

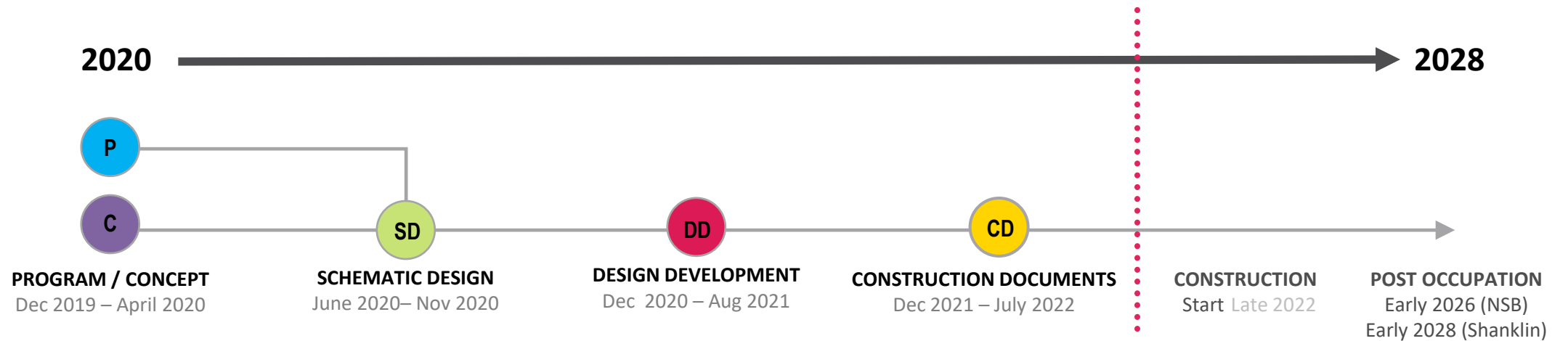
WESLEYAN UNIVERSITY

NEW SCIENCE BUILDING & SHANKLIN RENOVATION

September 29, 2022

PAYETTE

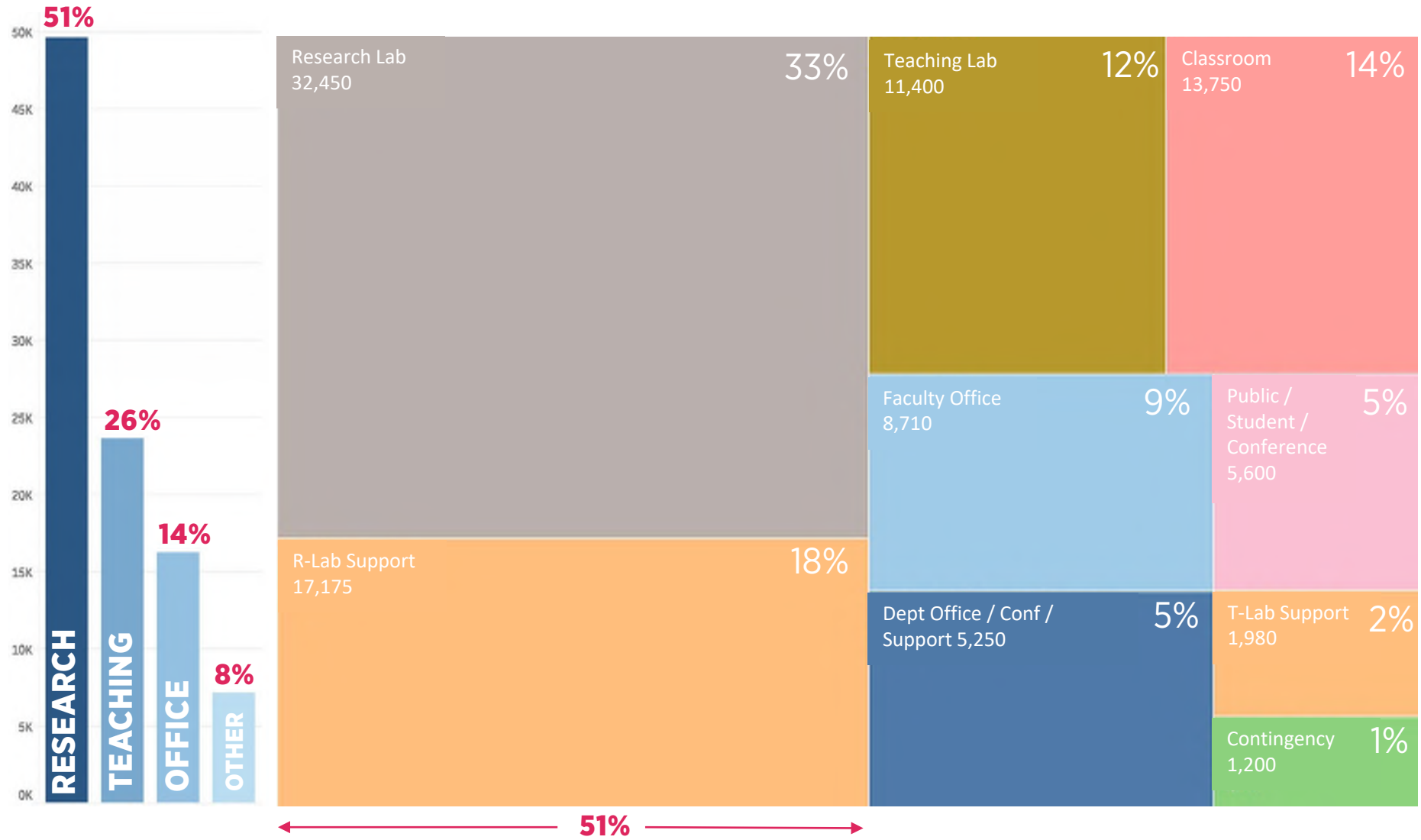
Project Overview



Project Schedule

97,500 NSF
185,000 GSF

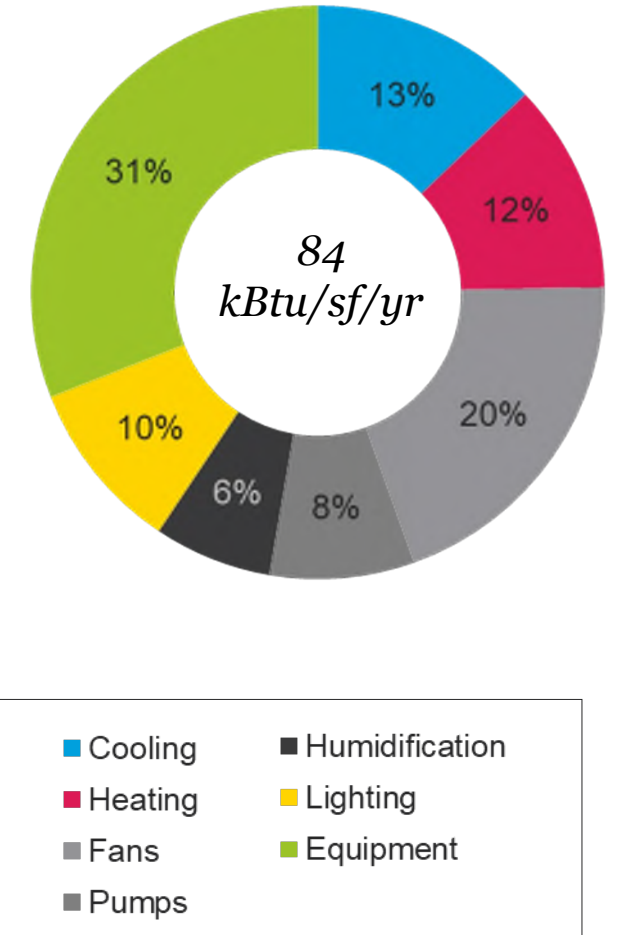
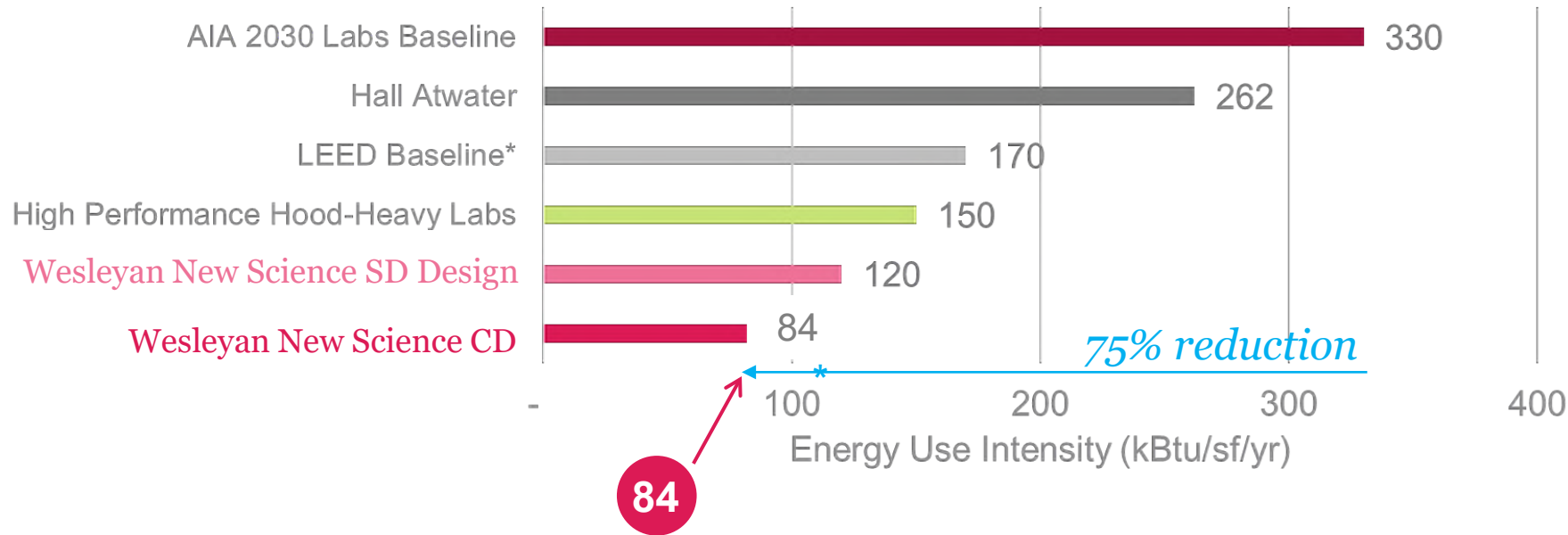
- 39 Research + support
- 9 Teaching Labs.
- Vivarium + Greenhouse
- 7 classrooms
- Public and Informal Meeting



Biology, Chemistry & Microbiology/Biochemistry: Research, Teaching & Campus Community

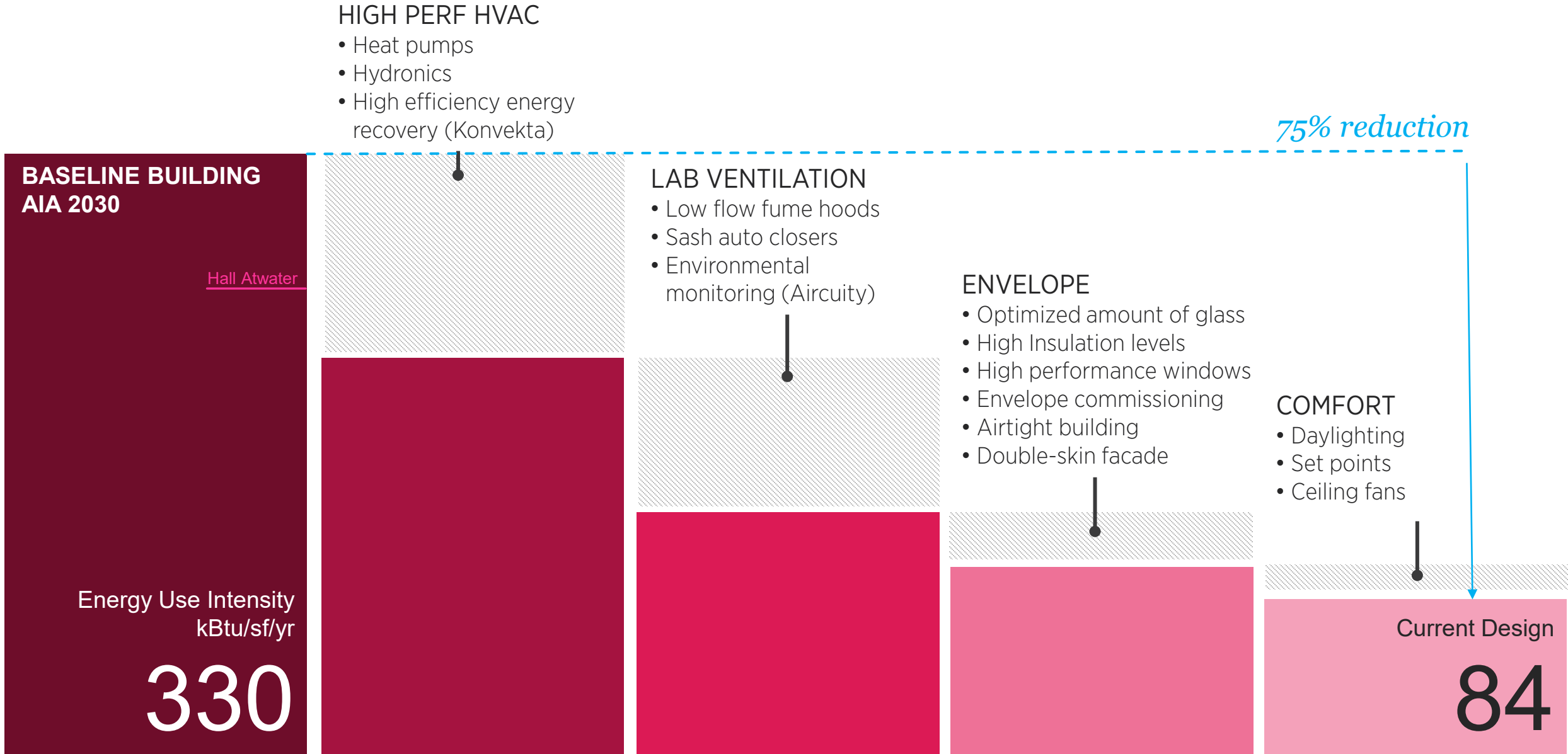
ENERGY PERFORMANCE | PREDICTED EUI

* LEED Baseline expected to increase pending conversations with USGBC.



NSB Predicted Energy Use (EUI) = +/- 84 kBtu/sf/yr

ENERGY PERFORMANCE

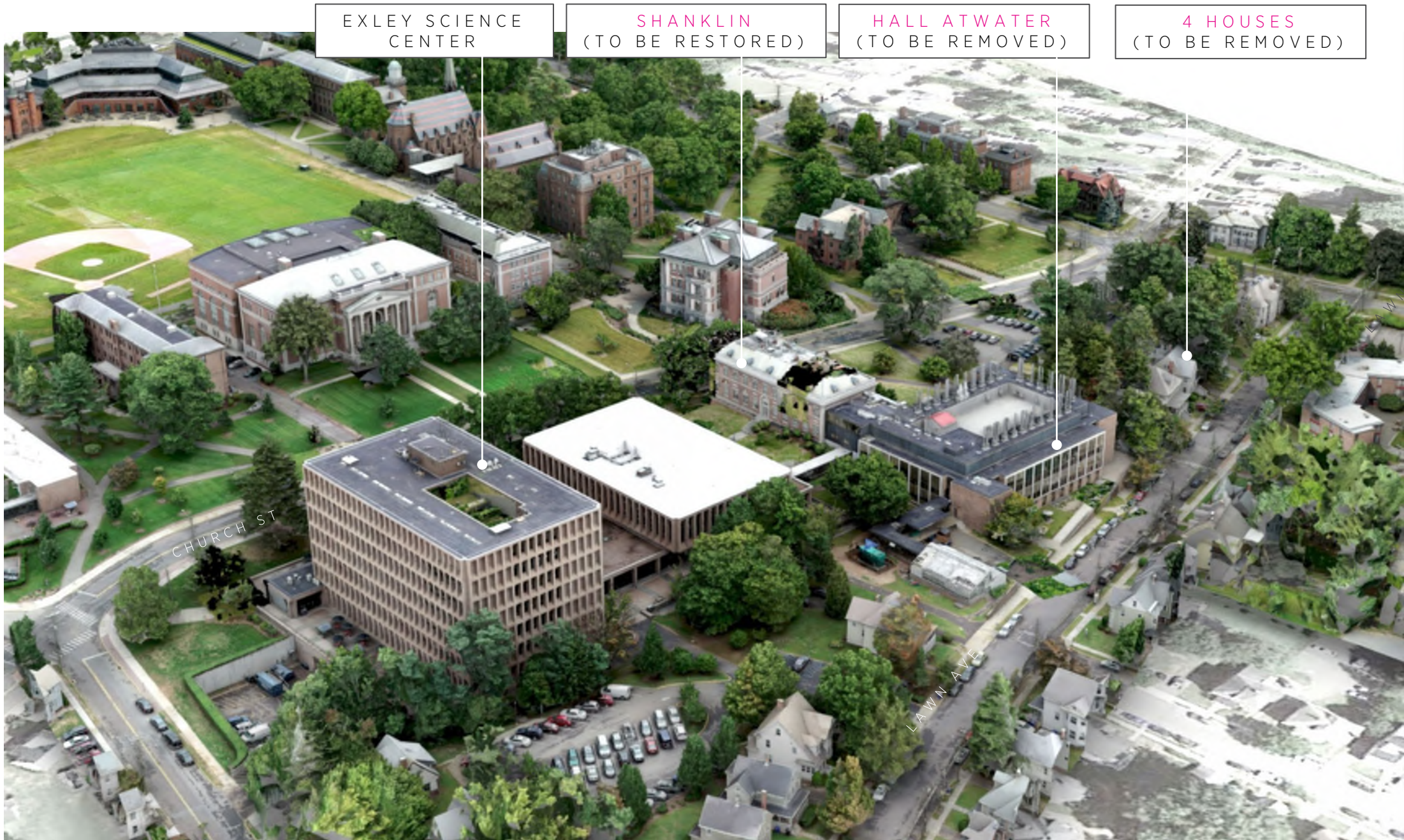


Site Strategy



New Science | Site Location





Existing Context |

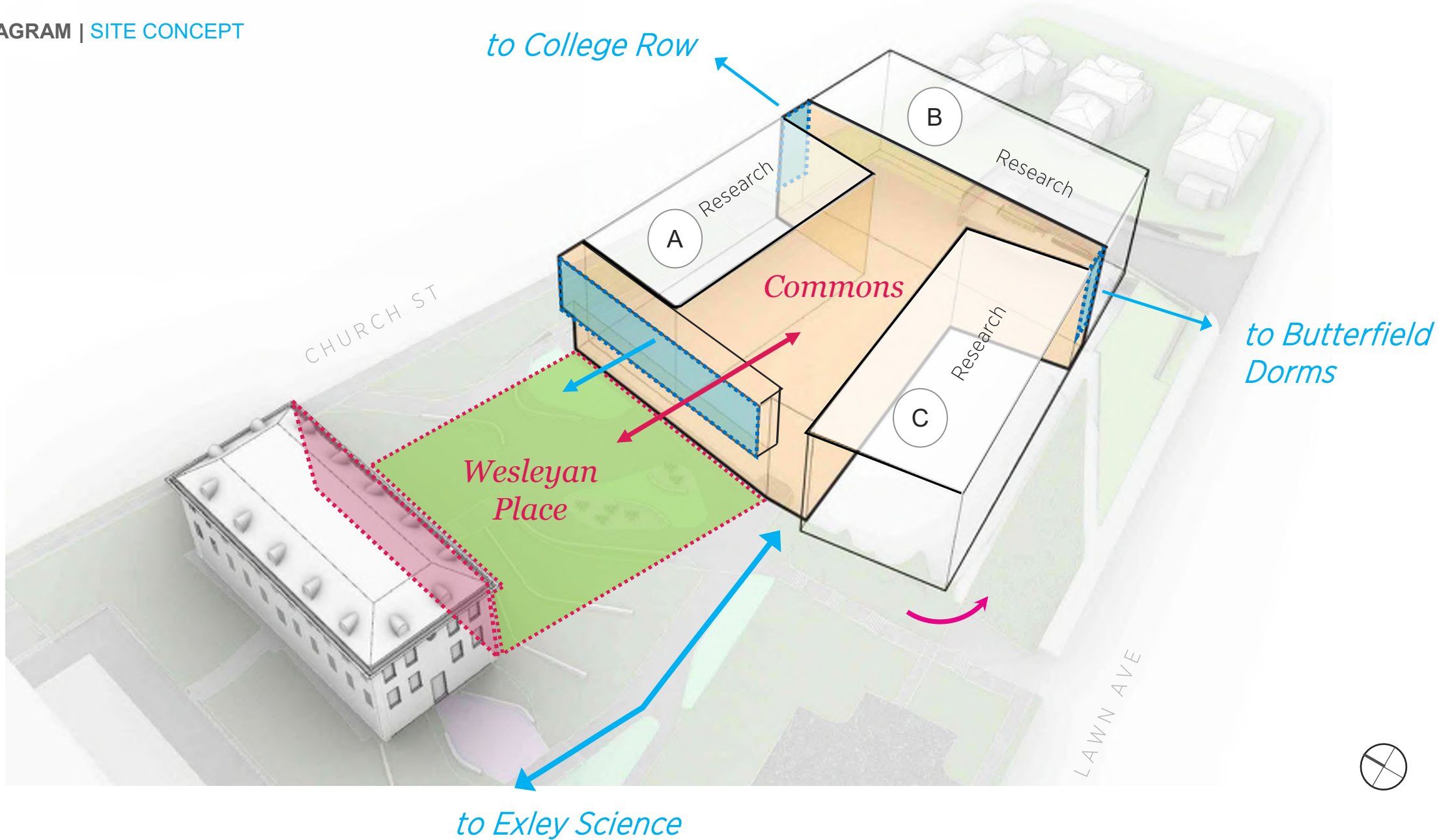
RESTORED
SHANKLIN

NEW SCIENCE



New Science Precinct | Rooted in Wesleyan context

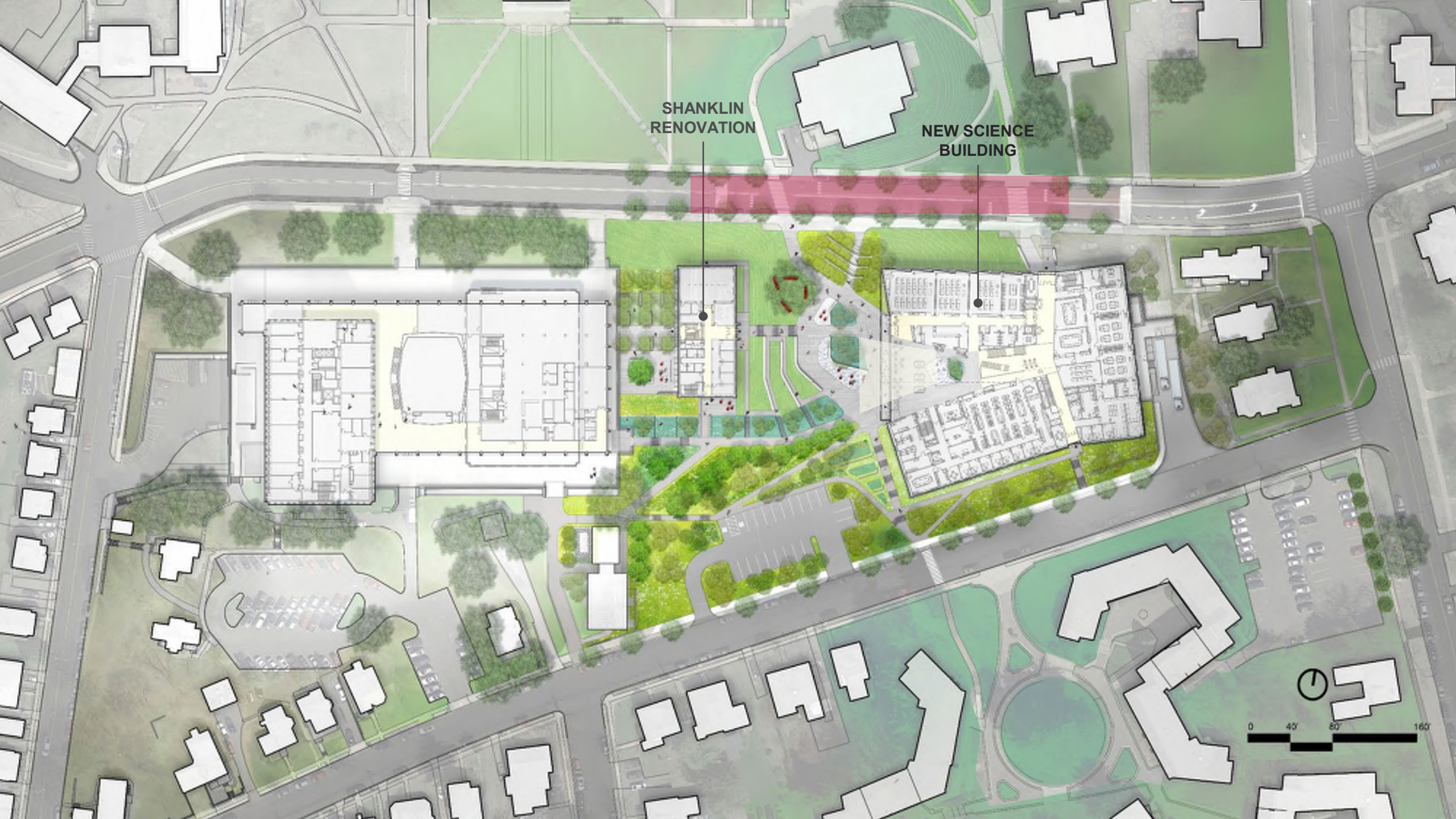


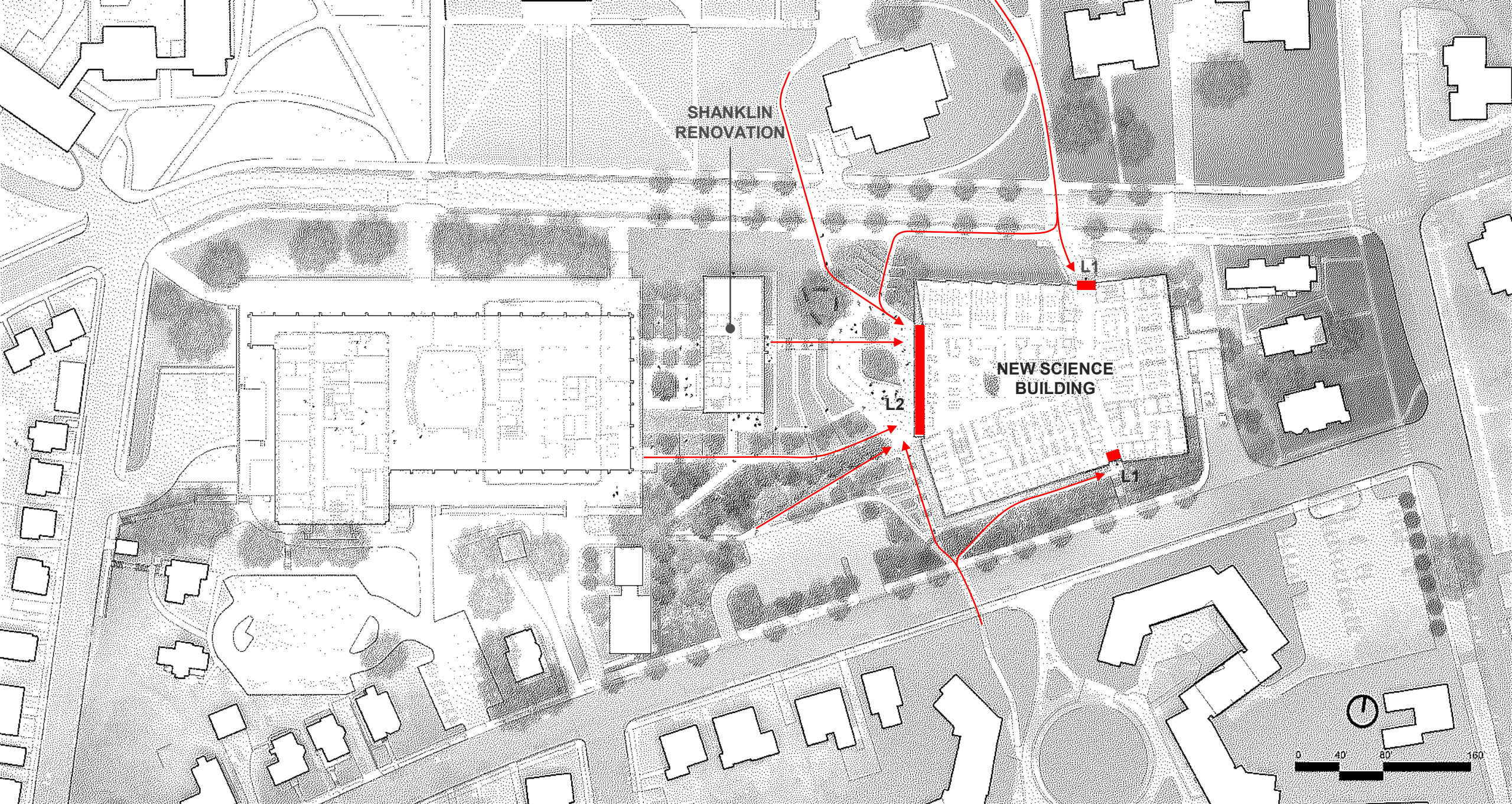


Massing Concept | Connecting Sciences to Campus

SHANKLIN
RENOVATION

NEW SCIENCE
BUILDING





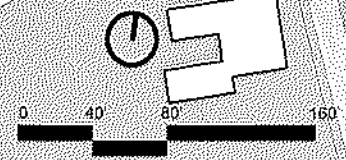
SHANKLIN
RENOVATION

NEW SCIENCE
BUILDING

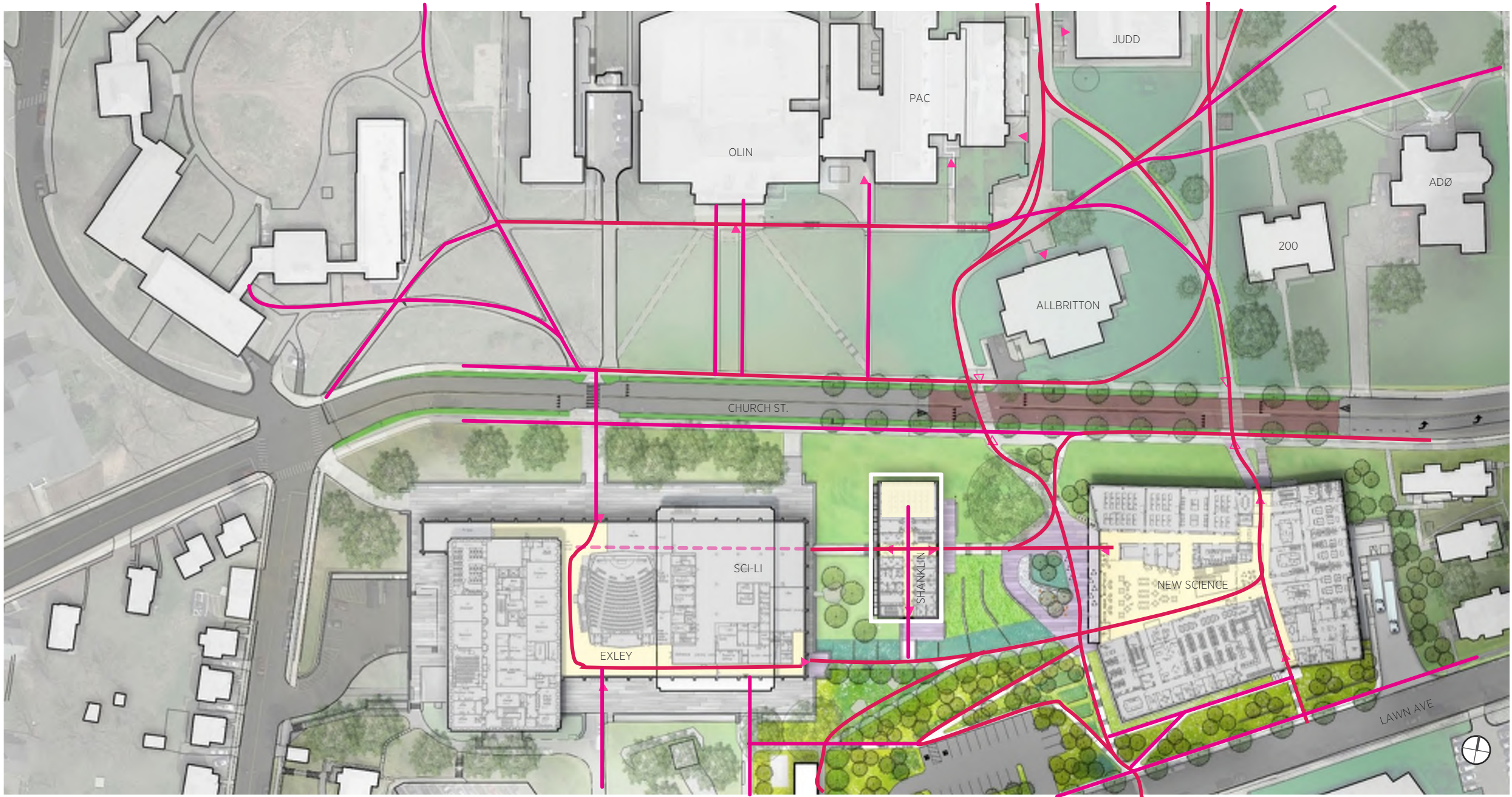
L2

L1

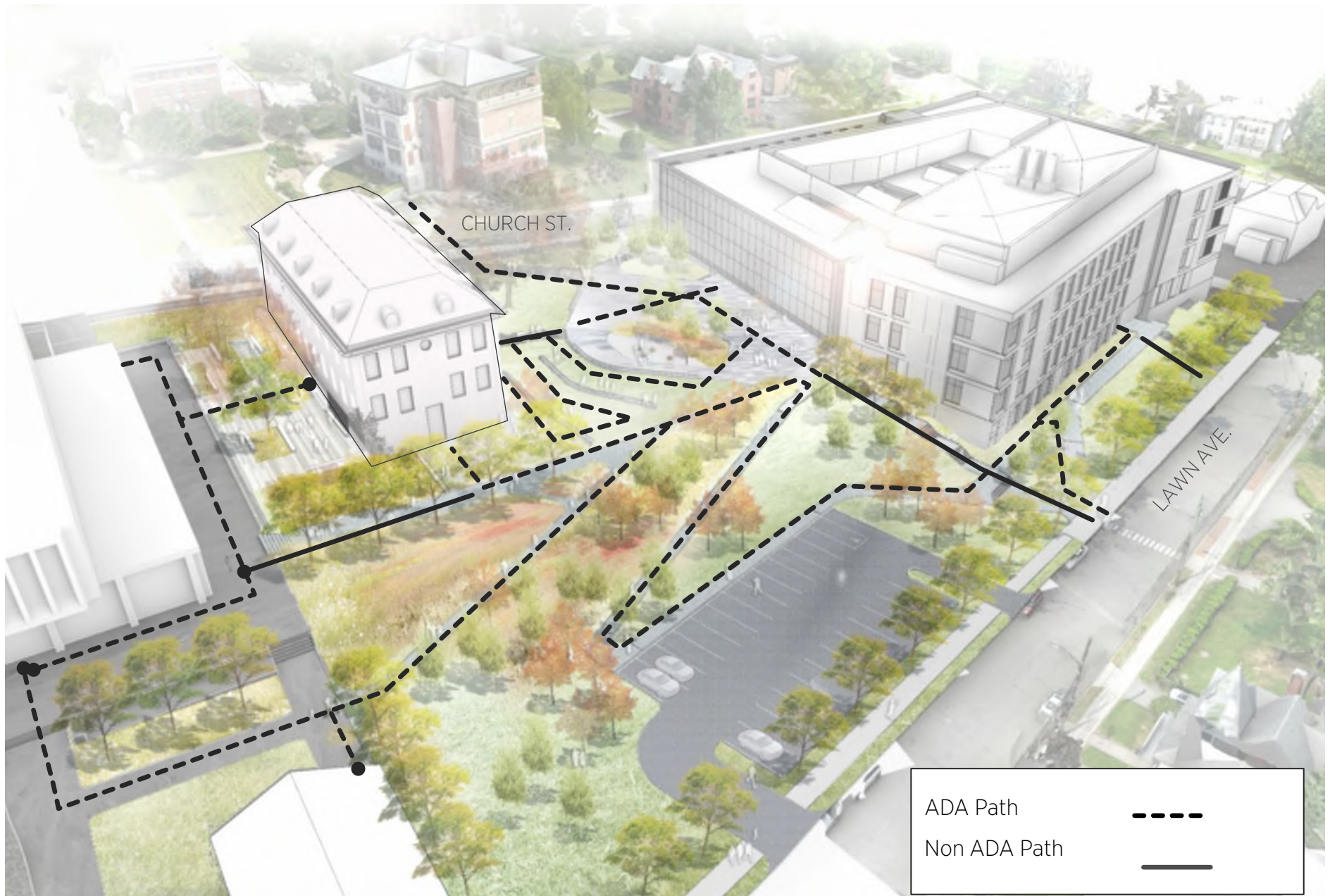
L1



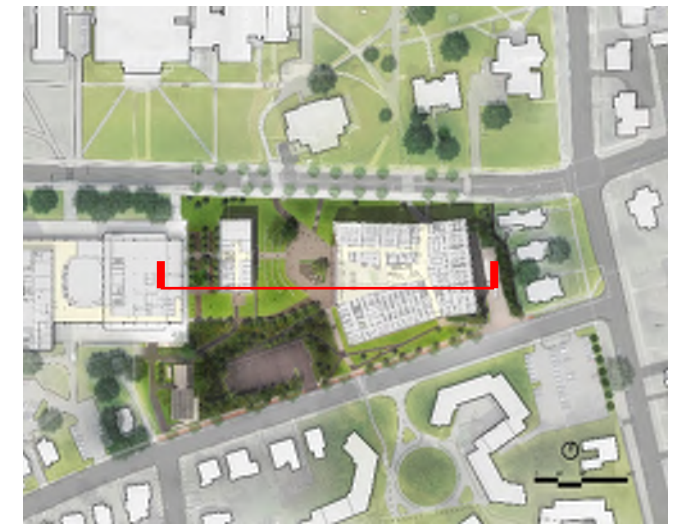
Campus Access | Approach & Front doors



Bridging Church Street | Welcome, Accessibility, Safety & Gateway



Connected Science Precinct | Accesibility across 35' hill



SITE SECTION









Gleditsia triacanthos
Honey Locust



Quercus coccinea - Scarlet Oak



Quercus rubra
Red Oak



Acer rubrum
Red Maple



Tilia cordata - American Linden



Magnolia kubos
Kubos Magnolia



Tilia Cordata - American Hornbeam



Ginkgo biloba - Ginkgo



Betula Nigra -
River Birch



Liquidambar styraciflua
Sweetgum



Acer Japonicum 'aconitifolium'
Japanese Maple



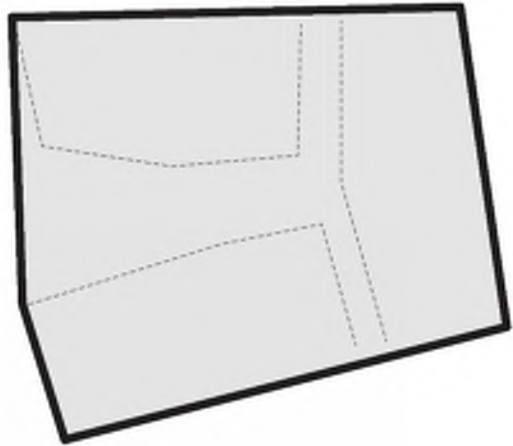
Amelanchier -
Serviceberry

TREES & CANOPY

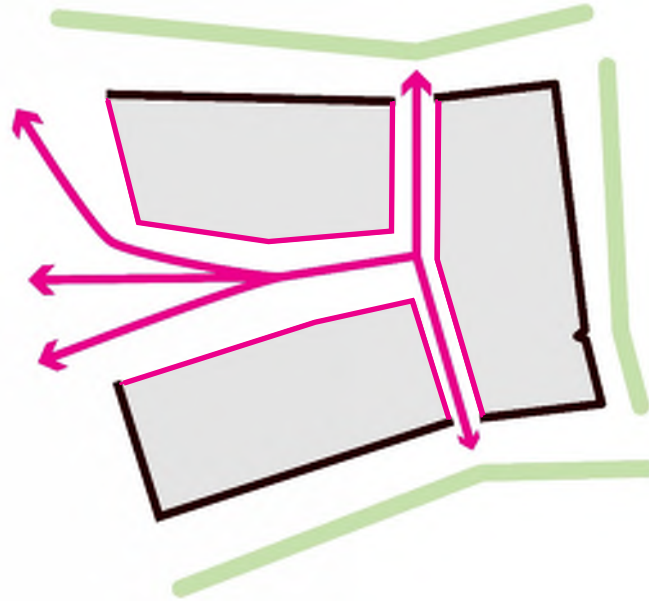
Exterior Expression



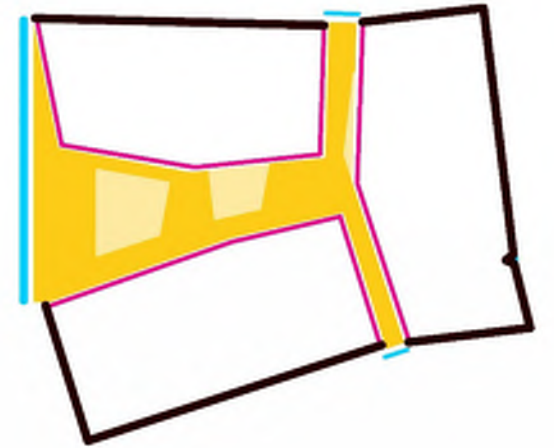
Campus Access | Exterior Expression



ONE BLOCK



SITE FORCES / EROSION
CLUSTER ORGANIZATION



CONNECTIVE TISSUE /
INFILL COMMONS

Concept diagram | Clusters + Commons



Wesleyan Place | view from Shanklin



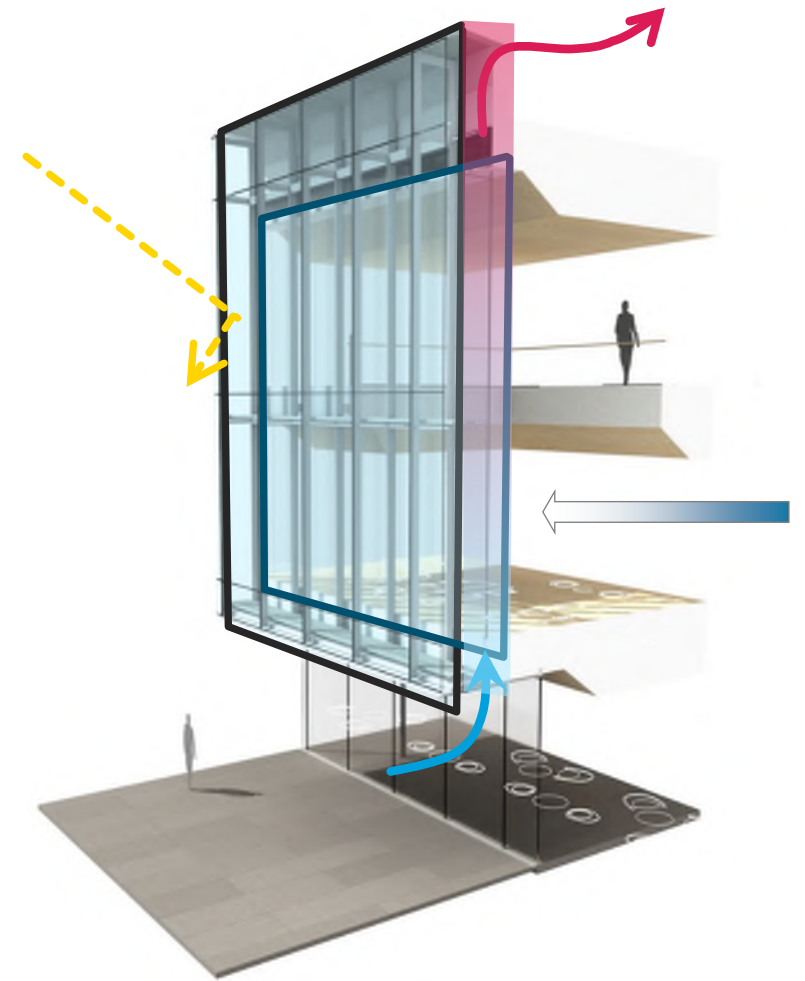
Campus identity | College Row approach



Lawn Ave | Butterfield Crossing



Wesleyan Place | Allbritton Crossing



REDUCE



Annual Heating



Peak Cooling

MAINTAIN



Transparency



Thermal Comfort



Visual Comfort

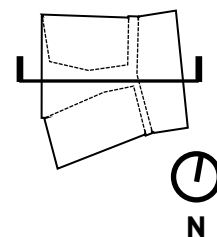
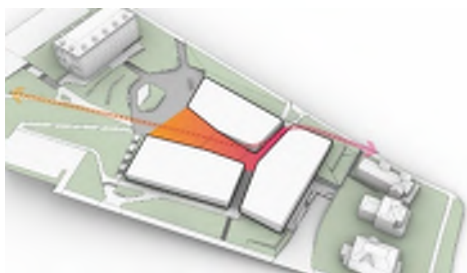
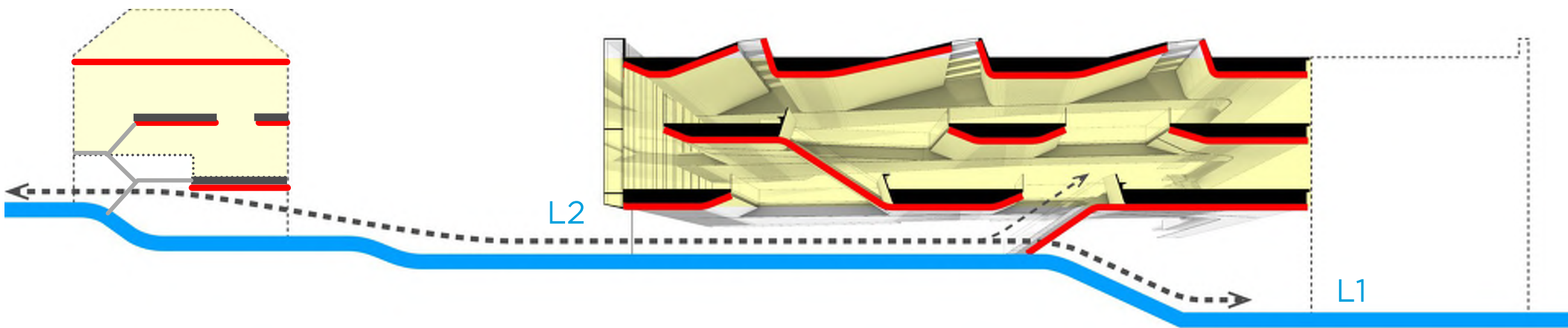
Beacon to Science: High Performance Double Skin Facade

Interior Identity

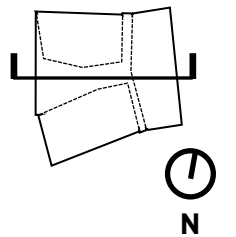
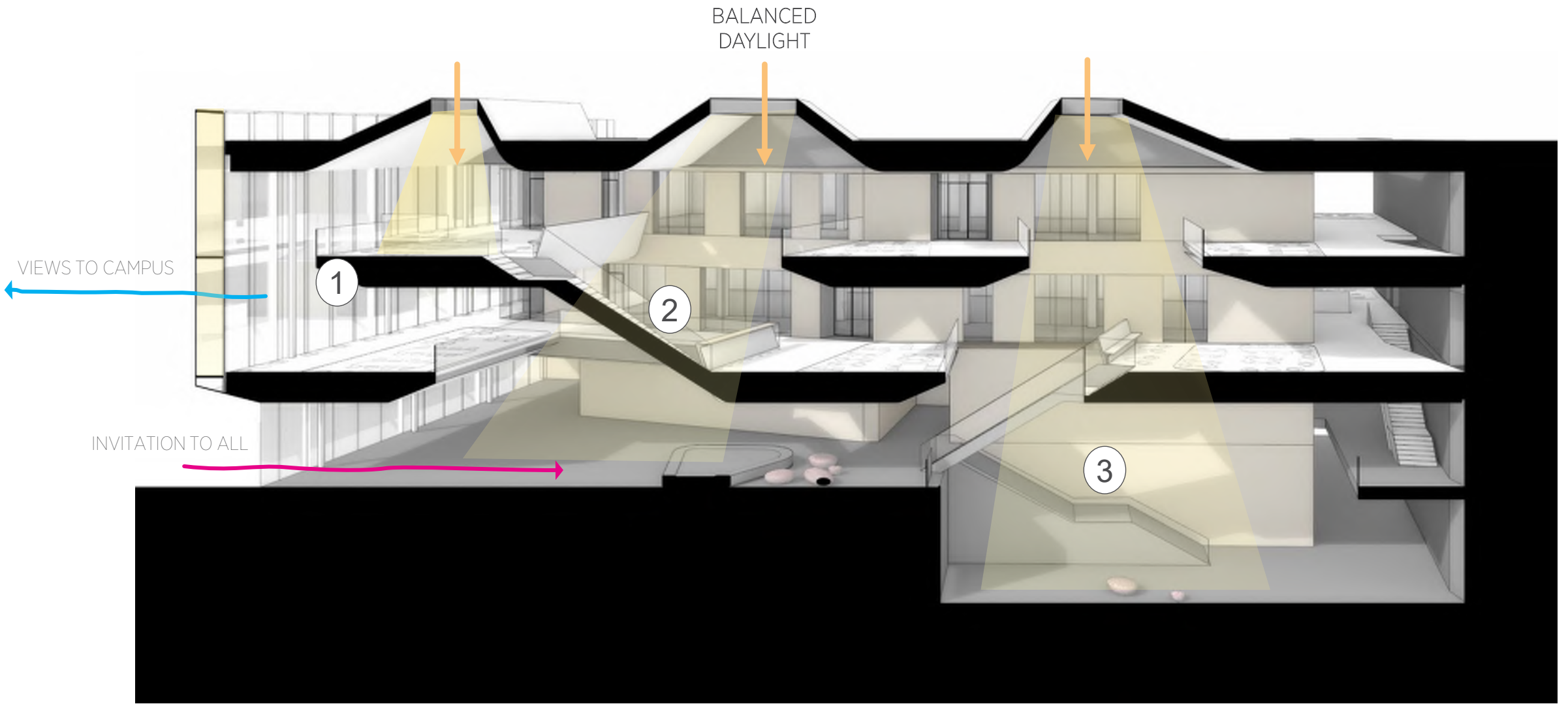
The Atrium



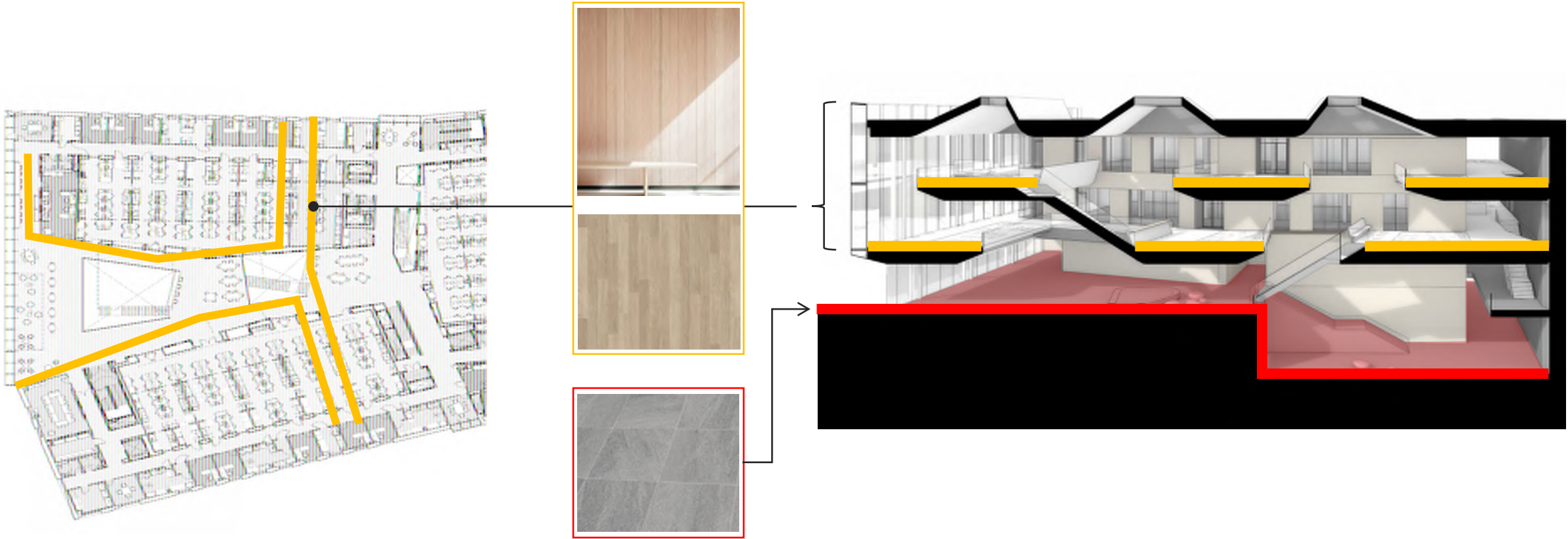
the idea | connected research over active ground plane



Commons diagram | embracing flow and invitation



Commons diagram | distinct spaces formed by skylights



Materiality | Natural Materials – Commons



Daylight

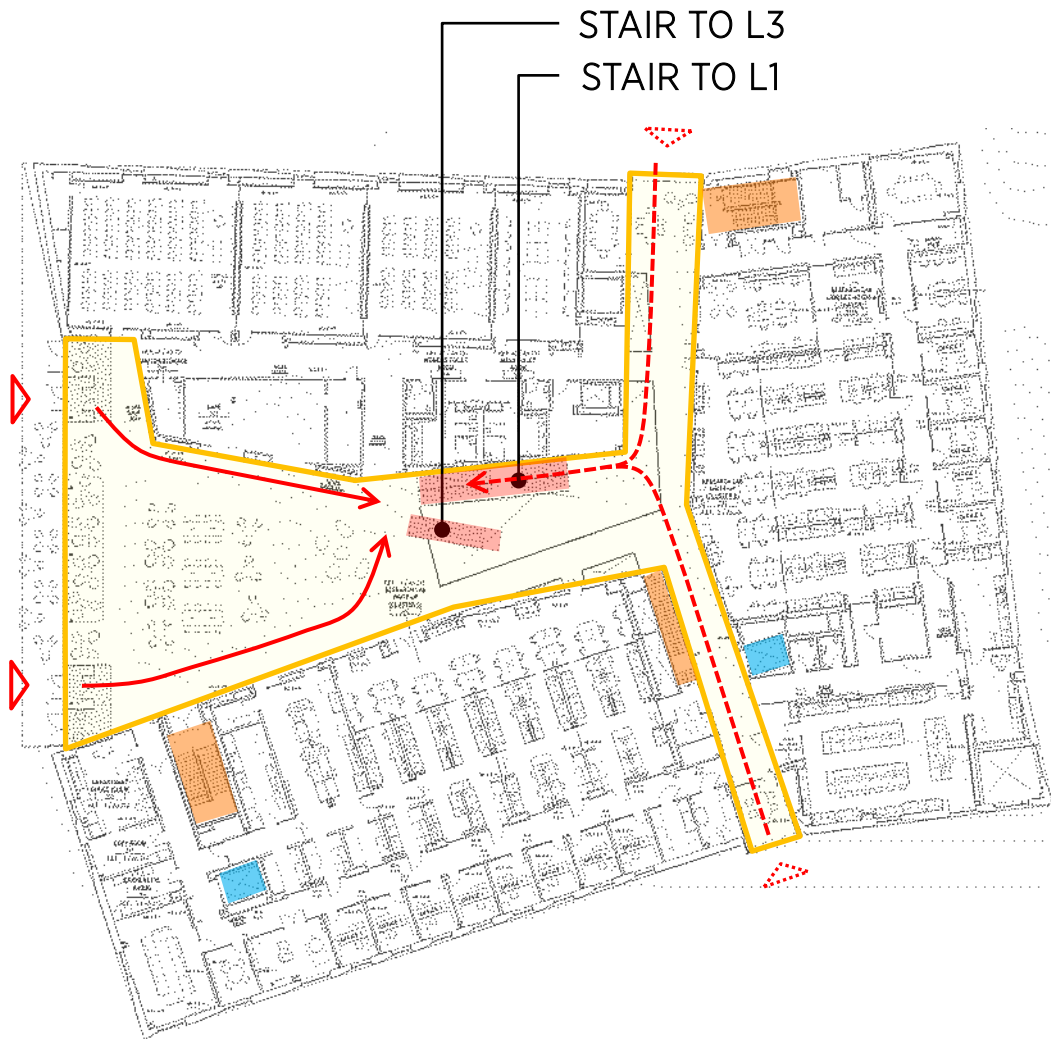


Natural Stone & Wood

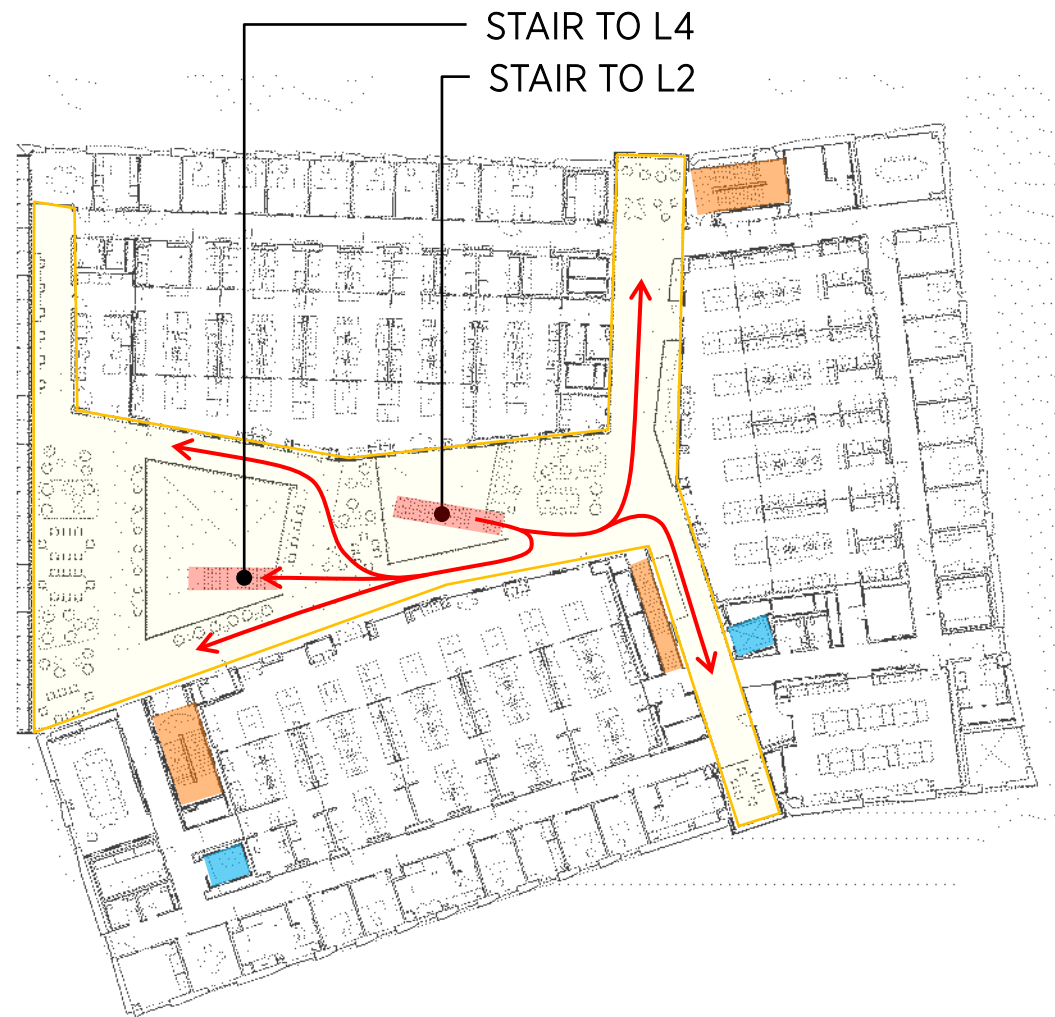


Accent Color

Materiality | A Simple Palette



LEVELS 1 & 2

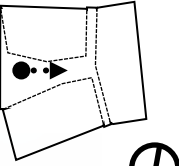


LEVELS 3 & 4

Commons Circulation



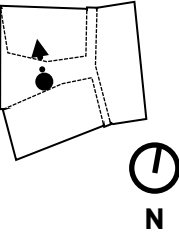
Interior Commons | View to Wesleyan Place



Interior Commons | Connecting the Science Community



Level 3 | view north to Cluster A



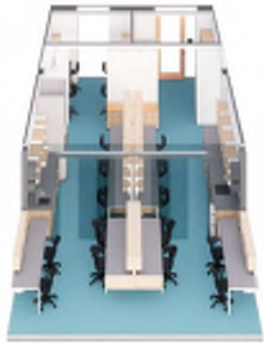
Level 2 | view north to Cluster A

Research Clusters



Layered program | Private to public (out to in)

RESEARCH CLUSTERS | CONCEPT



Biology



MB&B



Chemistry



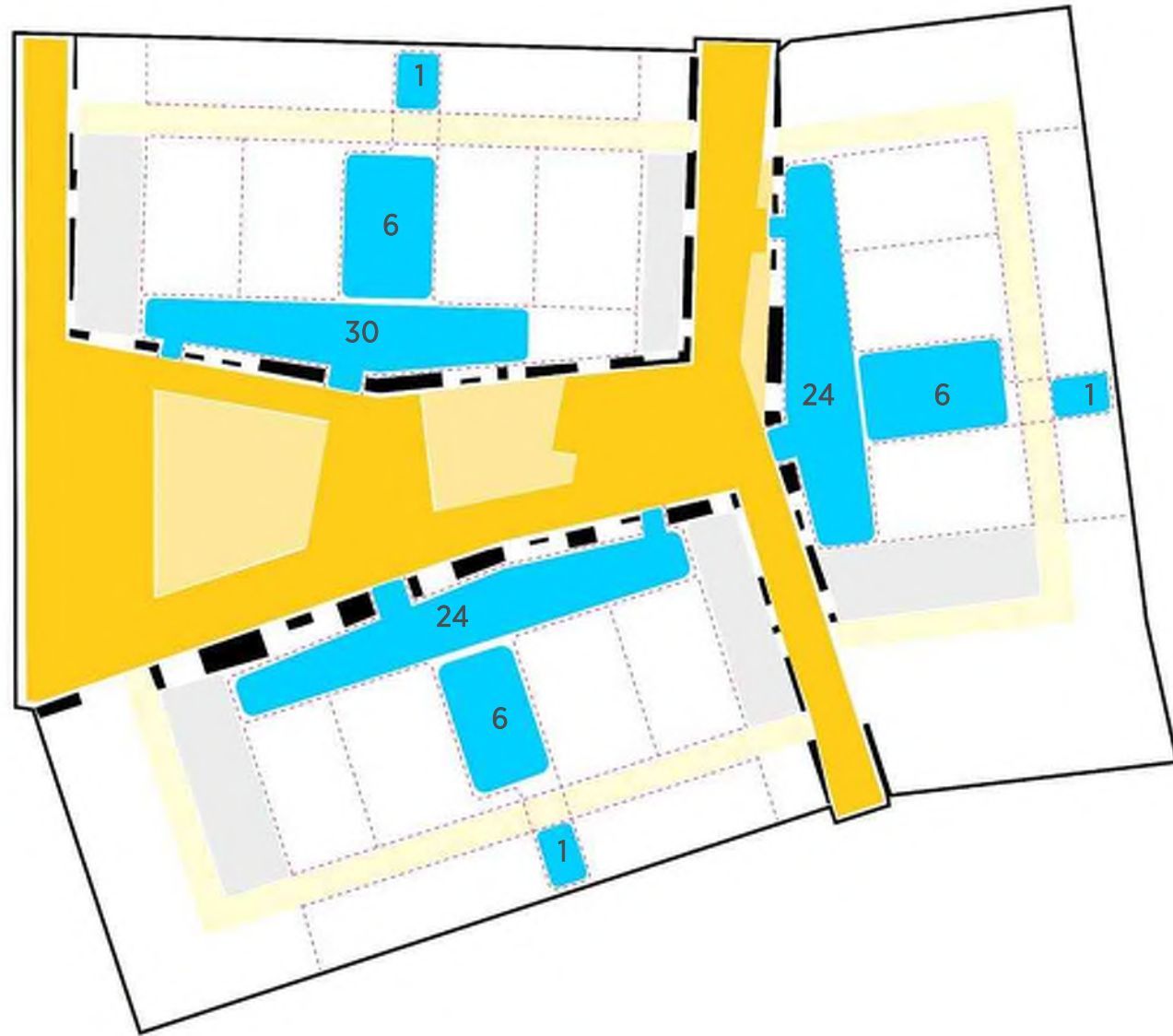
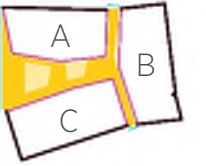
Bio Scenario

MB&B Scenario

Chem Scenario

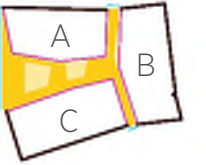
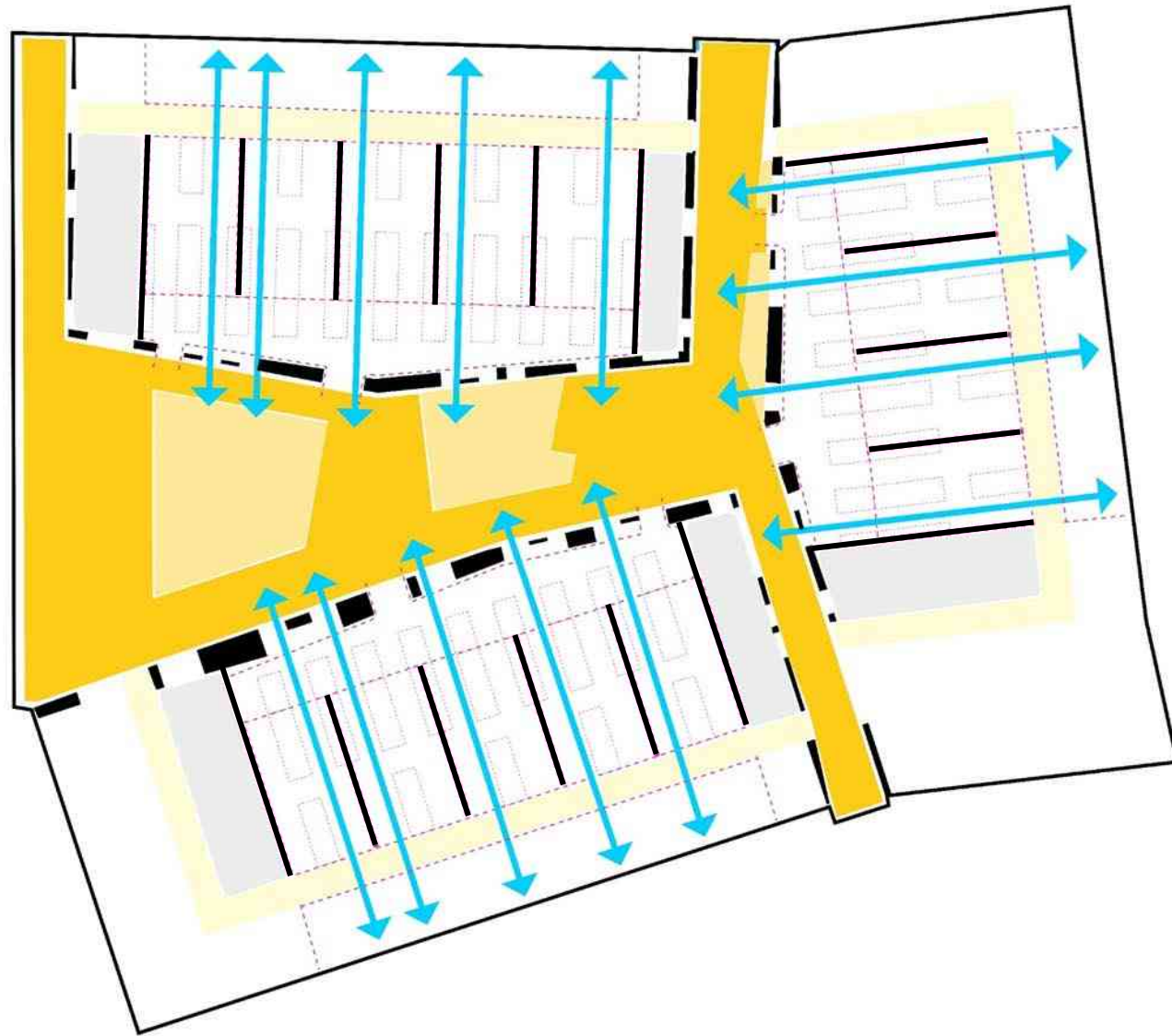
- Cluster organization
- Thematic organization of departments
 - MB&B
 - Bio
 - Chem
 - Shared
 - Overall cluster flexibility within singular floor

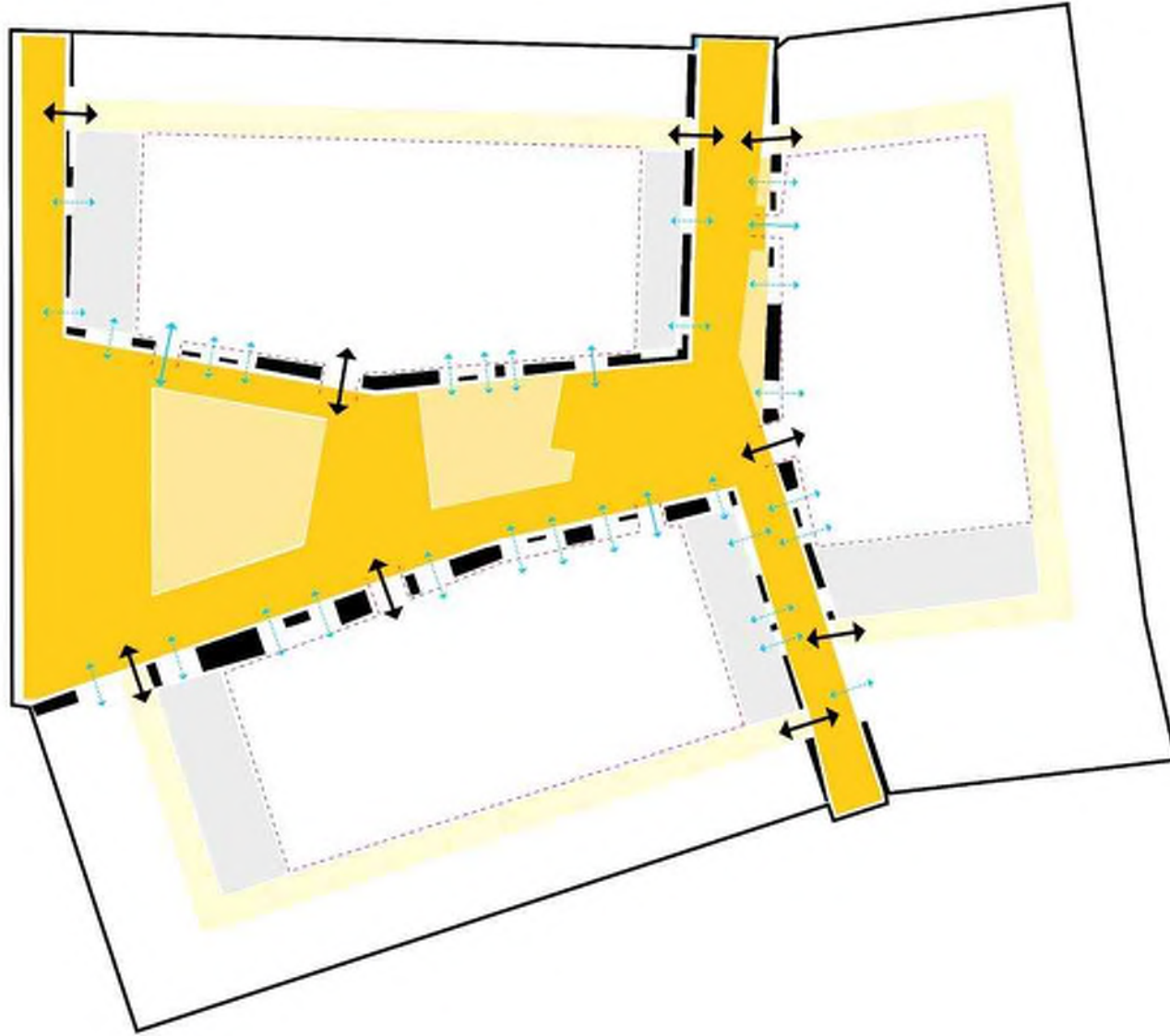
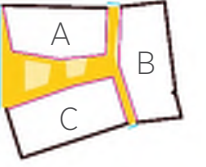
Discipline flexible | Accommodates Bio, Chem & MB&B



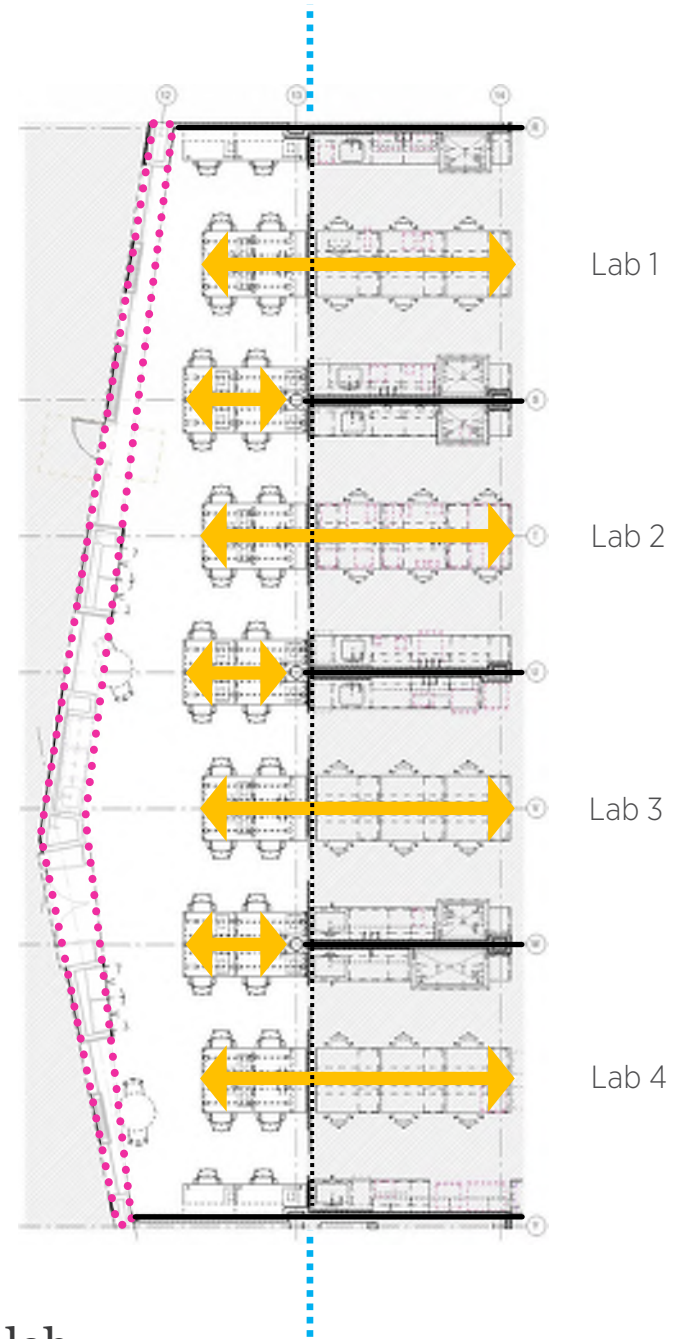
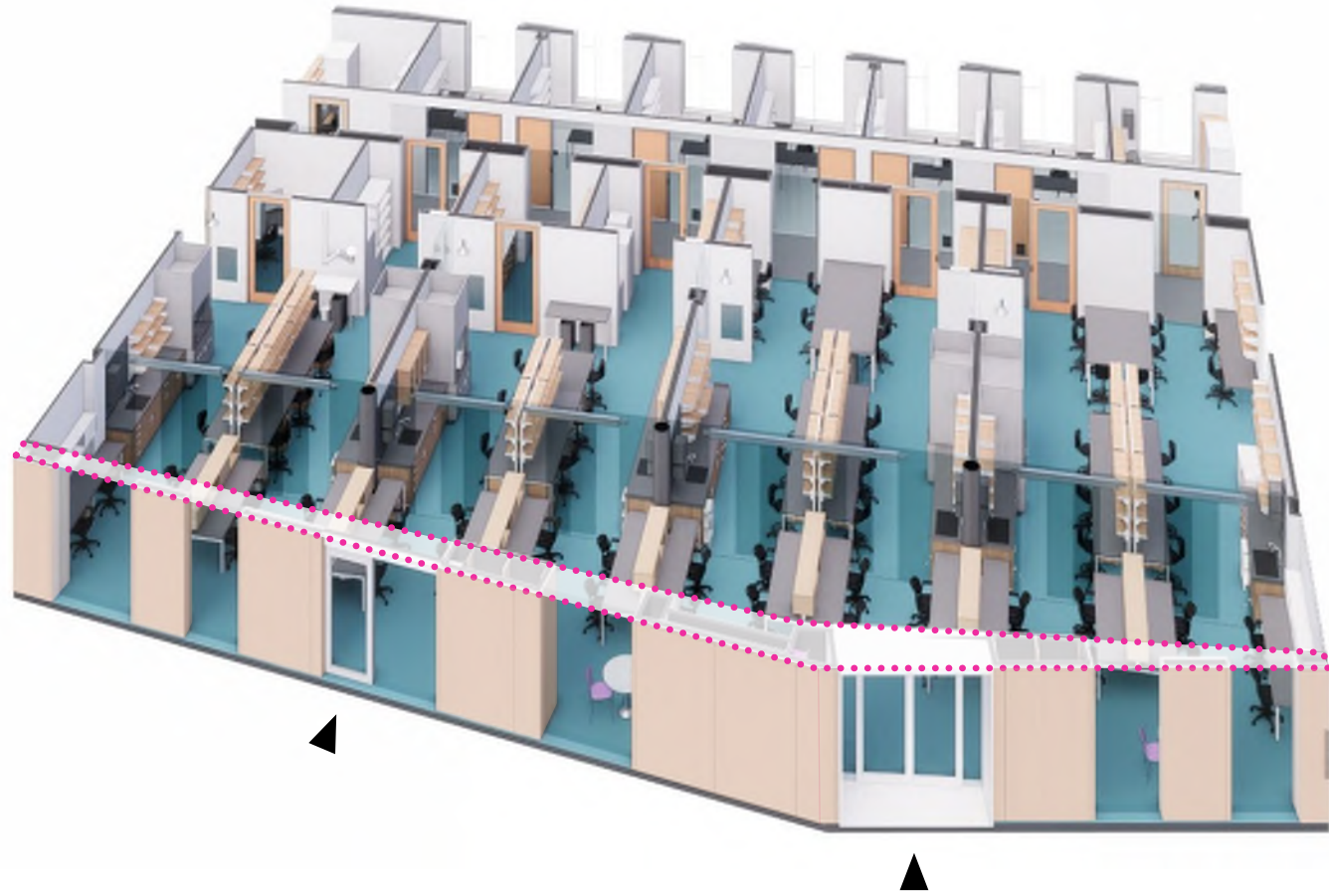
Layered program | From individual to collective

RESEARCH C





Thickened Commons Wall | Accommodates program & openings



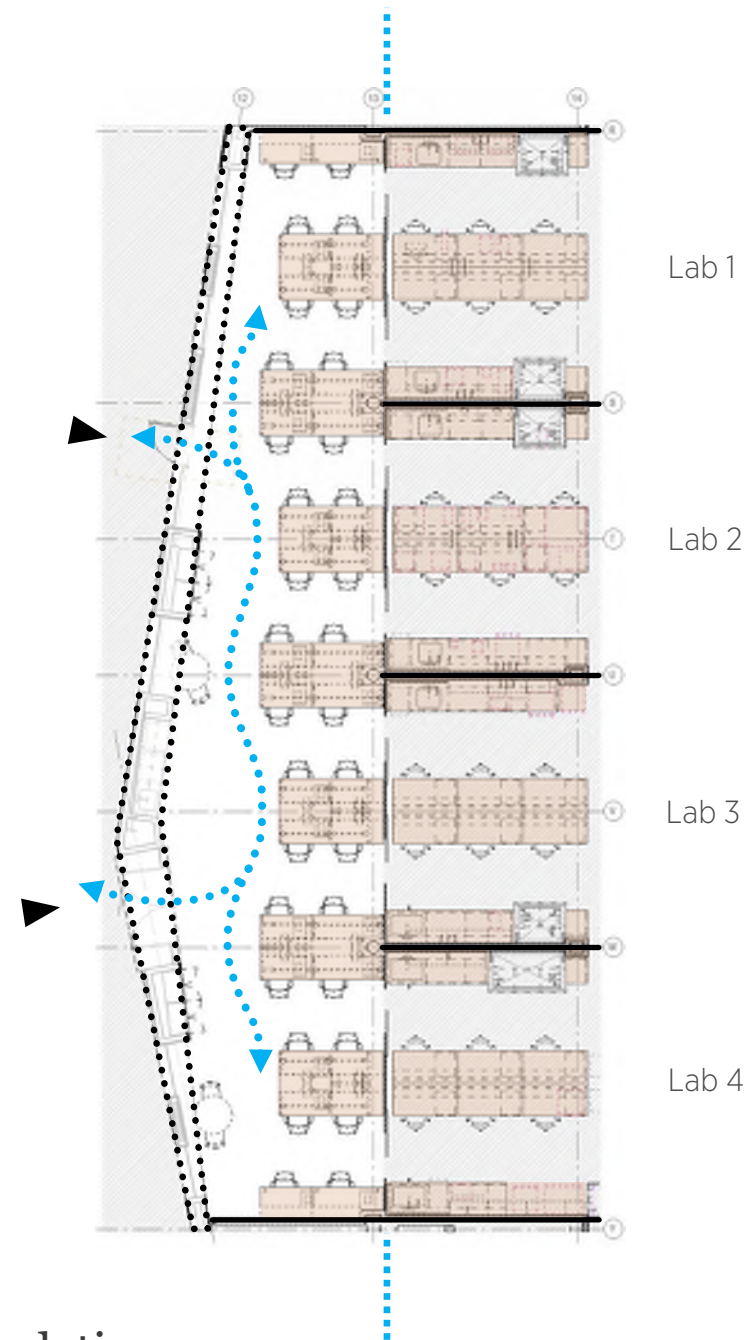
Organization | Write-up as extension of wet lab

RESEARCH LAB CLUSTER | WRITE-UP

8 desks allocated to each lab, equity for each lab with desk to lab relationship

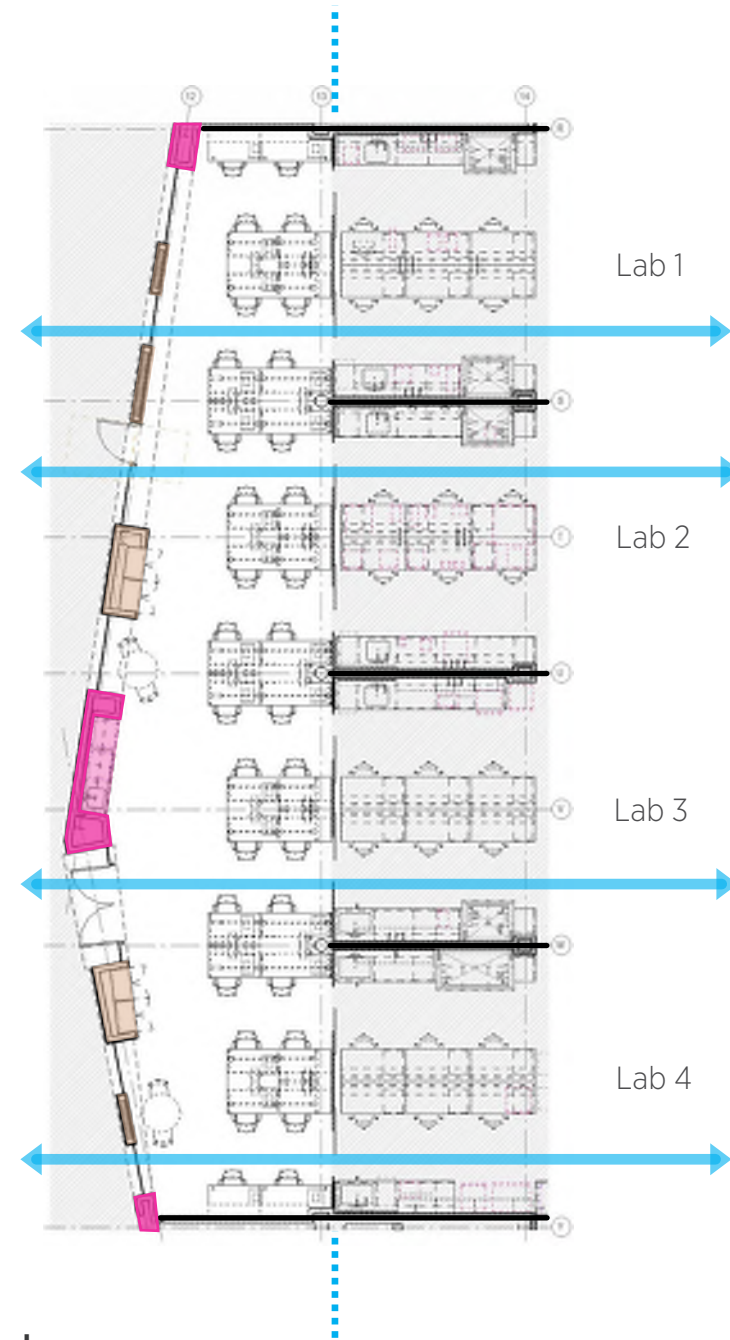
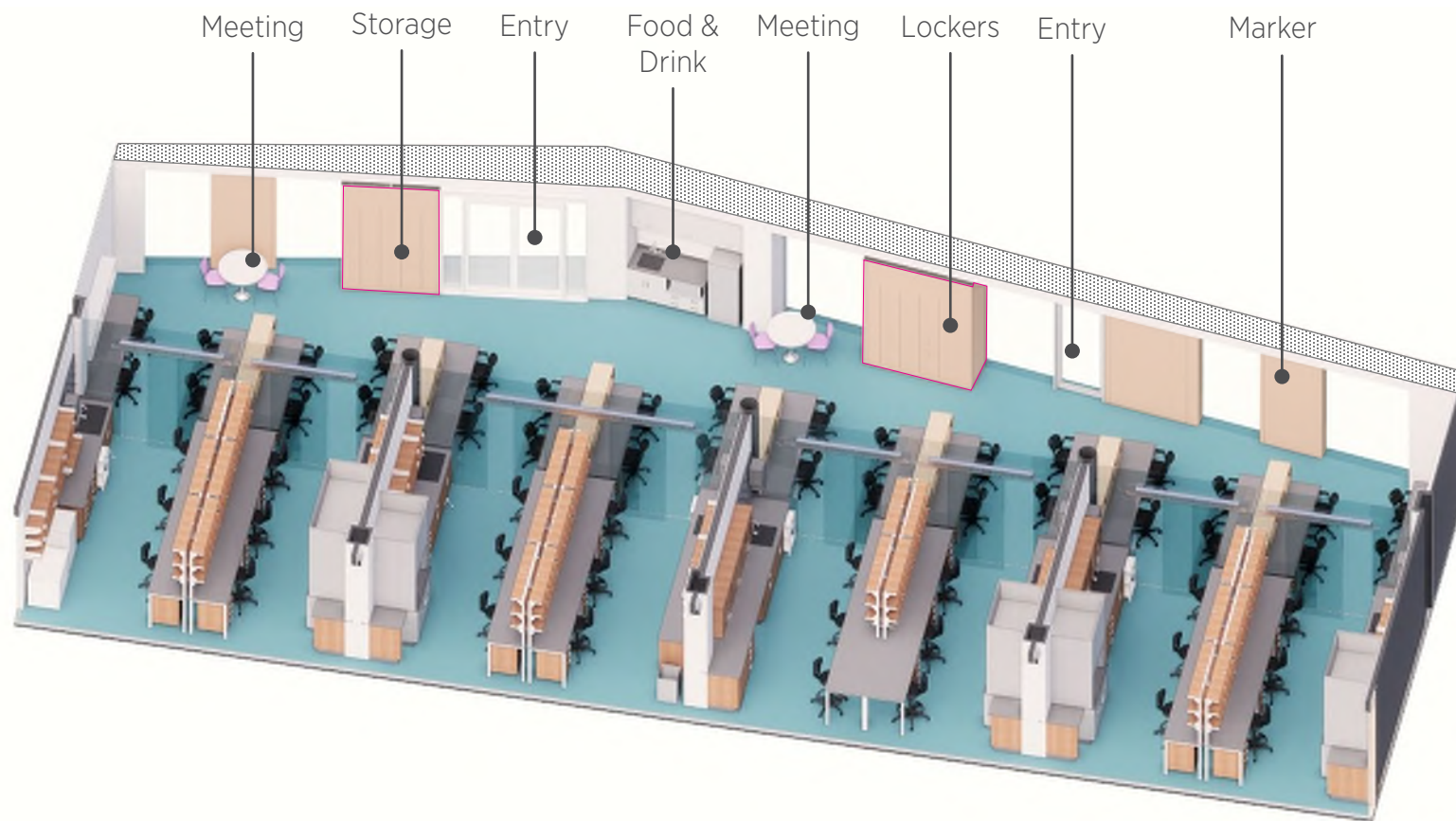
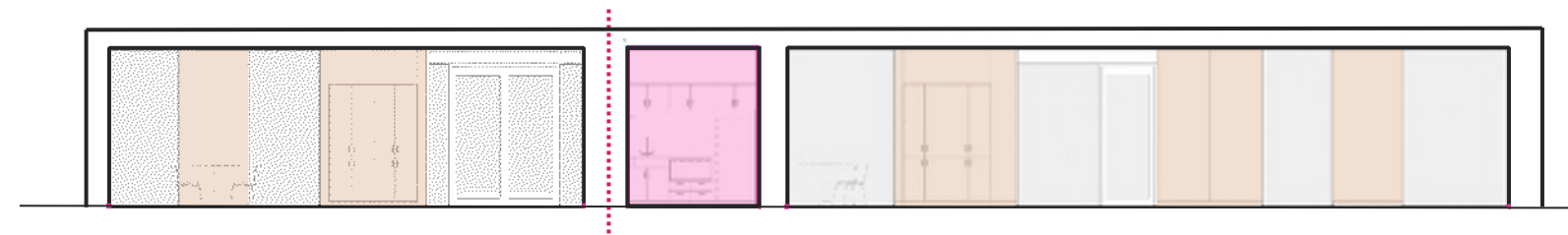
Write-Up Desks

- 2 Grad - 5.5' x 2.5'
- 6 Undergrad/flex - 4' x 2.5'
- Lockable storage above & below



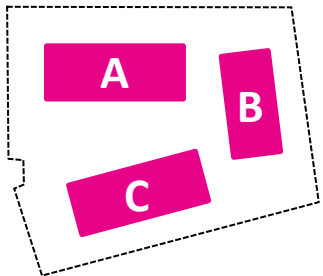
Organization | Efficiency of seating & circulation

RESEARCH LAB CLUSTER | WRITE-UP

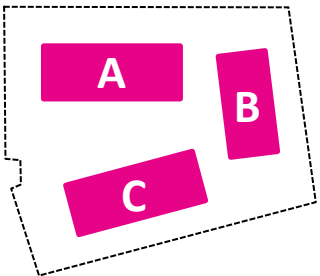


Organization | Shared programs kit of parts

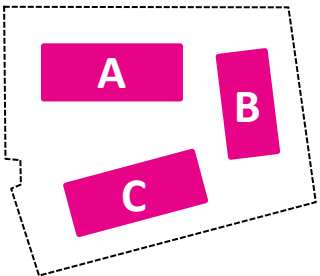
Floor Plan Organization



Typical Research Lab Floor | 3 Clusters

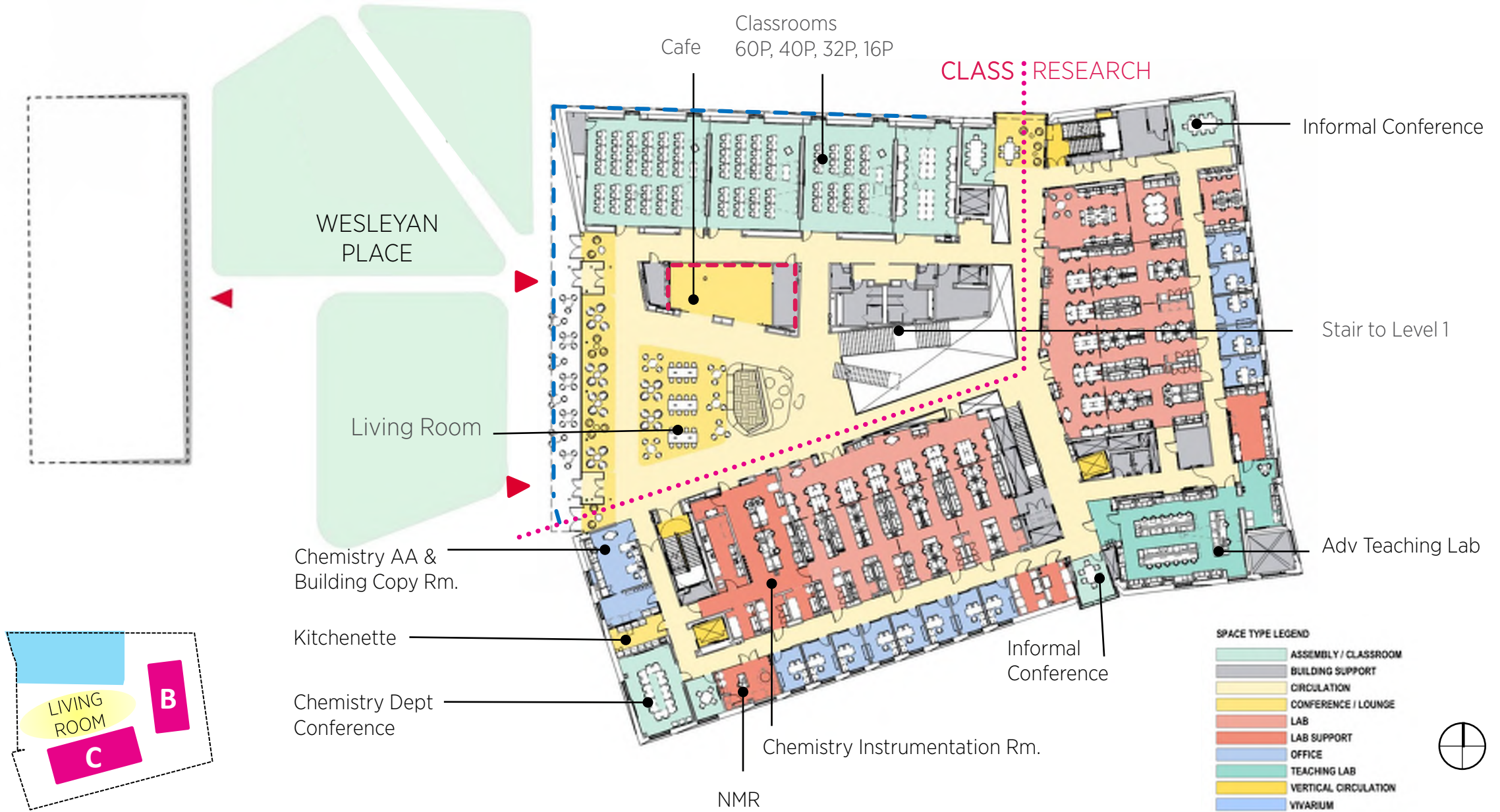


Level 4 | Research (Biology)

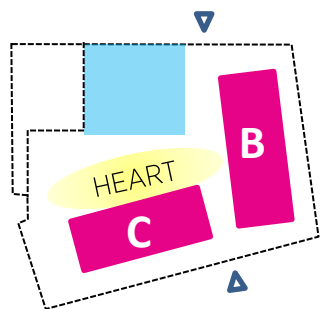


Level 3 | Research (MB&B)

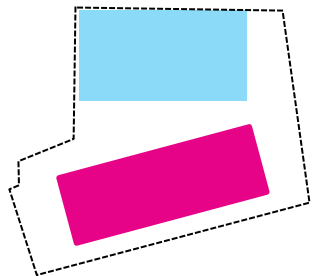
FLOOR PLAN | LEVEL 2



Level 2 | Lobby, Classrooms & Research (Chemistry)



Level 1 | Teaching Labs and Classrooms

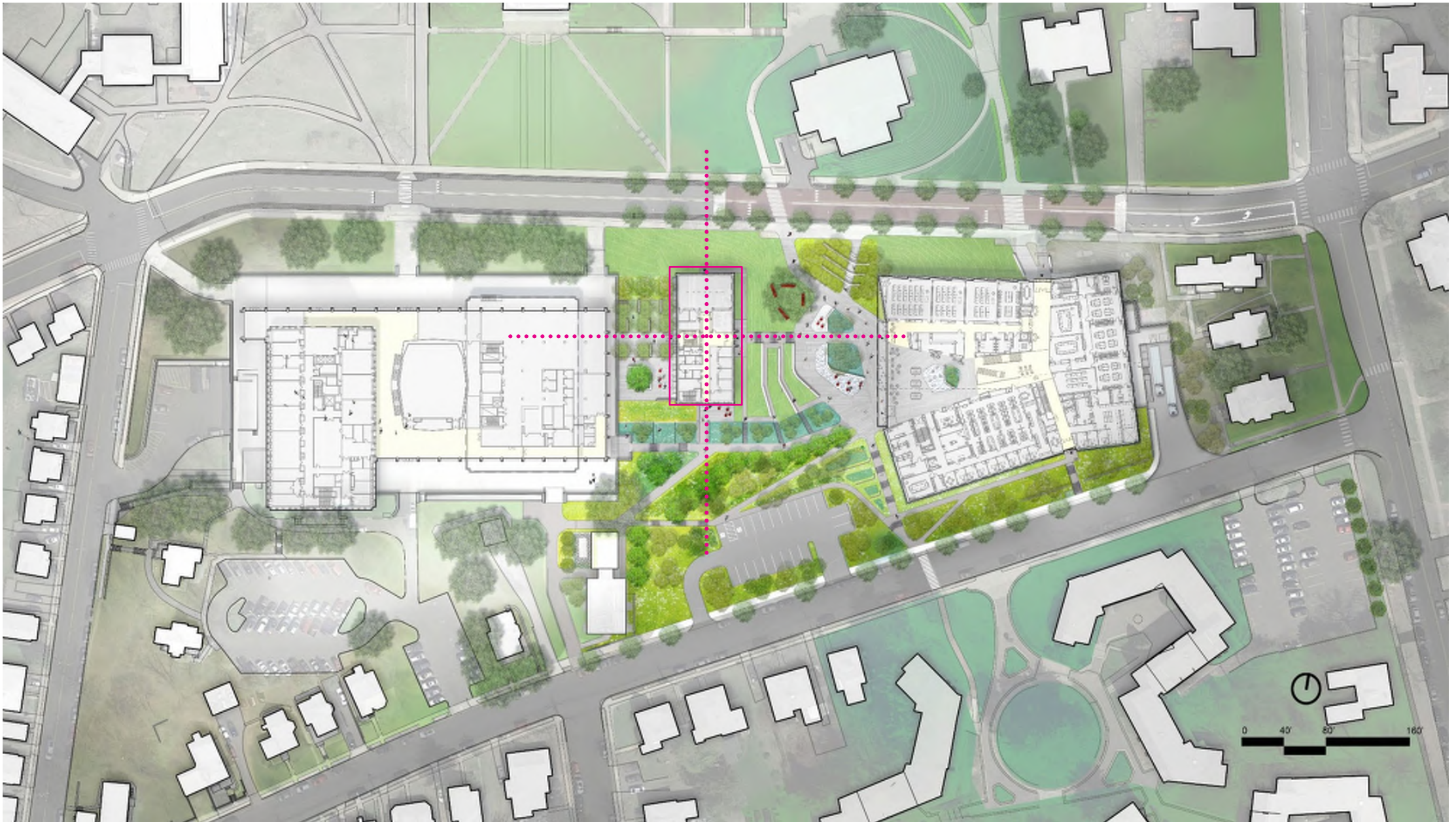


Basement | Vivarium, Mechanical & Loading

Shanklin Renovation



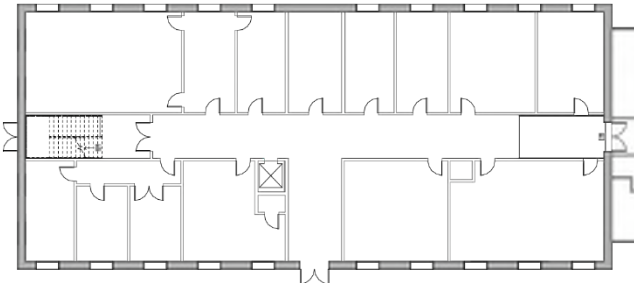
Shanklin | Revive & Maintain historic asset



Shanklin | Pivotal Role for New Science



Recreate façade where HA currently located



Maintain façade / New interior

PROJECT GOALS

- New home for COE & CIS
- Maintain & Revitalize Historic Asset
- Connect Shanklin & COE with the Campus & the Sciences
- Improve (fix) Shanklin's relationship to the site / grades
- Resolve Shanklin Accessibility Issues



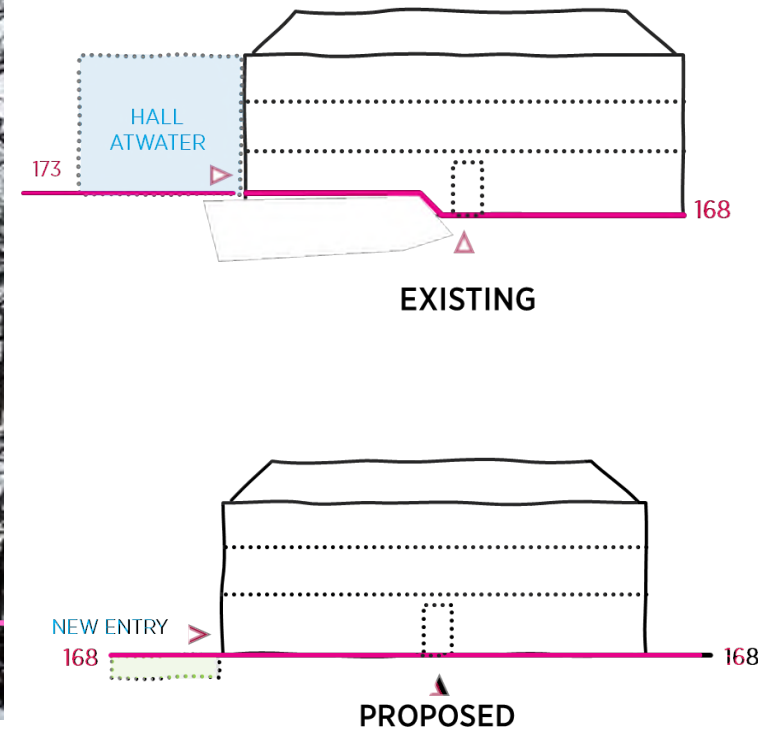
Elev. 173'-0"

Elev. 168'-0"

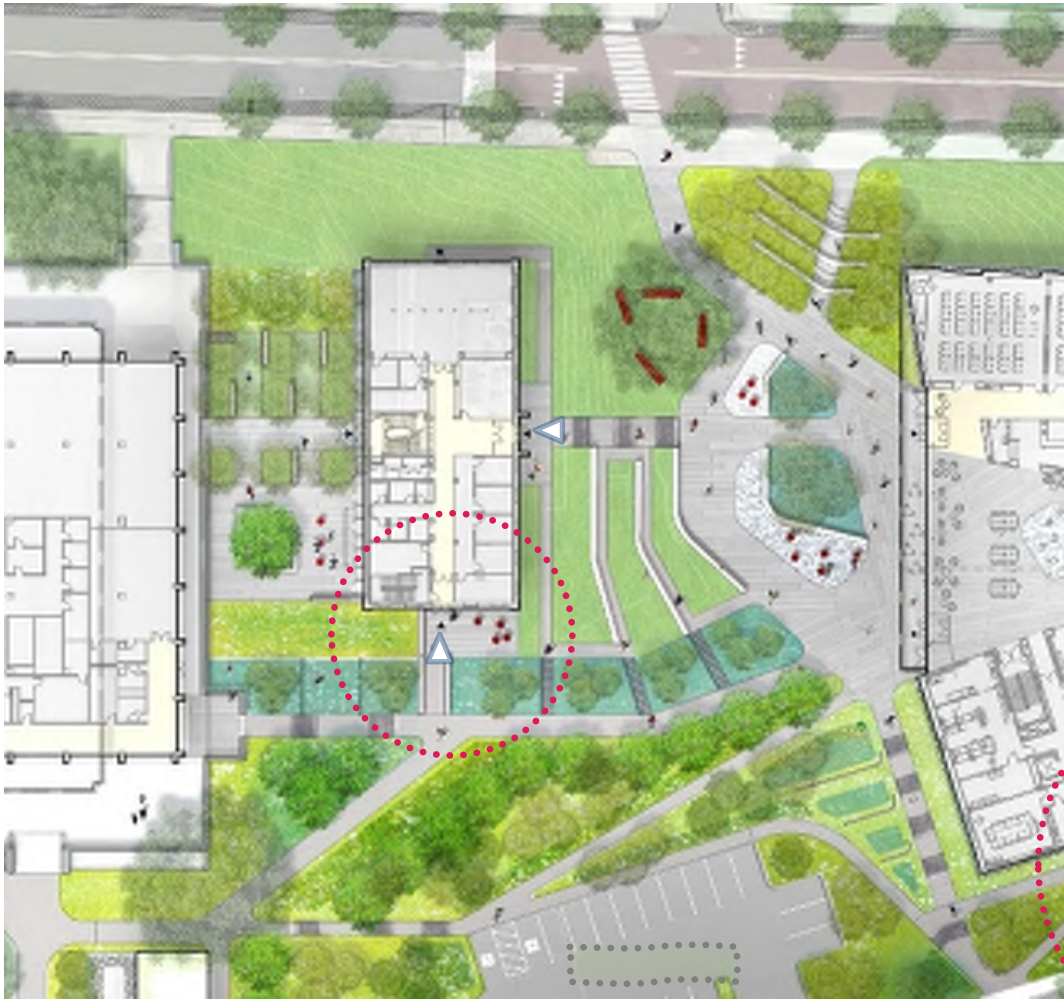
Slab on south side of building to be lowered to keep entire L1 at Elev. 168'-0"

Steps to be removed in RM 107

Steps and exterior grade to be modified



Restore Shanklin Façade | Improved & Accessible relationship to grade

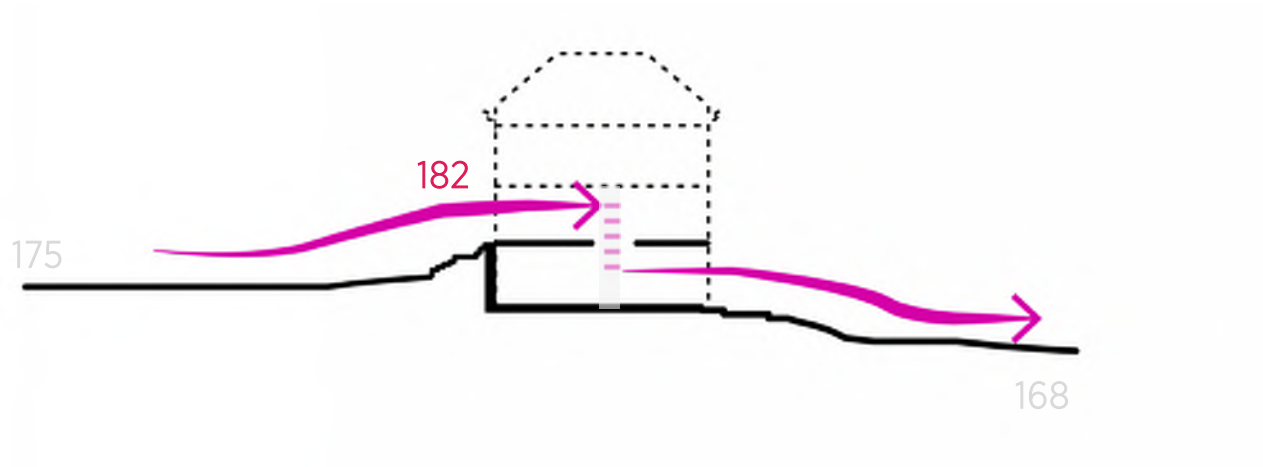


NEW ENTRY & TERRACE

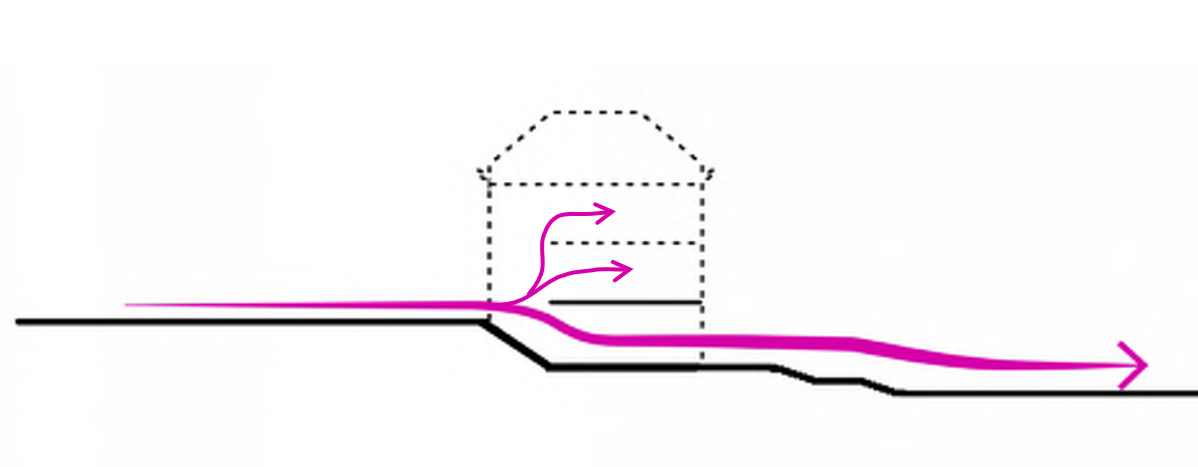


NEW ENTRY & TERRACE

North South Axis | Improved & Accessible relationship to grade

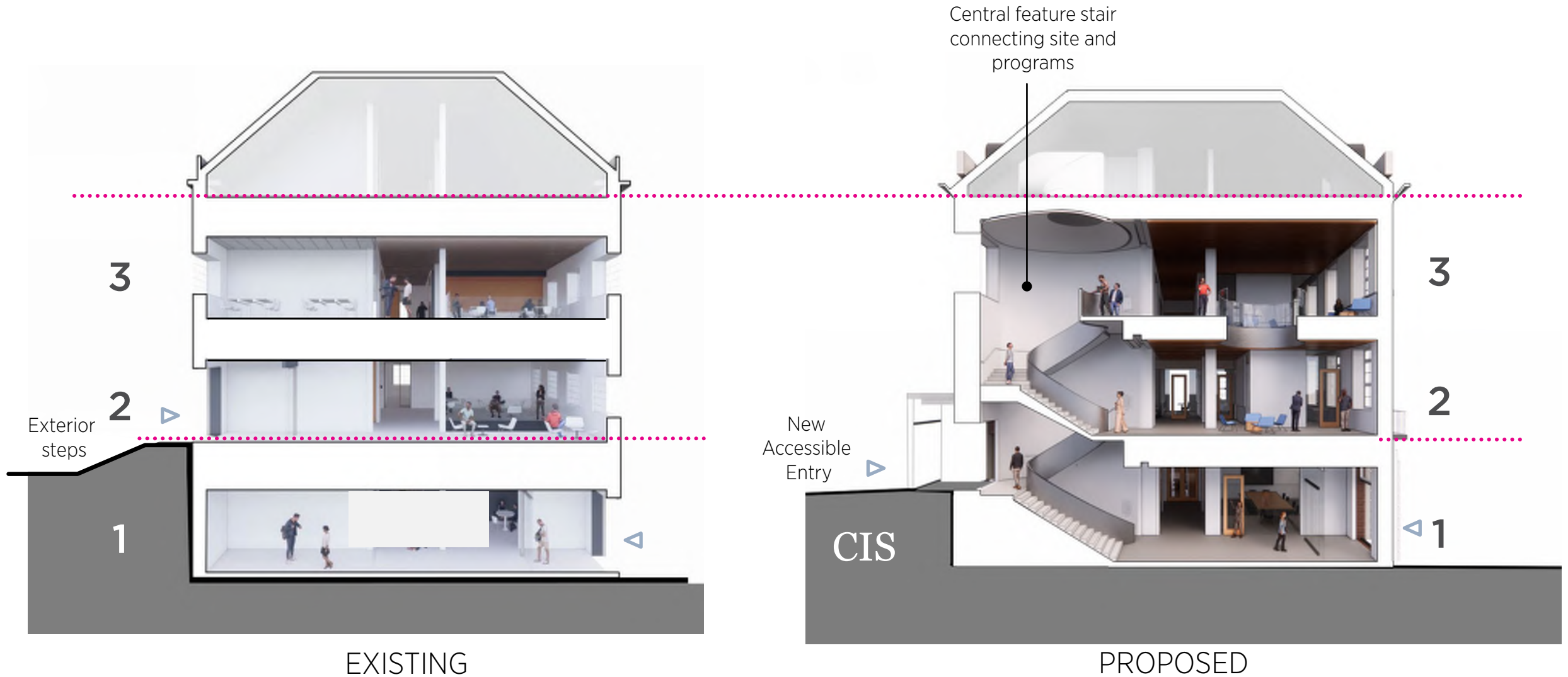


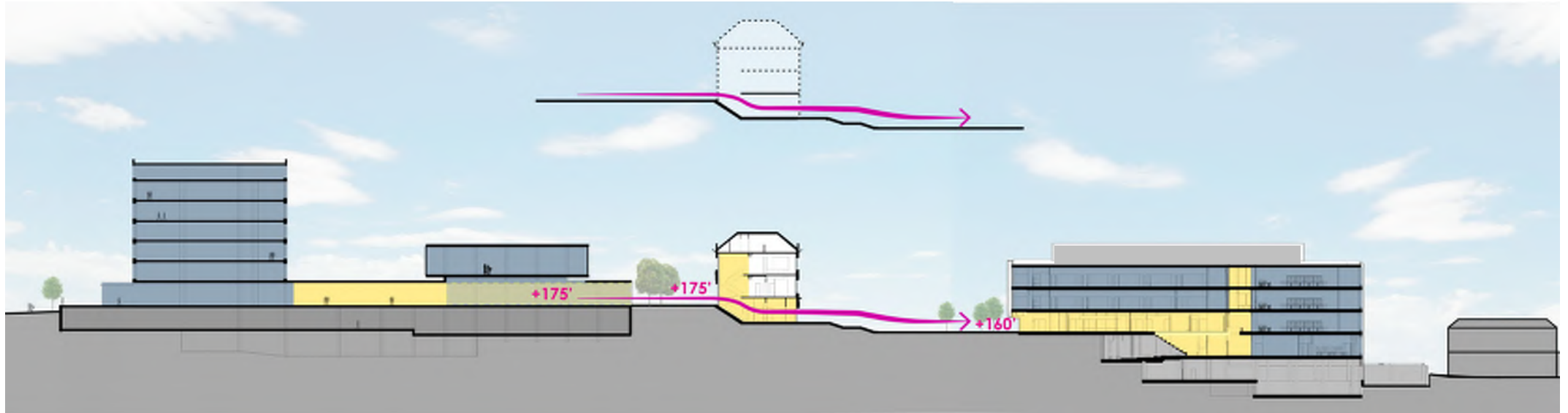
EXISTING



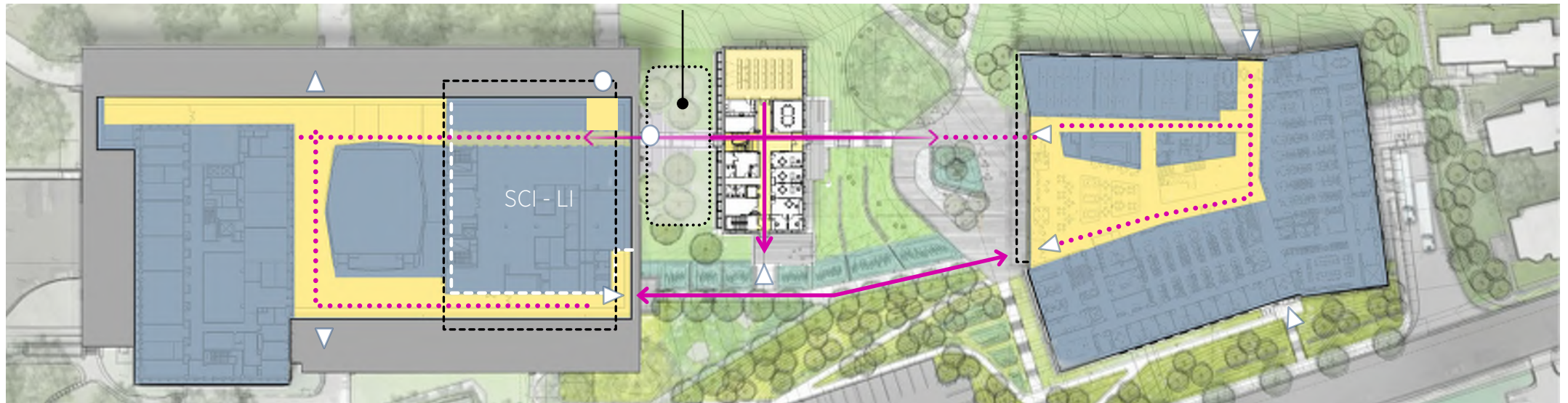
PROPOSED

Reviving Shanklin | Let the natural slope flow through





NEW OUTDOOR ROOM



Proposed Regrading | New Connecting Axis



COE PROGRAM (7,550 NSF)*

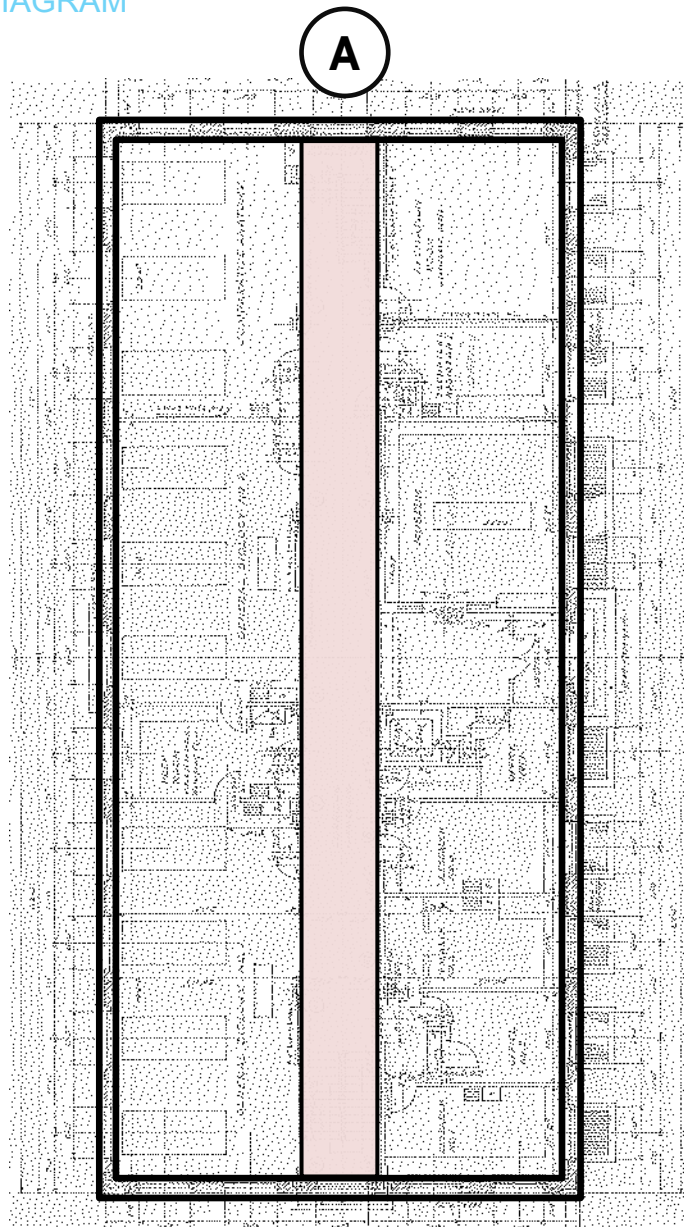
- Classrooms (20p + 36p)
- Seminar Room
- COE Conference Room
- Student Org Space
- Student Thesis Desk Space
- Open Lounge/Study (x2)
- Department/Faculty Offices (x7)
- Visiting/Think Tank Offices (x6)
- Storage/Support
- Kitchenette

CIS PROGRAM (1,560 NSF)*

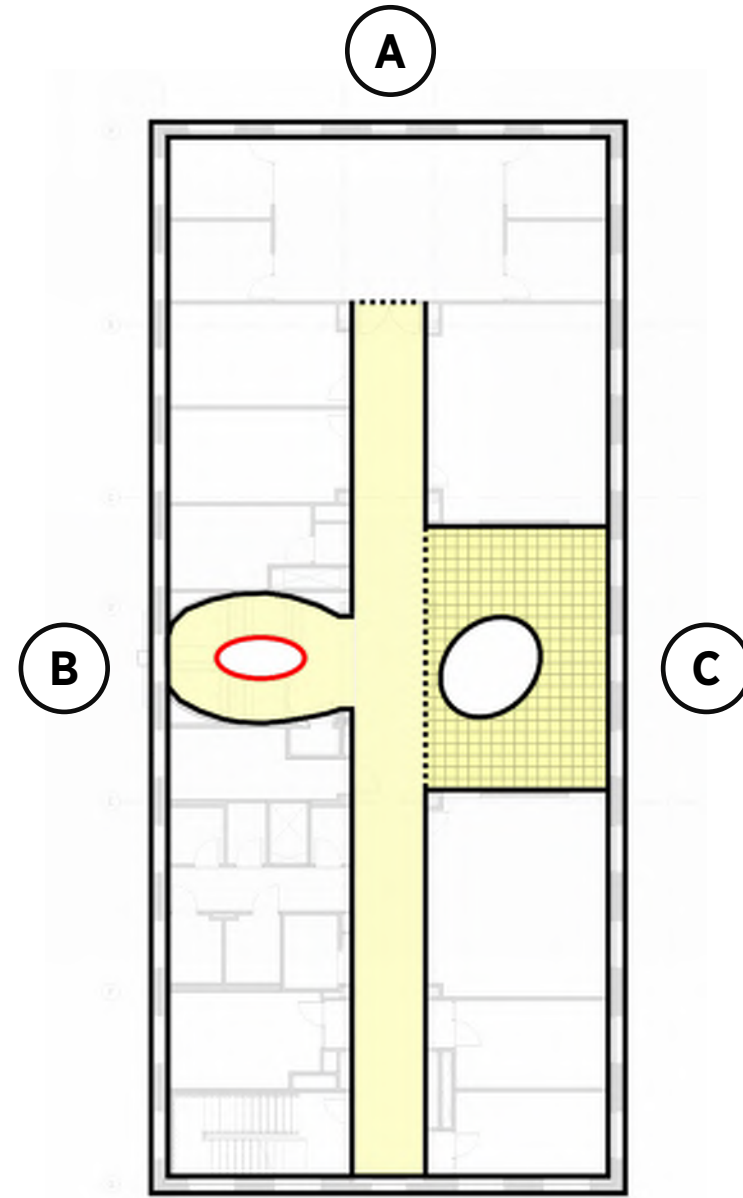
- Program Offices (x4)
- CIS Conference Room
- Open Lounge/Study
- Storage/Support

CAMPUS PROGRAM (1,810 NSF)

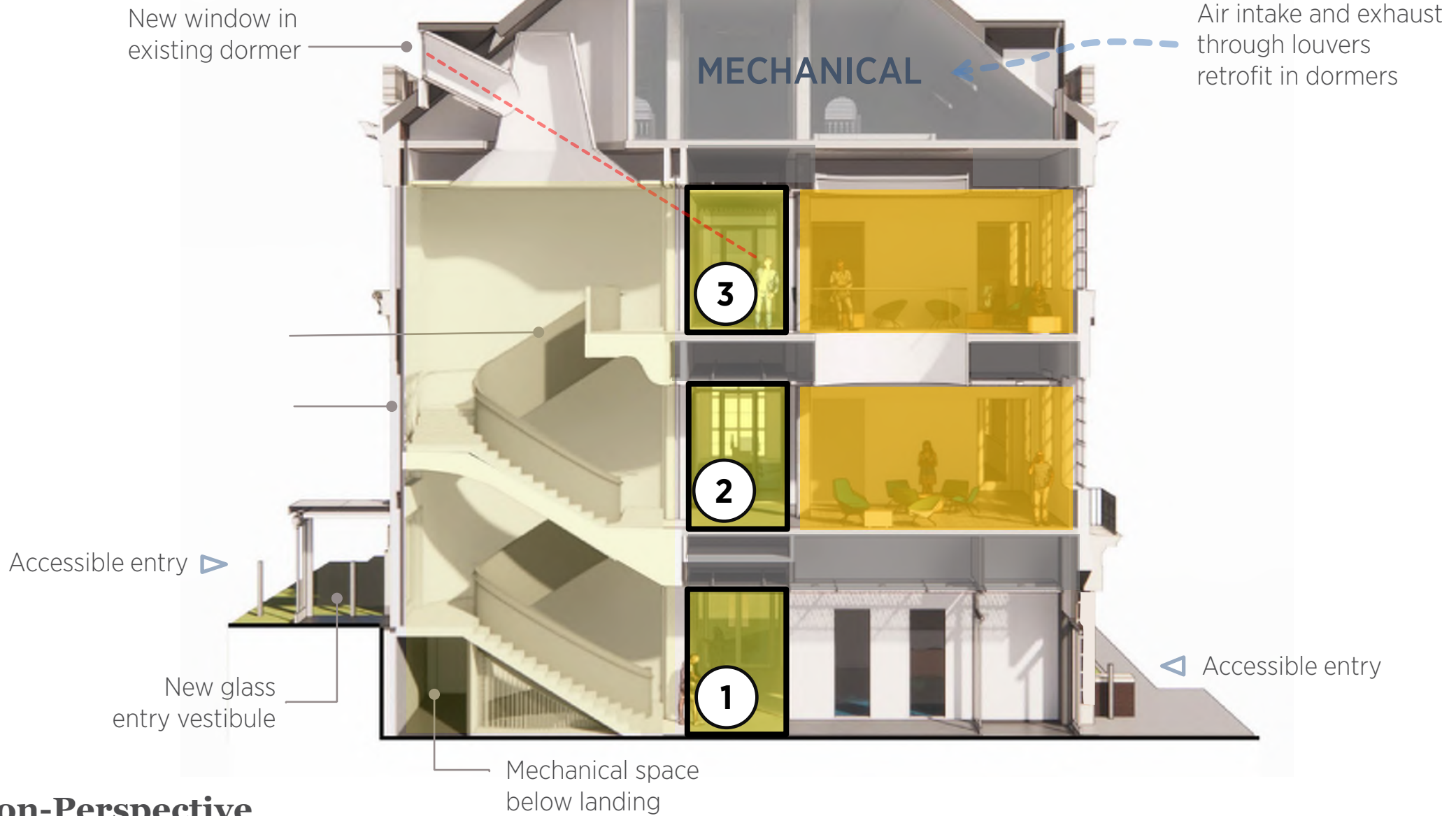
- Multipurpose Room
(Meeting/ Event / Class)
- Kitchenette



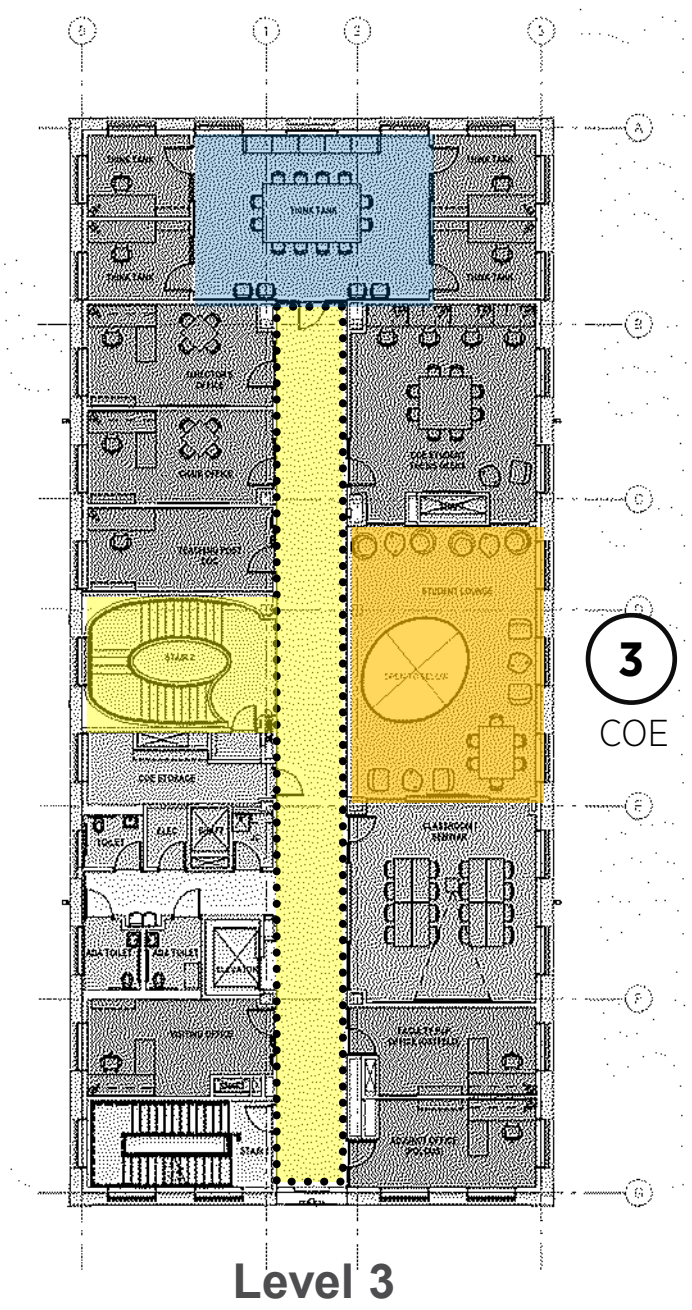
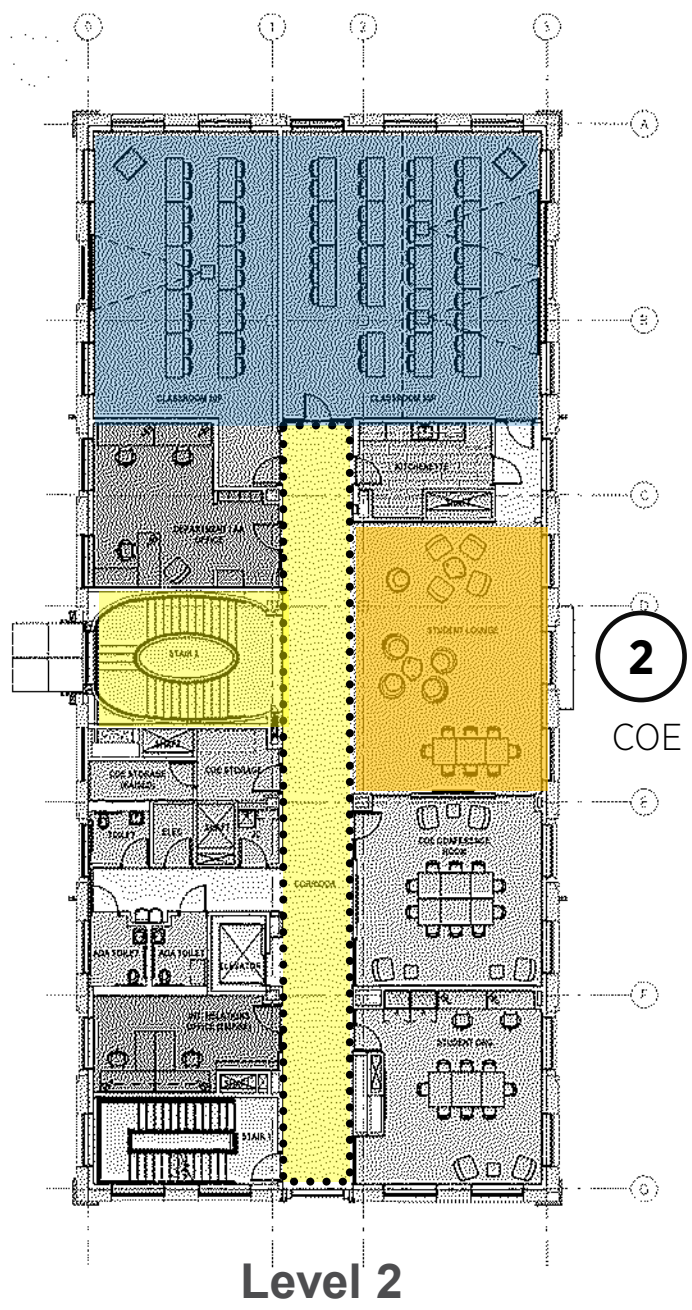
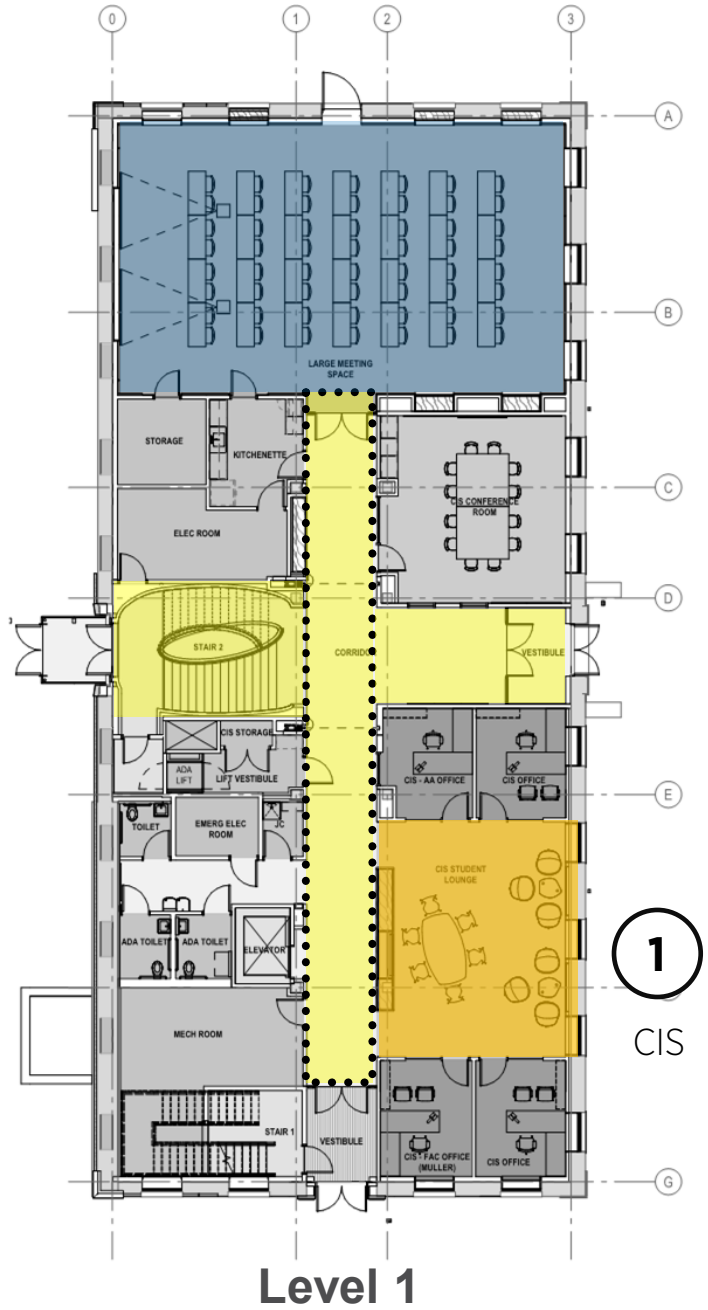
Historic Plan



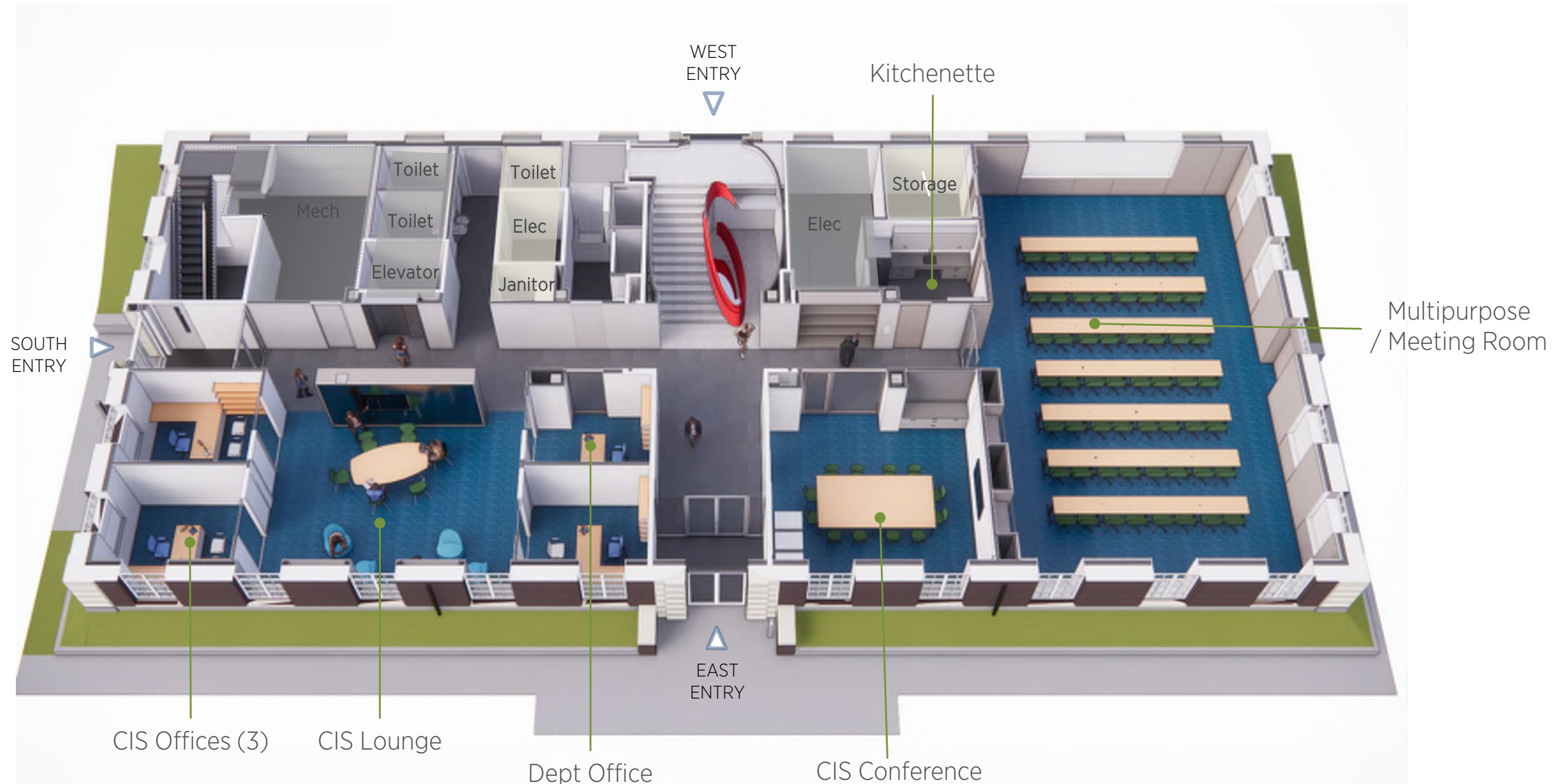
Updated Plan



Section-Perspective







Level 1 | CIS & Multipurpose Meeting Space



LEVEL 1

Level 1

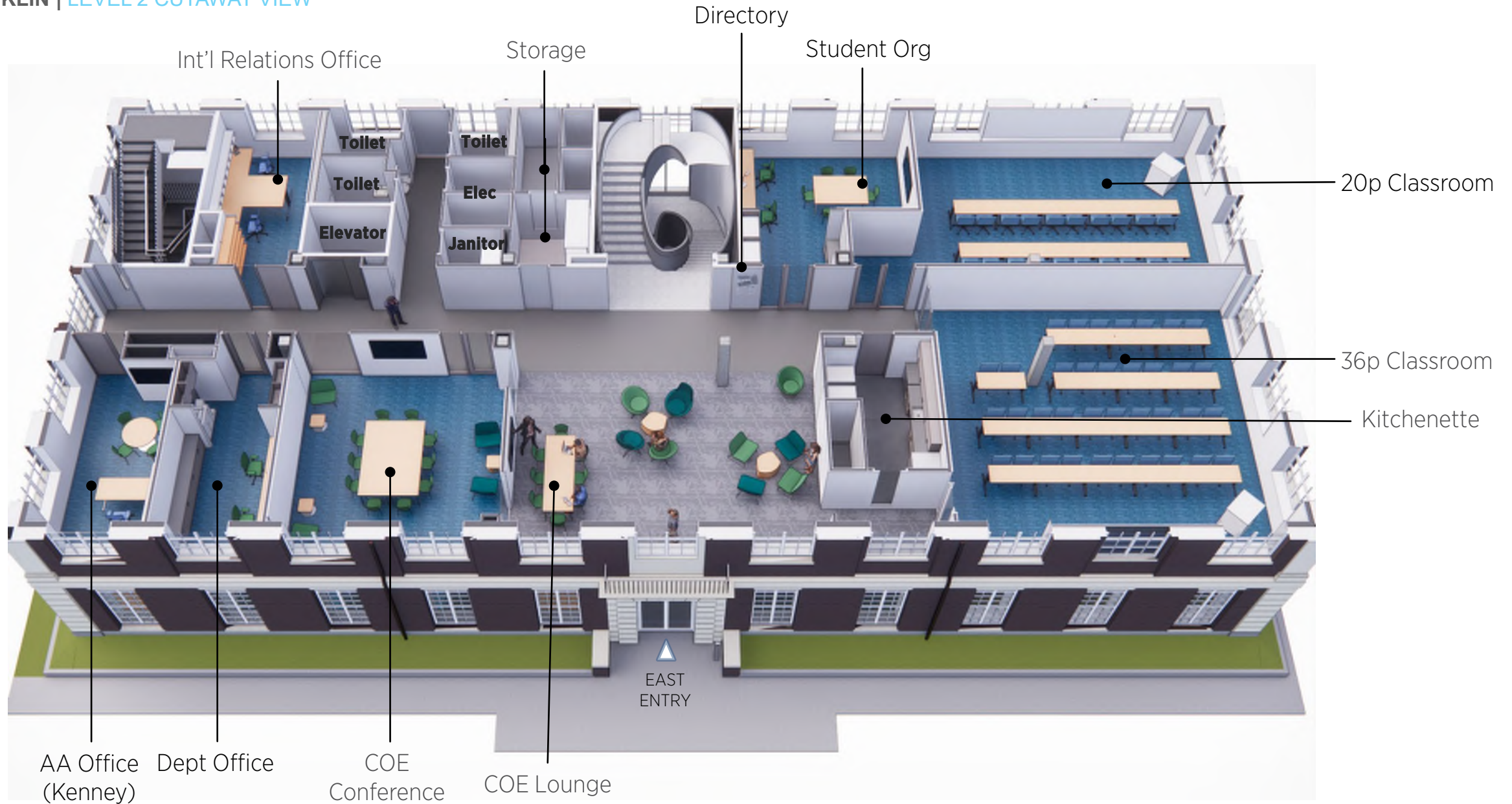
A



B



SHANKLIN | LEVEL 2 CUTAWAY VIEW

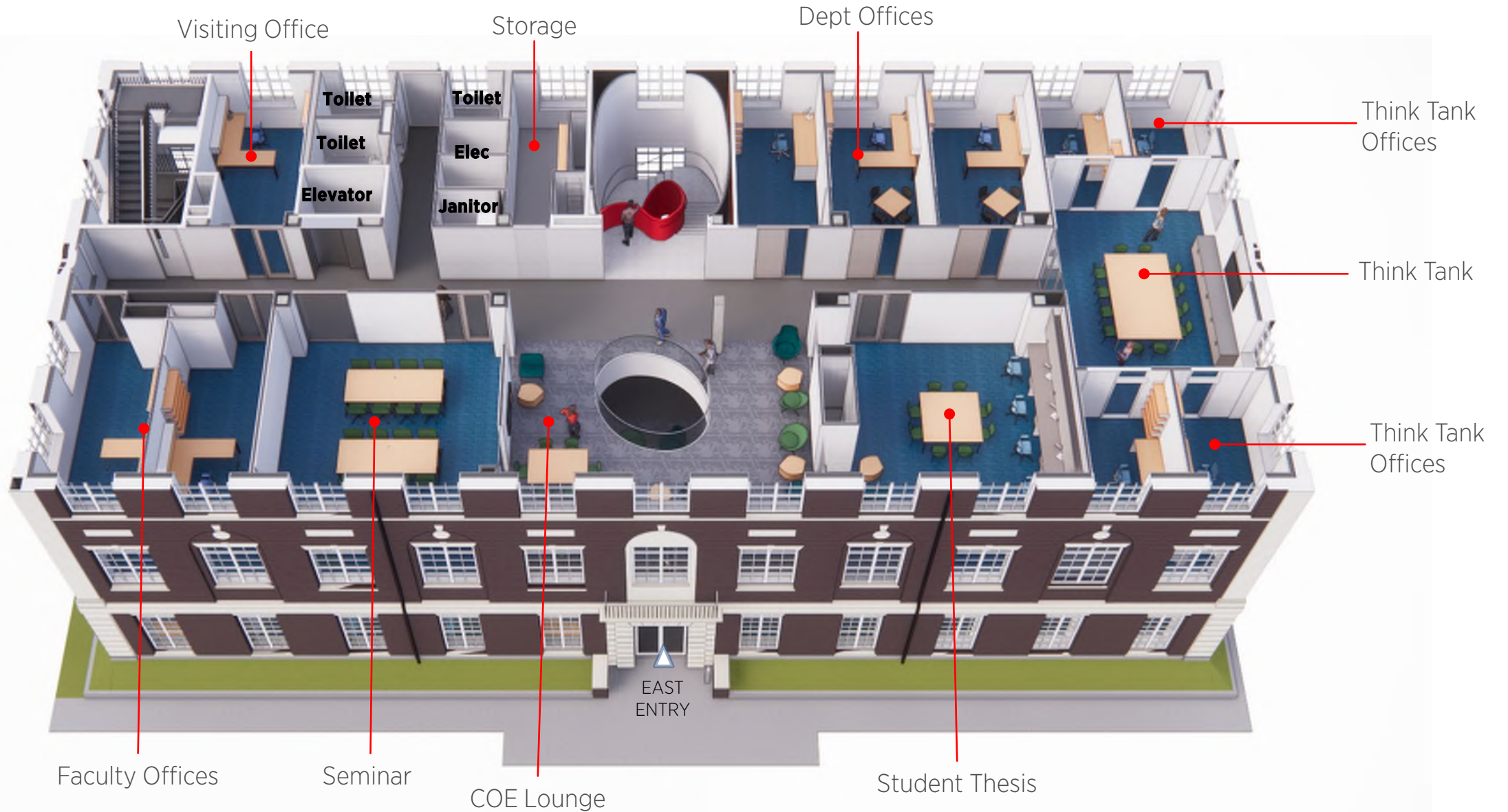


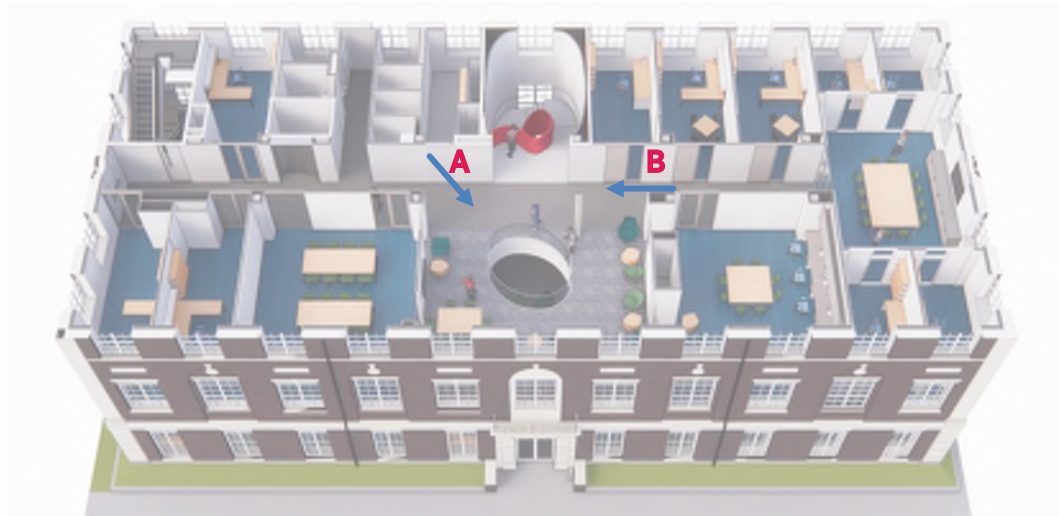
Level 2 | COE



LEVEL 2







LEVEL 3

Level 3



A



B