

WESLEYAN UNIVERSITY

NEW SCIENCE BUILDING & SHANKLIN RENOVATION – DRPB APPLICATION

May 12, 2021

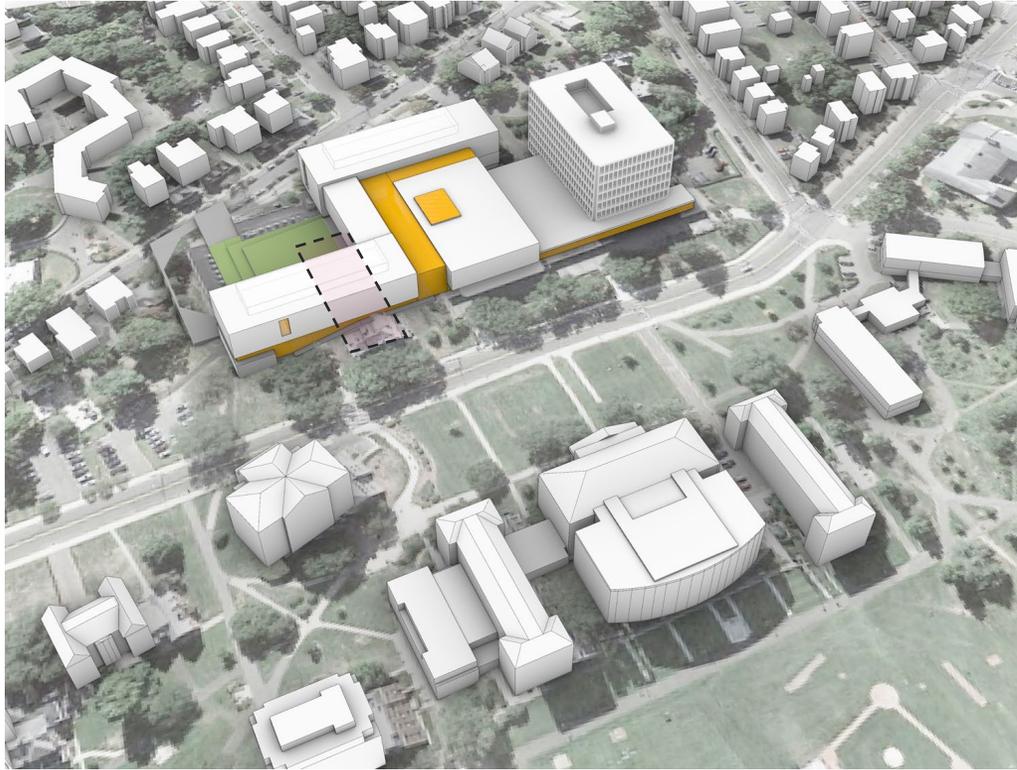
PAYETTE



New Science | Site Location



SITE OPTION A



- A. New Science connected to Exley
- B. Shanklin demolished**
- C. Sci-Li renovation added to scope

SITE OPTION B*



- A. New Science to East
- B. Shanklin preserved & restored**
- C. Sci-Li remains as is

*Selected by Wesleyan

Site Selection | Allows Shanklin to be Preserves & Revived



* on Middletown Historic Properties List



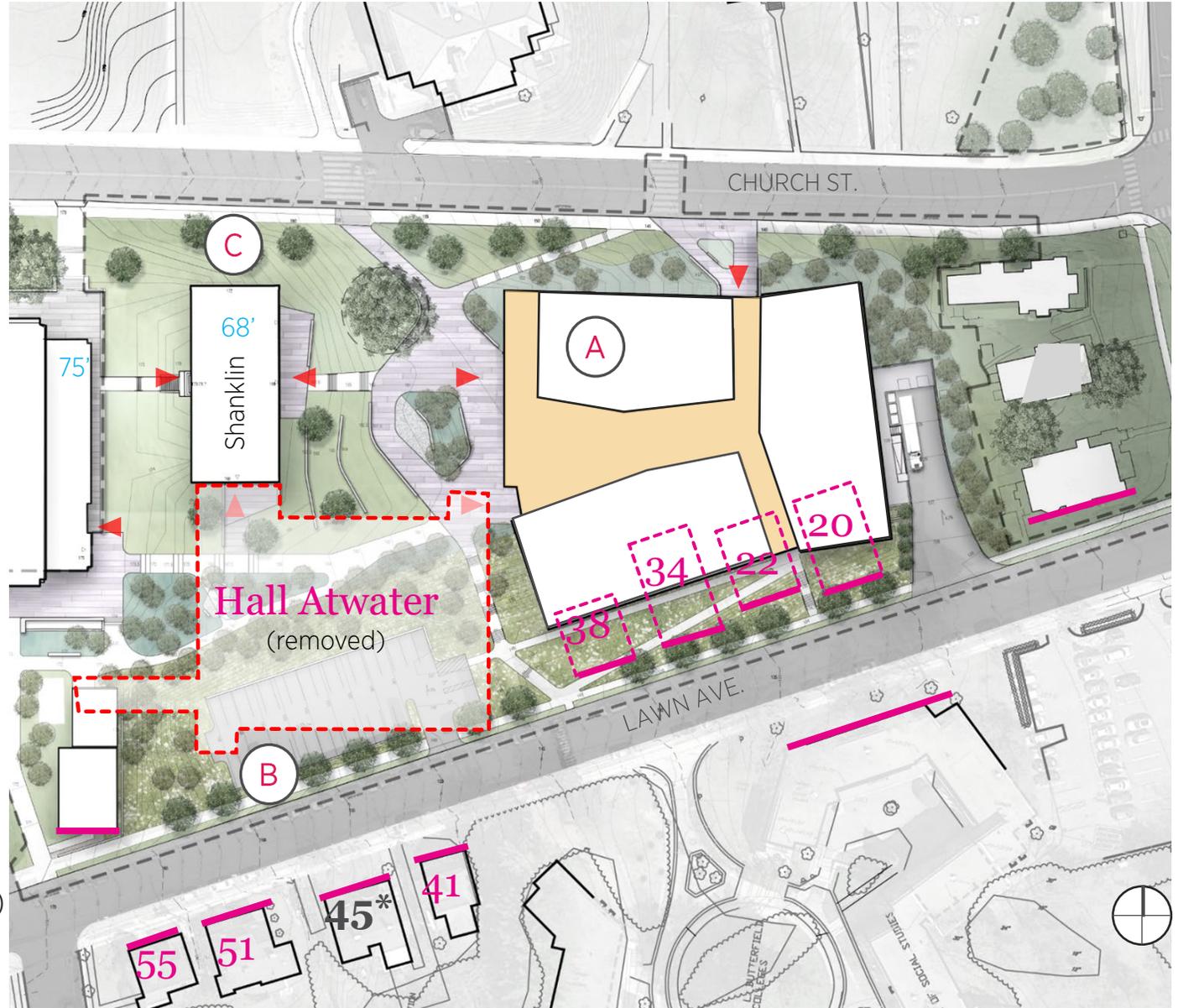
41



45*



55



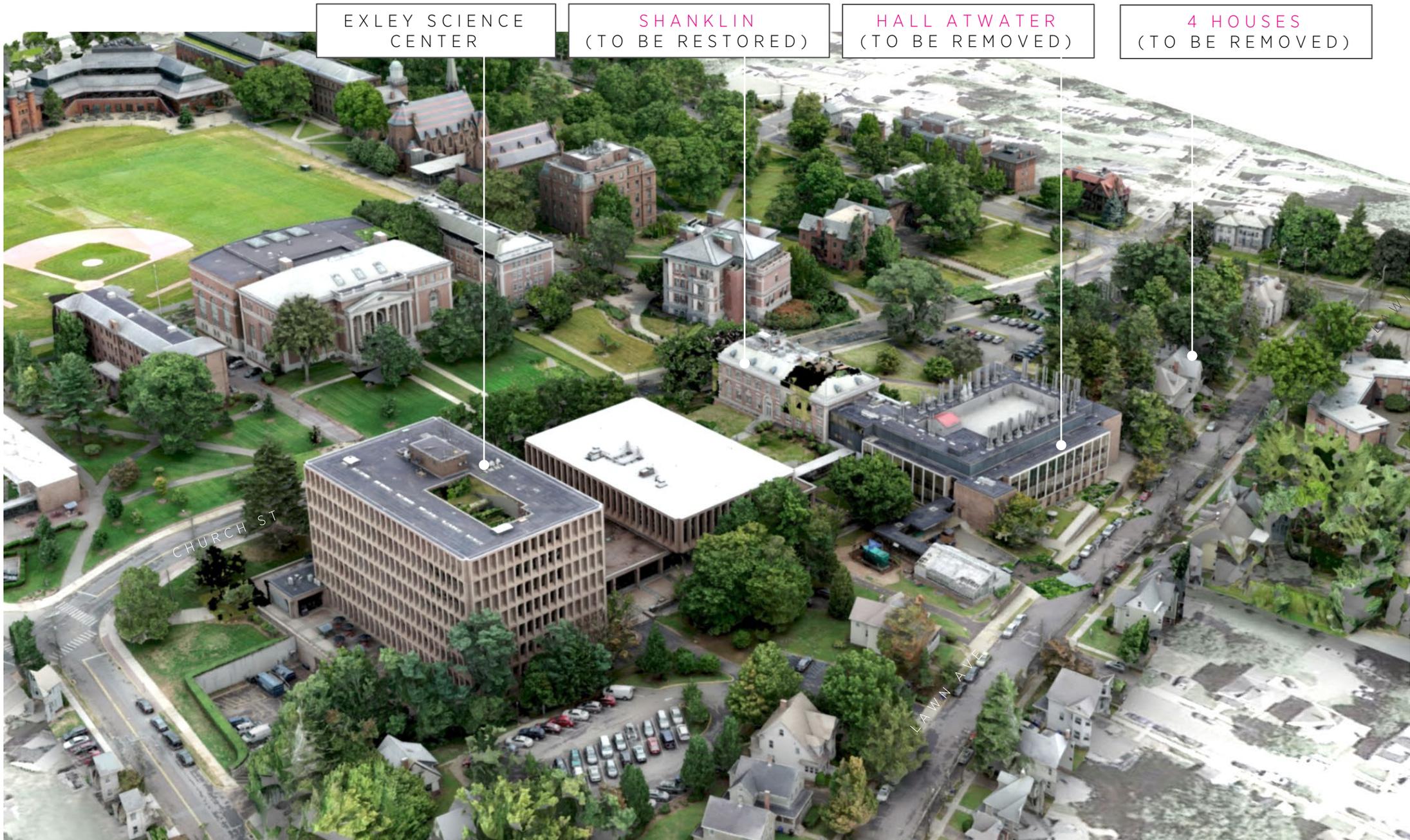
A Remove 3 houses and daycare. (38, 34, 22 & 20 Lawn Ave)

Construct New Science

B Remove Hall Atwater & evacuate Shanklin

C Renovate Shanklin

Site Phasing | Three connected phases



EXLEY SCIENCE
CENTER

SHANKLIN
(TO BE RESTORED)

HALL ATWATER
(TO BE REMOVED)

4 HOUSES
(TO BE REMOVED)

Existing Context |

RESTORED
SHANKLIN

NEW SCIENCE

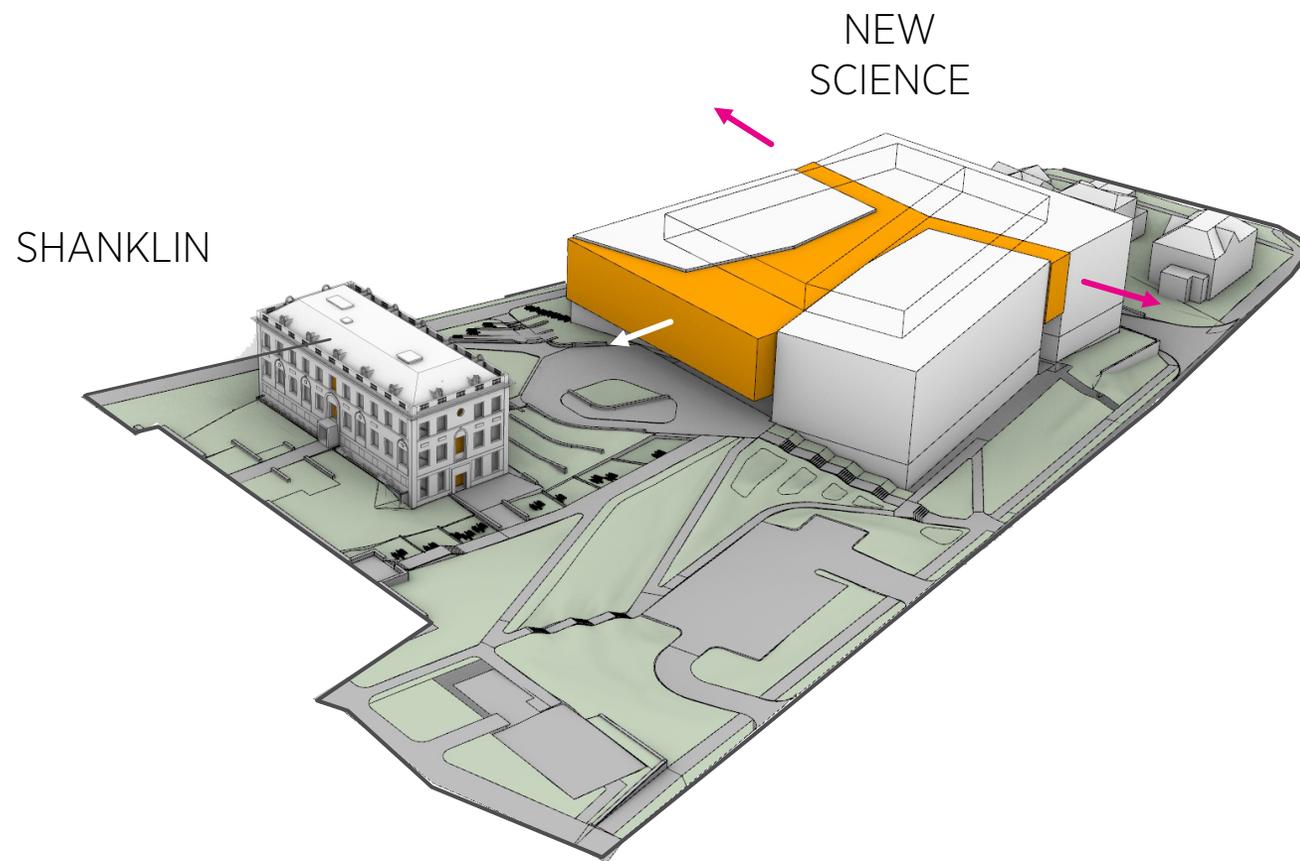


New Science Precinct | Rooted in Wesleyan context

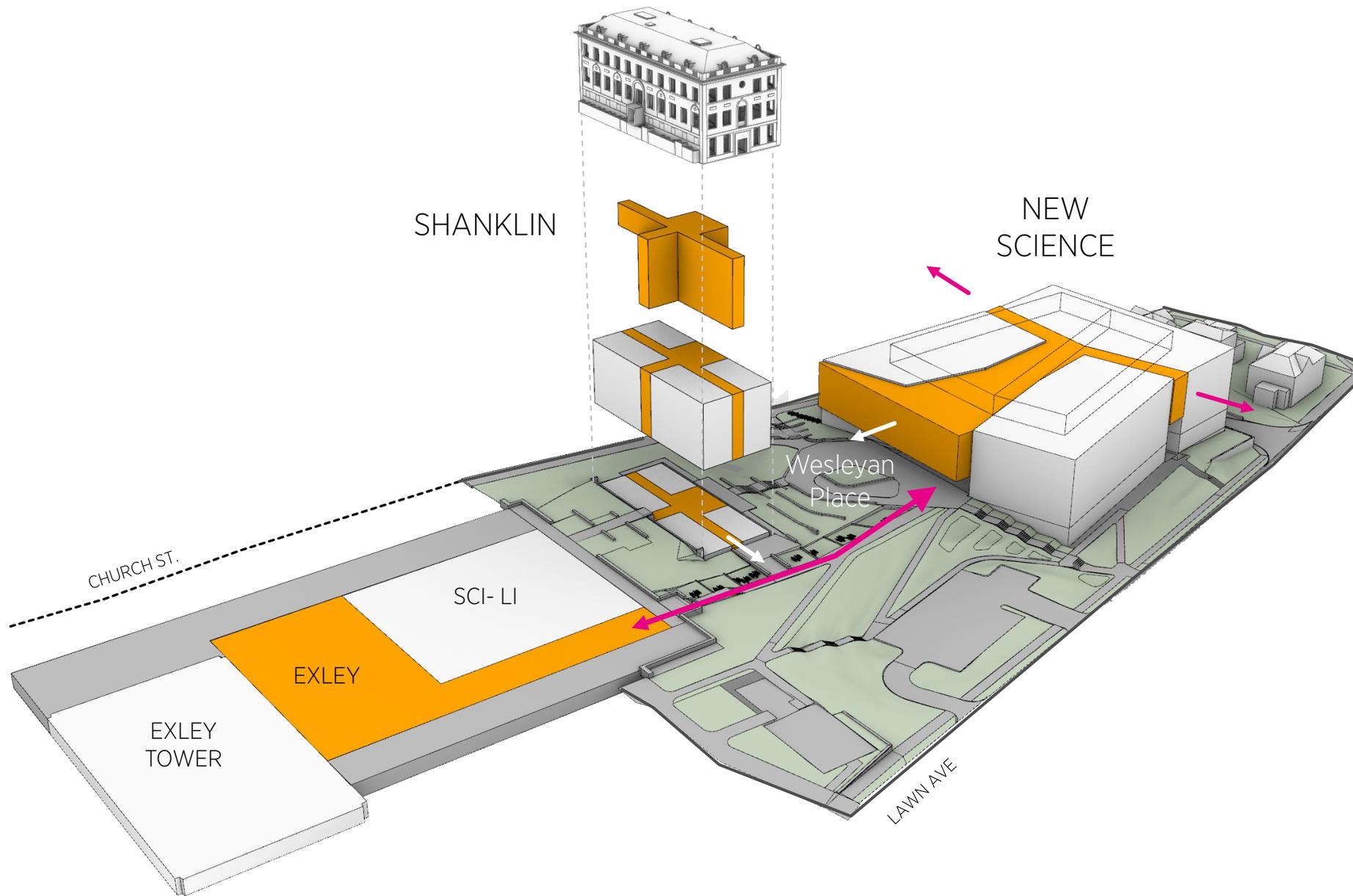




Shanklin | Pivotal Role for New Science Precinct



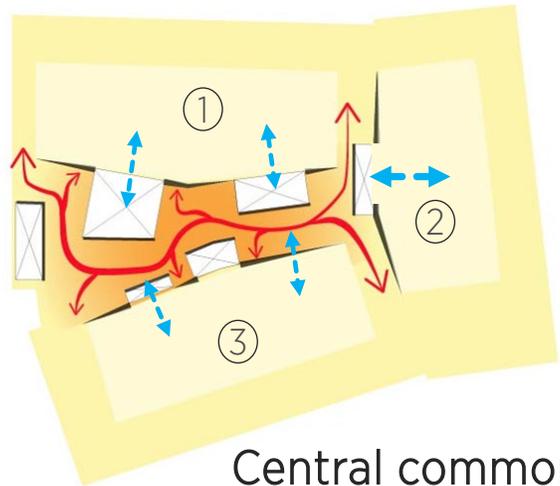
Shanklin | Pivotal Role for New Science



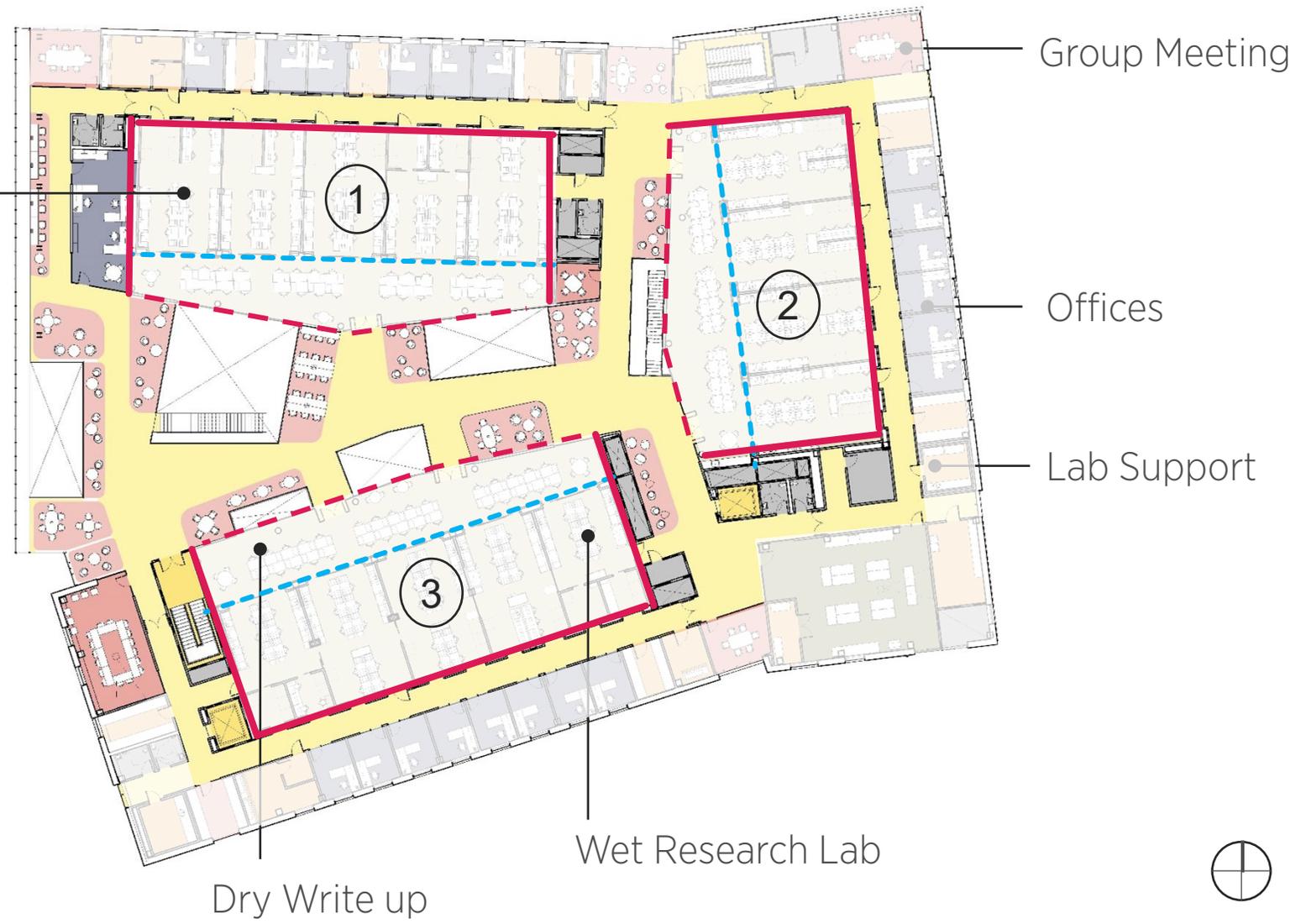
Shanklin & New Science | Grounded in a campus fabric



Research clusters



Central commons



Group Meeting

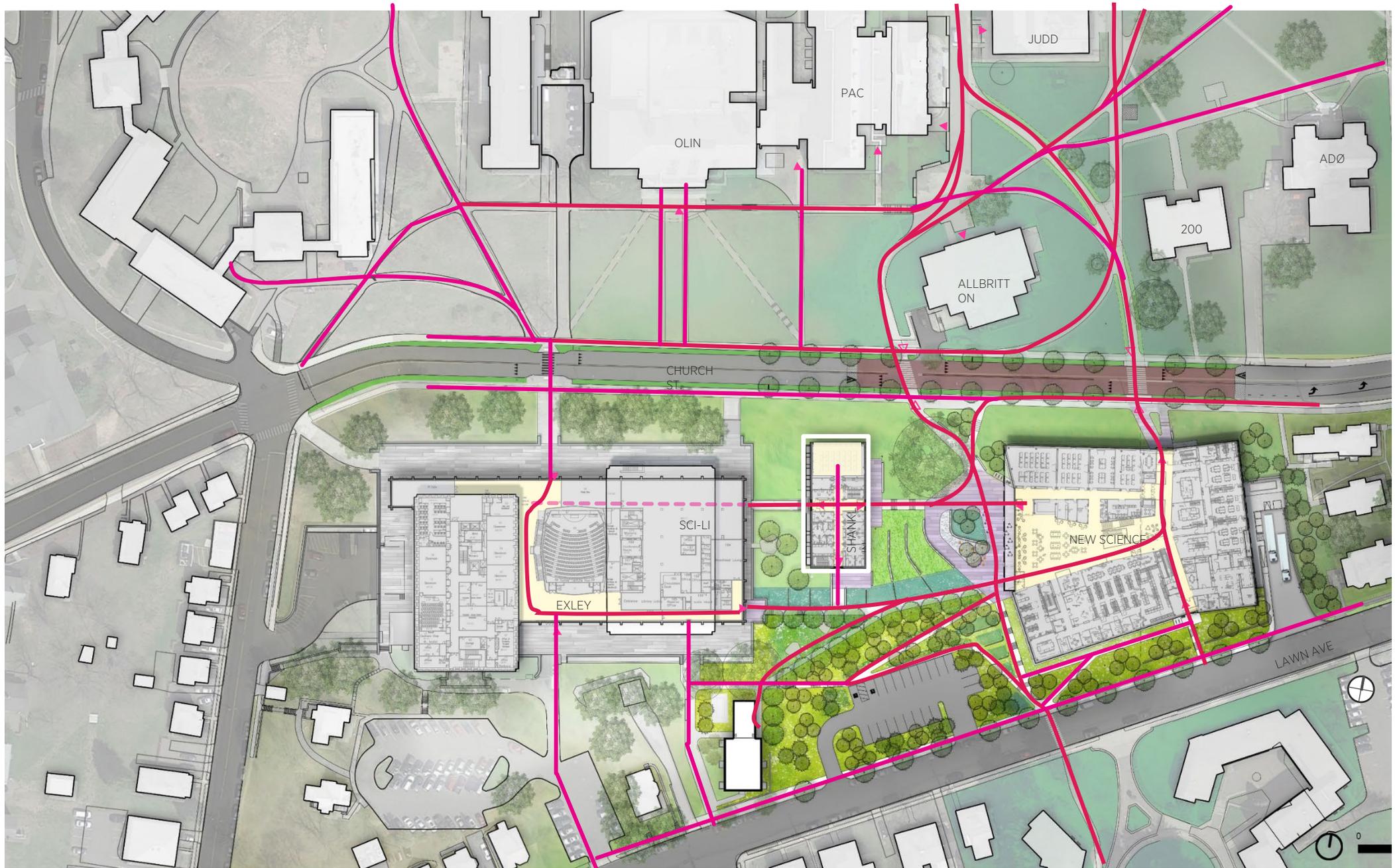
Offices

Lab Support

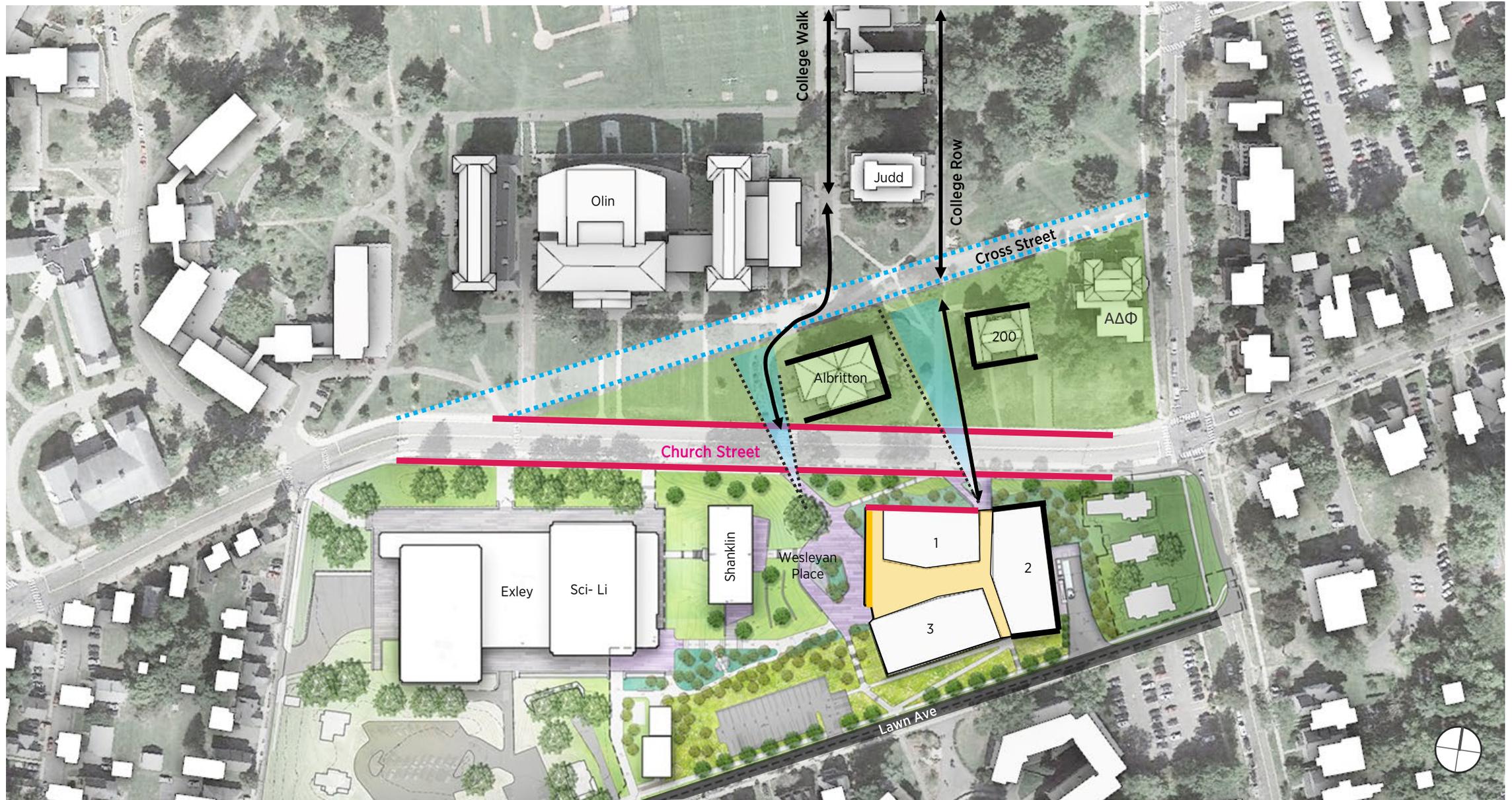
Wet Research Lab

Dry Write up

Interior Concept | Research Clusters + Connected Campus Community



Shanklin & New Science | Grounded in campus fabric



Bridging Church Street | Two key campus crossings



Site Plan



Accessibility to all Entries | Equity on a 35' slope

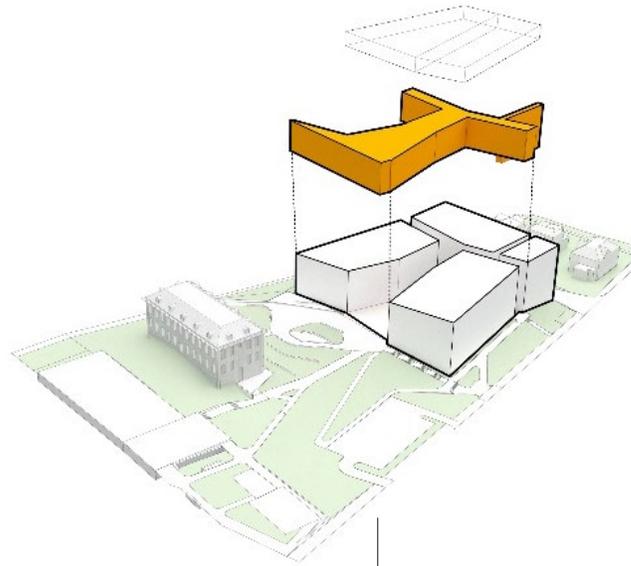
Exterior

Wesleyan's rich architectural legacy



A spectrum of styles – consistent quality, integrity & diversity

Research Clusters

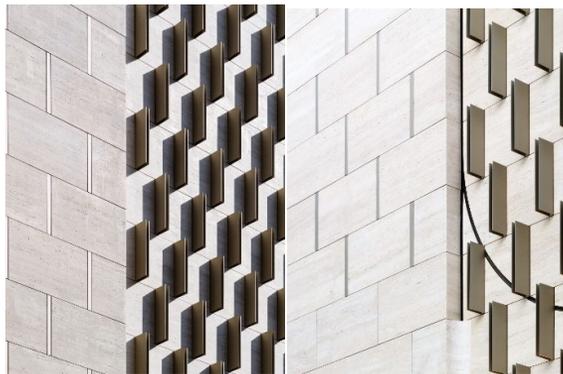


Connecting Commons



HEAVY/ GROUNDED	LIGHT/FLOATING
STONE	GLASS
OPAQUE	TRANSPARENT
HISTORICAL REFERENCE	FORWARD LOOKING
PERMANENCE	PERFORMANCE
CARVED/ REDUCTIVE	MACHINED/ ASSEMBLED
ARTICULATED	CRISP
ROBUST RESEARCH	FLEXIBLE STUDY
SCIENCE FOCUSED	SHARED RESOURCE
CAMPUS GRAVITAS	INVITATION TO ALL

Concept Diagram for New Science : Clusters + Commons





Lawn Ave | Butterfield Crossing



College Row | Campus Approach



Wesleyan Place | Allbritton Crossing



Wesleyan Place | Beacon to Science



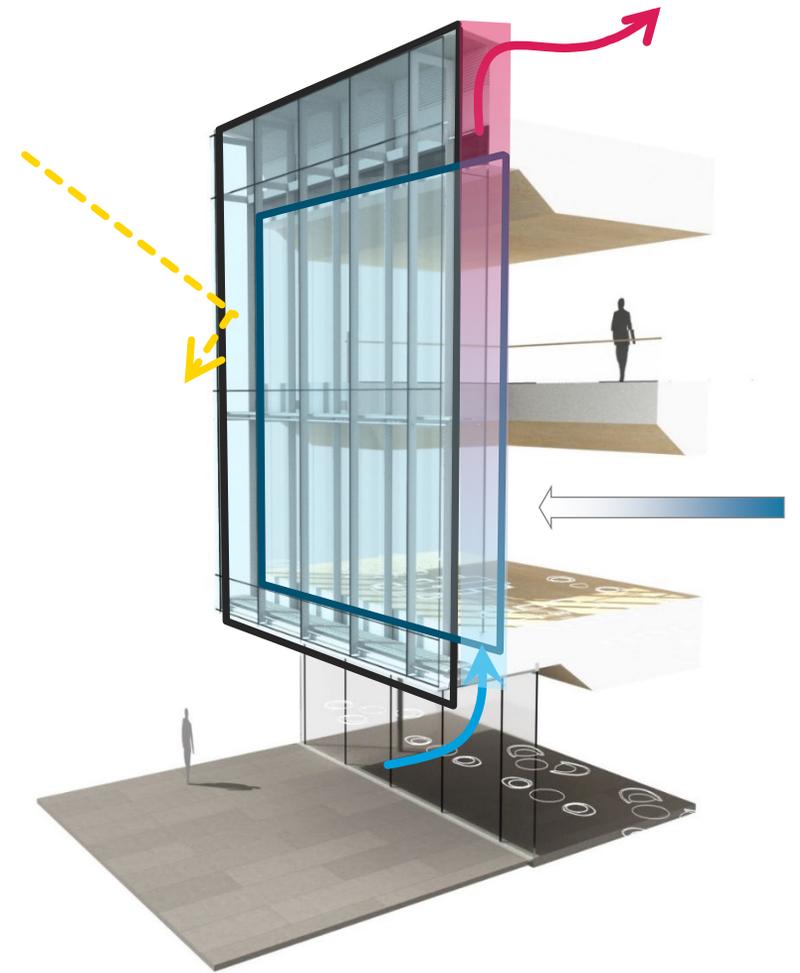
Exley Approach | Science Walk



Wesleyan Place | From Shanklin



View from science | Connecting to Shanklin and to Campus



REDUCE



Annual Heating



Peak Cooling

MAINTAIN



Transparency



Thermal Comfort



Visual Comfort

Beacon to Science: High Performance Double Skin Facade

SOLAR CONTROL COATINGS



51% VLT
14% OUTDOOR
REFLECTIVITY
0.23 SHGC

48% VLT
19% OUTDOOR
REFLECTIVITY
0.25 SHGC

43% VLT
28% OUTDOOR
REFLECTIVITY
0.23 SHGC

SUBTLE REFLECTIVITY



MINIMAL STRUCTURE



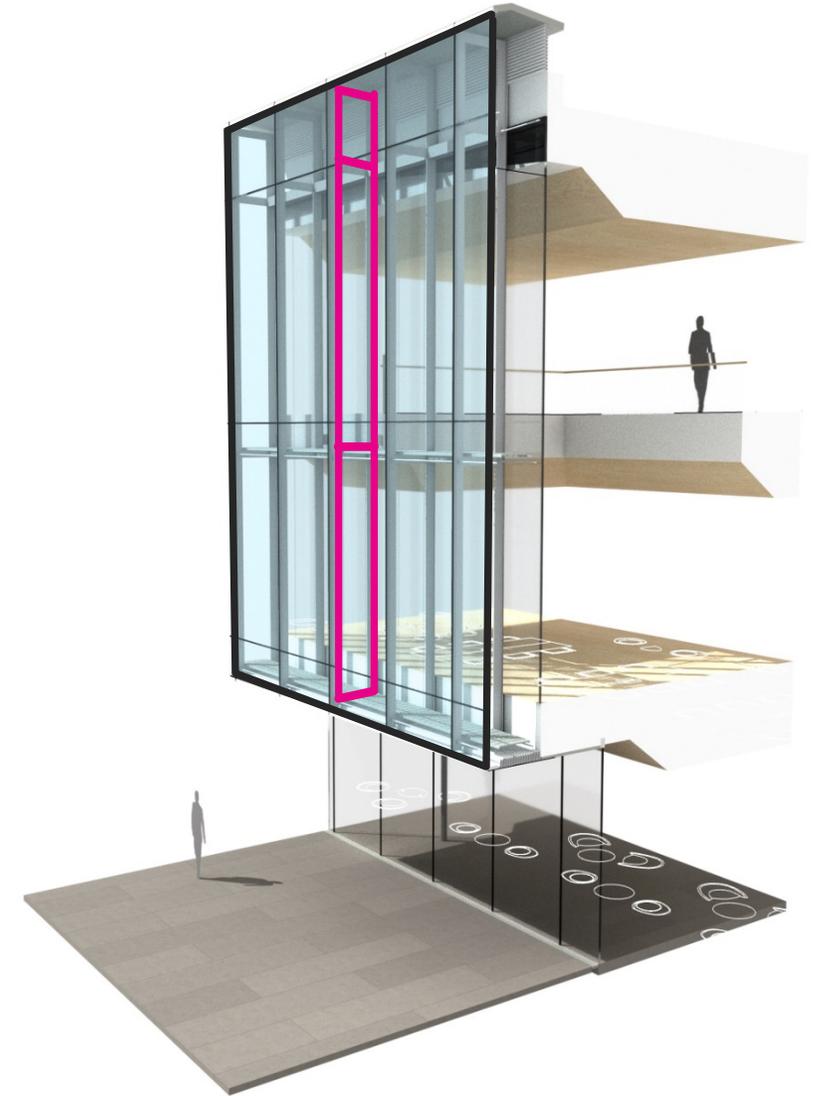
UV REFLECTIVE COATING



WHAT BIRDS SEE



WHAT WE SEE

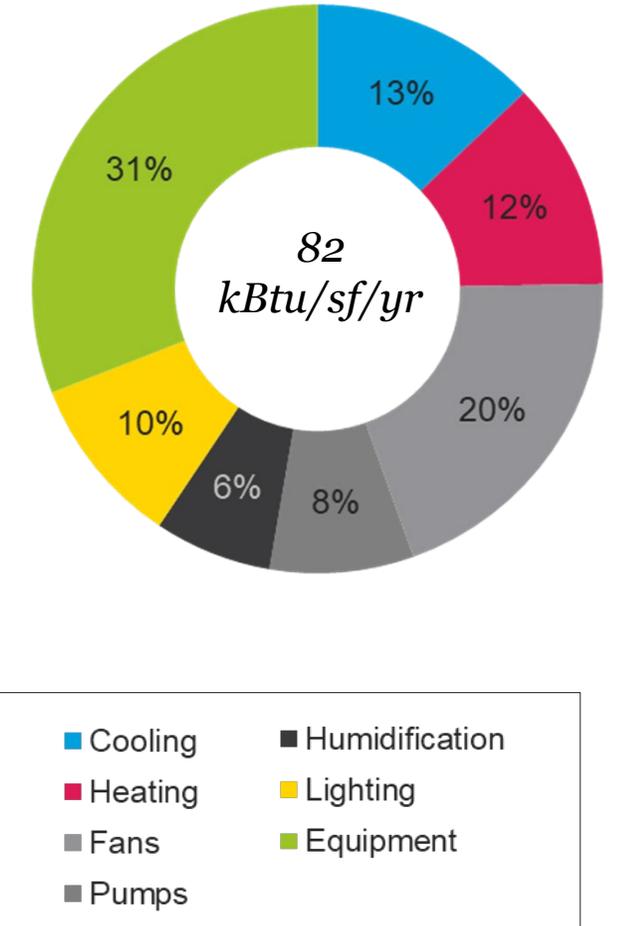
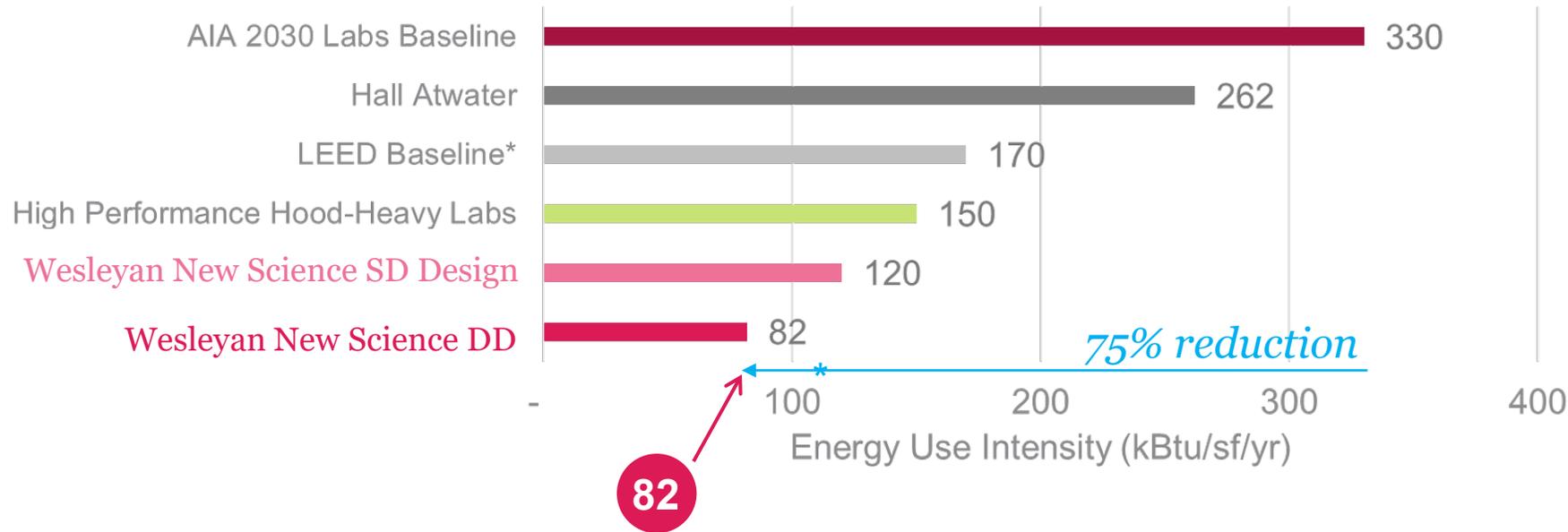




Interior Concept | Connecting Inside & Out

ENERGY PERFORMANCE | PREDICTED EUI

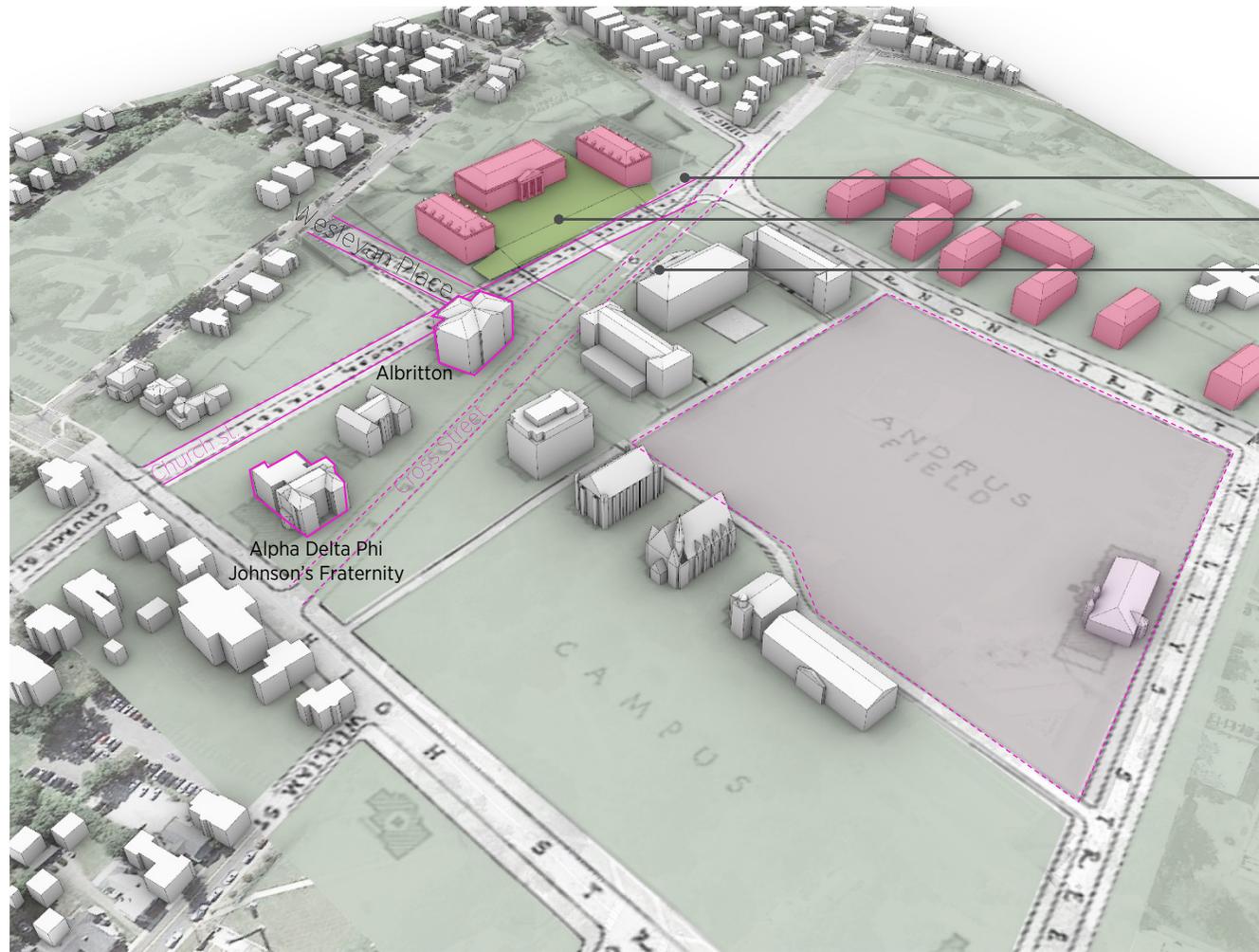
* LEED Baseline expected to increase pending conversations with USGBC.



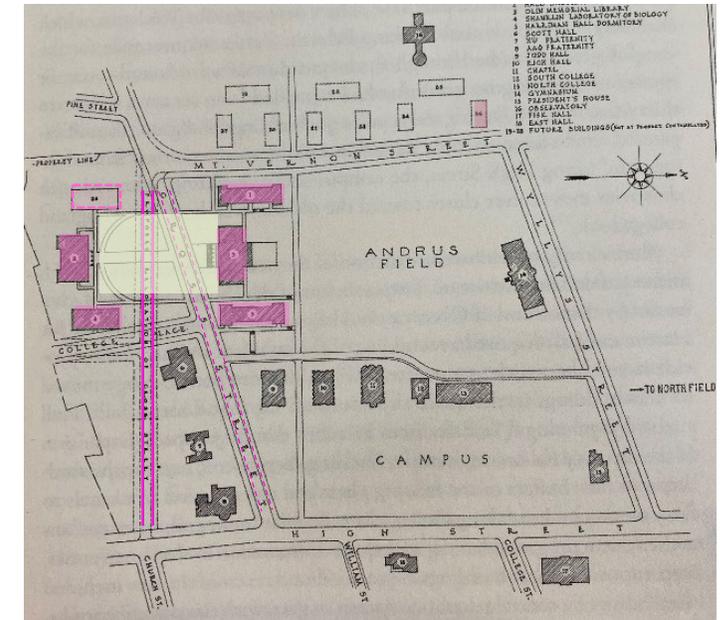
NSB Predicted Energy Use (EUI) = +/- 82 kBtu/sf/yr

Shanklin

SITE TIMELINE



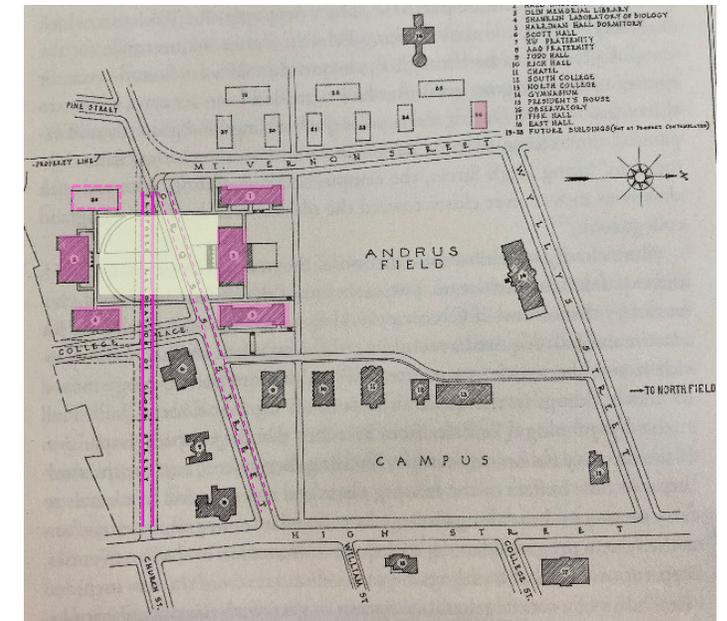
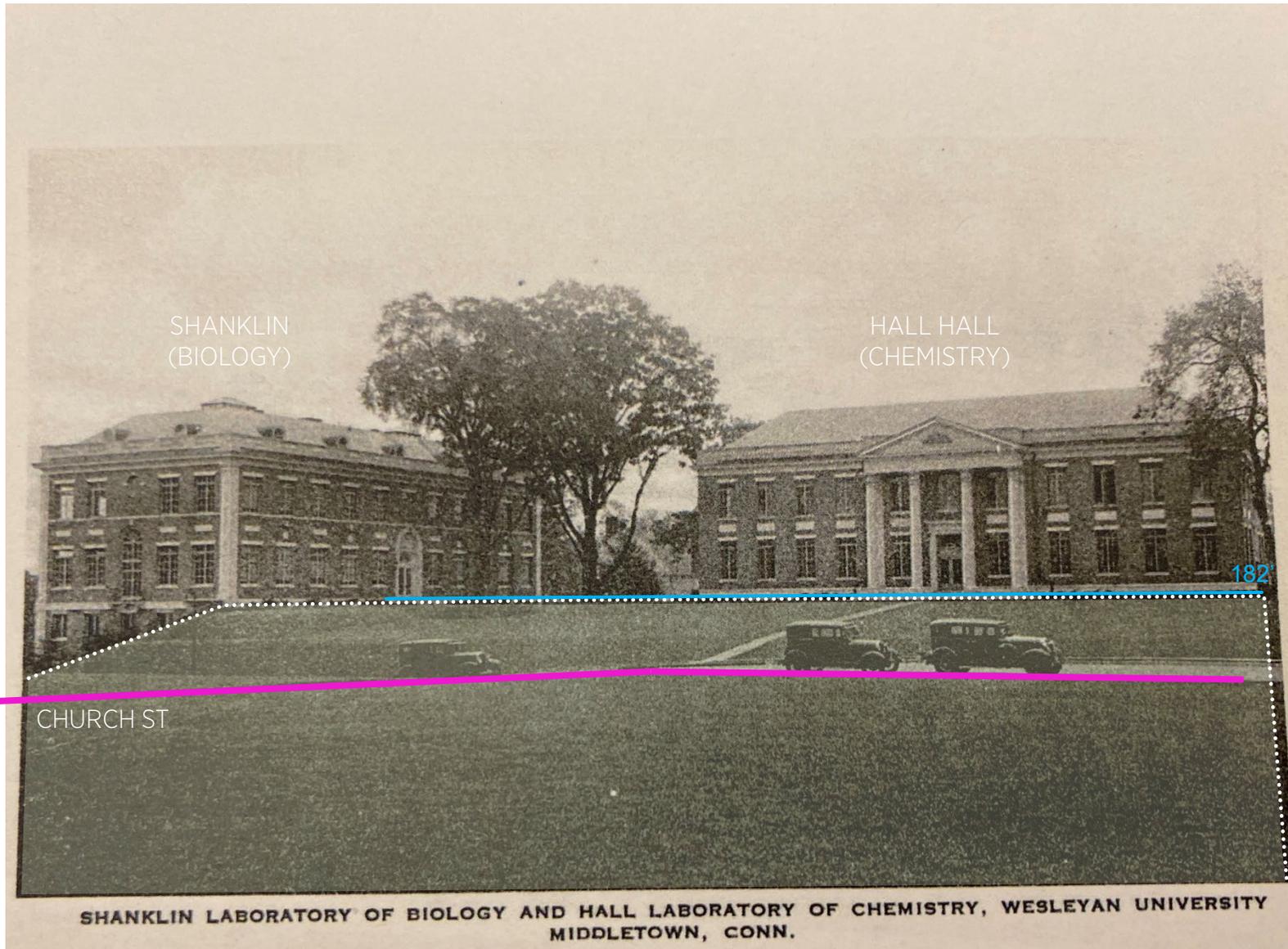
Cross Street moved to Church Street
New Science Quad per 1927 Campus plan
Library front door facing south



New 'Quad' (across church st) facing Olin Library

1927 Johnson Campus Plan

Shanklin Origins : Science Shift (across) Church



With new Church Street location

Shanklin Origins | Science Across (New) Church St



Northeast : Site Retaining Wall

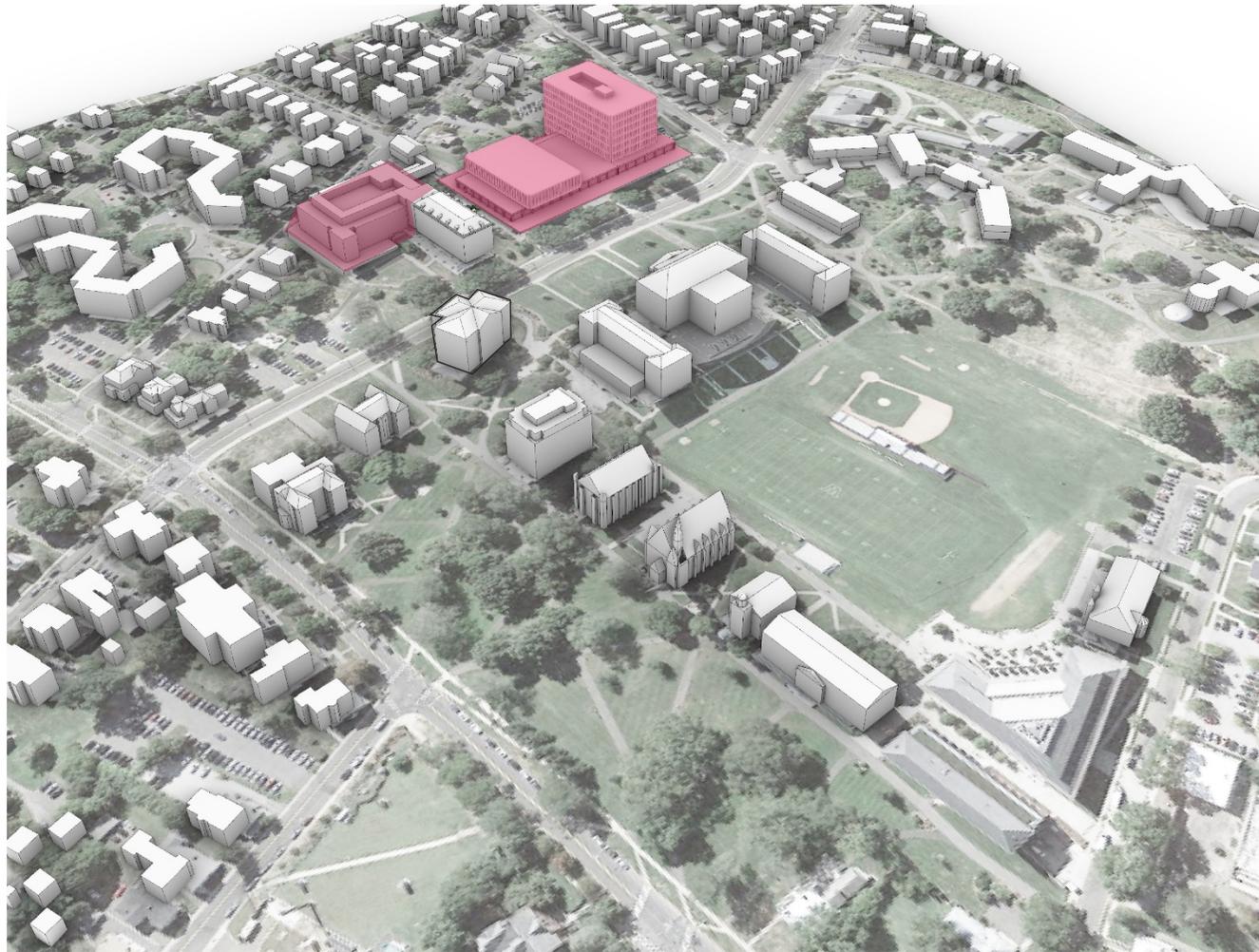
Old Wesleyan Place



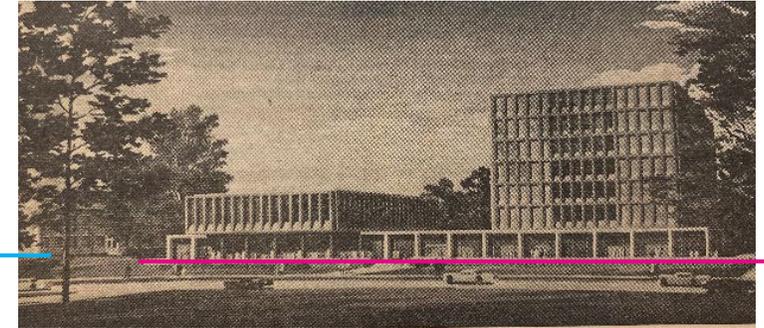
Original Northwest : Retaining Quad

Shanklin Origins | Odd relationship to landscape & grades

SITE TIMELINE



1970 Exley Science Center Complete



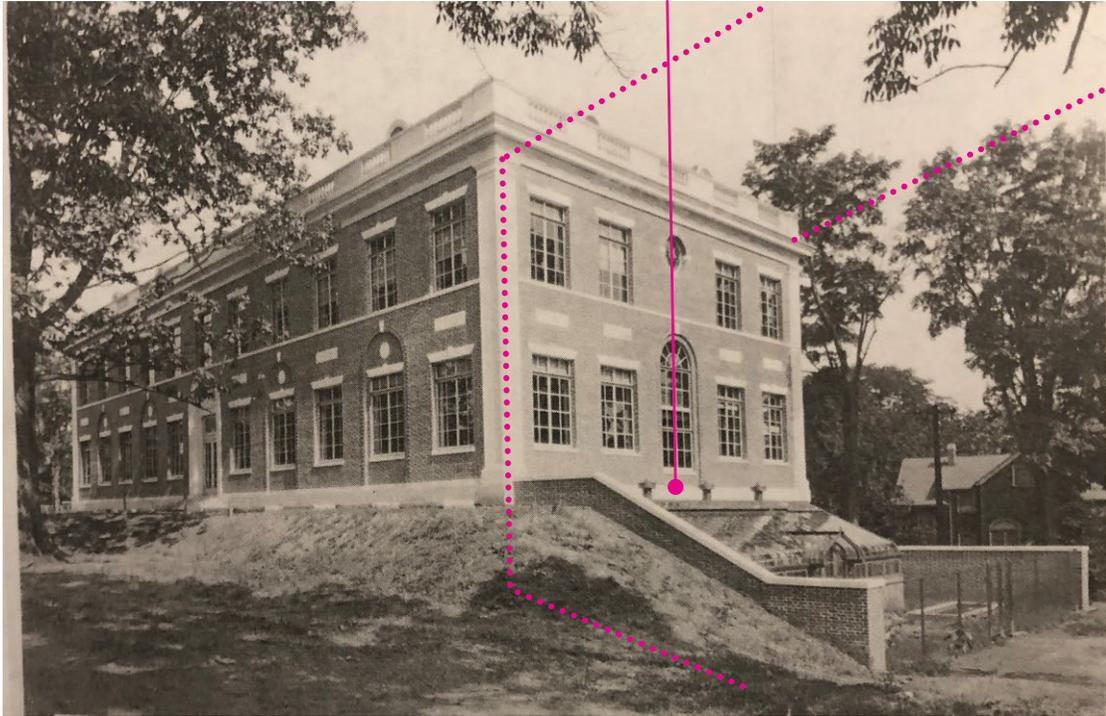
Exley Science Center - Level



Hall Atwater - attached to Shanklin

Stranded Shanklin | Alone Across Church St

Hall Atwater
Added



Southwest : Before Hall Atwater

Grades
Lowered

Egress
Added (x2)

Areaways
exposed

Steps
Added

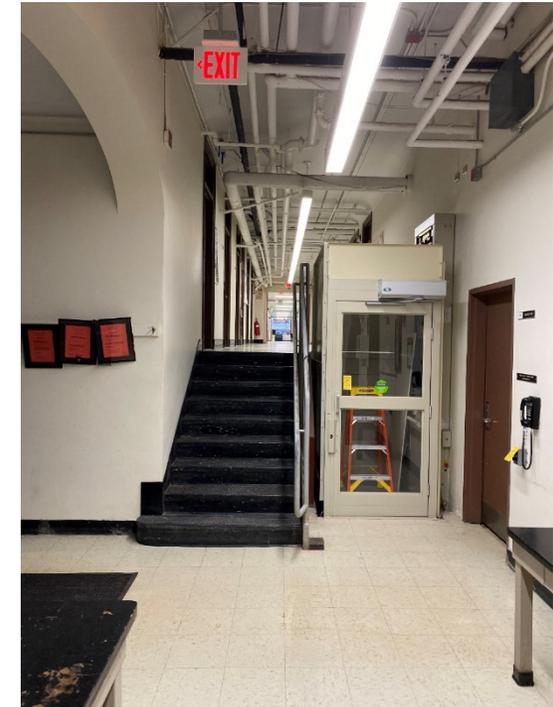
Sloped
Landscape



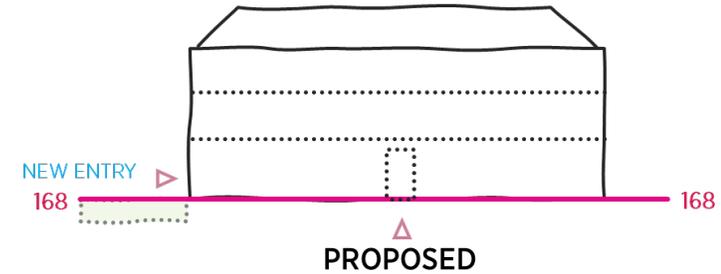
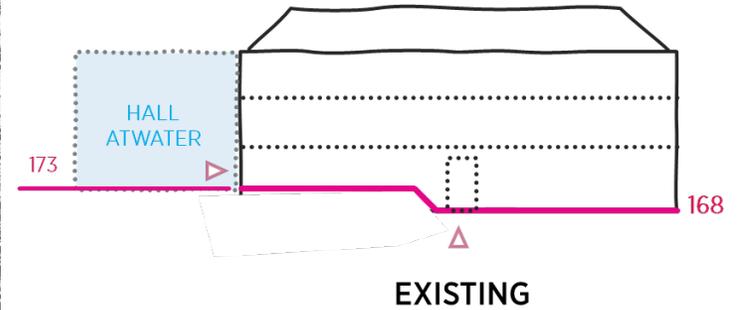
Today | from north west



Shanklin Changes | Odd relationship to site made worse by HA addition



Split Floor level 1



Elev. 173'-0"

Elev. 168'-0"

Window sills to be lowered on L1

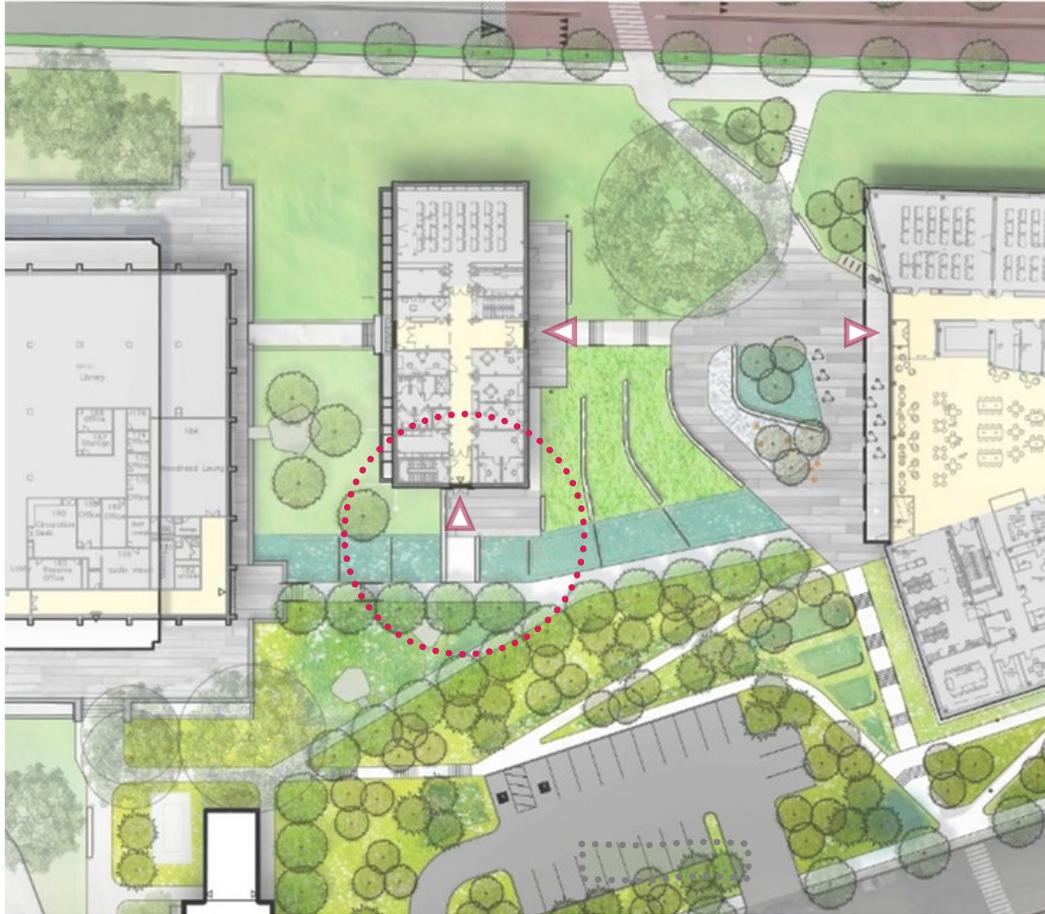
Slab on south side of building to be lowered to keep entire L1 at Elev. 168'-0"

Steps to be removed in RM 107

Steps and exterior grade to be modified

Remove air conditioners and replace with glazing to match existing

Restore Shanklin Façade | Improved & Accessible relationship to grade



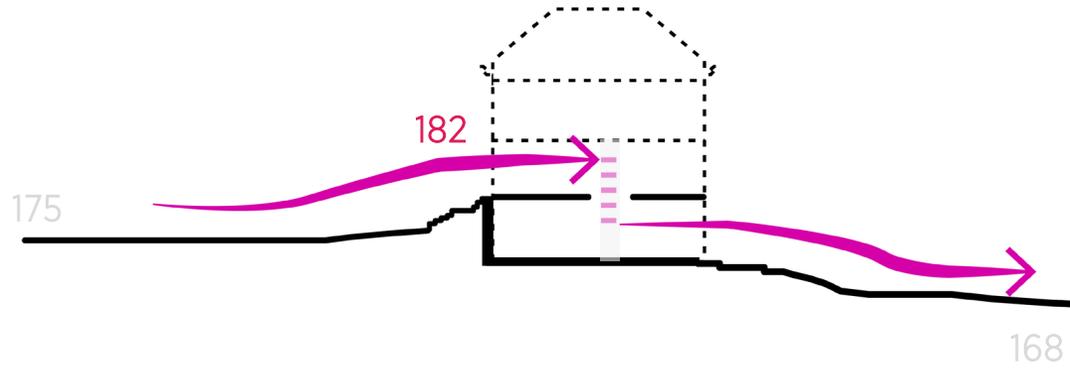
NEW ENTRY & TERRACE



NEW ENTRY & TERRACE

North South Axis | Improved & Accessible relationship to grade

SHANKLIN | EXISTING ENTRY SEQUENCE



EXISTING

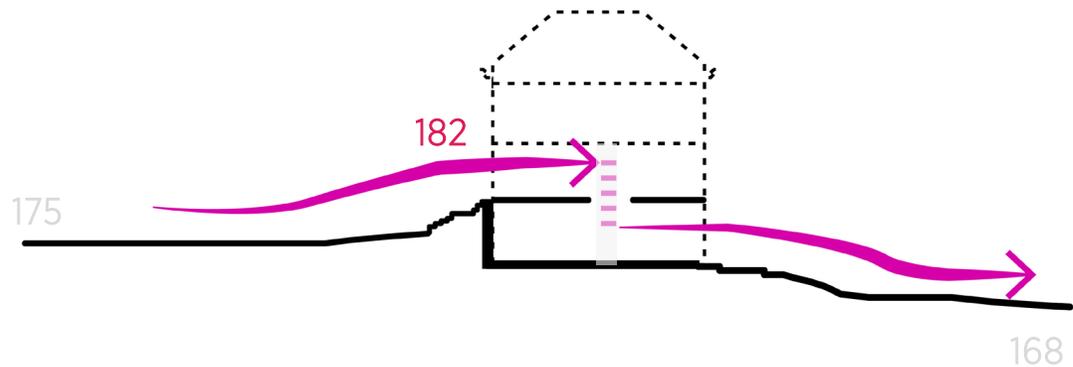
Shanklin Today | Disconnected from grade



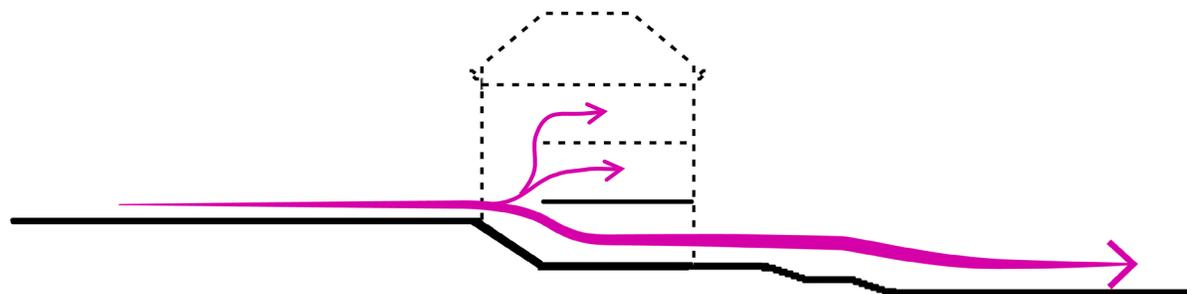
LOST OUTDOOR SPACE



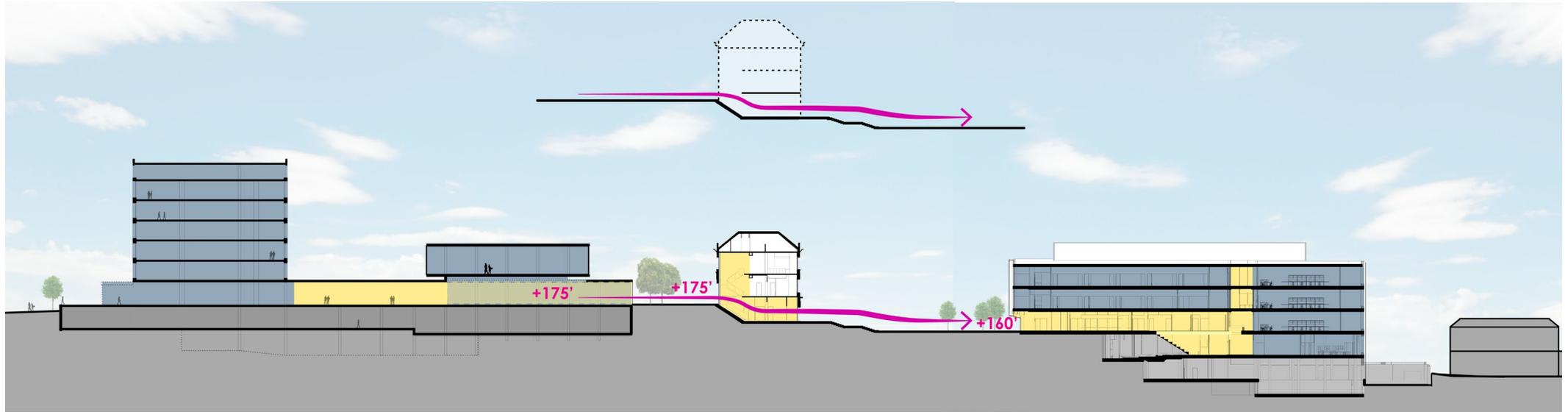
BARRIER & STEPS TO ENTRY



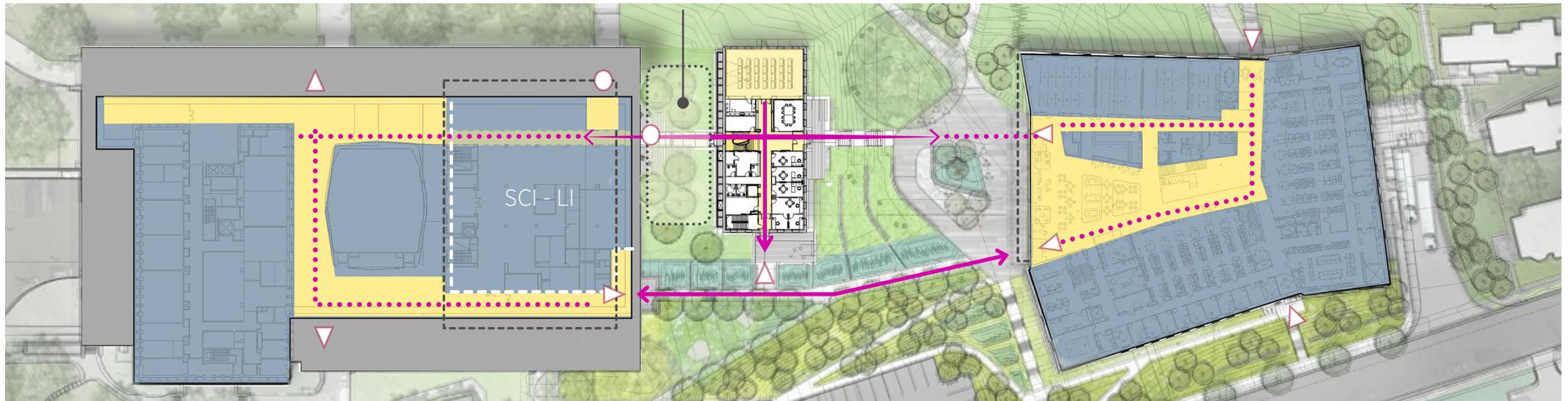
EXISTING



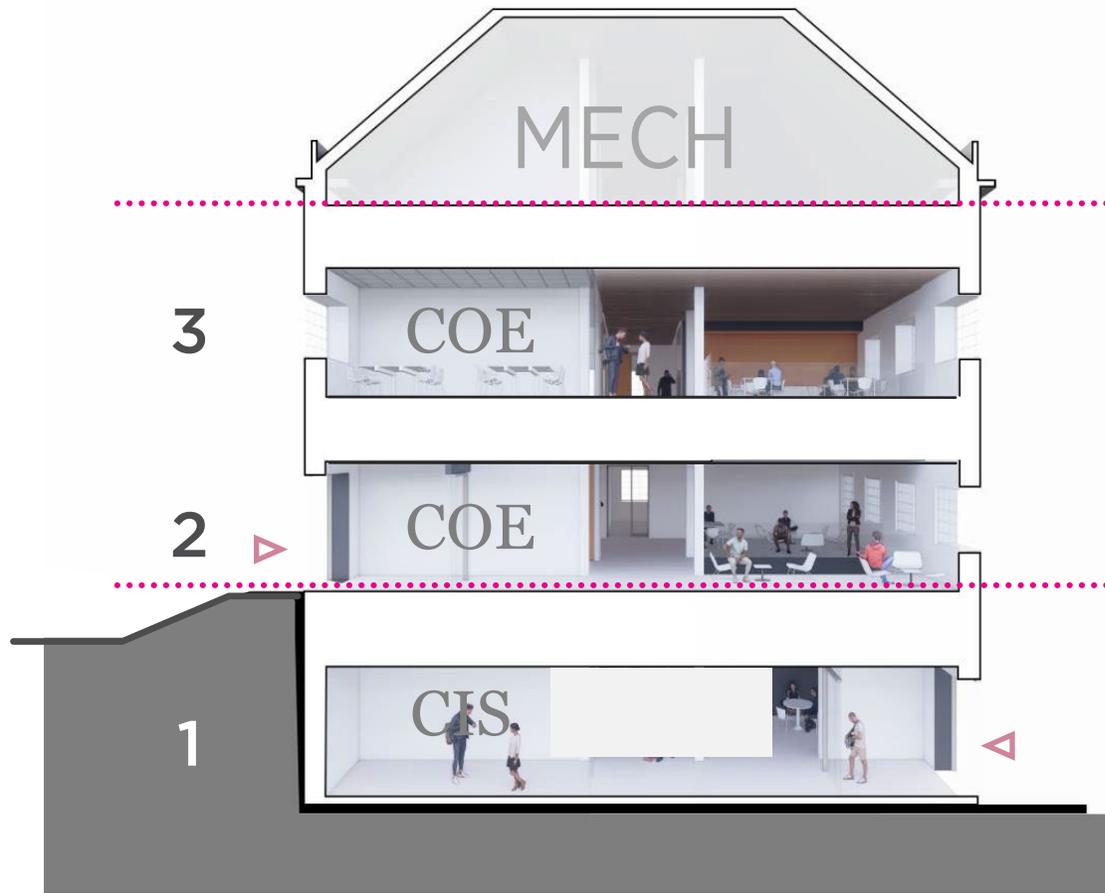
PROPOSED



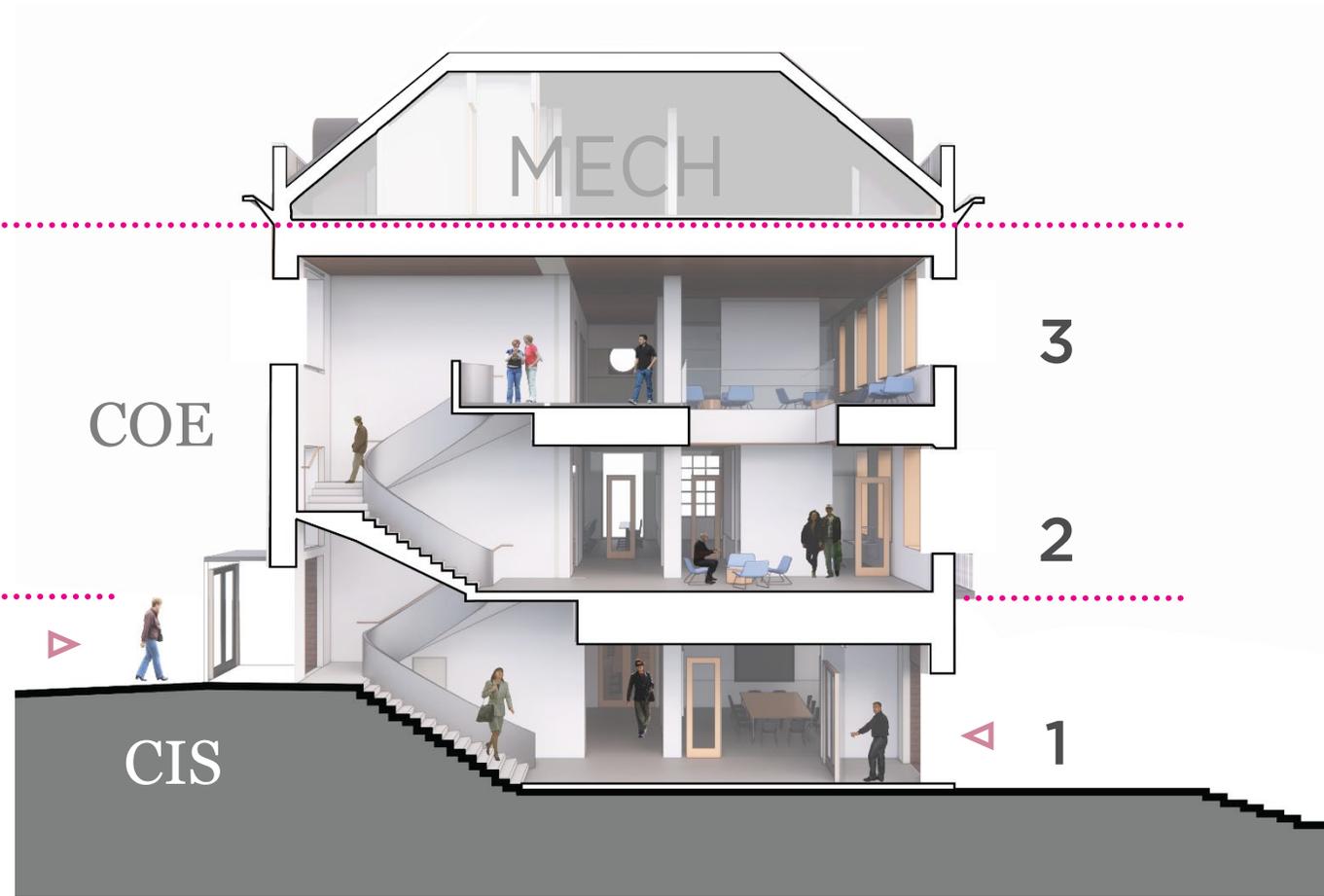
NEW OUTDOOR ROOM



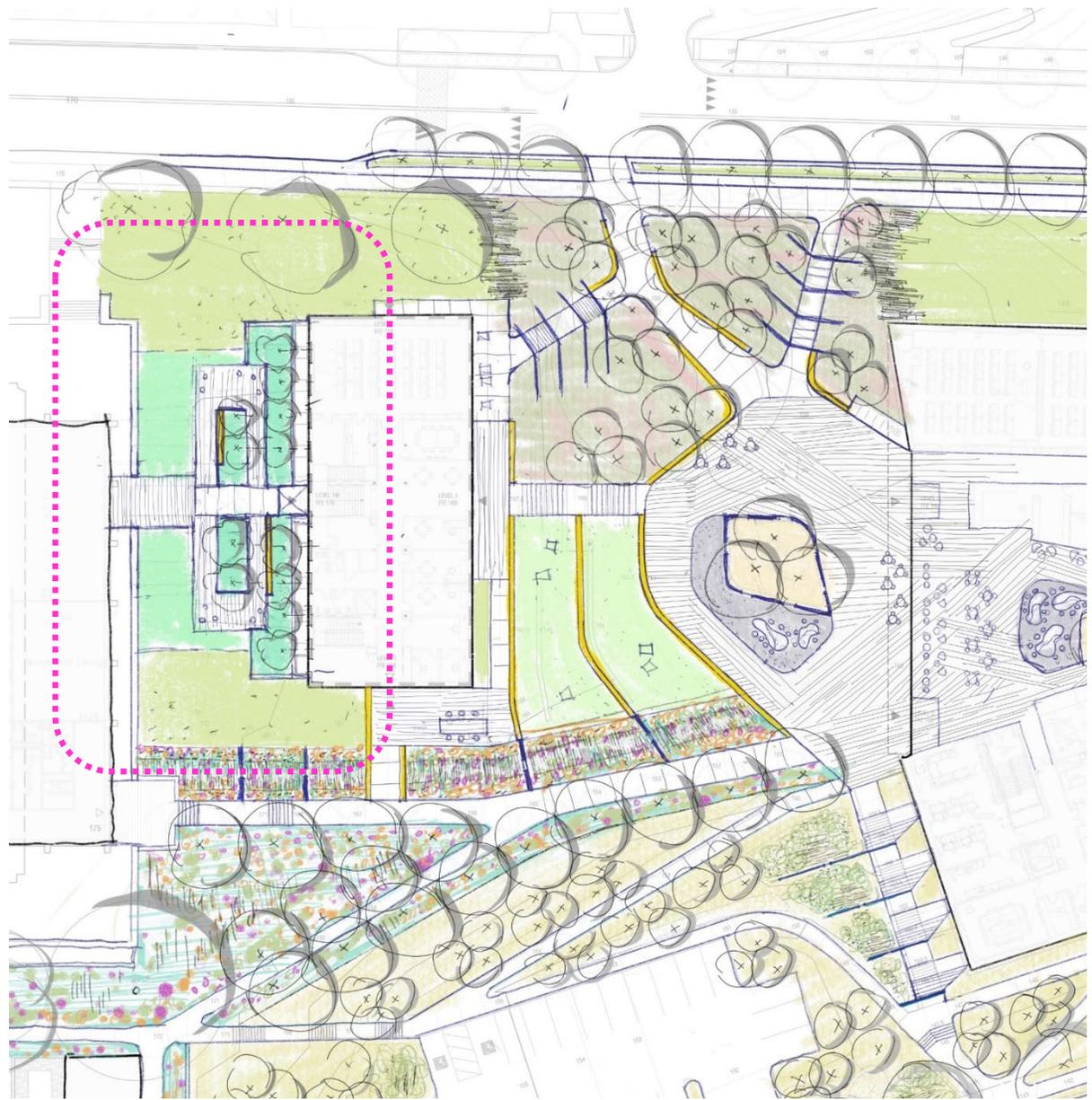
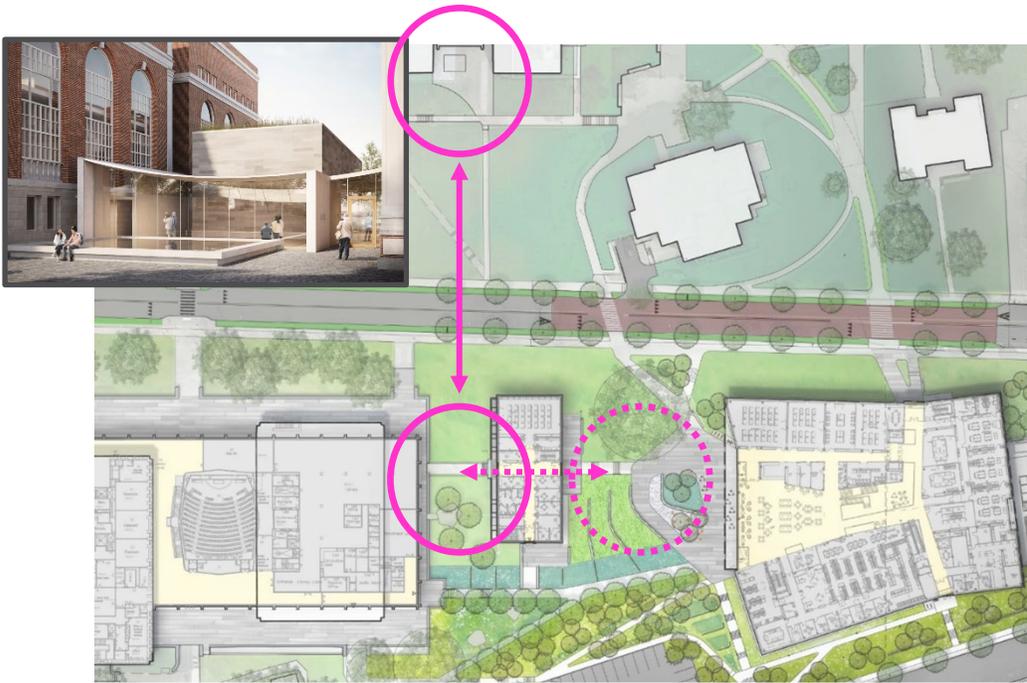
Proposed Regrading | New Connecting Axis



PREVIOUS



REVISED



Intimate Outdoor Room | New Campus Asset at Shanklin



South Façade
(recreated after HA removal)



East Façade



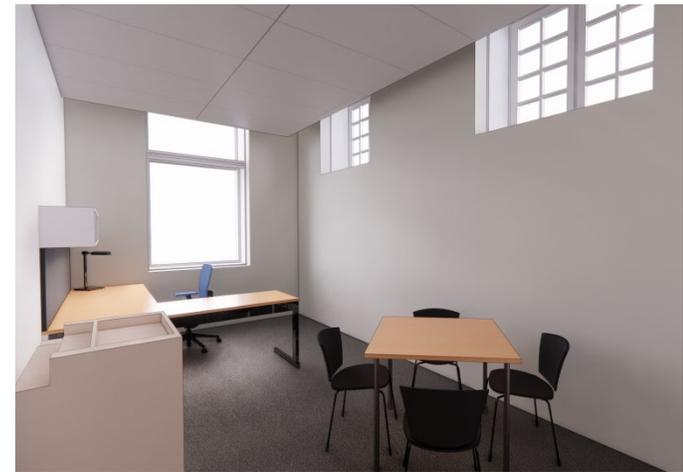
North Façade



West Façade



OPT 1: Referential Windows



OPTION 2: Undivided windows