


# Schematic Design Planning and Design Presentation

27 March 2019

# Agenda

## Interdisciplinary research

- Thematically driven
- Community spaces, neighborhoods & main street

## Organizing Principles

- High performance space – new addition
- Creating an eco-system that supports cross fertilization communication & collaborations
- Departmental office suites
- Key Circulation opportunities

## Campus Planning & Architectural Expression

- Campus connection & Plan Big
- Inside-out architectural expression

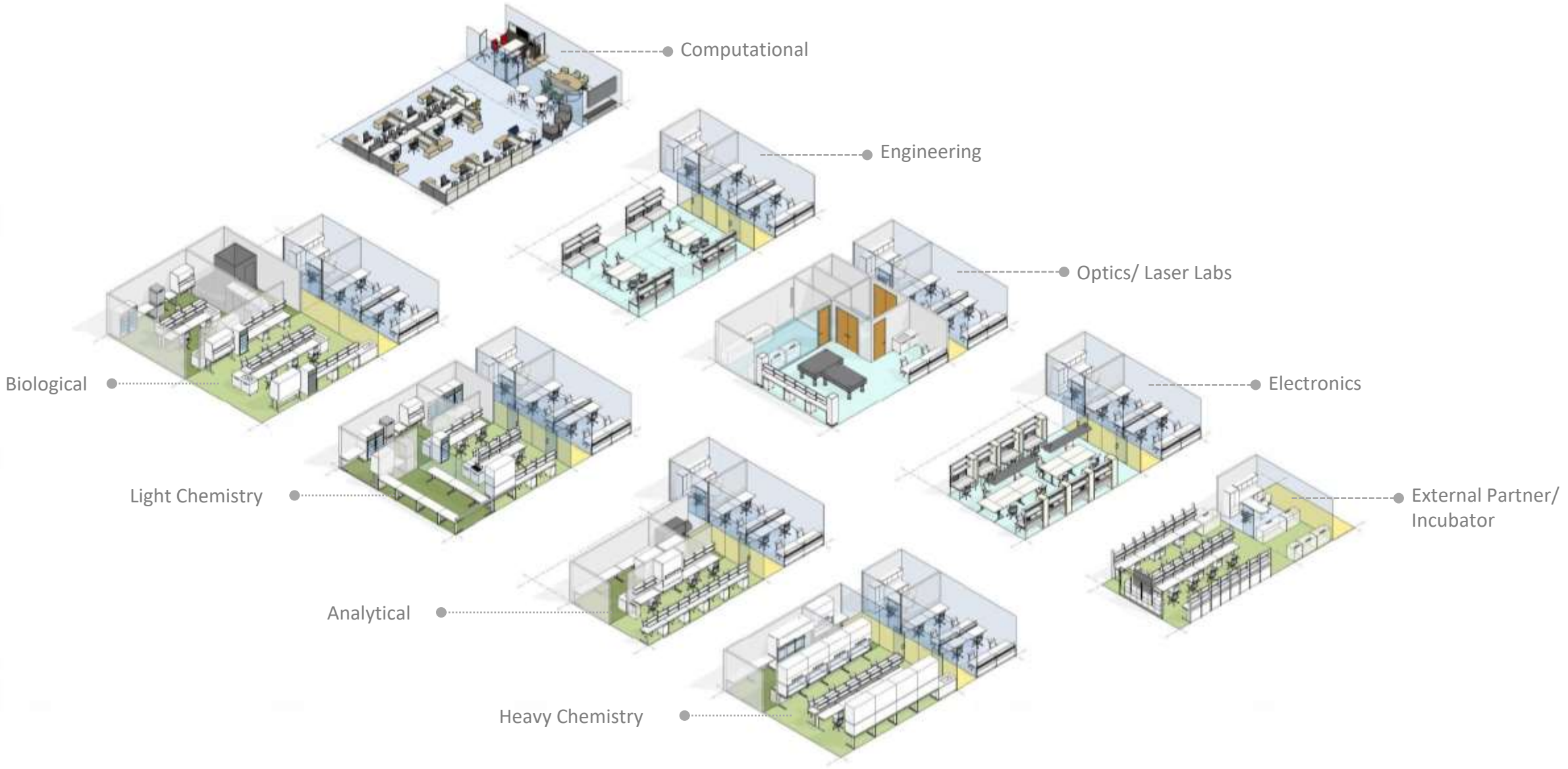
## Budget & Schedule

## Next Steps…

# Organizing Principles

## specialized v. adaptable platforms

# LAB TYPOLOGIES



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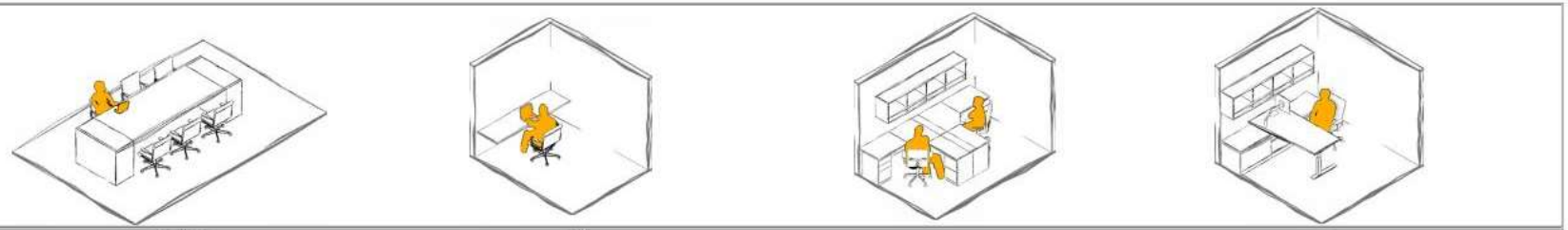
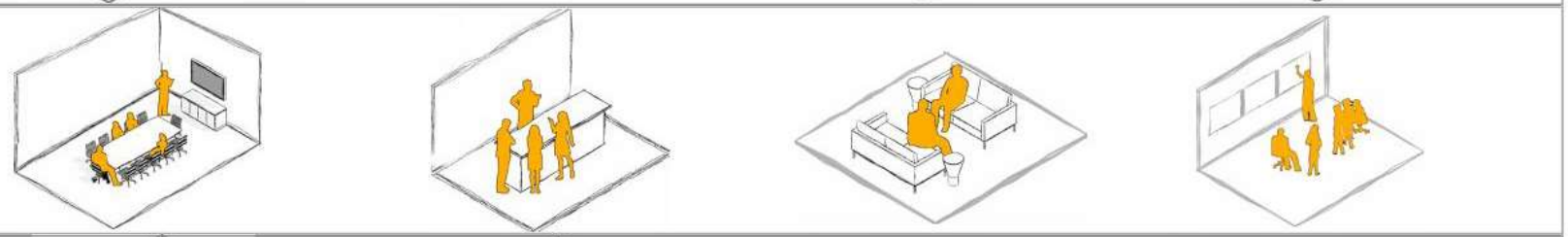
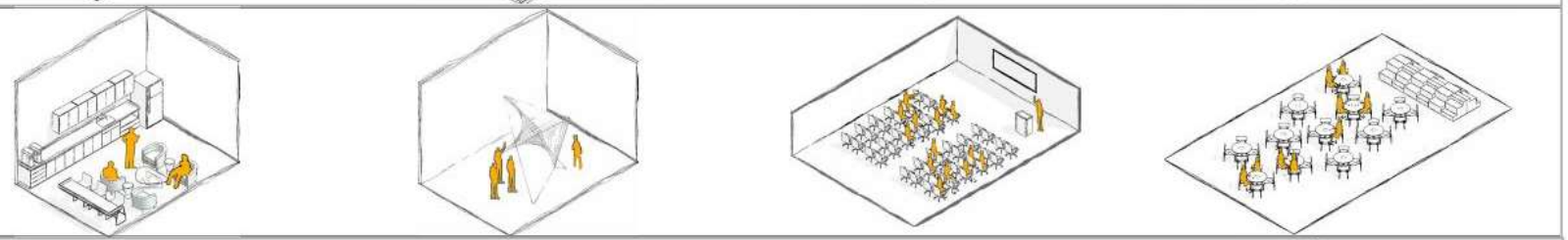
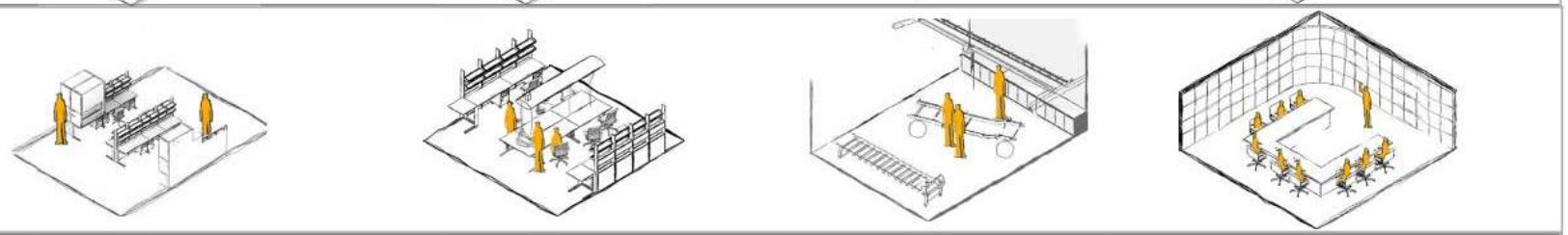
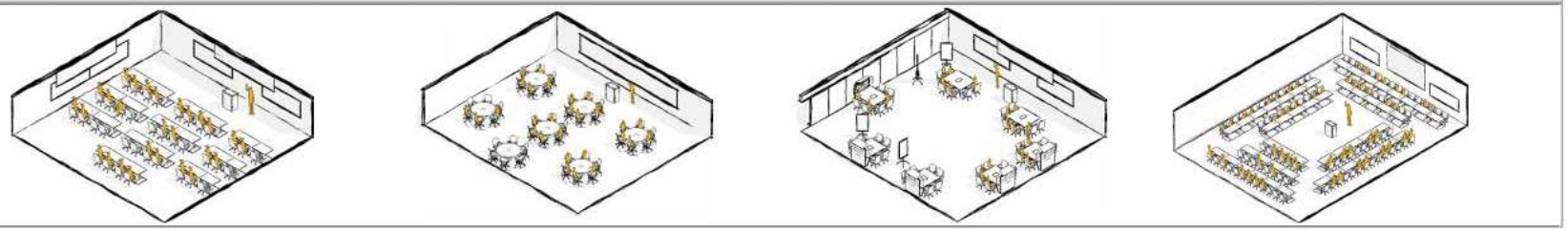
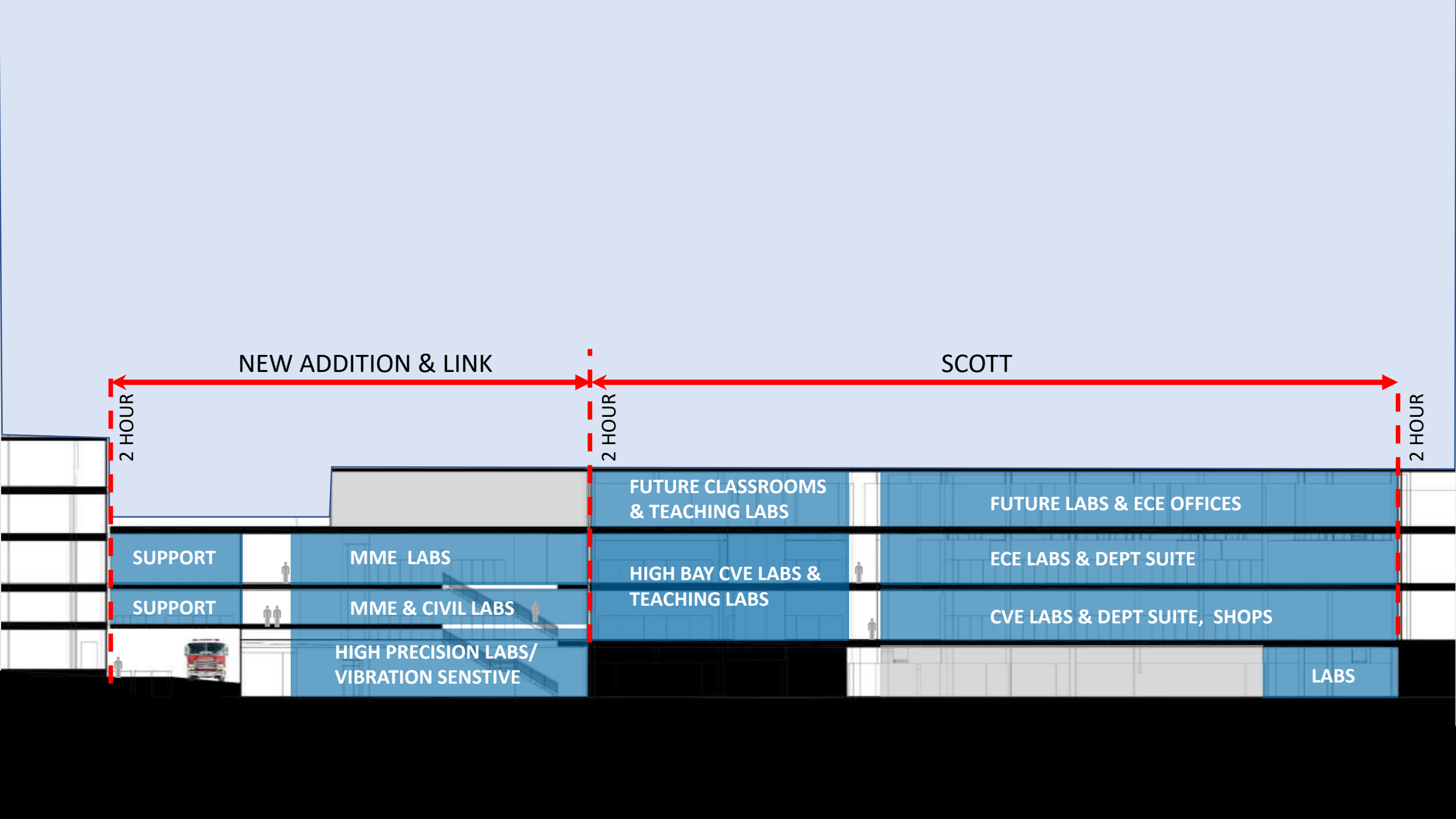
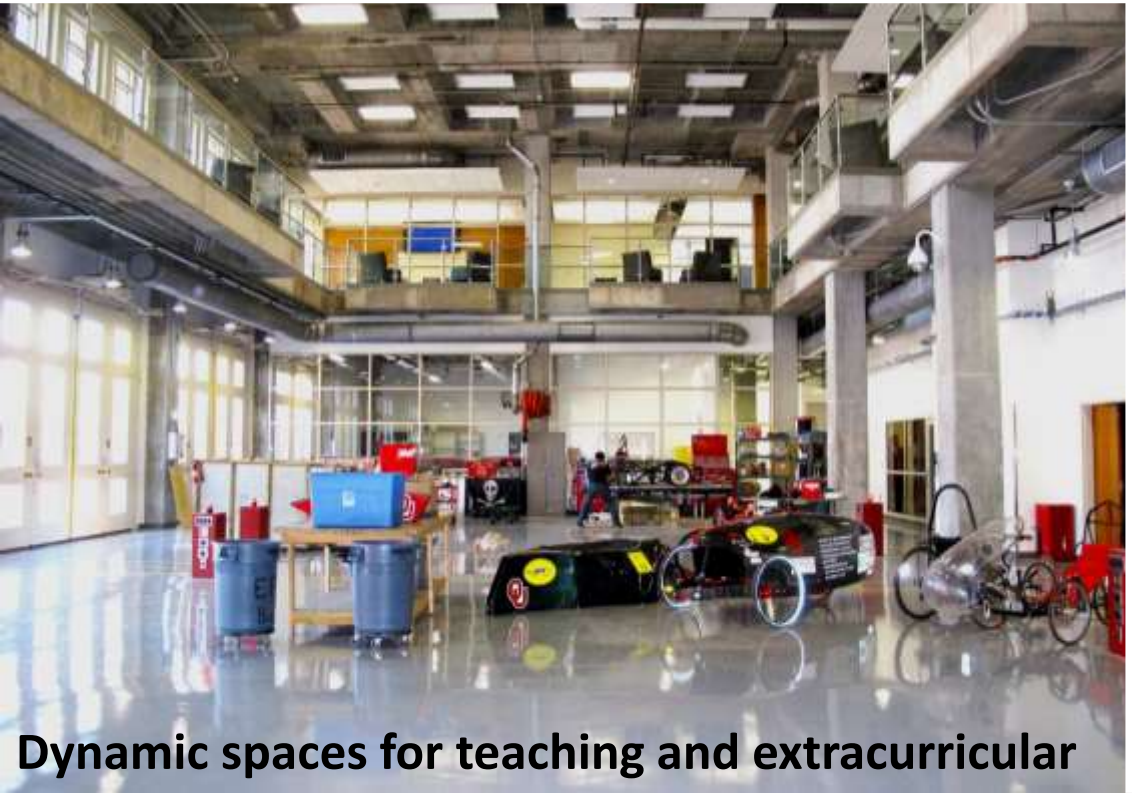
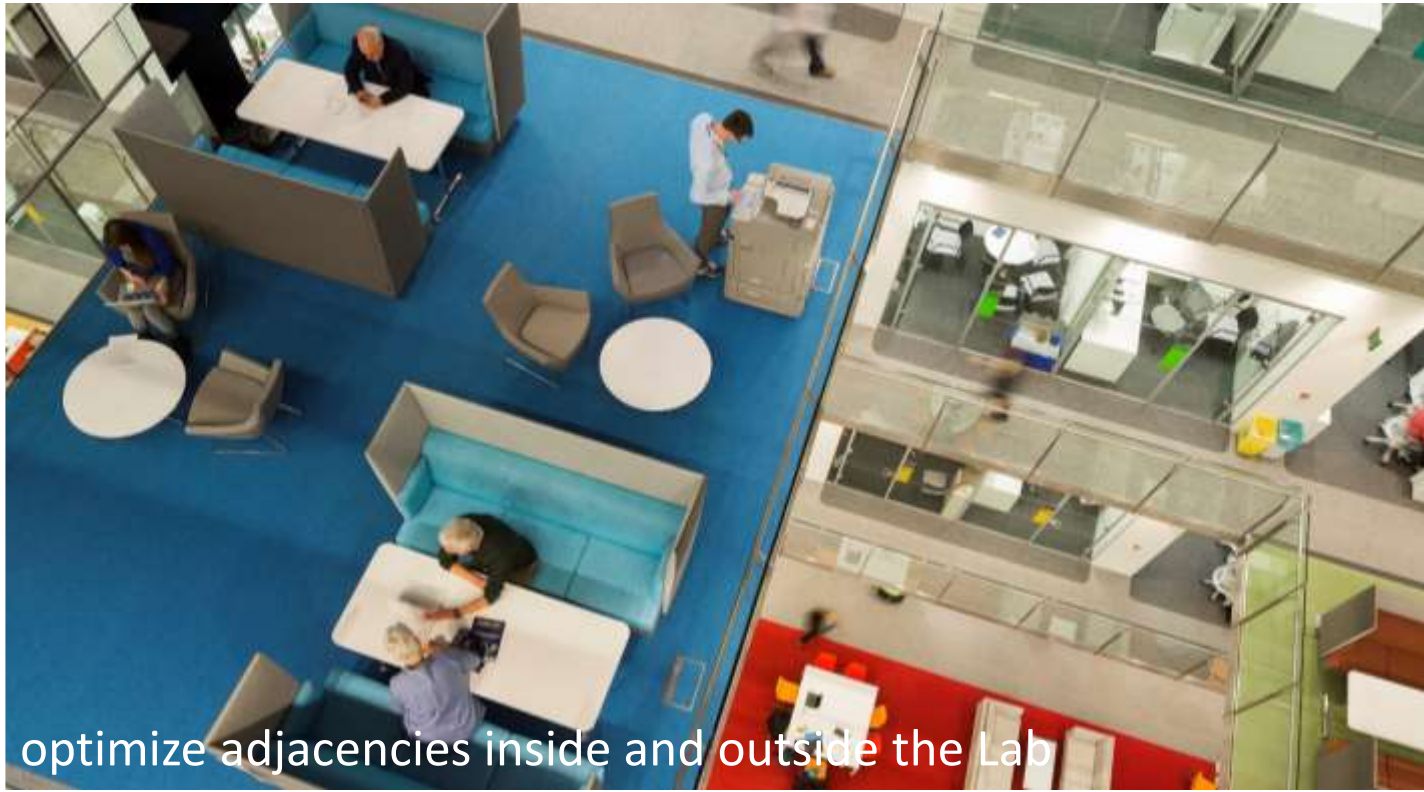
| AREAS TO CONCENTRATE |  |
| AREAS TO COLLABORATE |  |
| AREAS TO INTERACT |  |
| AREAS TO EXPERIMENT |  |
| AREAS TO LEARN |  |


NEW ADDITION & LINK
SCOTT
2 HOUR
2 HOUR
2 HOUR
SUPPORT
SUPPORT
MME LABS
MME & CIVIL LABS
HIGH PRECISION LABS/
VIBRATION SENSTIVE
FUTURE CLASSROOMS
& TEACHING LABS
HIGH BAY CVE LABS &
TEACHING LABS
FUTURE LABS & ECE OFFICES
ECE LABS & DEPT SUITE
CVE LABS & DEPT SUITE, SHOPS
LABS


Technology rich studios


celebrate engineering sciences


Dynamic spaces for teaching and extracurricular

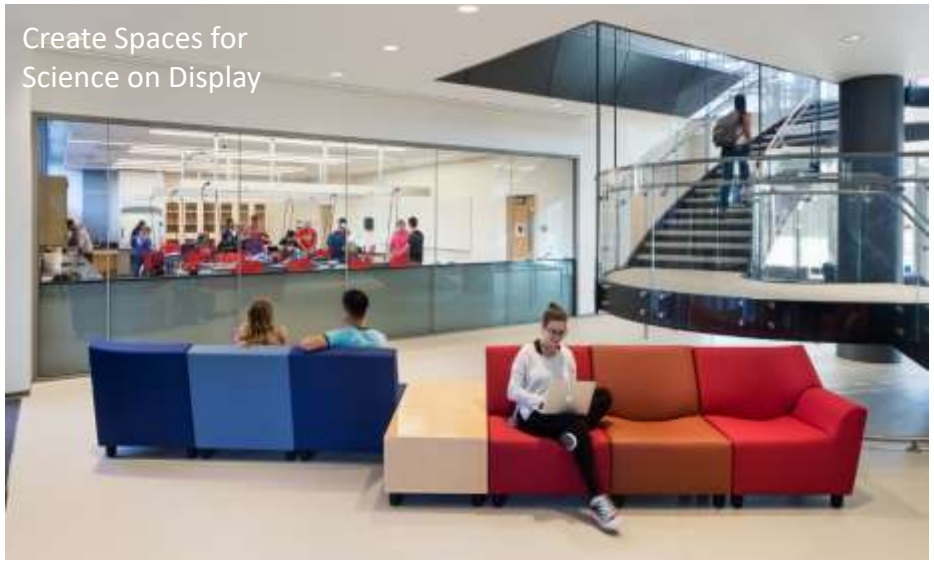

optimize adjacencies inside and outside the Lab


Create an Identity


Building as Learning Lab


Create clear circulation and discovery path
piso
1

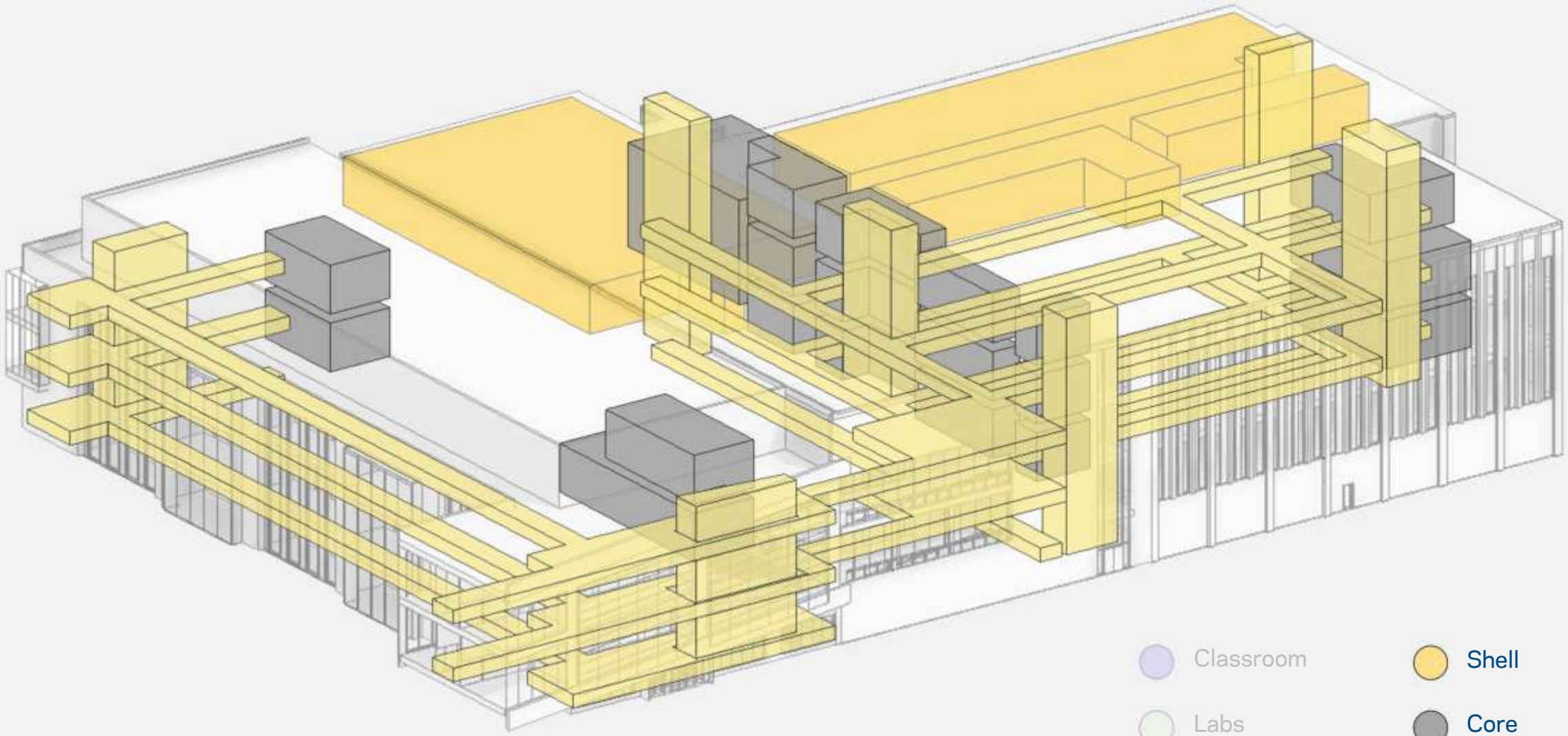

Create Connectivity Horizontally
4


Create Spaces for Science on Display

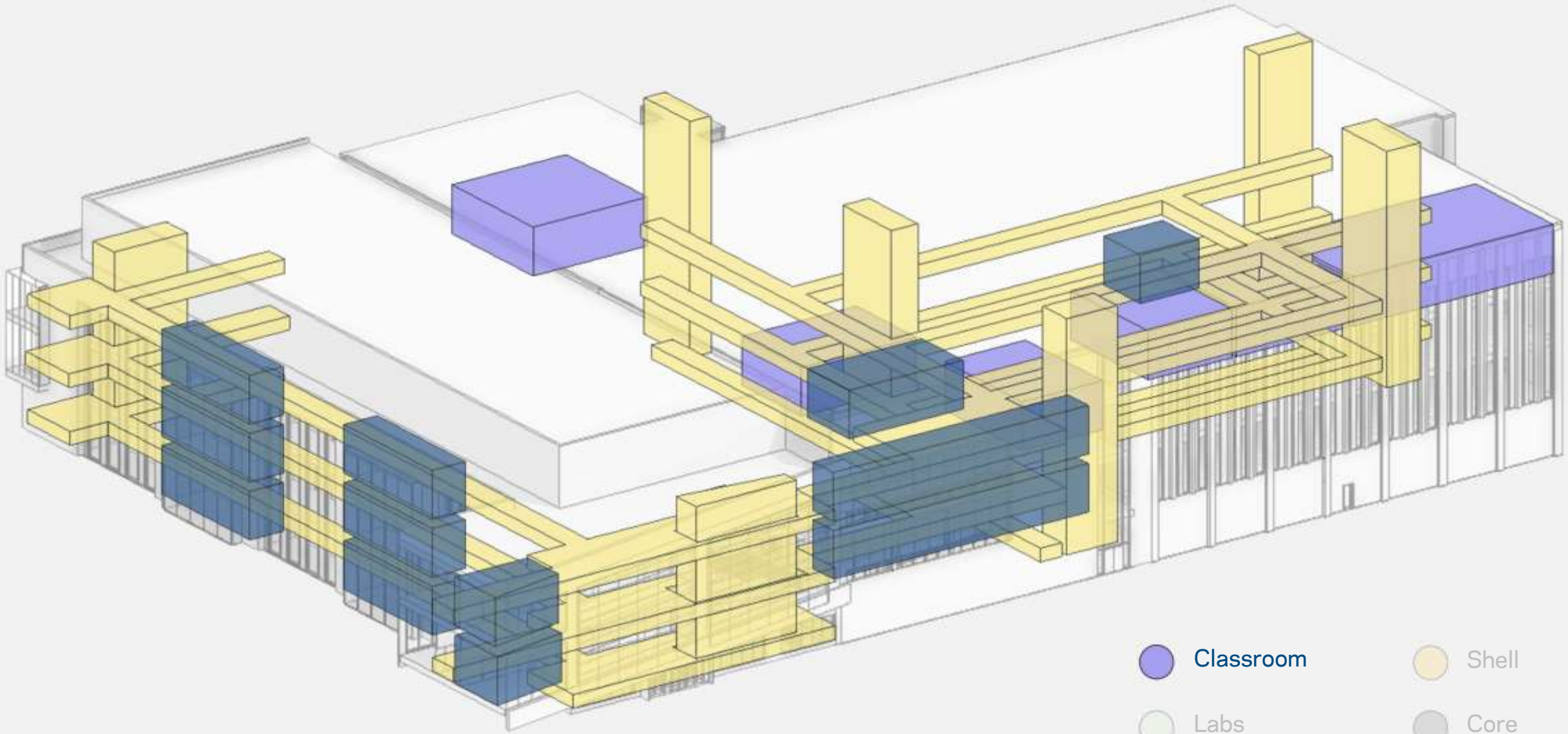

Create Connectivity Vertically


Create areas for focus


Create areas for Collaboration




# Organizing Principles : *Massing*

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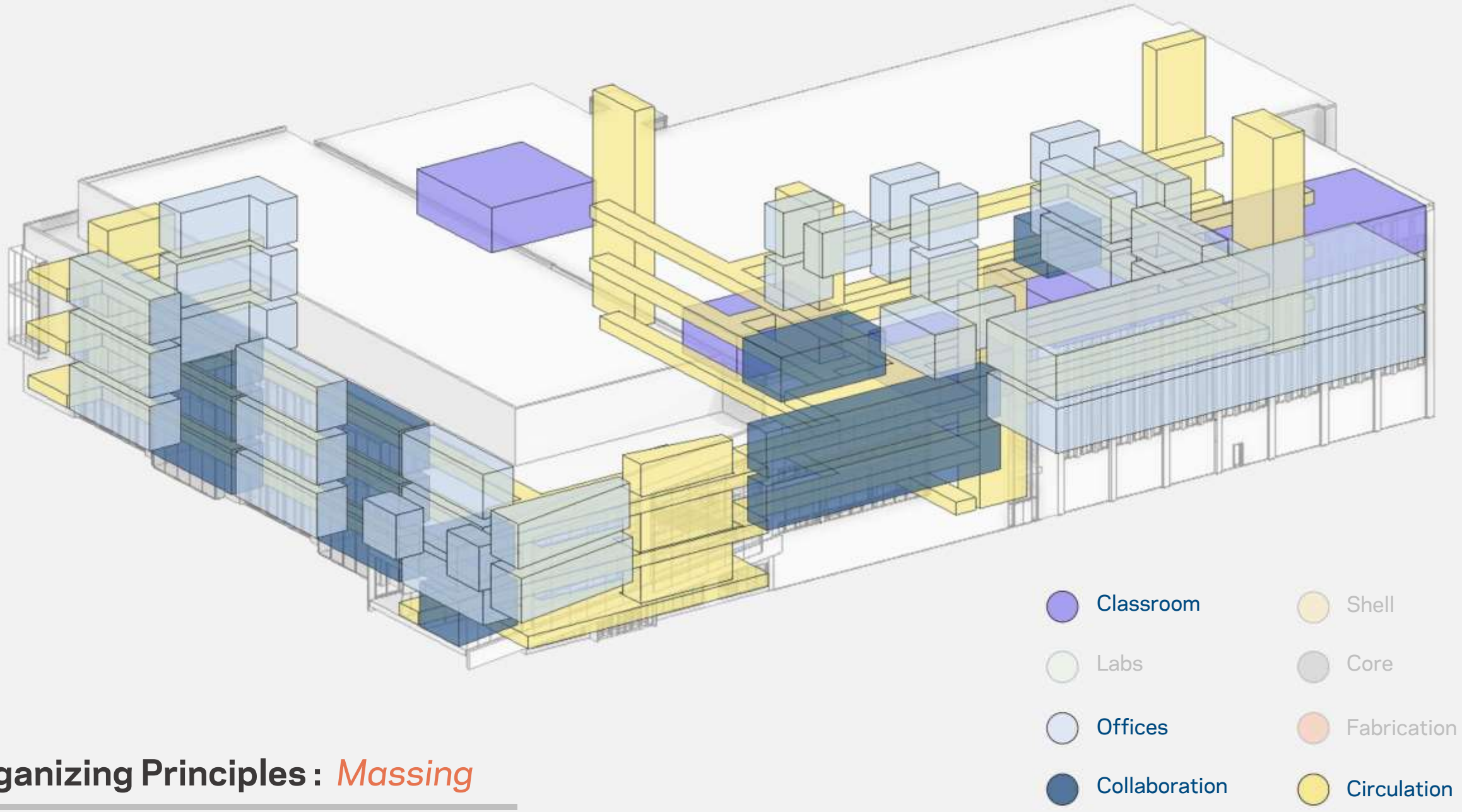


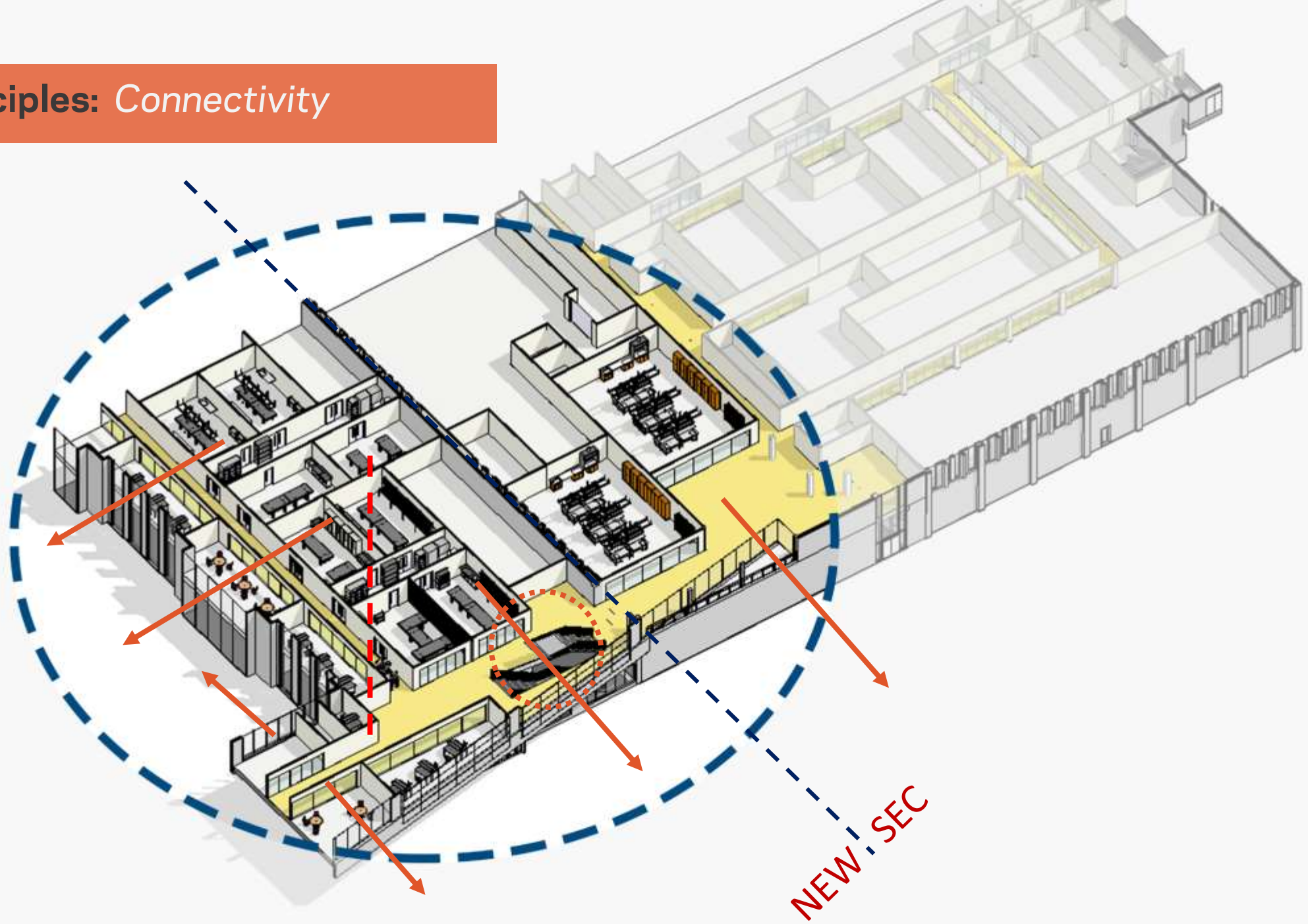

# Organizing Principles : *Massing*

# placemaking

## community building and brand

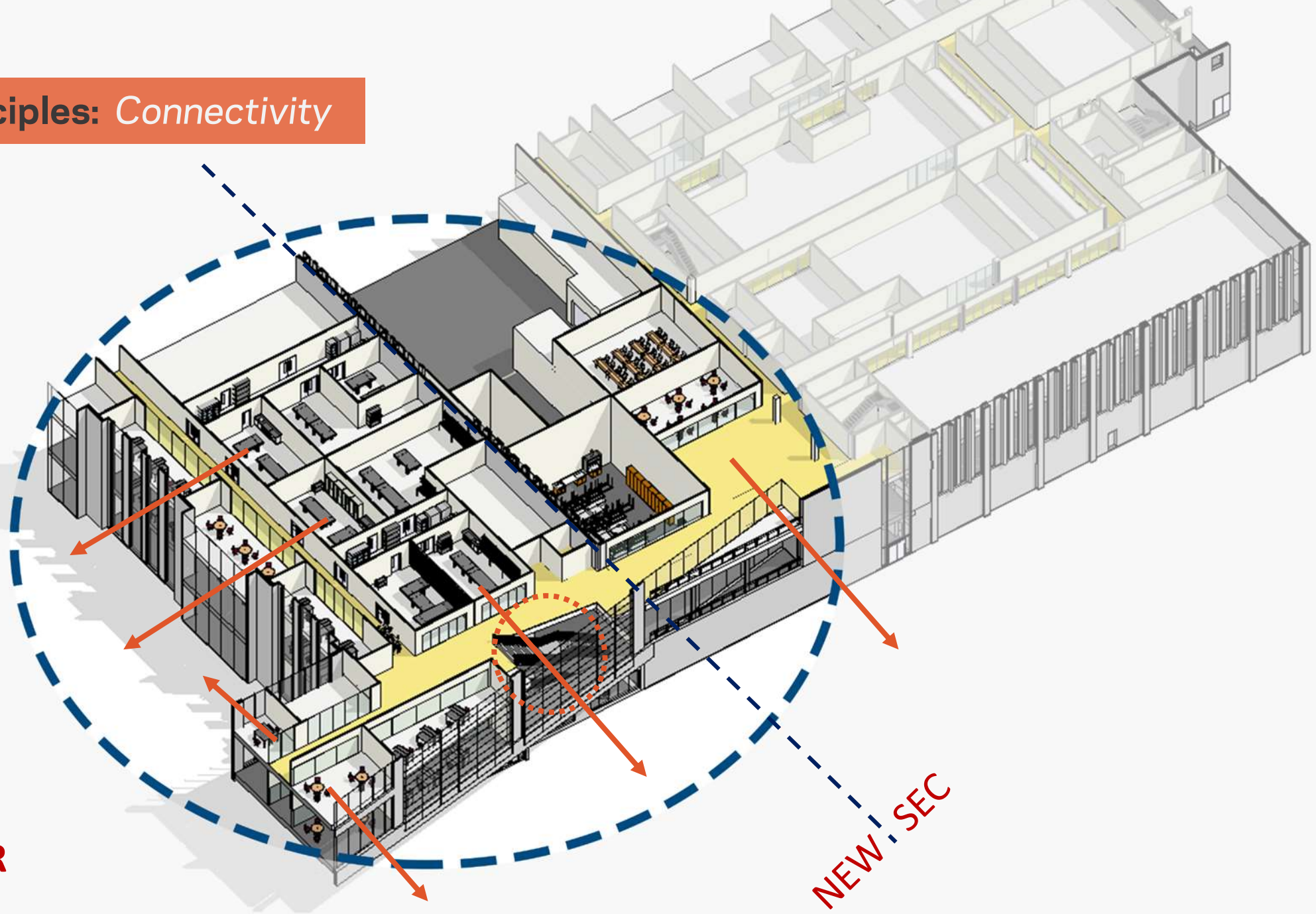

JOYCE COMMONS

# Organizing Principles: *Connectivity*




**FIRST FLOOR**

# Organizing Principles: *Connectivity*




**SECOND FLOOR**

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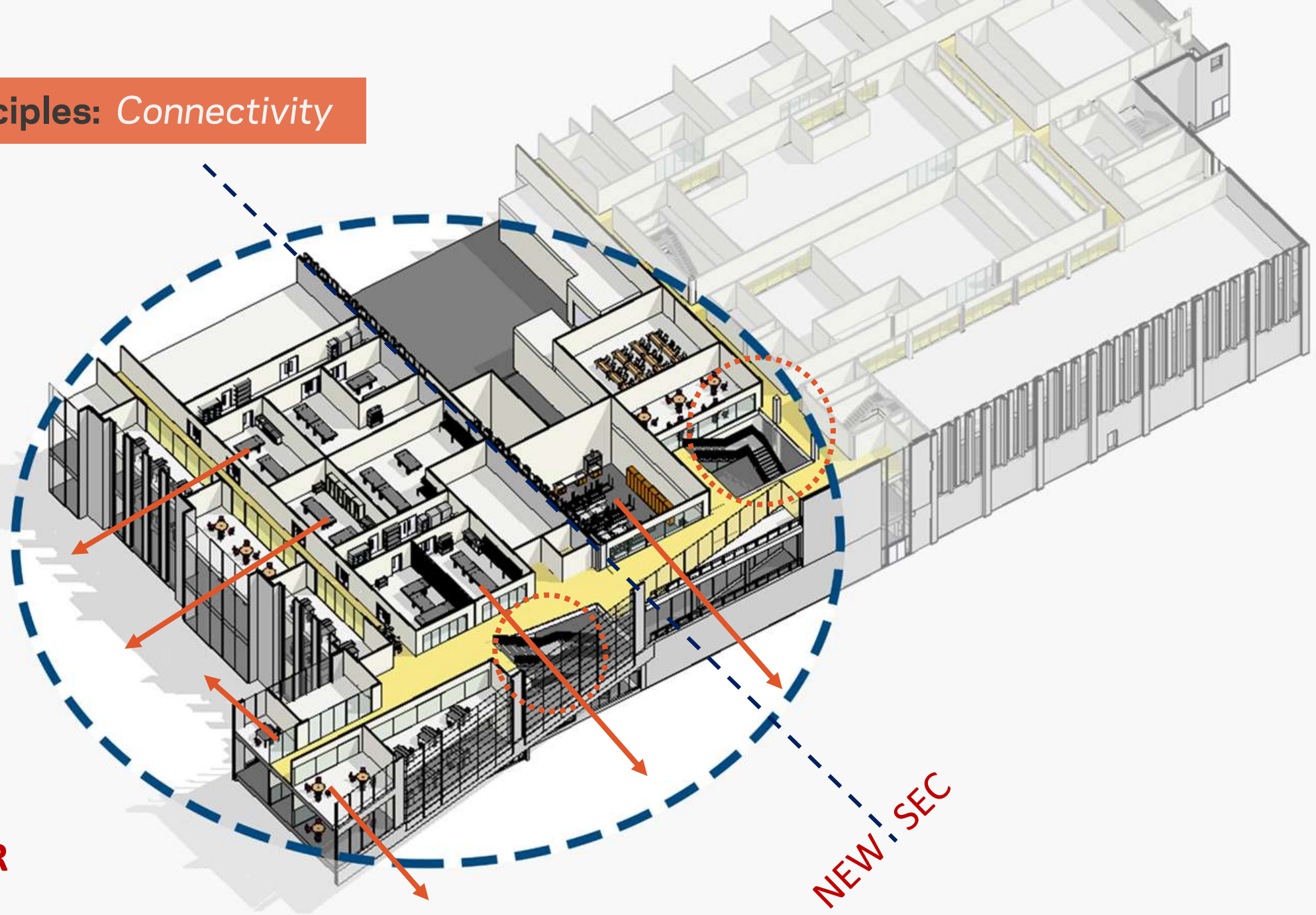


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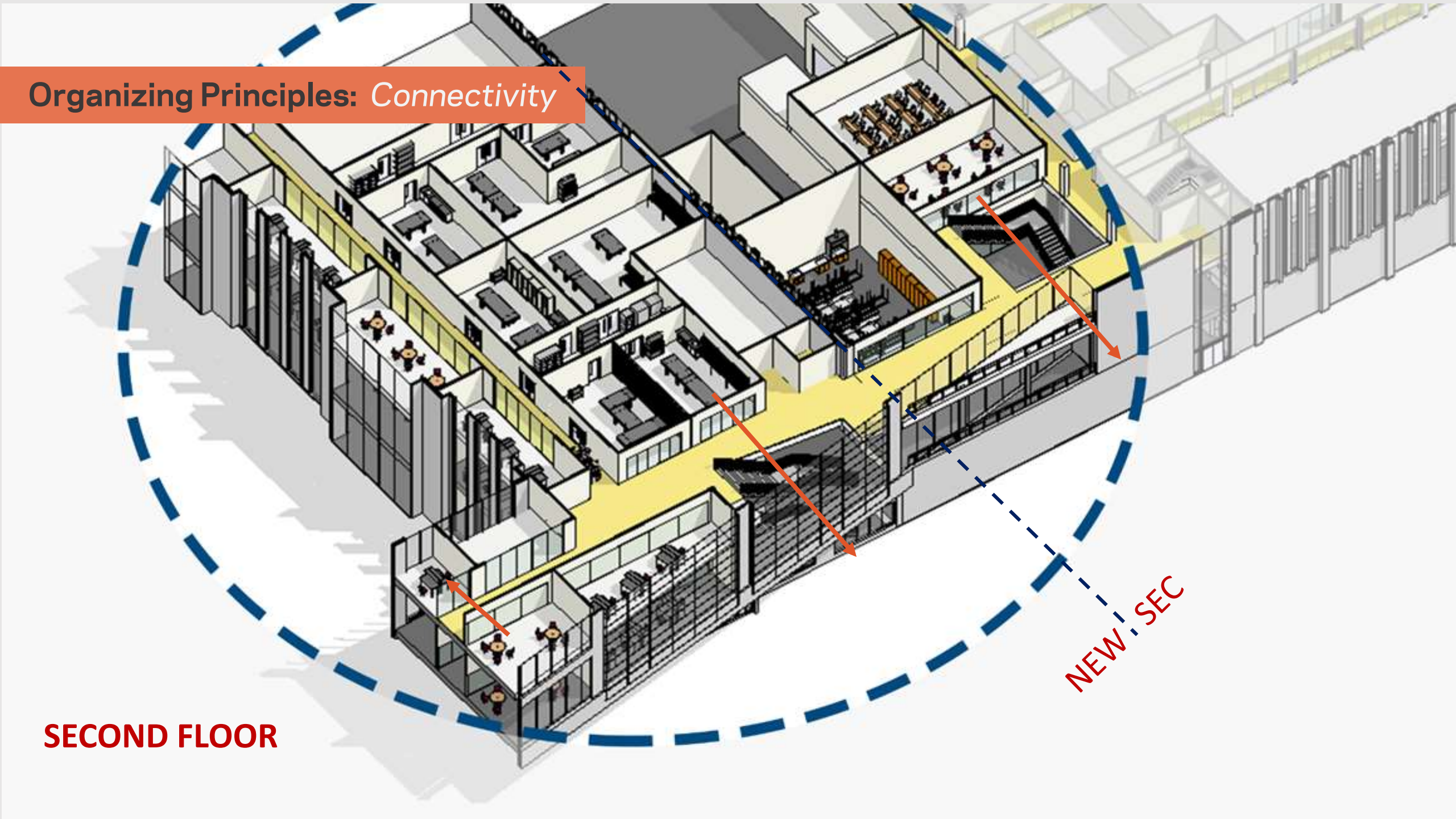


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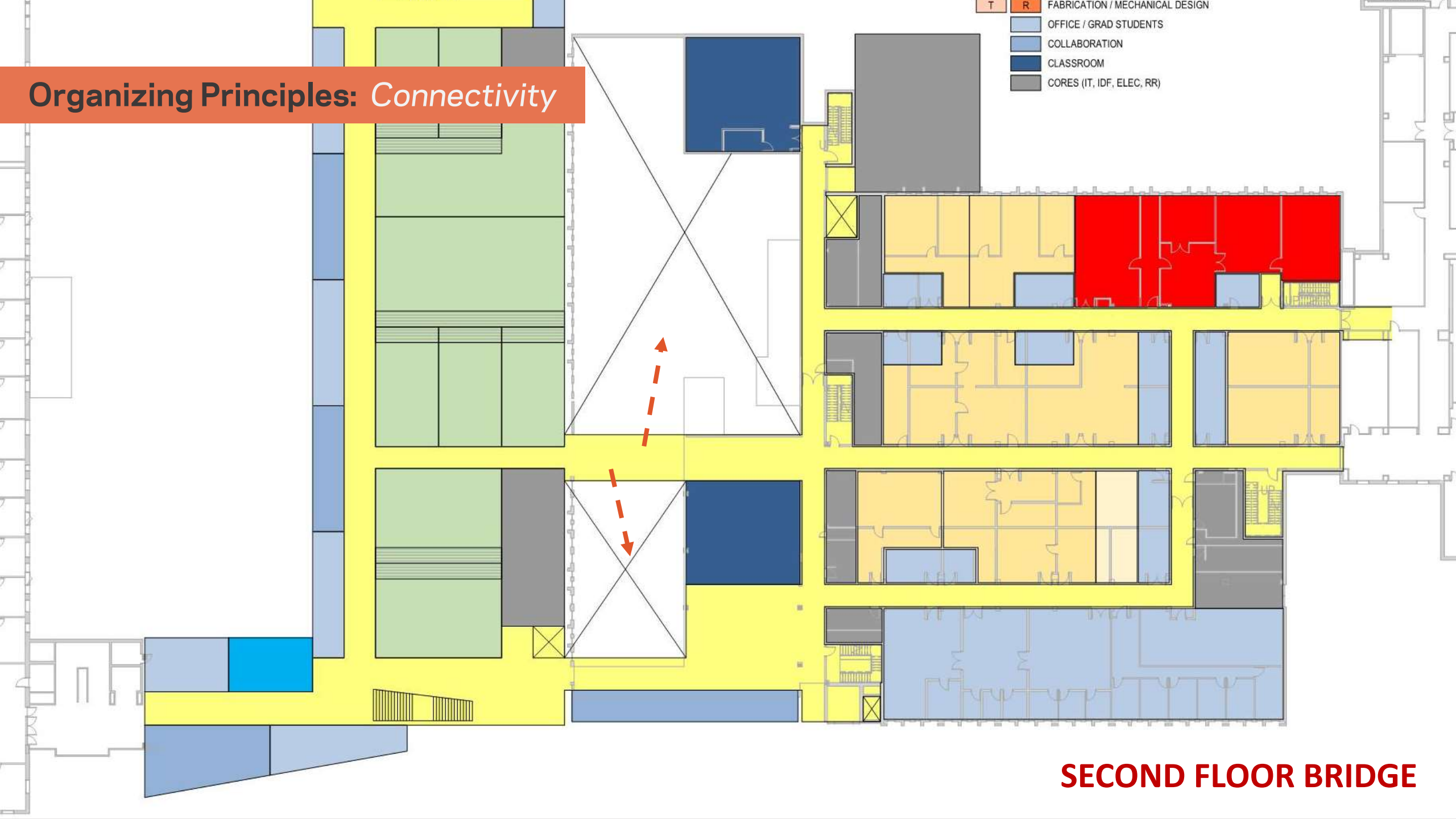
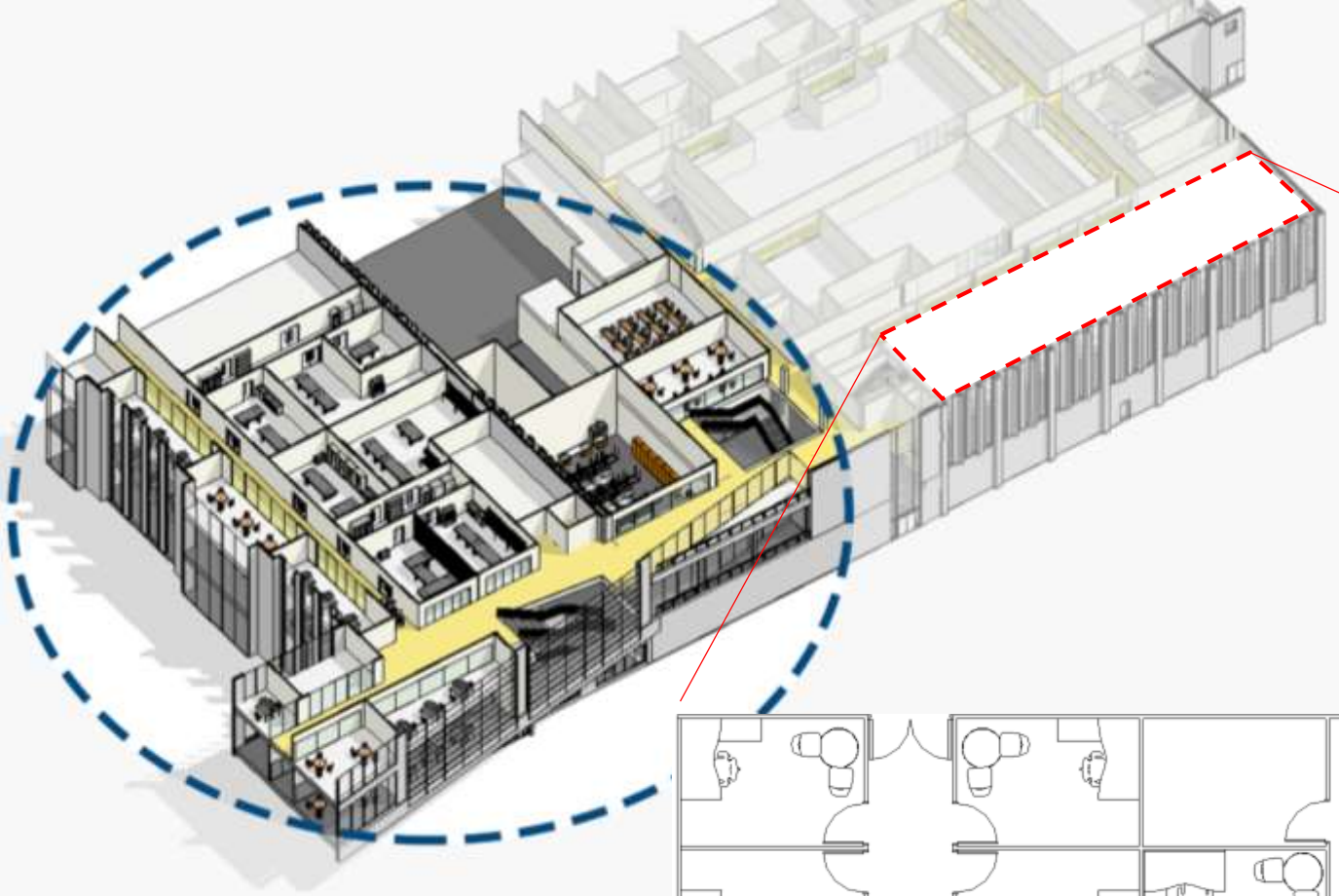
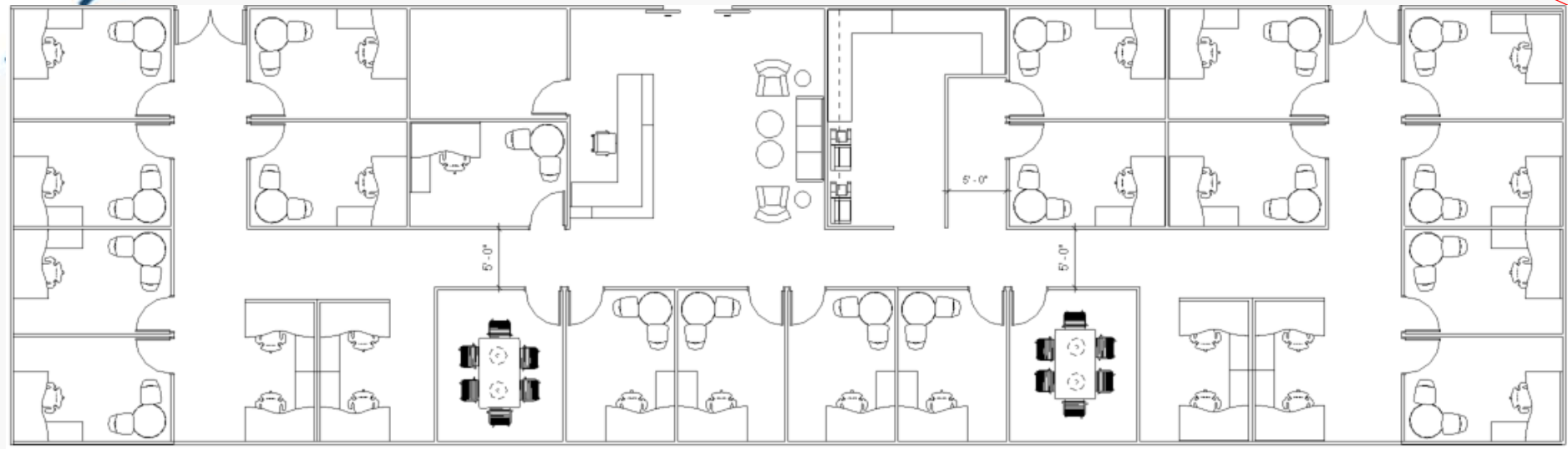



**SECOND FLOOR BRIDGE**

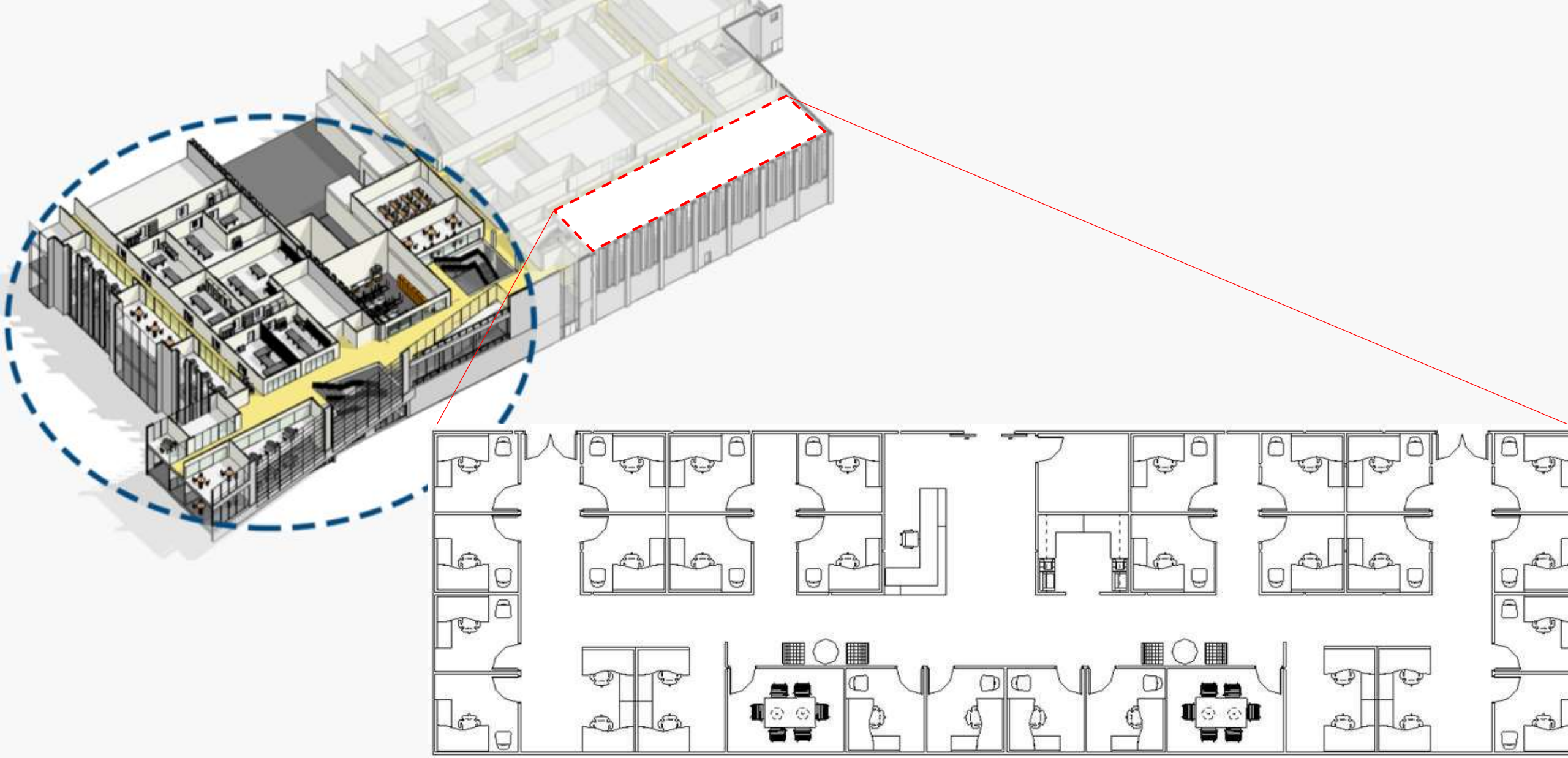
# Office & Workstation Spaces



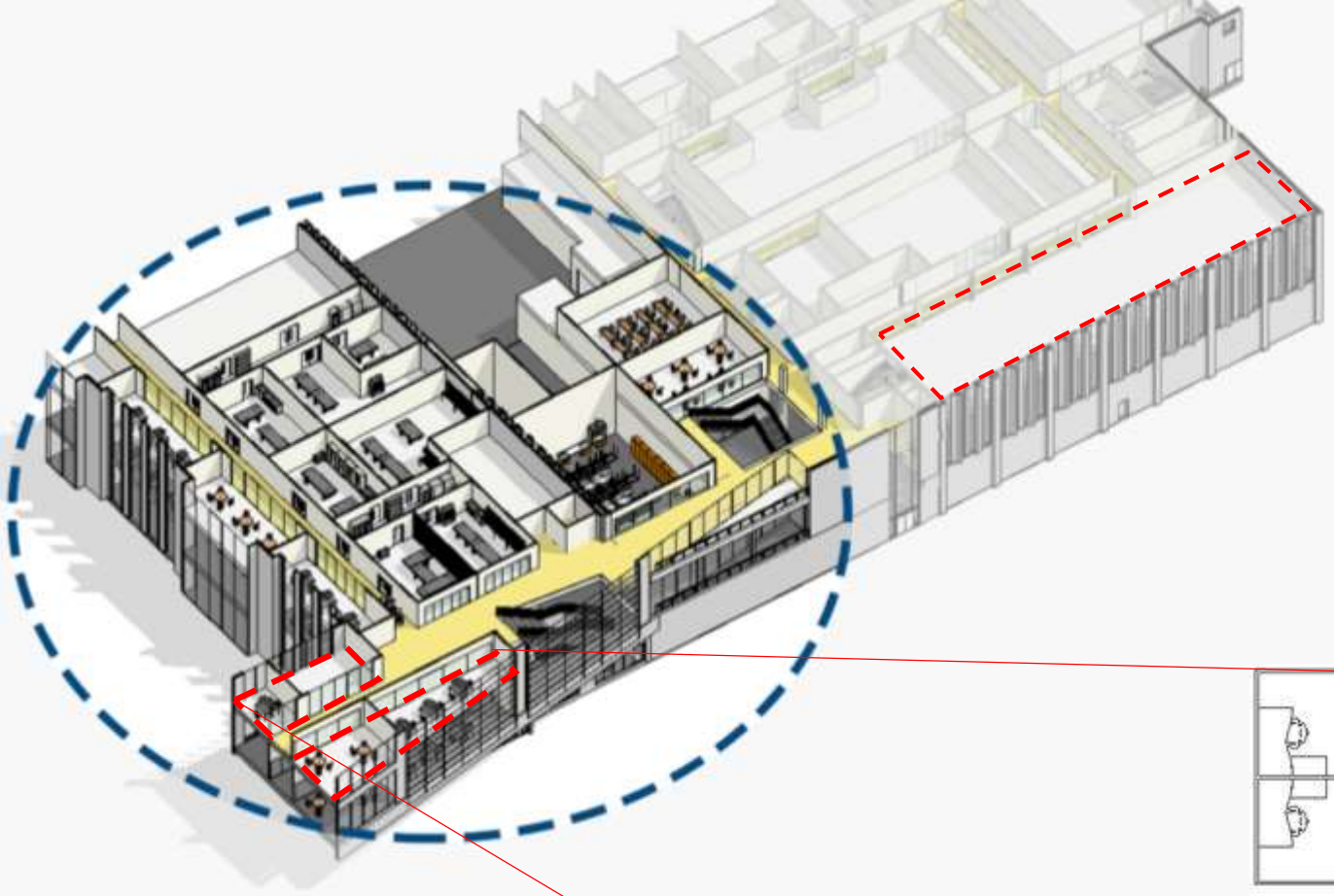


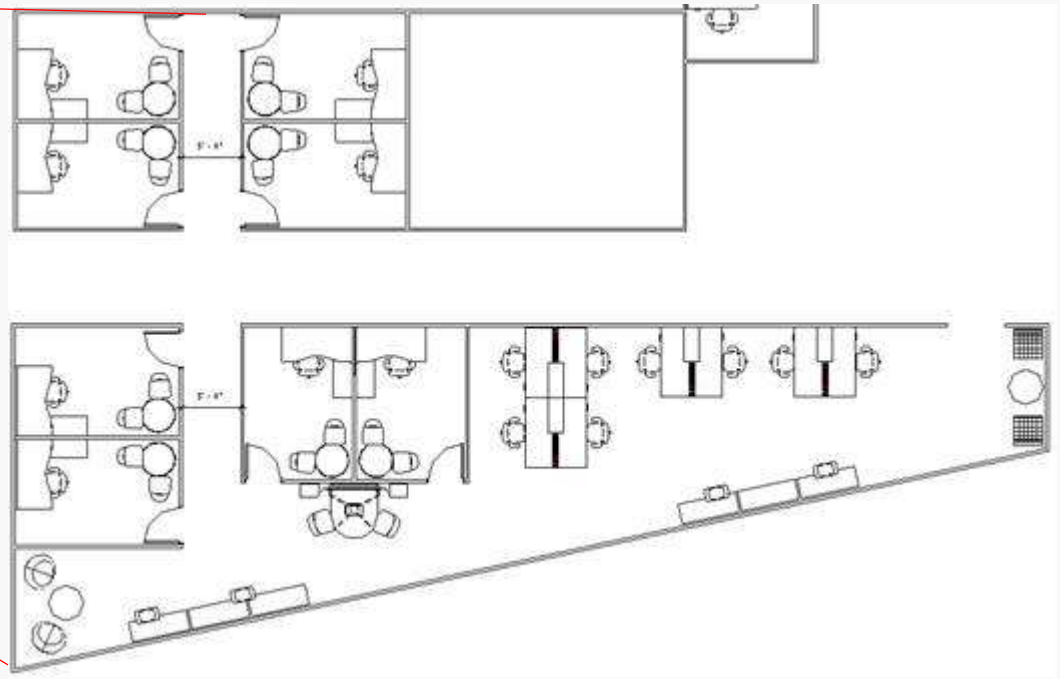

# Department Suites: 120 sf Offices

- Active Team-Based Le

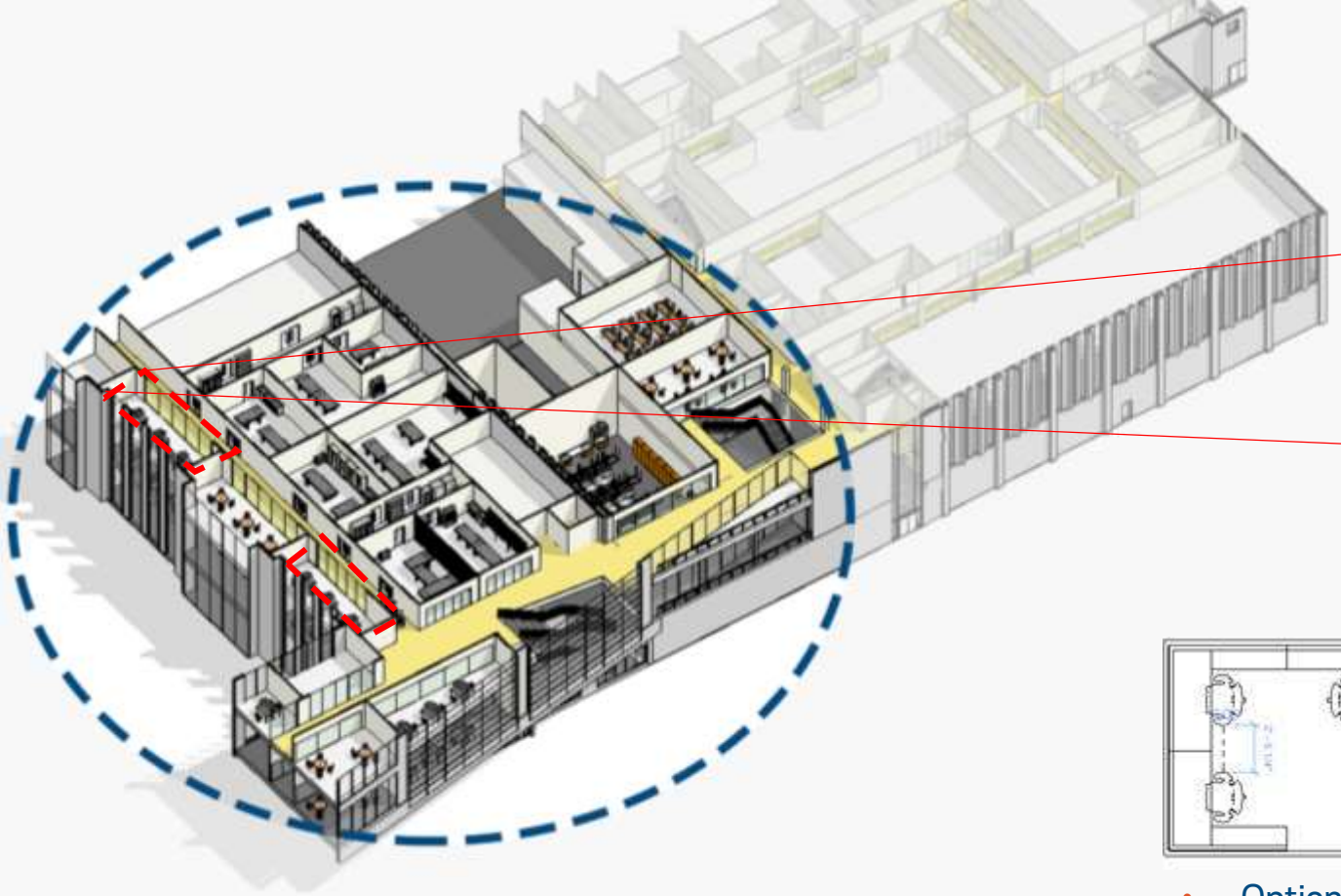


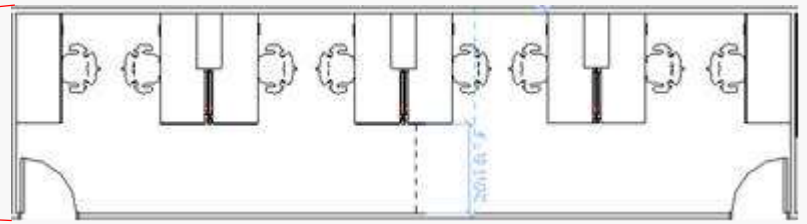
## Department Suites: 90sf offices



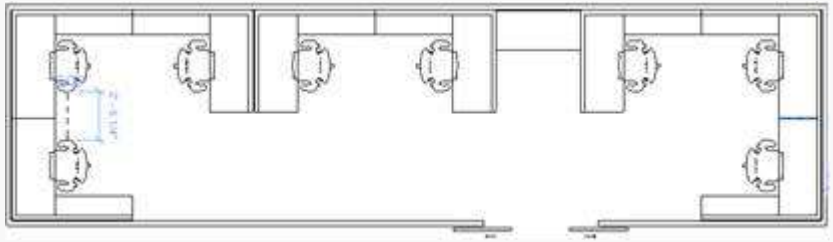


# Department Suites additional space

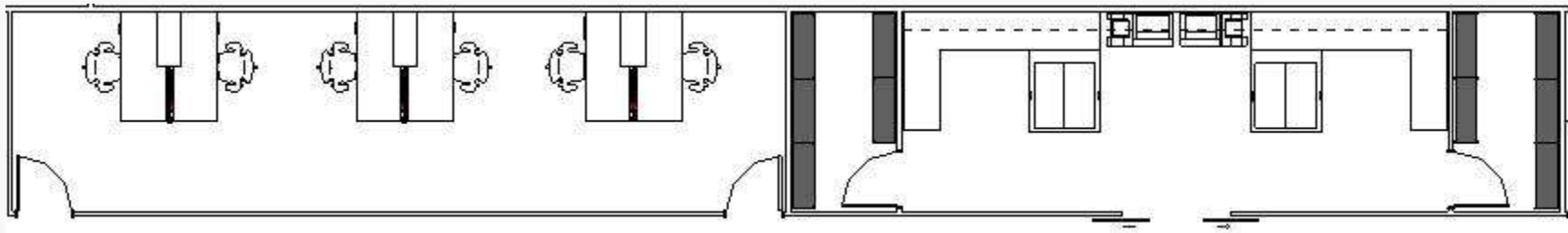




- Option 1



- Option 2



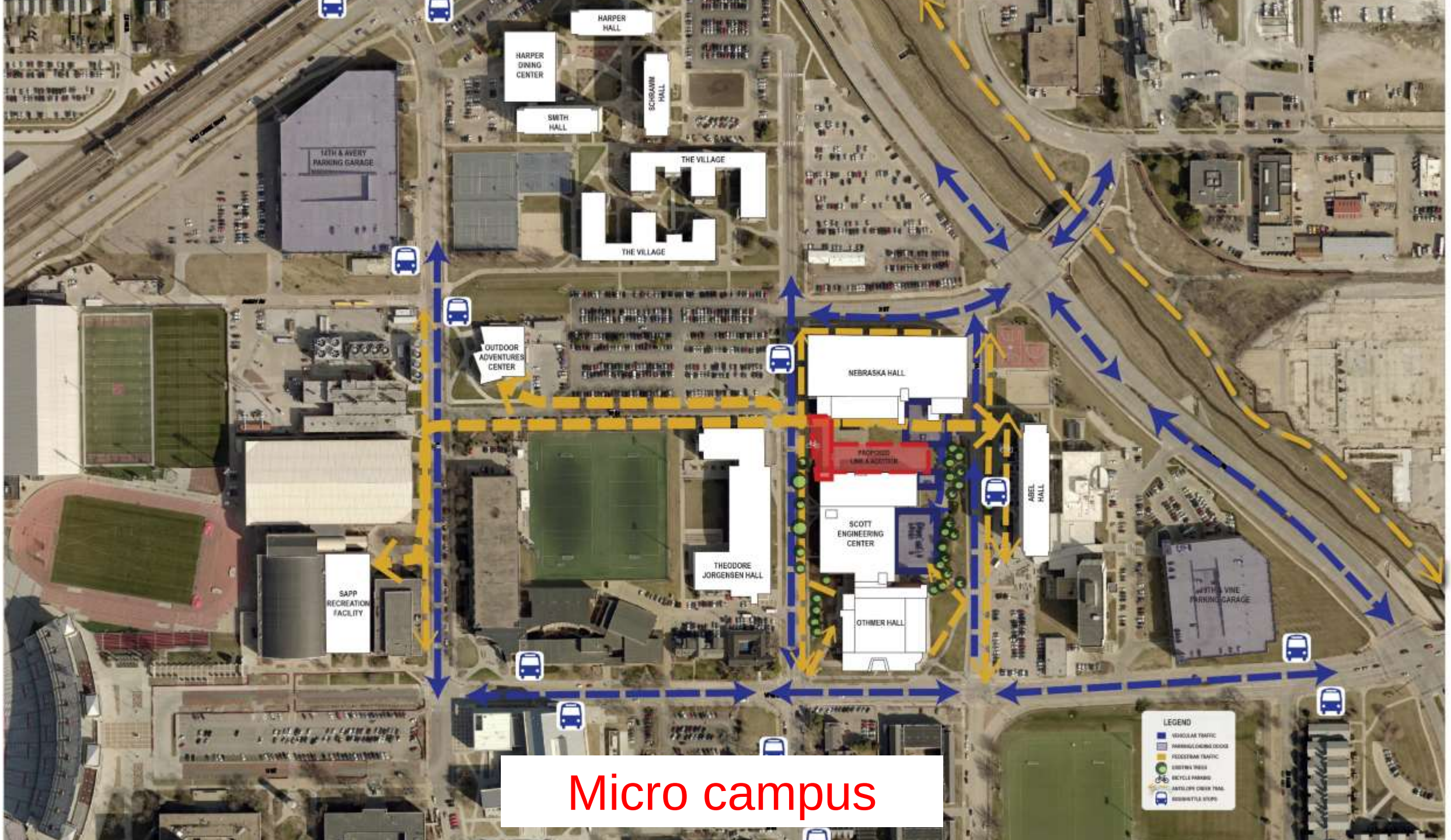
- Option 1 with adjacent collaboration space

# GA workstations

# Campus Architecture

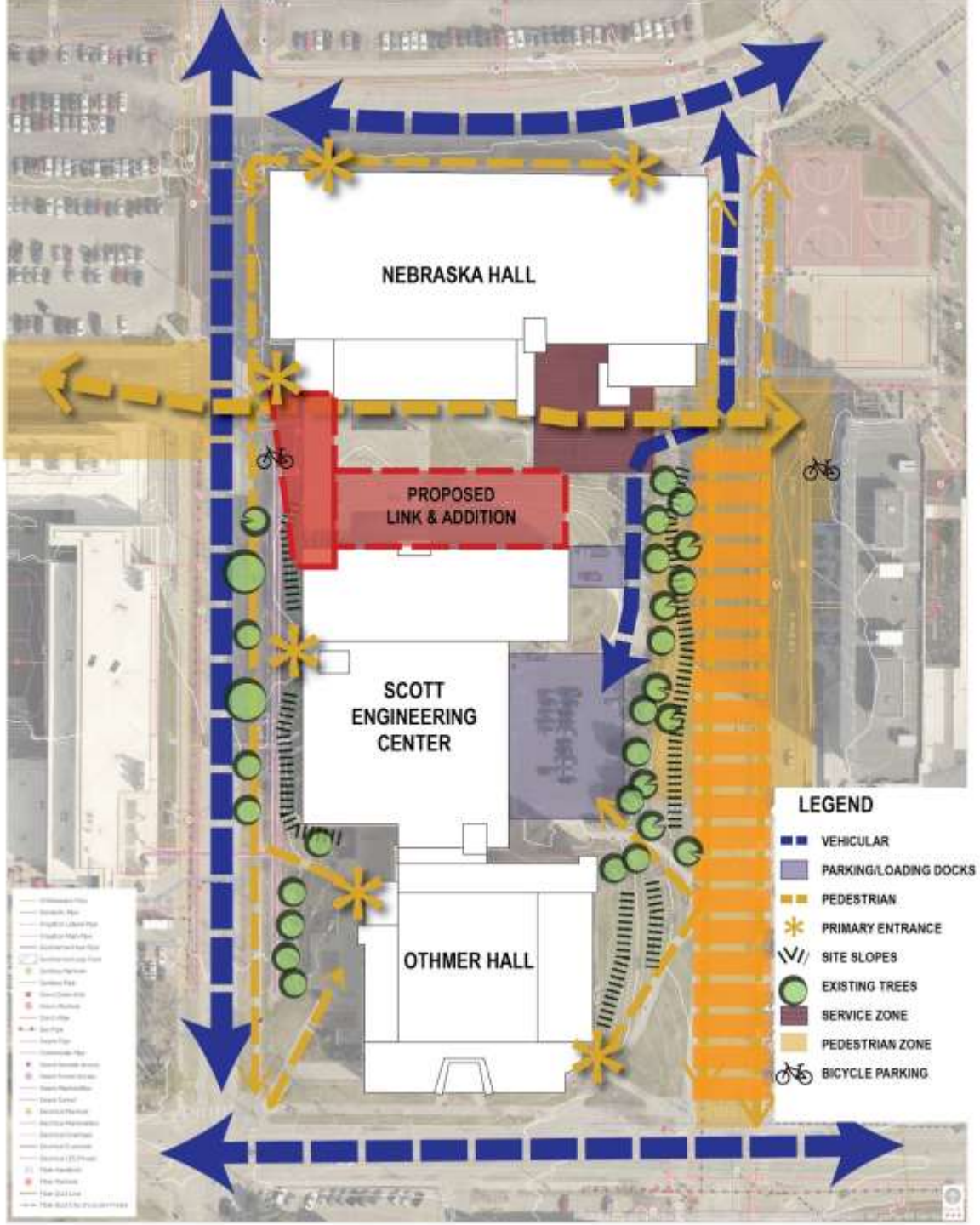
## planning + programming for success

Campus Master Plan
2013




Micro campus

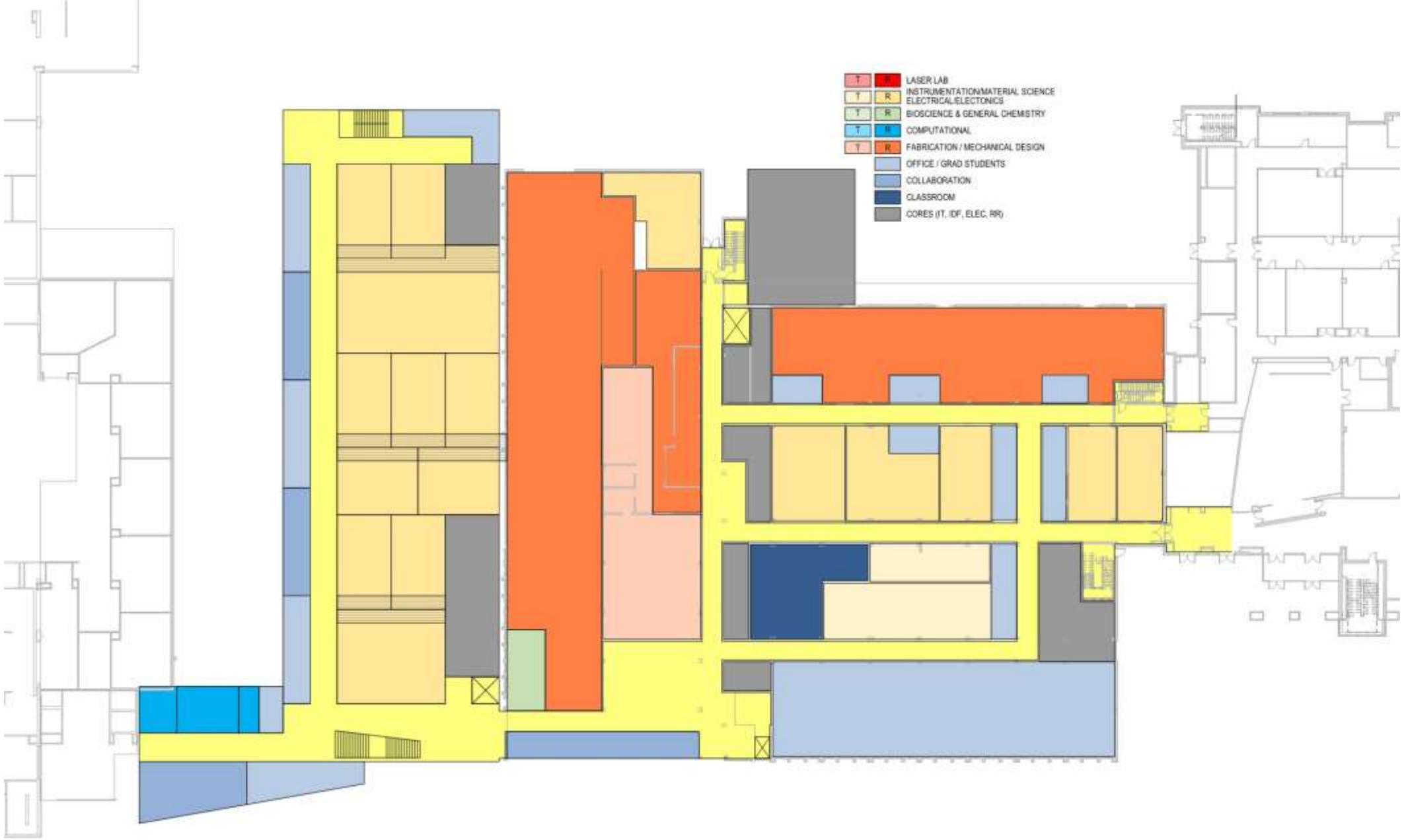
# Site Connections




NEBRASKA HALL
PROPOSED BUILDING
SCOTT ENGINEERING CENTER
16TH ST.
17TH ST.
LEGEND
VEHICULAR TRAFFIC
PEDESTRIAN TRAFFIC
EXISTING TREES
BICYCLE PARKING
BUS/SHUTTLE STOPS
0'
40'
80'


LASER LAB
INSTRUMENTATION/MATERIAL SCIENCE
ELECTRICAL/ELECTONICS
BIOSCIENCE & GENERAL CHEMISTRY
COMPUTATIONAL
FABRICATION / MECHANICAL DESIGN
OFFICE / GRAD STUDENTS
COLLABORATION
CLASSROOM
CORES (IT, IDF, ELEC, RR)

# LOWER LEVEL


LASER LAB
INSTRUMENTATION/MATERIAL SCIENCE
ELECTRICAL/ELECTONICS
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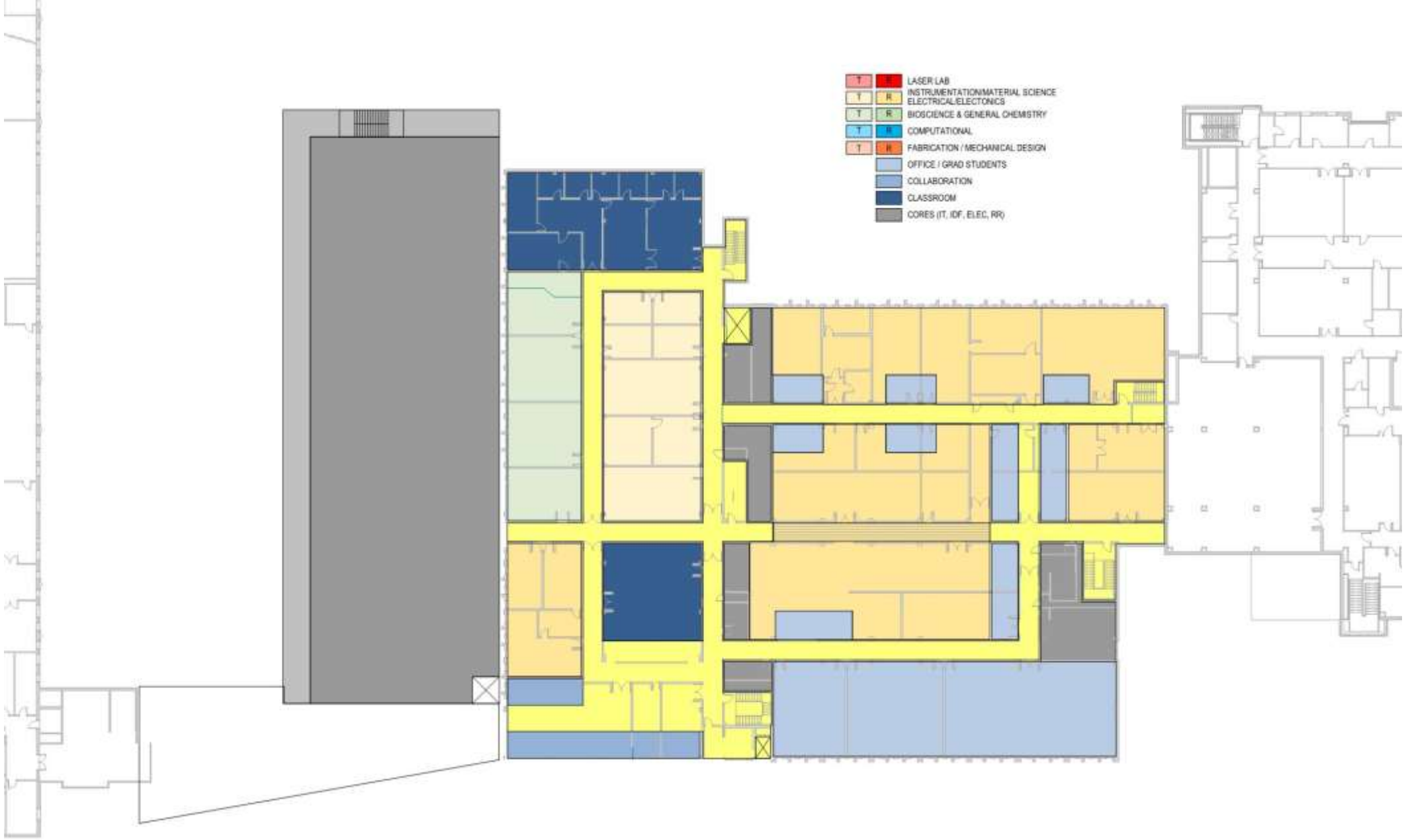
OFFICE / GRAD STUDENTS
COLLABORATION
CLASSROOM
CORES (IT, IDF, ELEC, RR)

# FIRST FLOOR


# SECOND FLOOR


# THIRD FLOOR– PHASE 1A




# THIRD FLOOR– PHASE 1B

# Campus Integration

# Campus Context

- RED BRICK
- LIME STONE ACCENTS
- METAL/ZINC PANEL
- BRANDED ACCENTS


CONNECT
THE MILL


Outdoor Adventures Center

# COLLEGE OF BUSINESS

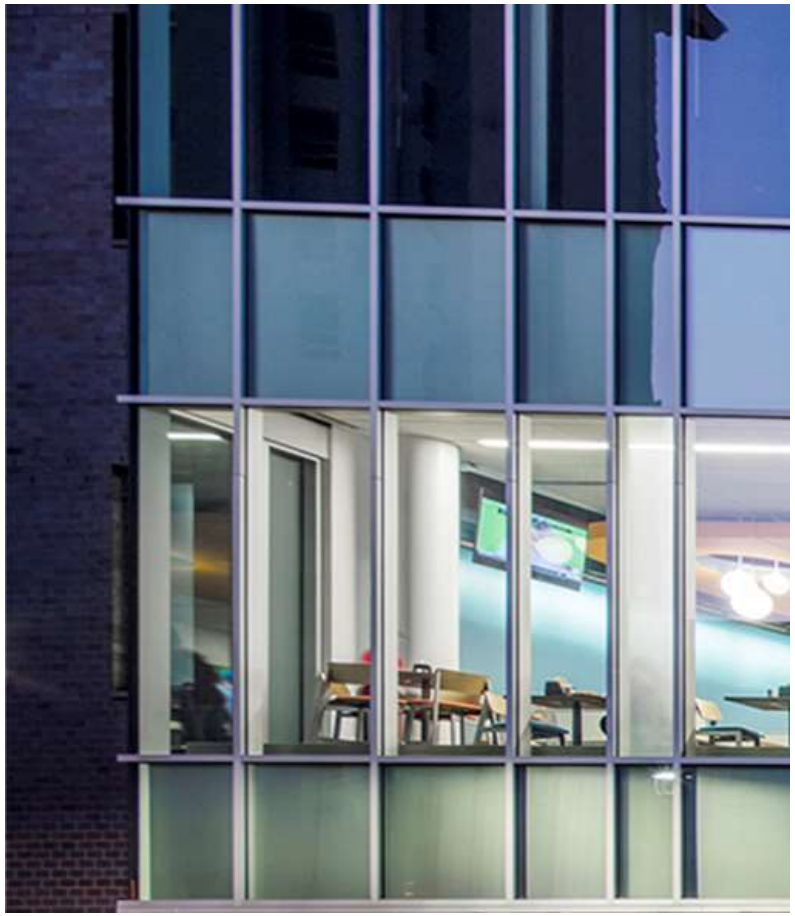
# Business School

# Willa Cather Dining Hall

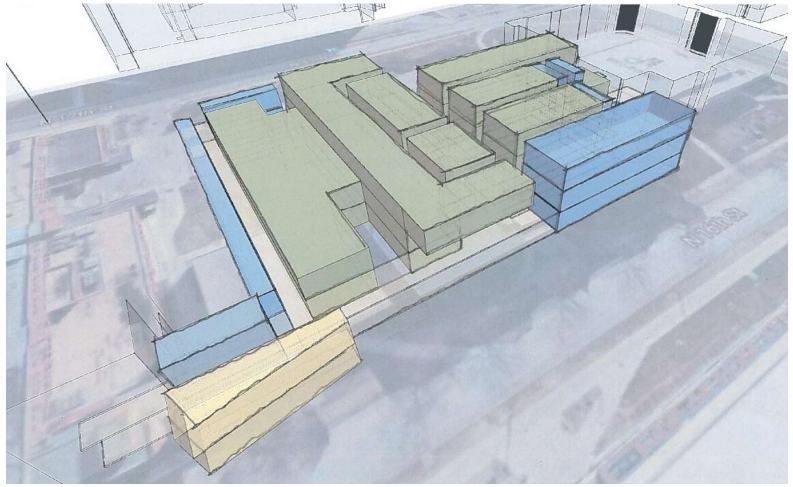
# Nebraska Veterinary Diagnostic Center

# Jorgensen Hall

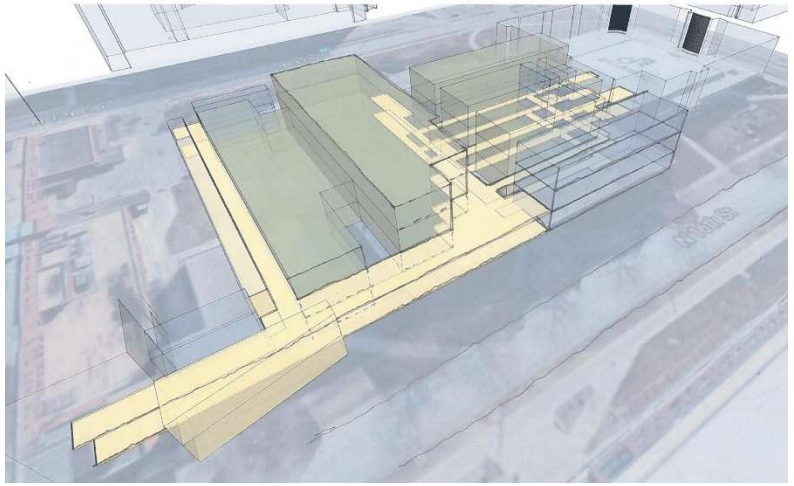
# Materials



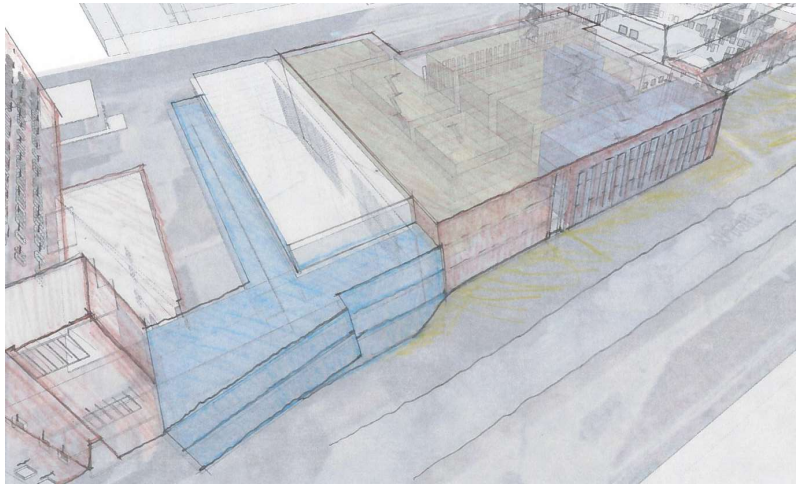
# Exterior Expression



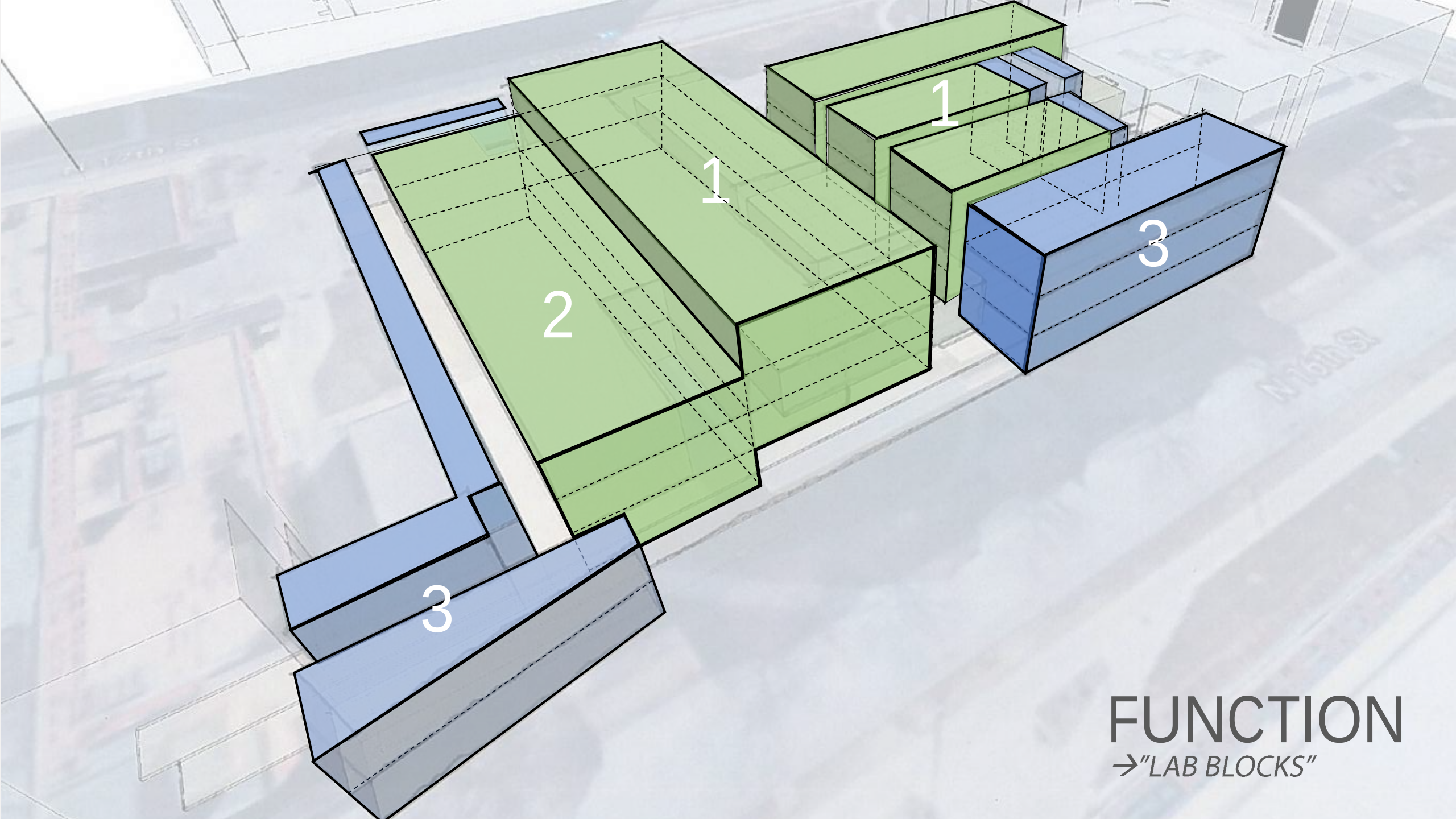
function



connectivity

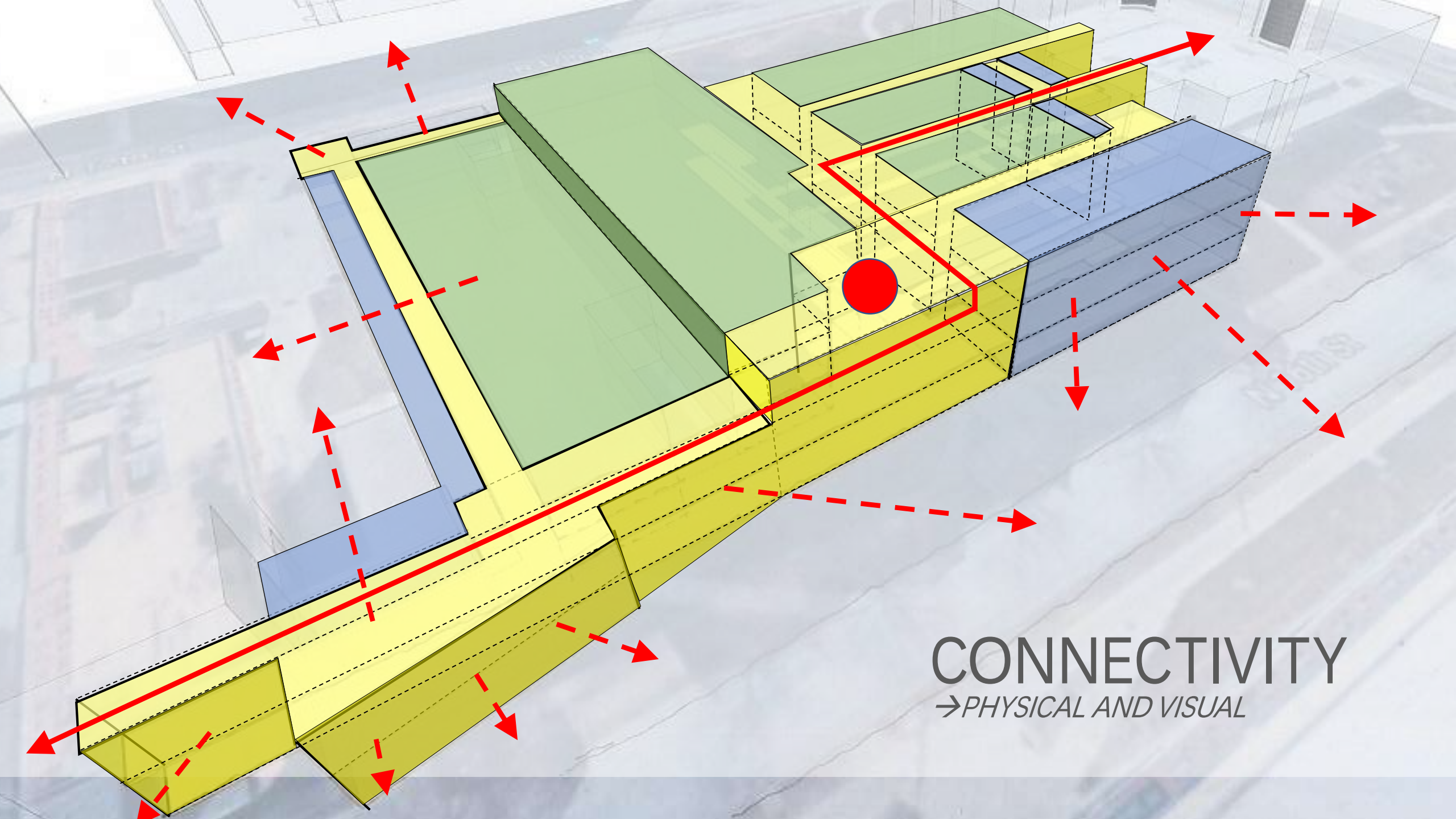


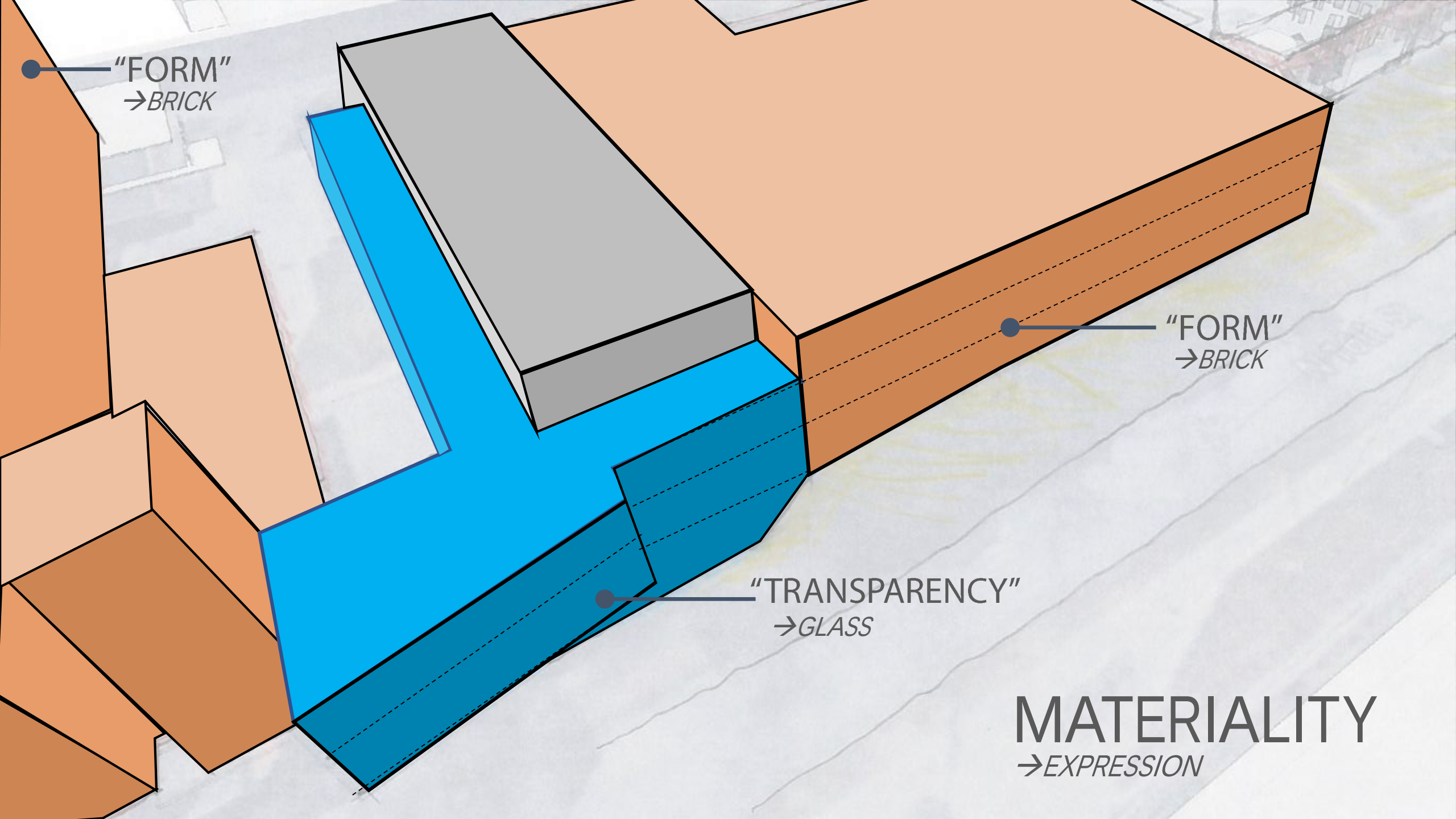
Materiality




# FUNCTION

→"LAB BLOCKS"


CONNECTIVITY
→PHYSICAL AND VISUAL

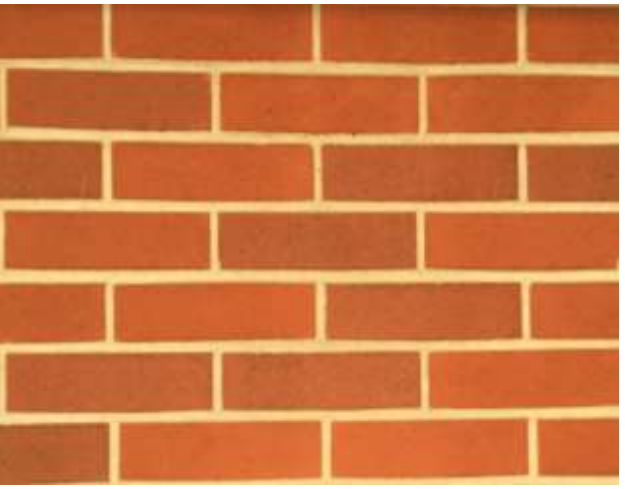



# MATERIALITY

→EXPRESSION


STOP

# Proposed Project Materials – Brick Masses



- Brick complimentary to Scott – Same Color Family
- Brick forms Masses other materials are set into

# Proposed Project Materials – Limestone Accents

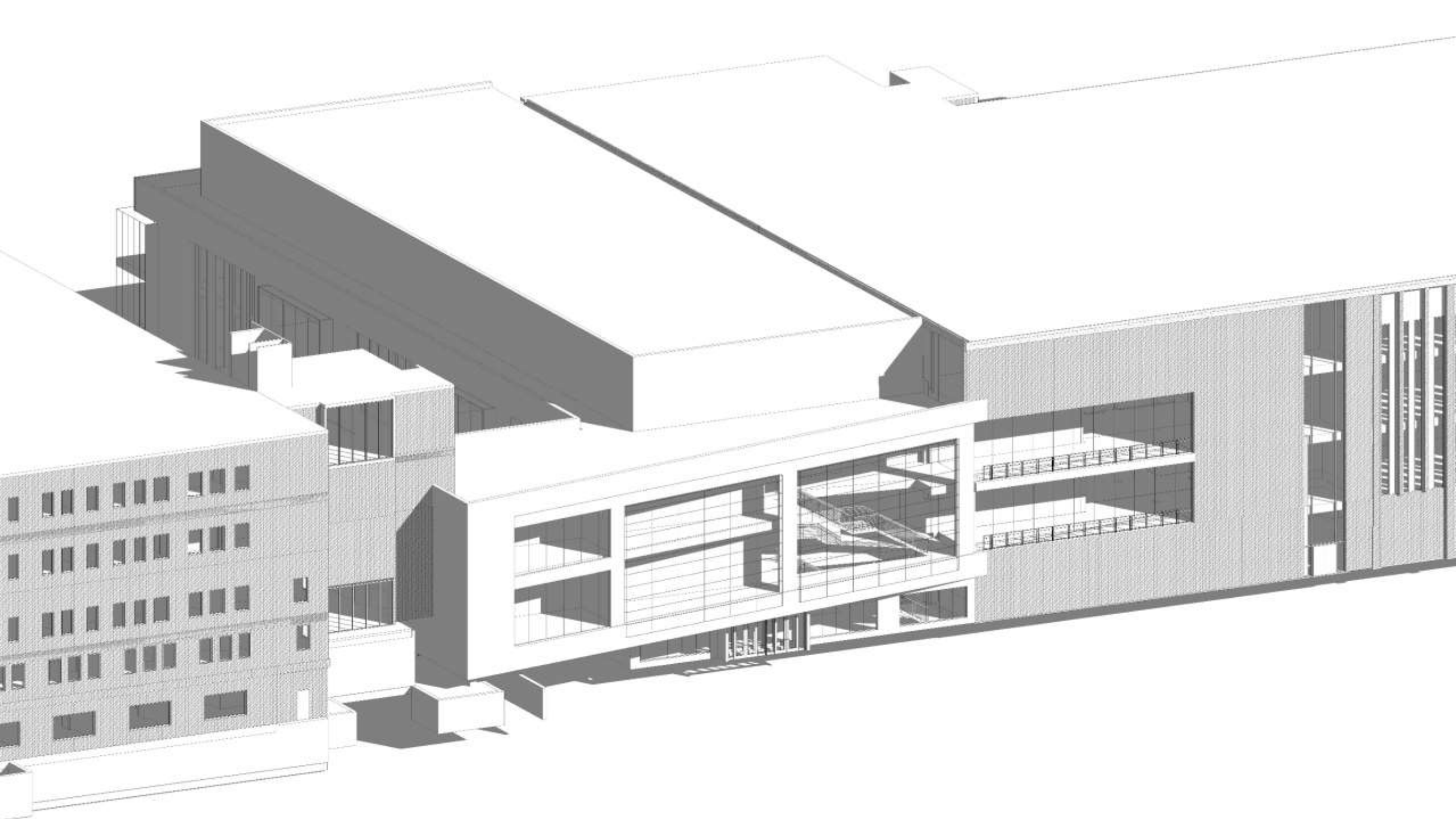
- Limestone to Match Campus precedents
- Used as Accent Material to Highlight Larger Features
- May Be Open jointed Rainscreen or Filled Masonry

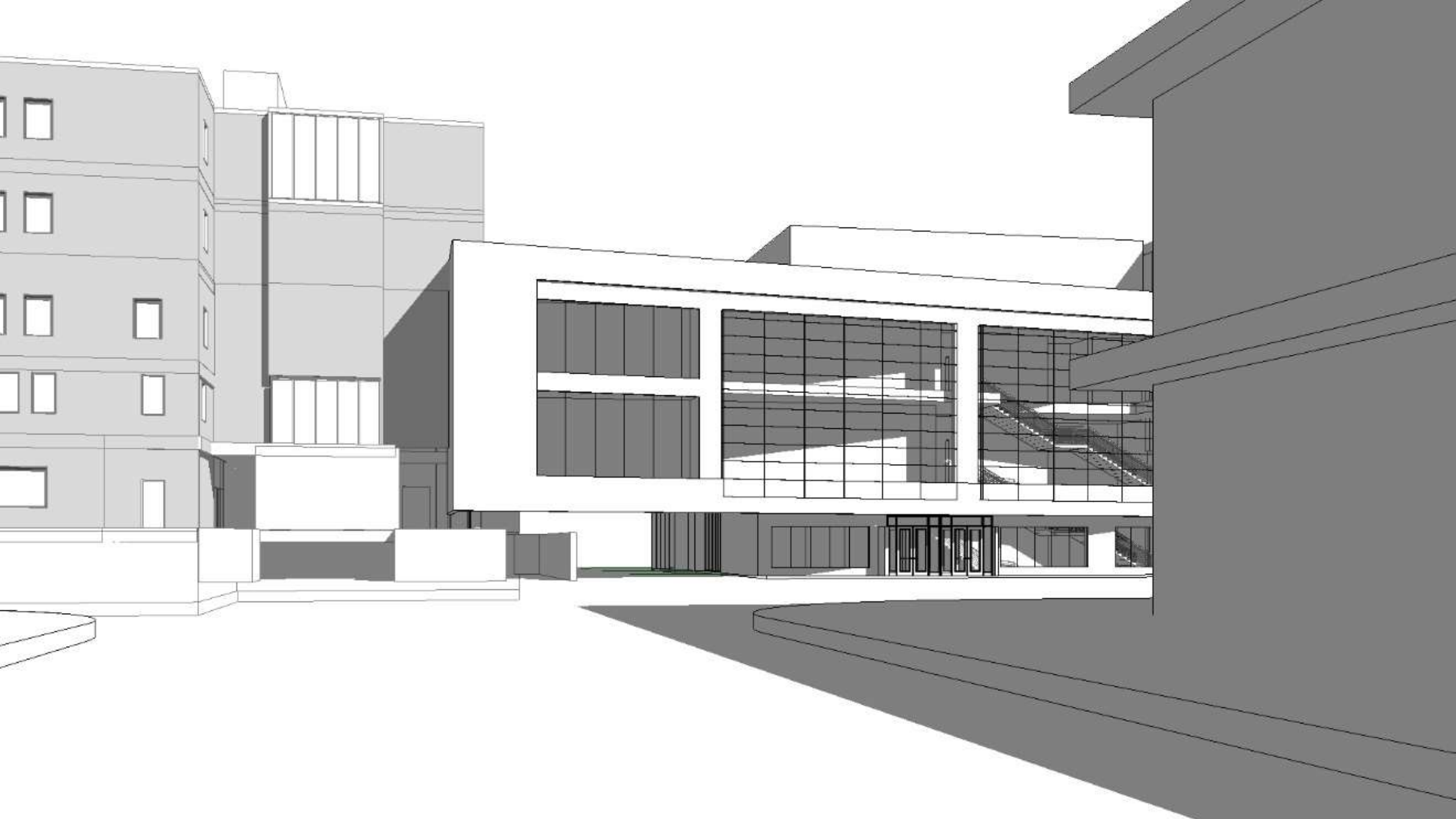
# Proposed Project Materials – Curtainwall Glass

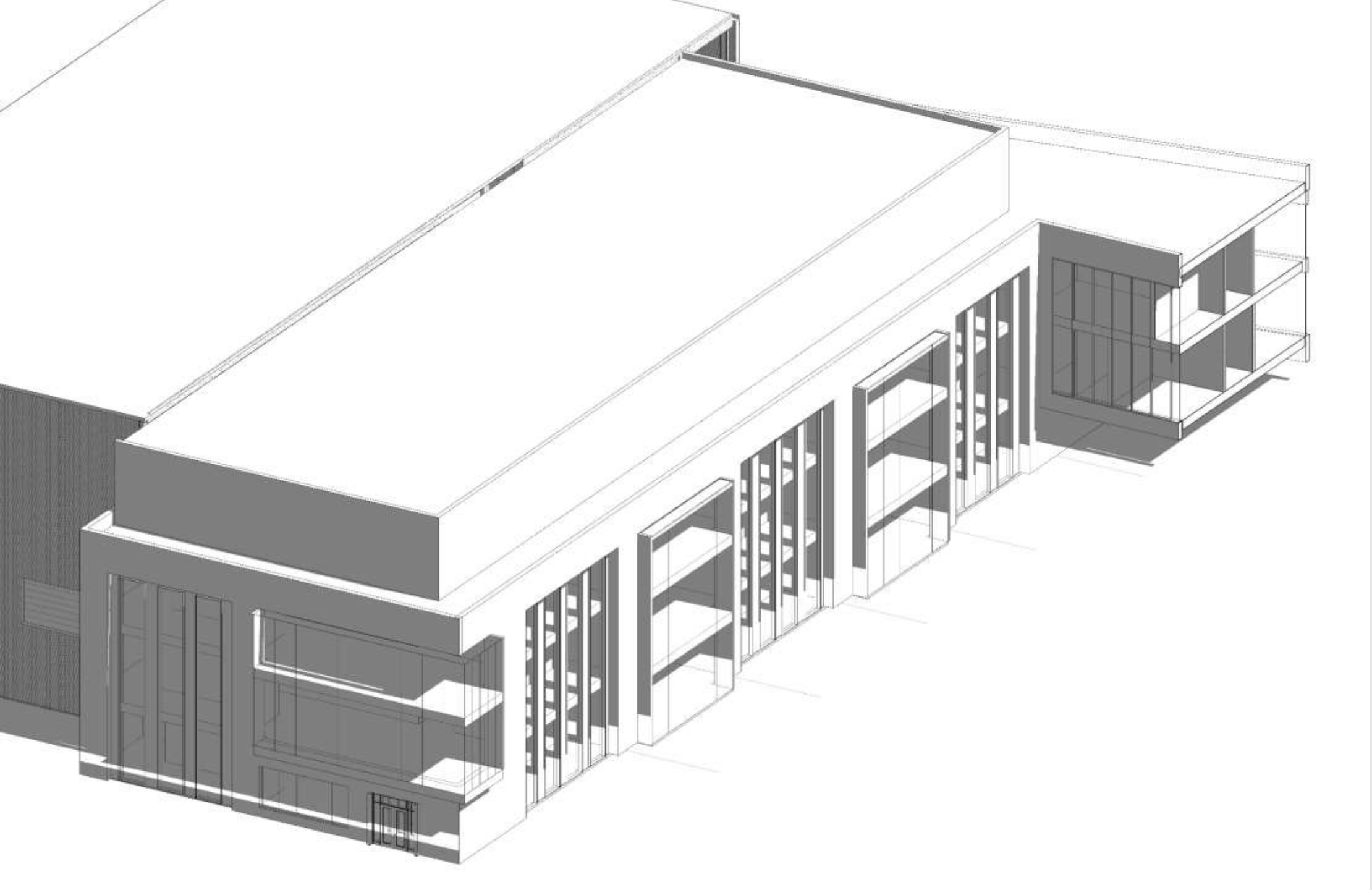
- Glass System in Large Areas Showcases Engineering
- Creates Visibility Inside and Out
- Defines Project Identity in Key Areas

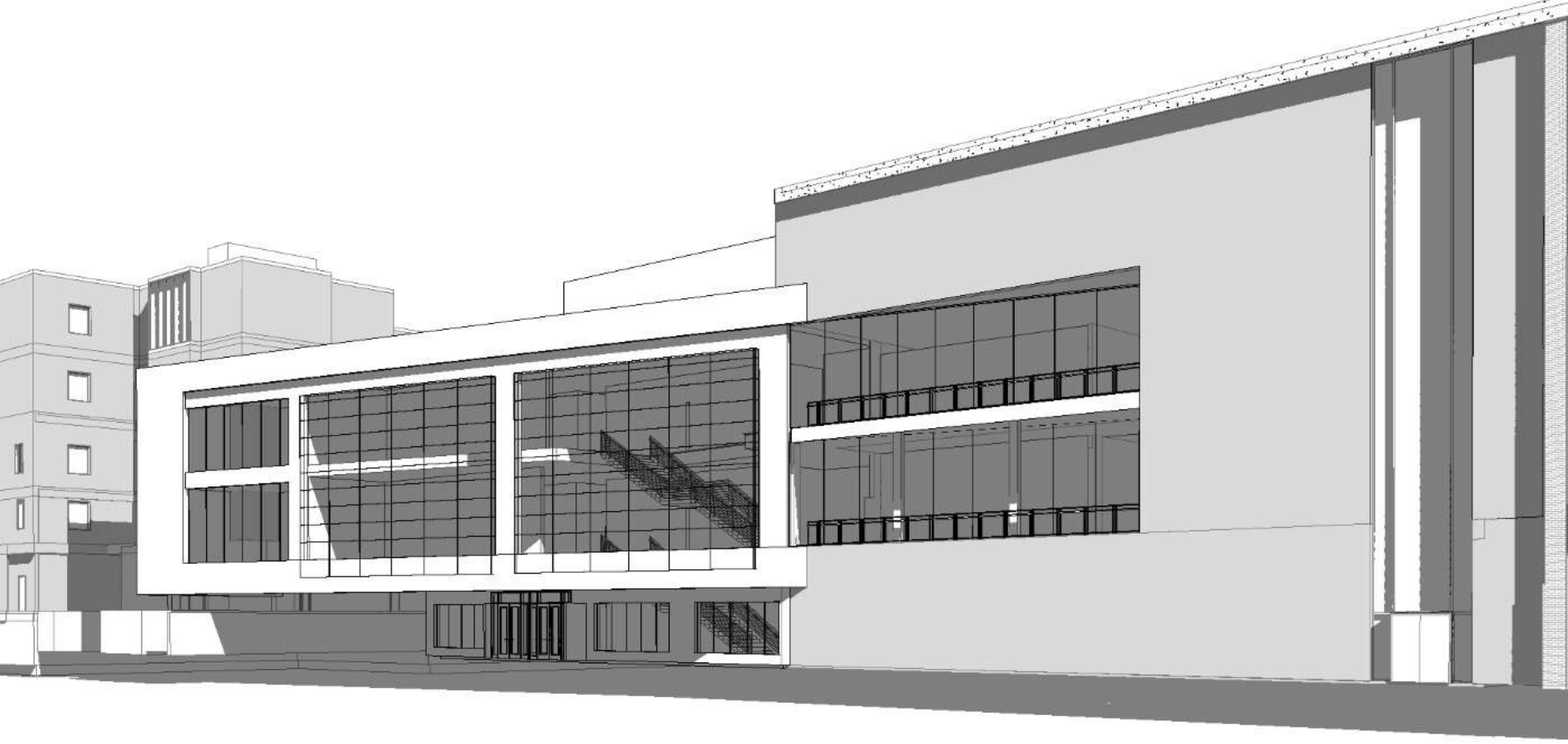
# Proposed Project Materials – Metal Panels

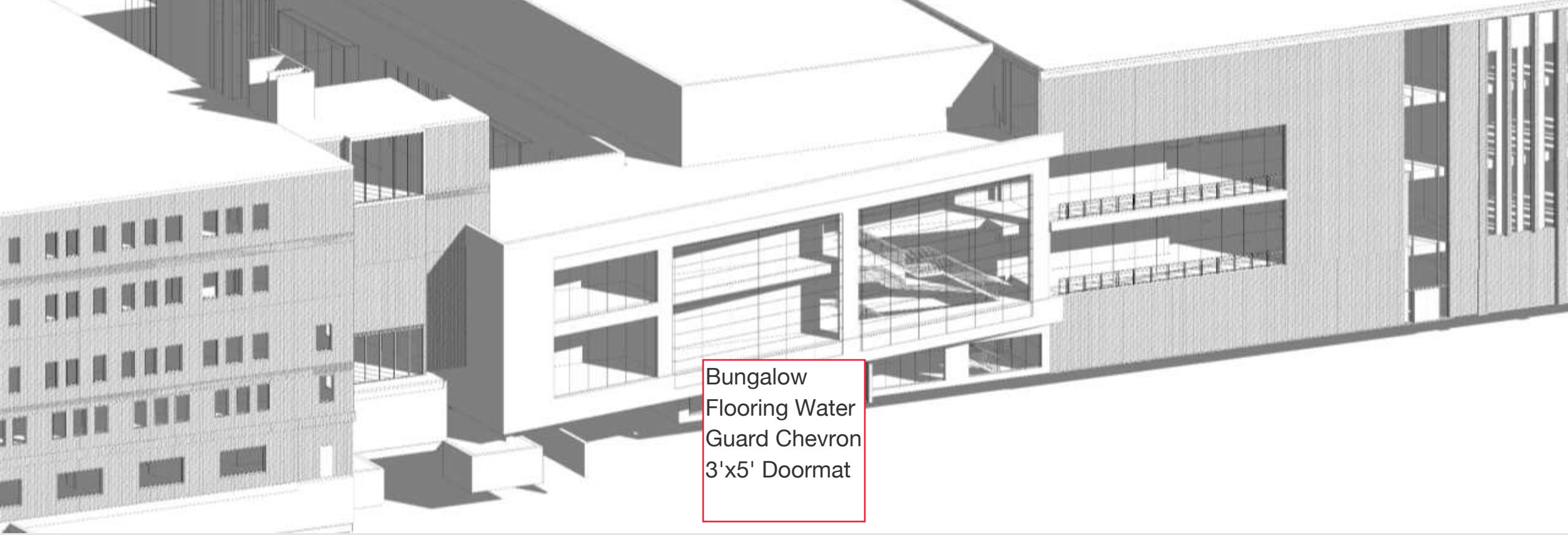
- Used as Accent Material around Glass Elements
- Potential Penthouse material
- Creates Visual Contrast from masonry elements










Bungalow
Flooring Water
Guard Chevron
3'x5' Doormat