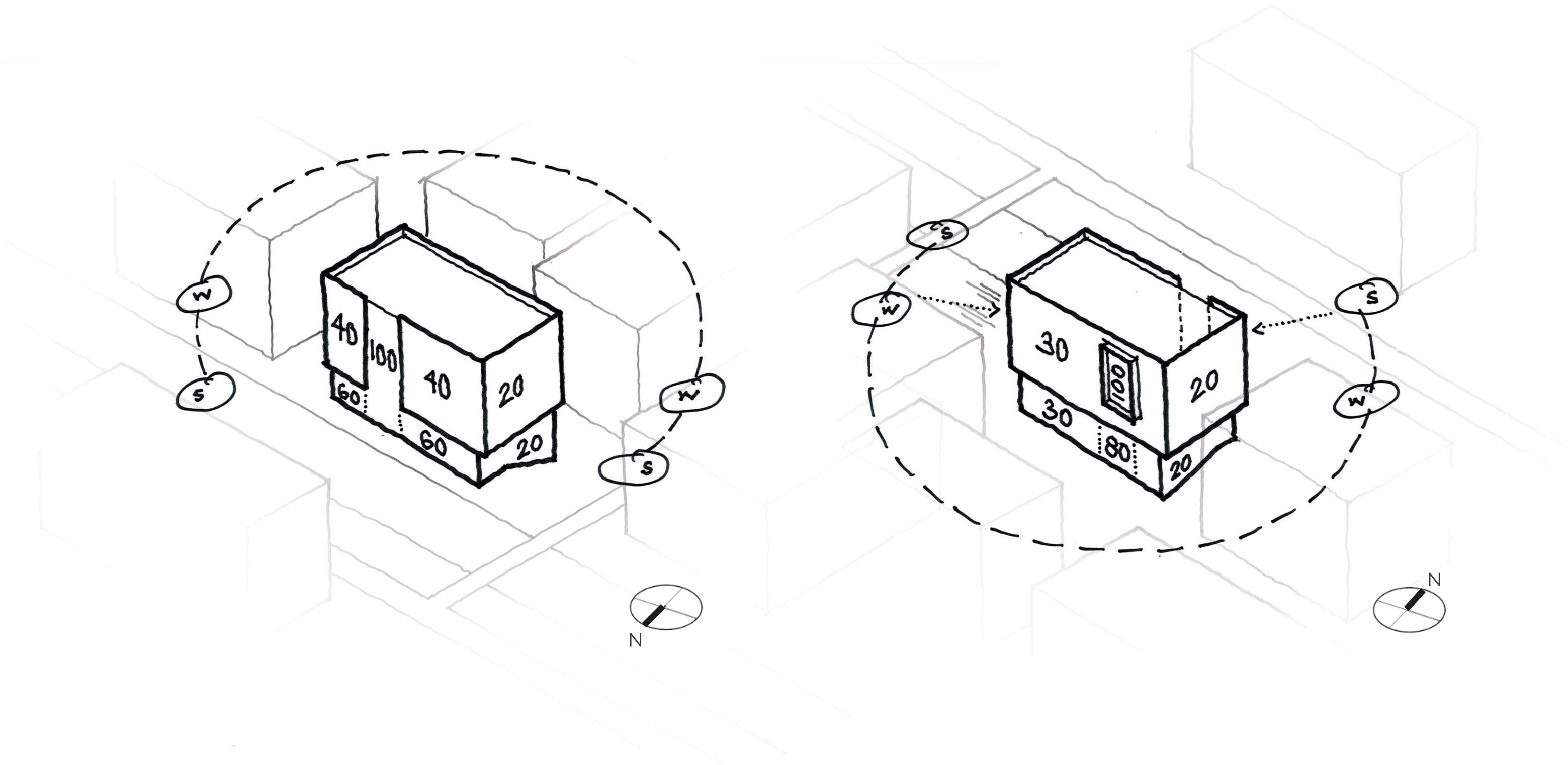
# Heart



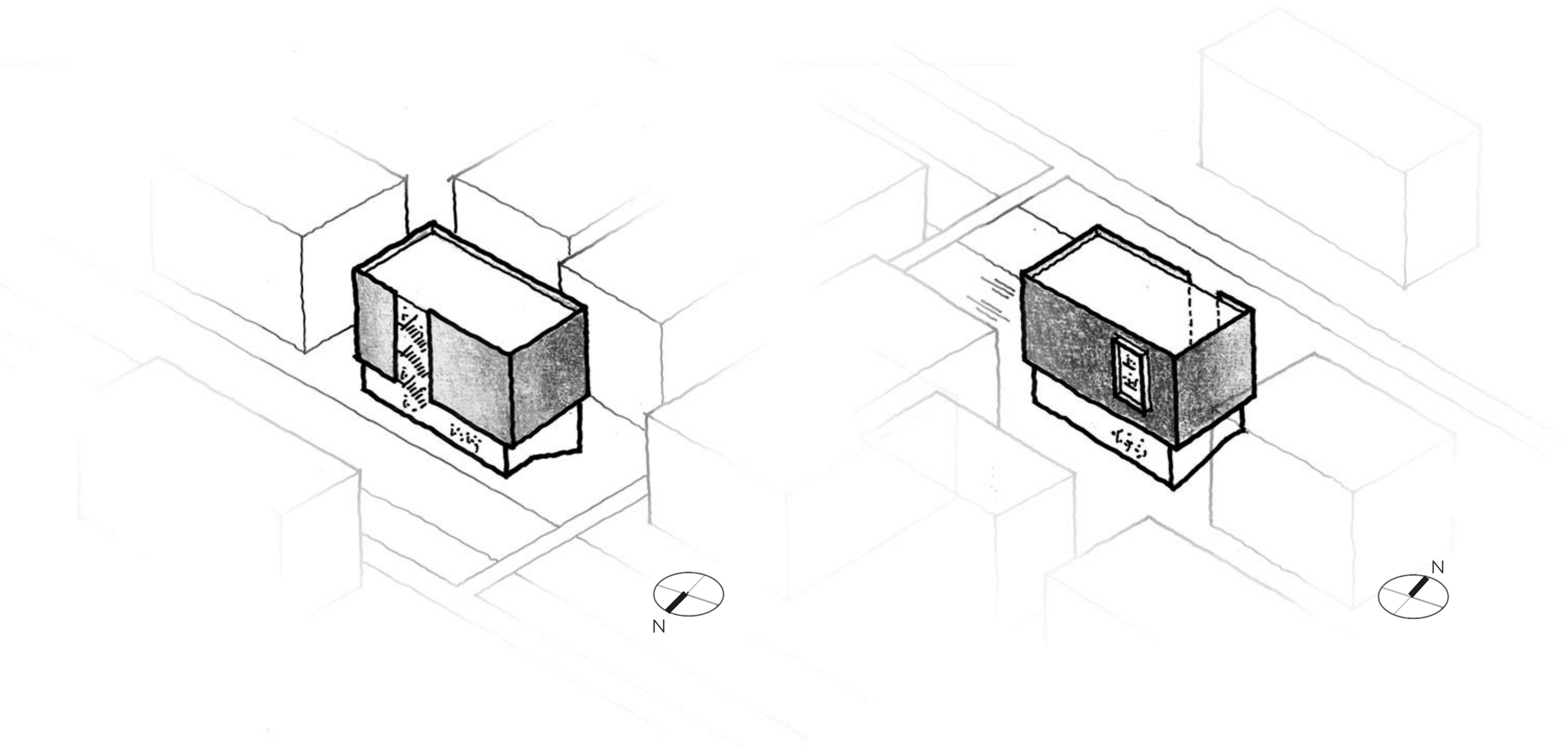
# Skin



# Skin - Environmental Response



# Skin - Gradient





# Culture of Care

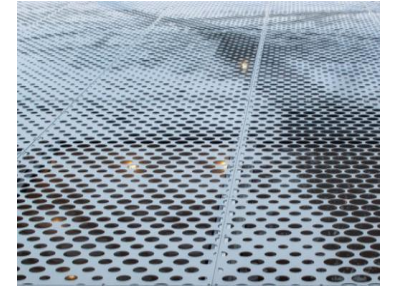
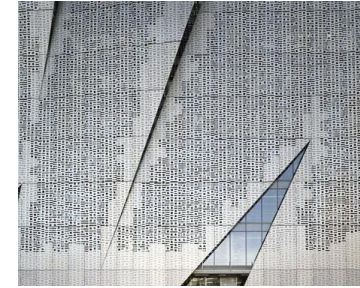
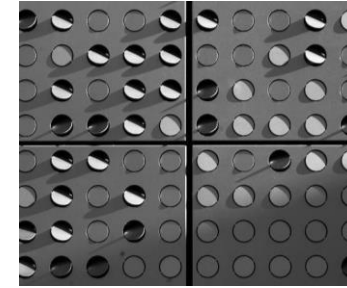
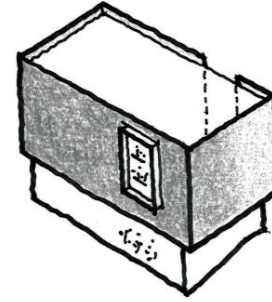
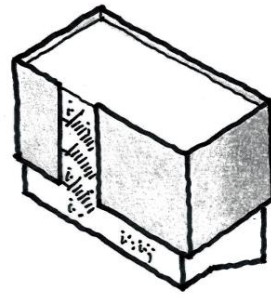
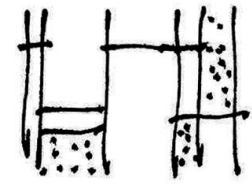


# Culture of Care

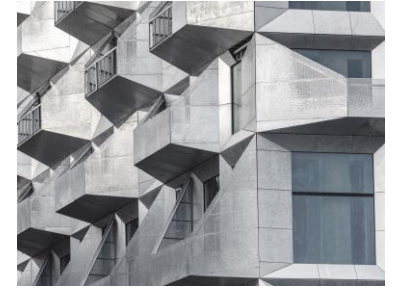
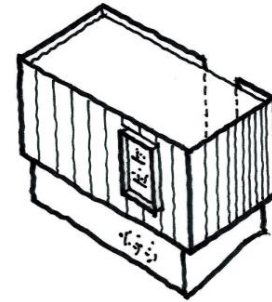
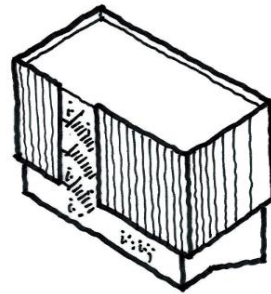
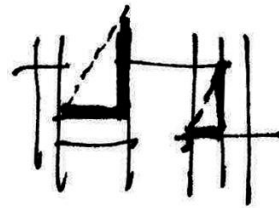


# How is the gradient expressed?

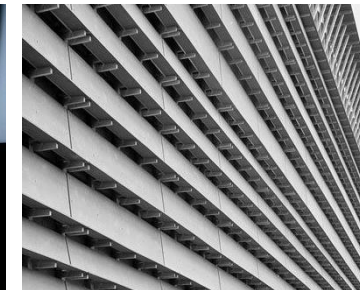
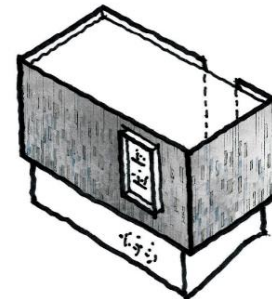
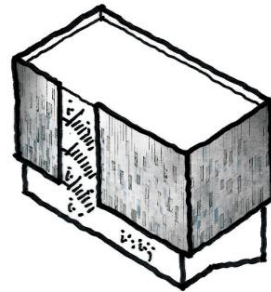
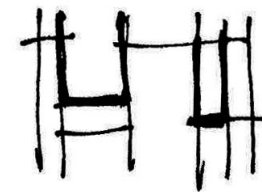
Perforate



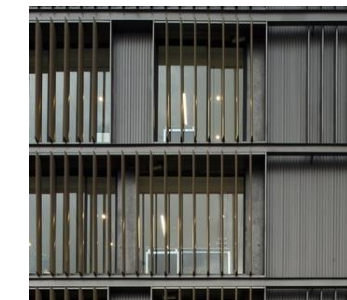
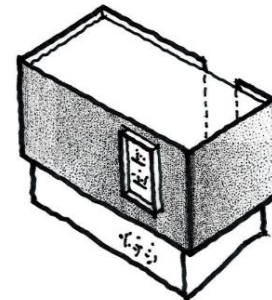
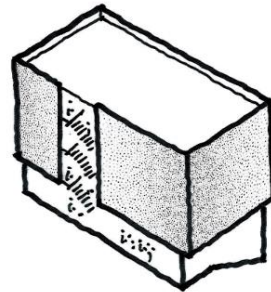
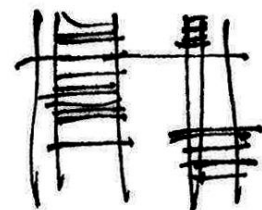
Fold



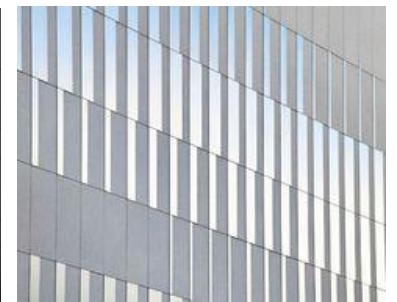
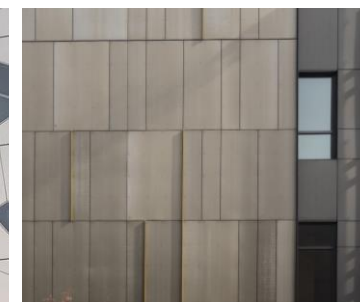
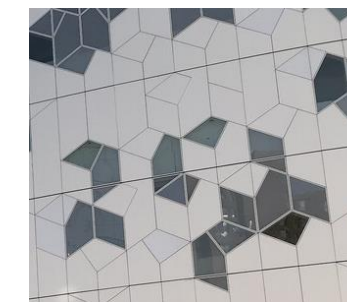
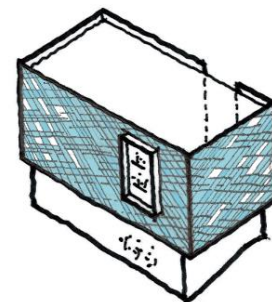
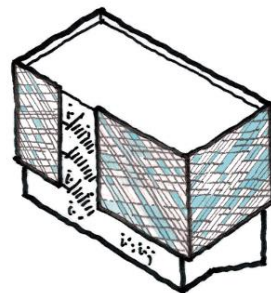
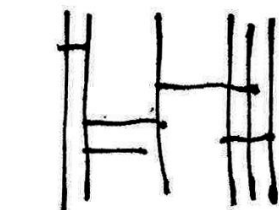
Shingle



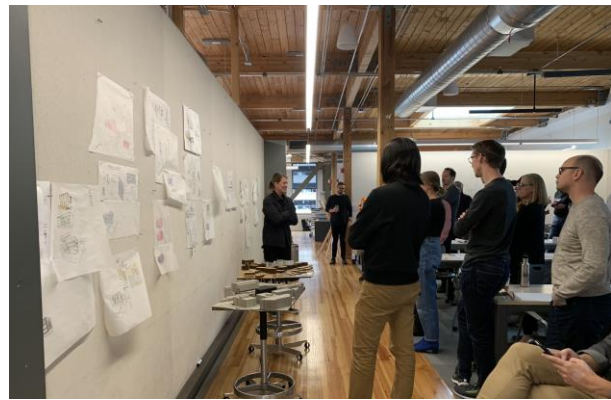
Layer



Pattern



# MH Design Panel



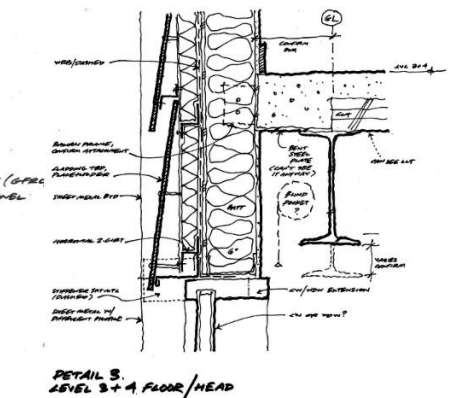
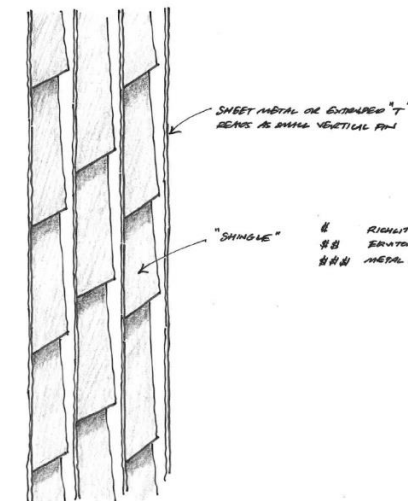
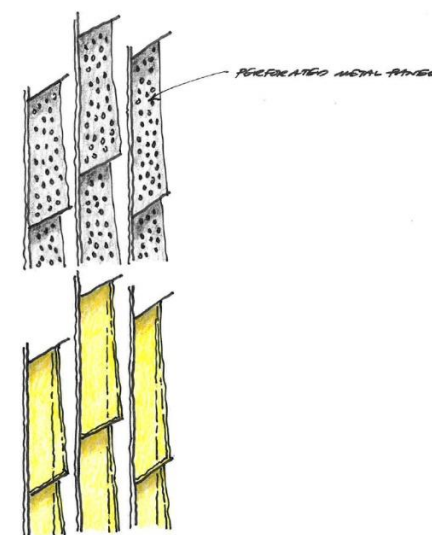
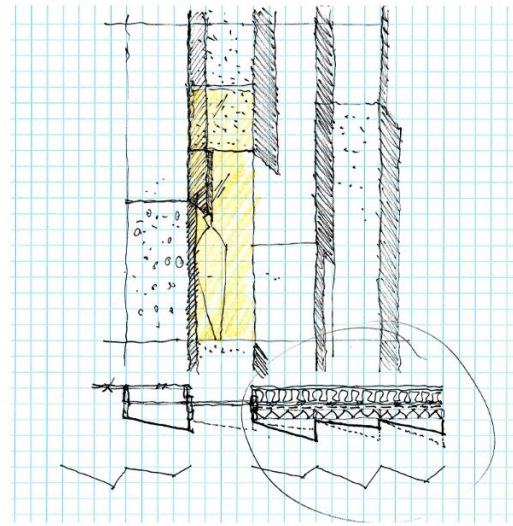
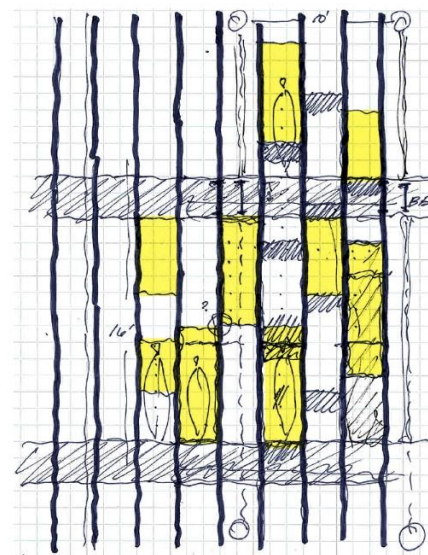
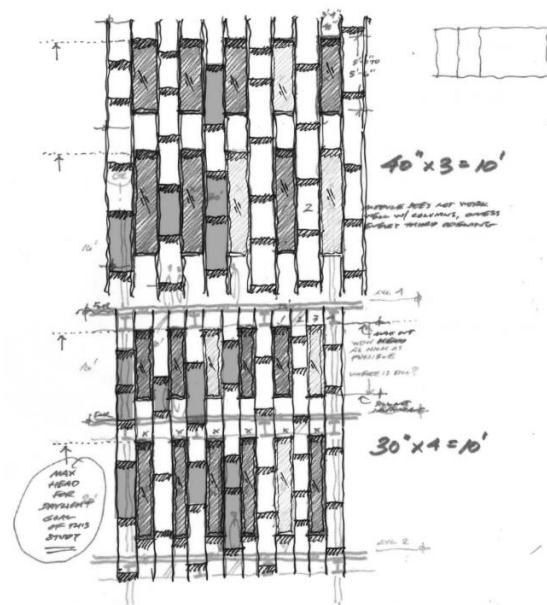
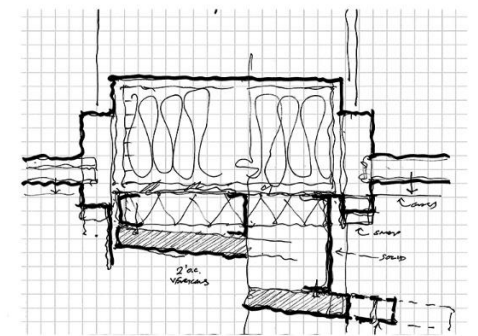
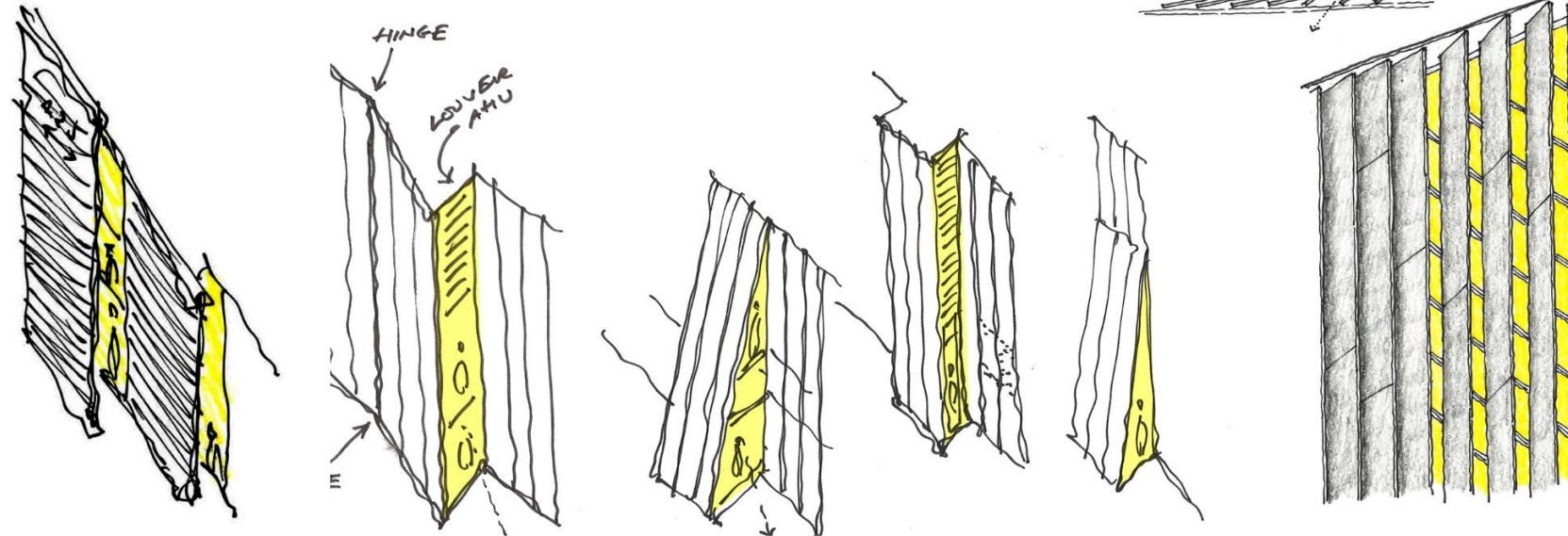
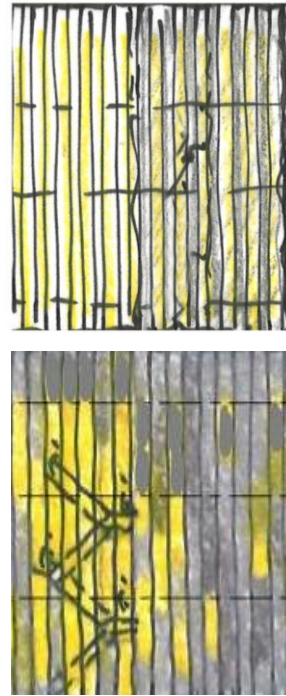
This block contains a collection of architectural sketches and diagrams for the MH Design Panel. The sketches include:

- PATTERN:** A diagram showing a grid with various shaded and unshaded squares, labeled "WEAVE" and "GRID".
- FRACIAL MODULE:** A sketch of a building facade with a grid pattern, labeled "FRACIAL MODULE".
- FABRIC TEXTILE:** A sketch of a building facade with a grid pattern, labeled "FABRIC TEXTILE".
- HEALTH SCIENCES EDUCATION BUILDING:** A series of sketches and sections for a building, including a "View at Northwest Entry", "View from the pedestrian bridge", and a section labeled "CONTINUOUS INSUL".
- Material and Detail Studies:** Various sketches showing material textures, panel arrangements, and details like "RANDOM PANEL SIZE", "RANDOM HEIGHT", and "RANDOM WIDTH".
- Sectional Views:** Several cross-sections of the building, showing internal spaces and structural elements.
- Plan Views:** A few plan views showing the layout of the building and its relationship to the surrounding environment.

# Explorations

campus scale

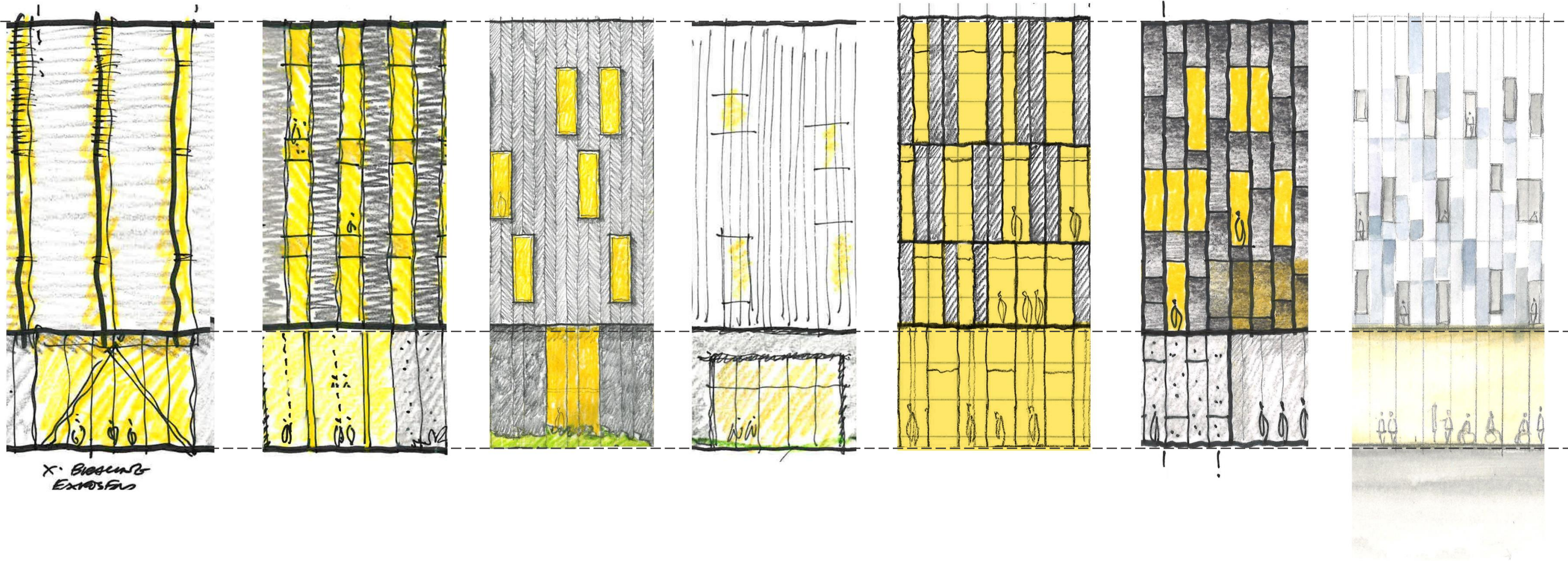
human scale



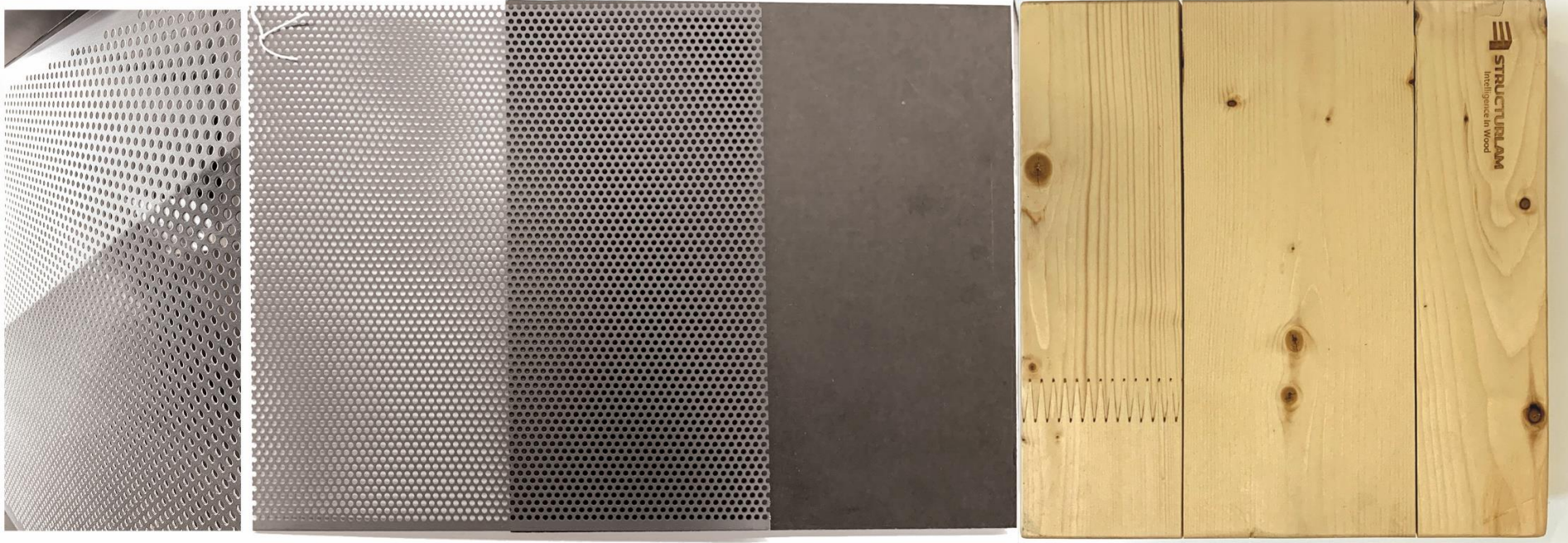
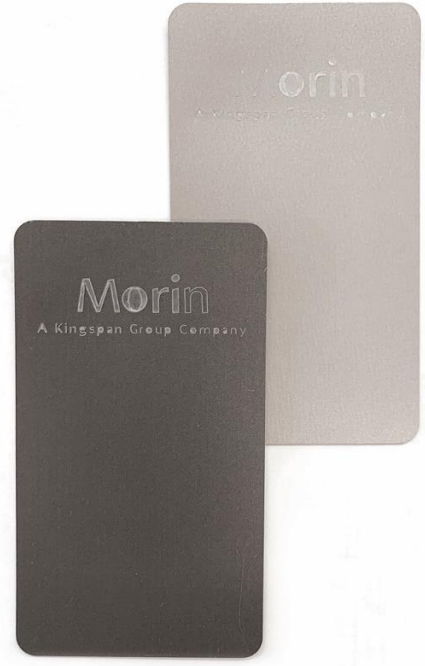
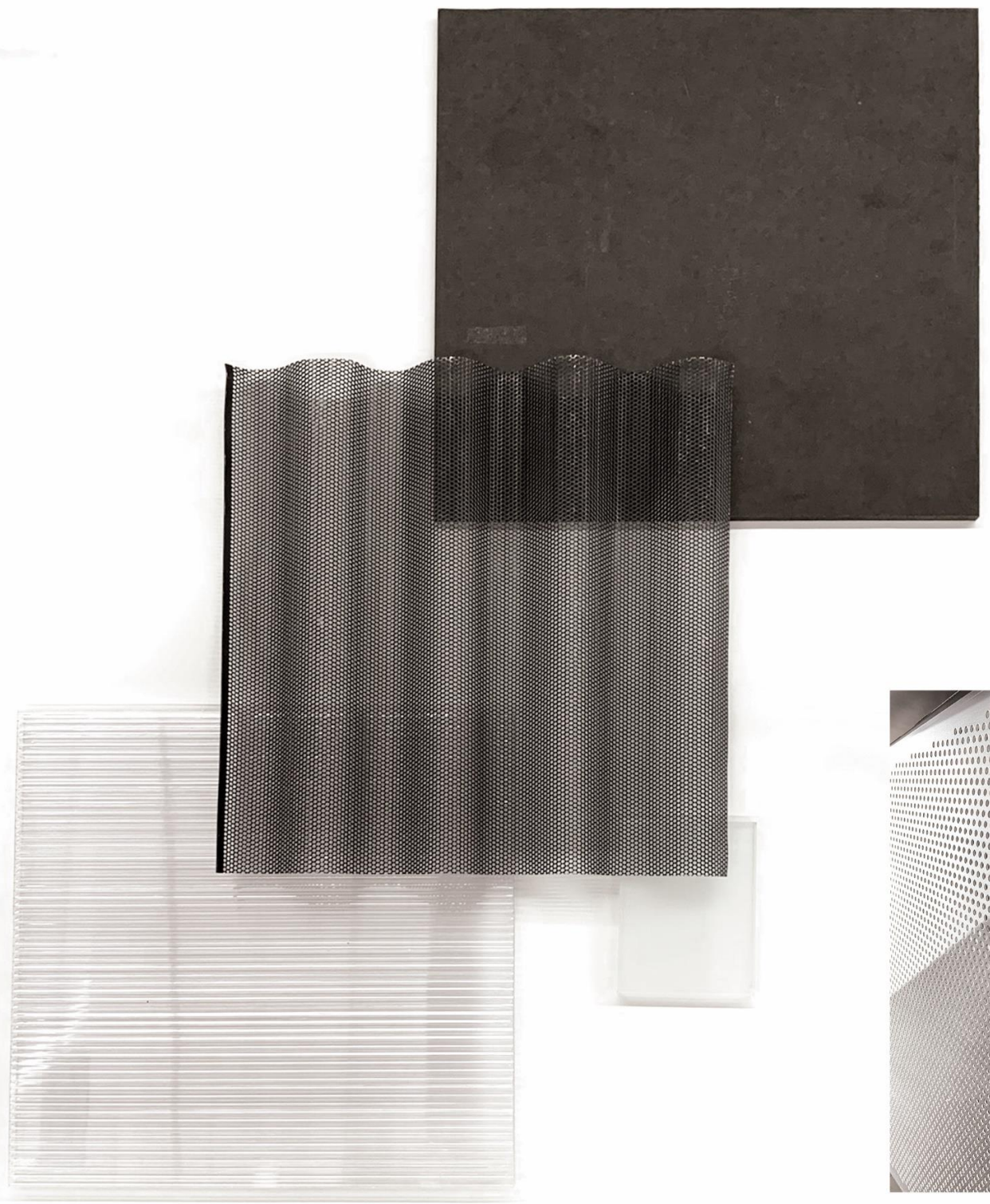
# Explorations

large scale

small scale



# Materials



the culture of care [“ahhhhhh...” ]





## **What did we convey...**

- **Confirm concept design still clear/strong**
- **Verify approach to west slope + south room:  
(character, relationship / connection to Main  
Campus + Master Plan)**
- **Verify conceptual approach to building  
expression: (podium, heart + gradient skin)**

# Topics for January

## Architecture

- **Refined approach to envelope (materiality + expression)**
- **Conceptual development of interior spaces**

## Landscape

- **Streetscape and pull-out**
- **Bike circulation and parking**
- **Materials and furnishings**
- **Planting**