

University Hospital D2 Module

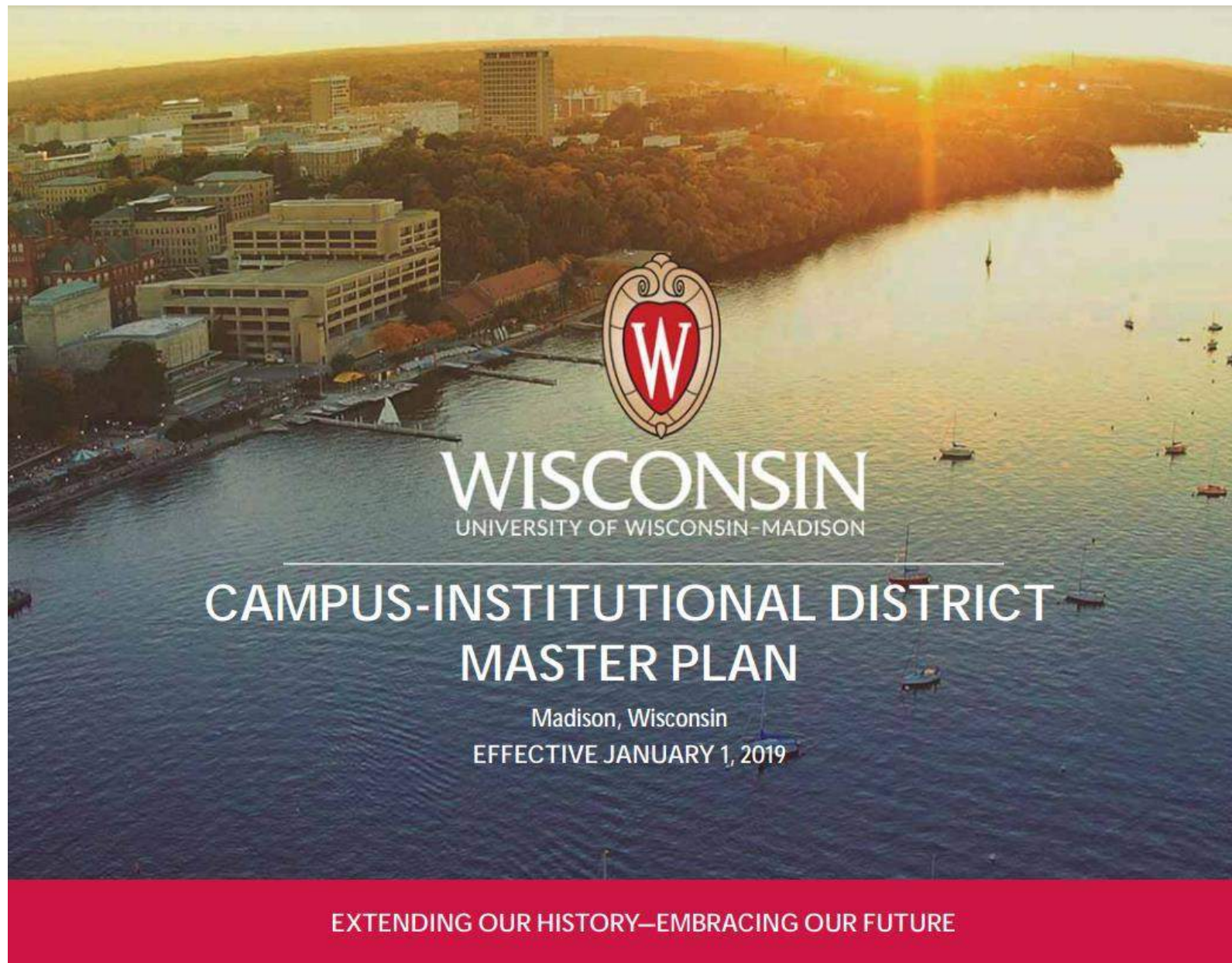
UH D2 Module : Project Description

The proposed D2 Module Addition to University Hospital has been anticipated for quite some time and is a necessary expansion to accommodate the continued growth of UW Health and ongoing modernization of University Hospital / CSC. In keeping with our system of care goals for facilities and sustainable design, it is our goal to meet or exceed the criteria for LEED 4.0 Certification for this project.

The D2 Module project will add approximately 101,500 square feet to University Hospital, organized around the existing module system for the design of the building. The module has an approx. footprint of 14,600 square feet and this addition is proposed to be 6 floors (Level 1 – 6) with a fully enclosed mechanical penthouse on level 7. From the exterior (views from the West, looking East at the Hospital) Level 1 and 2 are below grade, with levels 3 – 6 and the penthouse visible. Other considerations include:

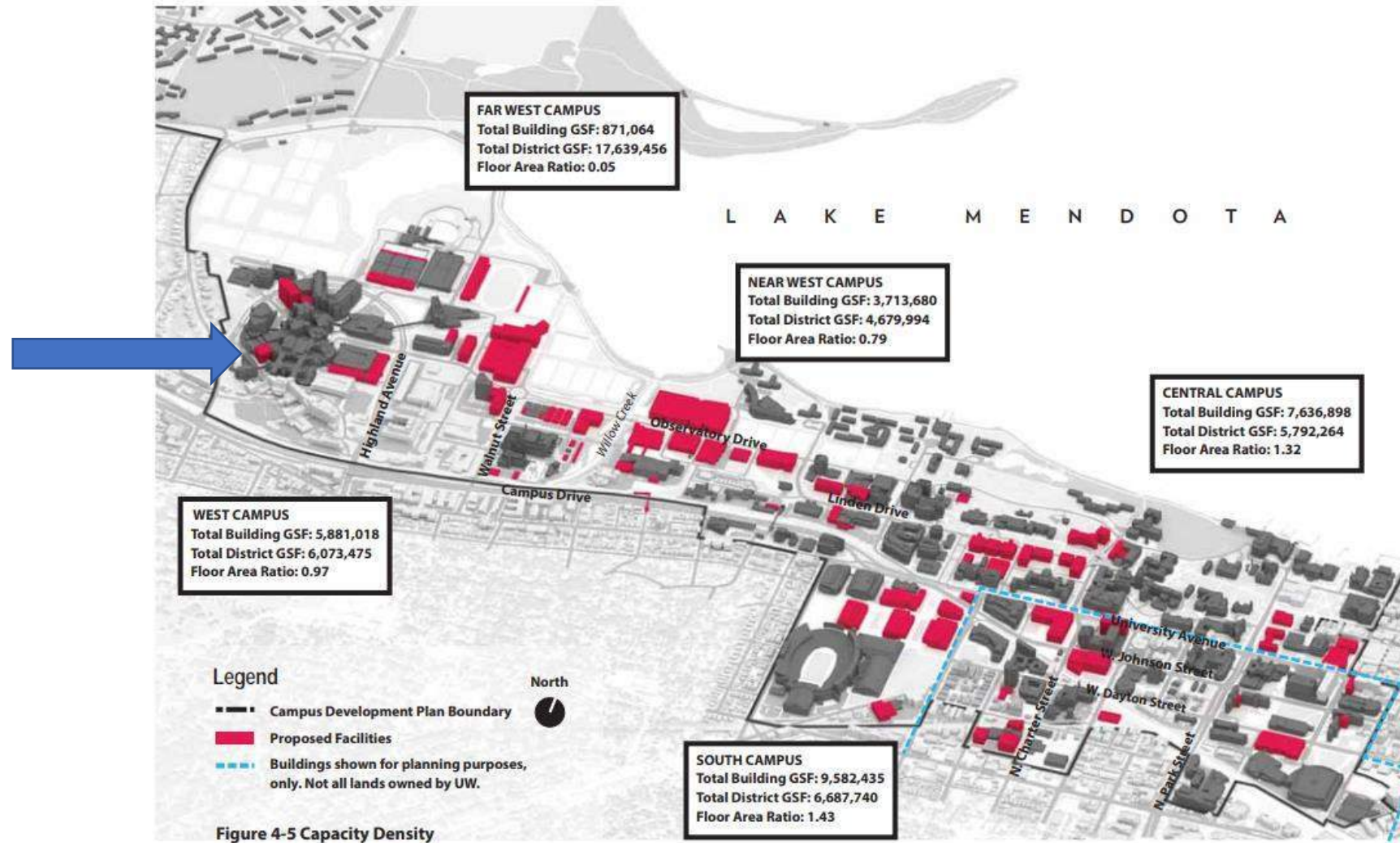
- The proposed D2 Module addition to University Hospital is included in the UW Madison Campus-Institutional District Master Plan, referenced pages are included herein.
- The proposed D2 Module addition will be served by the existing parking facilities.
- The proposed D2 Module addition is internally connected to the existing hospital (no external/new entrances) and does not present a significant change or alteration of the existing site. Existing vehicular and pedestrian circulation patterns, major landscaping and streetscapes will all remain the same.
 - During construction, temporary access and staging areas will be required, and will be coordinated with ongoing operations of the hospital, adjacent buildings and site, and campus operations – including Transportation.

Campus 10-Year Comprehensive Plan



Campus 10-Year Comprehensive Plan

4. FACILITIES PLAN: PROPOSED CONDITIONS



Campus 10-Year Comprehensive Plan

4. FACILITIES PLAN: PROPOSED CONDITIONS



Campus 10-Year Comprehensive Plan

4. FACILITIES PLAN: PROPOSED CONDITIONS

Table 4-1 Proposed Building Summary

District	Map Reference	Building Name	Building Use	Number of Floors	Total Gross Square Feet	Parking Spaces	Phase
Far West							
	W-29	Preserve Outreach Center	Service/Support	1	8,700	–	2023-2029
West							
	W-01	Wisconsin Institutes for Medical Research Phase 3	Health/Hospital	7	308,000	–	2029-2035
	W-02	Parking Structure (Hospital Ramp Addition)	Parking	3	22,700	1,225	2017-2023
	W-04A	Health Sciences Expansion	Health/Hospital	7	60,500	–	2035+
	W-05	McClimon Track/Soccer Grandstand	Athletics	3	78,000	–	2035+
	W-06	Social/Dining/Meeting Rooms/Health Sciences	Union/Student Center	5.5	126,800	–	2035+
	W-07	Health Sciences Research	Research	6	121,938	–	2035+
	W-08	Cooper Hall Addition	Academic	3	30,000	–	2035+
	W-09A	Parking Structure	Parking	6	504,000	1,500	2035+
	W-09B	Health Sciences Research	Research	5	233,250	–	2035+
	W-09C	Health Sciences Research	Research	5.5	231,000	–	2035+
	W-11	WARF Addition	Research	6	192,000	–	2035+
	W-12	Walnut Greenhouse II	Research	1	24,000	–	2017-2023
	W-13	Health Sciences Research	Research	5	164,185	–	2035+
	W-28	Nielsen Tennis Stadium Expansion	Athletics	2	47,075	–	2023-2029
	W-34	Grounds Office/Administration	Service/Support	1	3,000	–	2035+
	W-30	Grounds Storage A – Controlled Temp	Service/Support	1	3,000	–	2035+
	W-31	Grounds Storage B – Covered	Service/Support	1	–	–	2035+
	W-32	Grounds Greenhouse	Service/Support	1	6,000	–	2035+
	W-33	Grounds Storage C – Salt	Service/Support	1	3,500	–	2035+

* Land not currently owned by the UW-Madison Board of Regents/affiliates and/or non C-I District zoning. Will need to adhere to City of Madison Conditional Use process.

Proposed Project: 101,500 GSF

Level 1 & 2 below grade: 27,250 GSF

Level 3 – 6 above grade: 59,650 GSF

Level 7 Penthouse: 14,600 GSF

UH D2 Module : Site Plan

Level 1:

- Facility Support Services

Level 2:

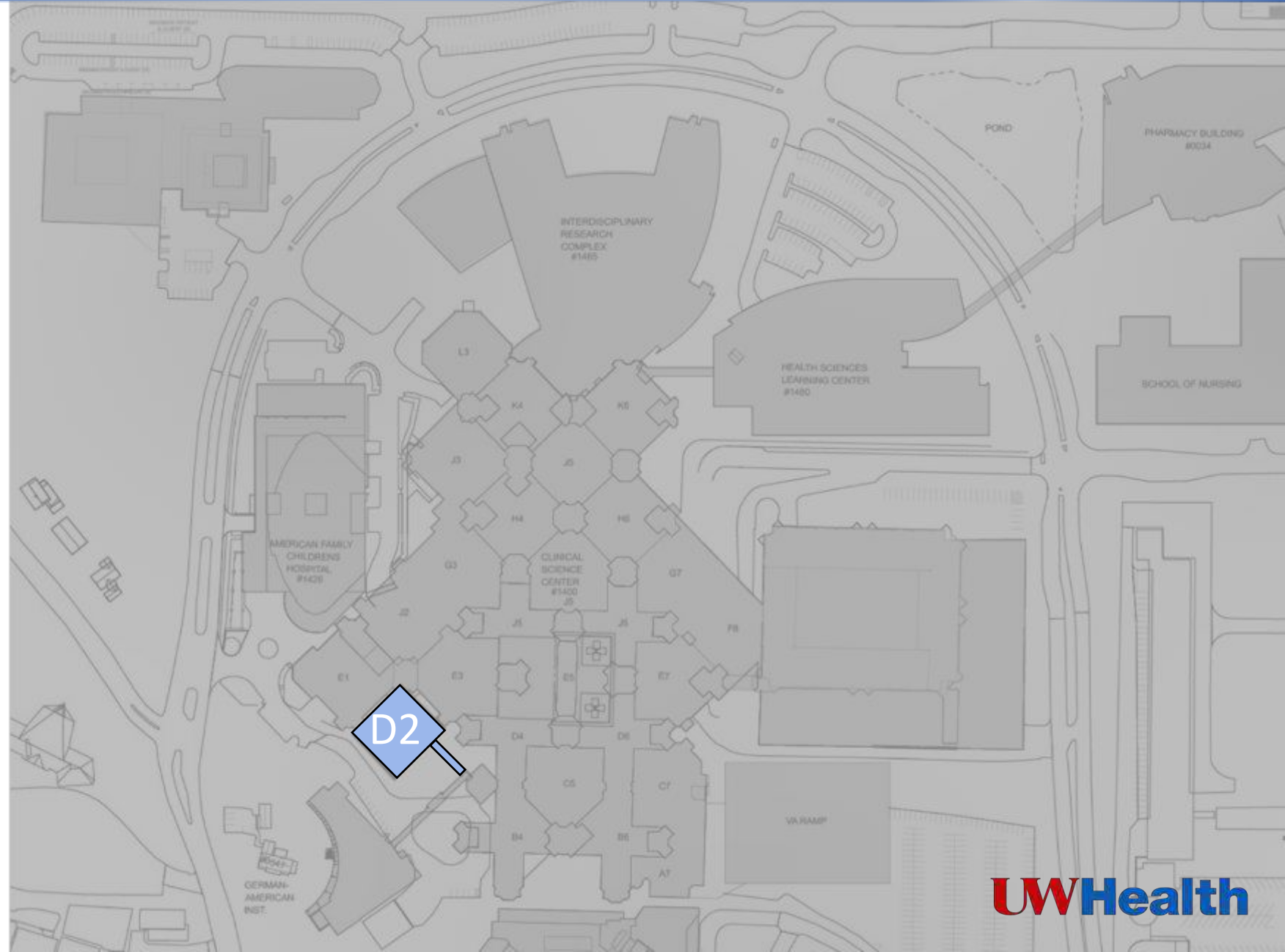
- Emergency Department Expansion

Level 3:

- Surgery & Diagnostic Imaging Pre-Post Expansion

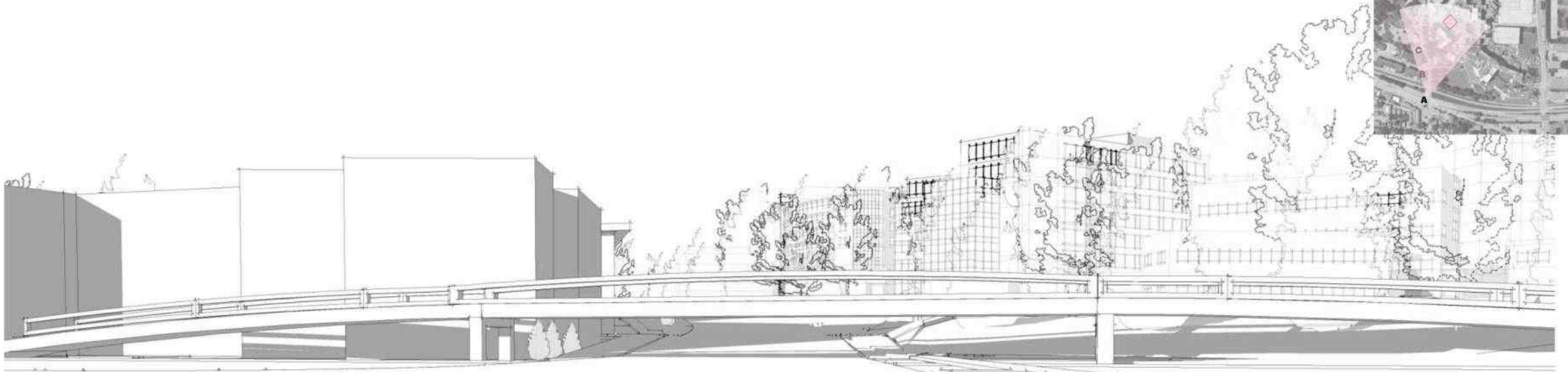
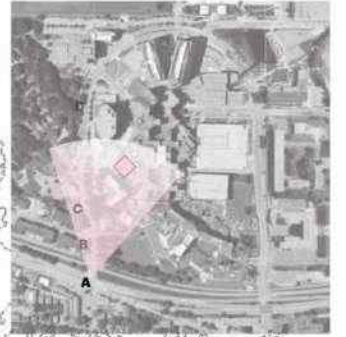
Levels 4 – 6:

- 16 Bed Inpatient Unit per floor
- 48 total Inpatient Beds



D2 Module Addition Site Context & Neighborhood Visibility

Neighborhood Visibility (Location A)

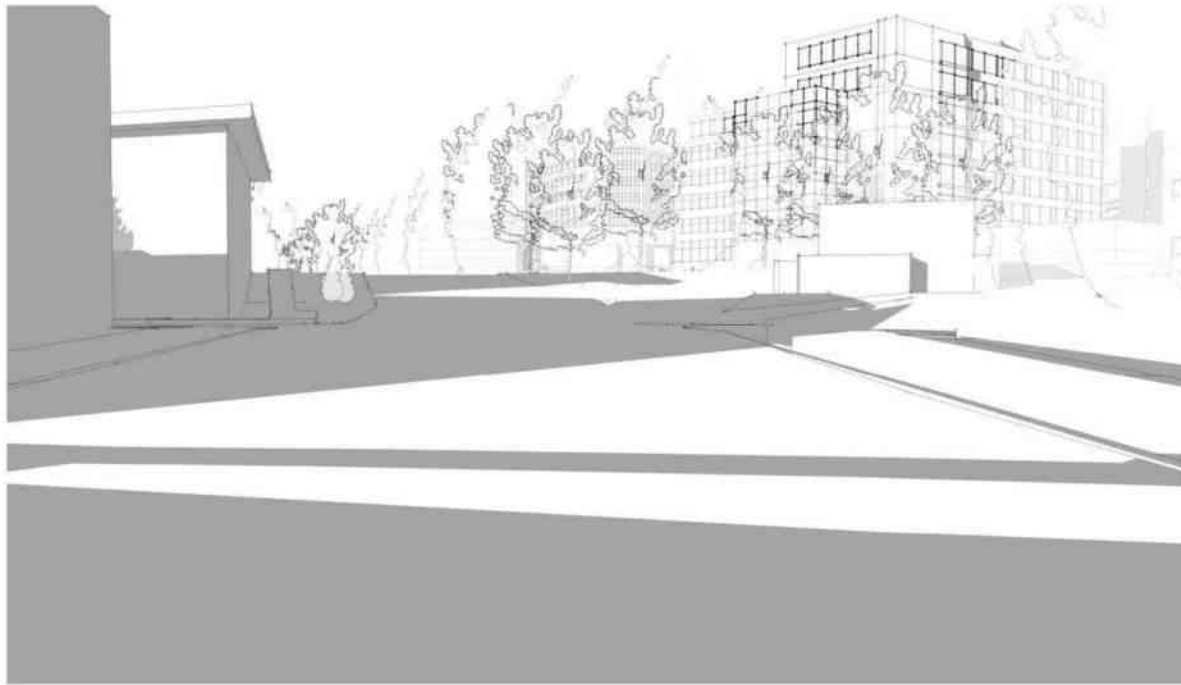


University Avenue and University Bay Drive Intersection – looking North (Actual View)

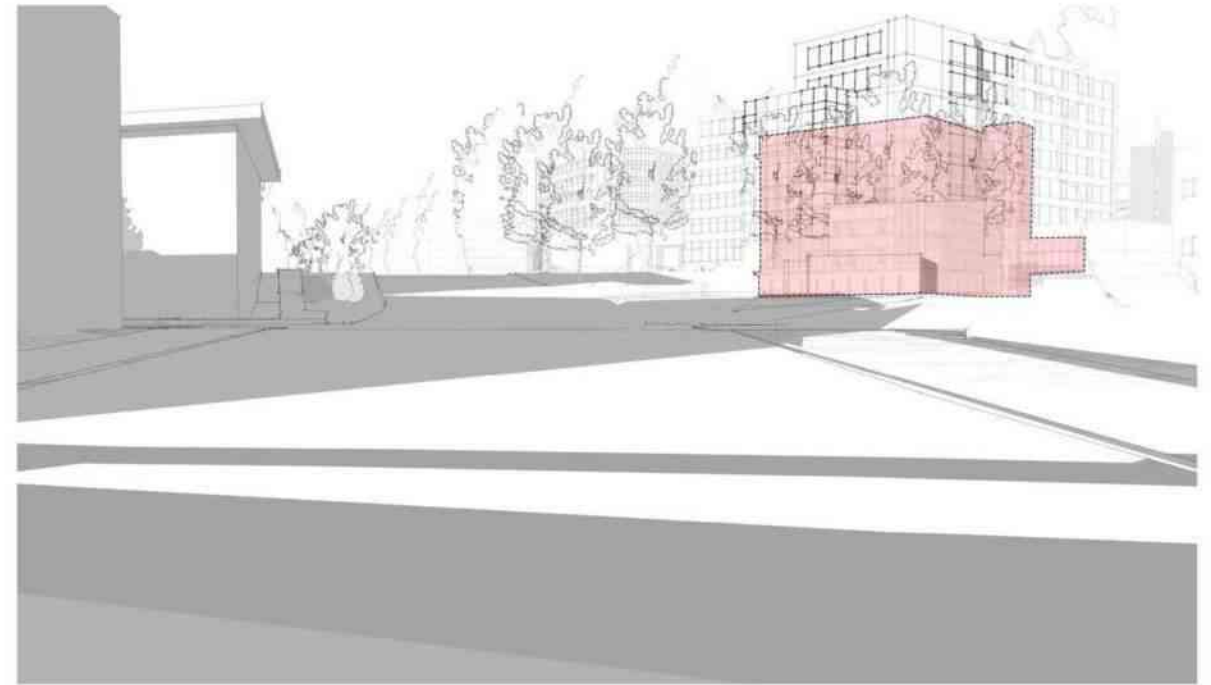


University Avenue and University Bay Drive Intersection – looking North (D2 Module Addition beyond – shaded red)

Neighborhood Visibility (Location B)



Marshall Court and University Bay Drive Intersection – looking North (Actual View)

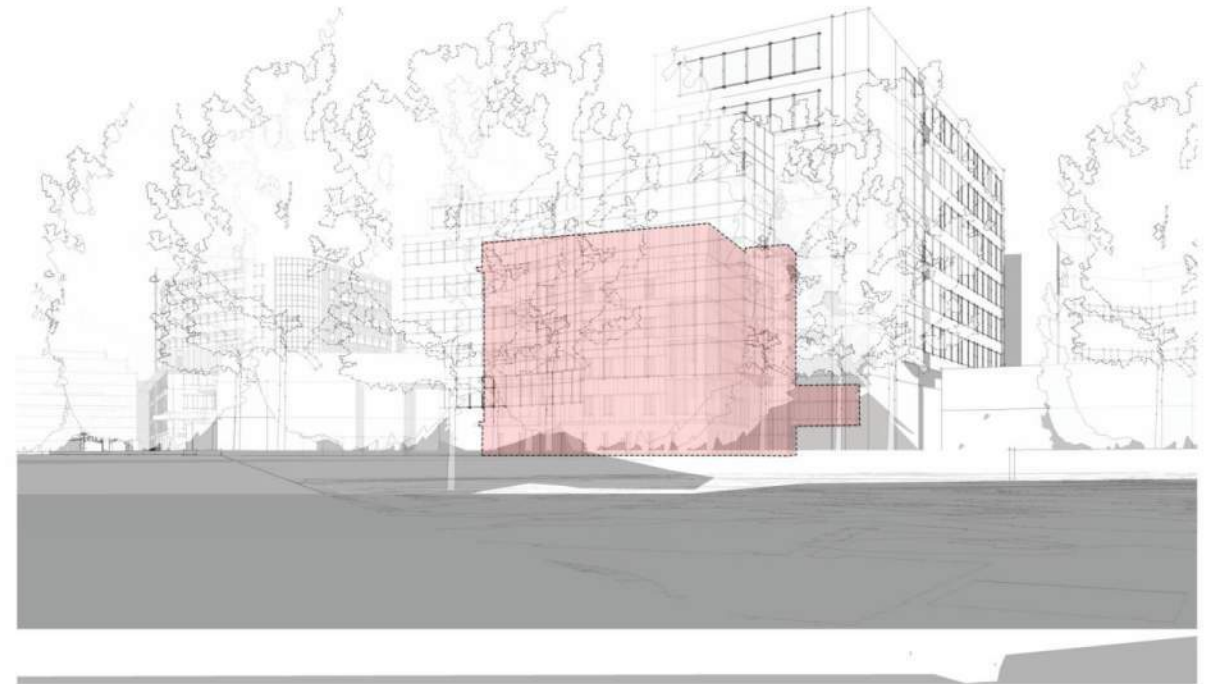


Marshall Court and University Bay Drive Intersection – looking North (D2 Module Addition Beyond – shaded red)

Neighborhood Visibility (Location C)



University Bay Drive – heading North onto Highland Avenue –
looking East at MFCB (Actual View)



University Bay Drive – heading North onto Highland Avenue –
looking East at MFCB (D2 Module Addition Beyond – shaded
red)

Neighborhood Visibility (Location D)



Highland Avenue – heading South – looking East at AFCH
(Actual View)



Highland Avenue – heading South – looking East at AFCH (D2
Module Addition Beyond – shaded red)

D2 Module Addition Conceptual Massing Model and Planning

D2 Module : Stacking Diagram

Existing

Level 10
Level 9
Level 8
Level 7

D2 Module Planned Use

		Penthouse	27'-0"
Level 6 (DOC)	↔	16 Bed Inpatient Unit	18'-8"
Level 5 (Inpatient)	↔	16 Bed Inpatient Unit	18'-8"
Level 4 (Inpatient)	↔	16 Bed Inpatient Unit	18'-8"
Level 3 (Imaging)	↔	22 Bay Prep Recovery	18'-8"
Level 2(ED)	↔	22 Bay ED Expansion	18'-8"
Level 1		Interstitial space to serve ED Expansion Loading dock 15'-5"	AFCH Tunnel Facilities 18'-8"
Basement			

Bridge

D2 Module : Level 1

The floor plan of D2 Module Level 1 is a complex layout of rooms and corridors. Rooms are labeled with alphanumeric codes: H4 (top left), G3 (middle left), F4 (top middle), E3 (middle middle), D4 (top right), E4 (middle right), and E1 (bottom). A large grey-shaded area in the center represents Mechanical/Electrical spaces. An orange-shaded area on the right represents Support Spaces, containing a 'MECH ROOM', 'ELEC', and 'STAIRS'. A yellow-shaded area at the bottom represents Public/Lobby space. A light grey-shaded area at the top right represents Circulation space. A green callout box labeled 'Facility Support Services' points to a specific area on the right. A legend in the bottom right corner defines the color coding: grey for Mechanical / Electrical, orange for Support Spaces, yellow for Public / Lobby, and light grey for Circulation. The UWHealth logo is in the bottom left corner.

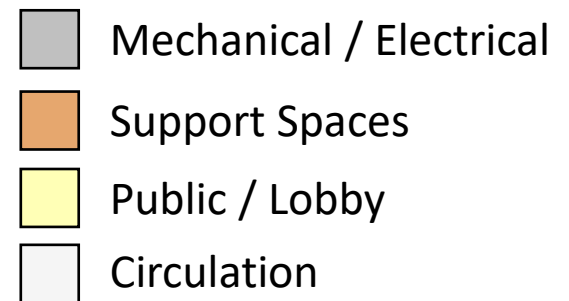
Facility Support Services

Legend:

- Mechanical / Electrical
- Support Spaces
- Public / Lobby
- Circulation

UWHealth

Facility Support Services



D2 Module : Level 2



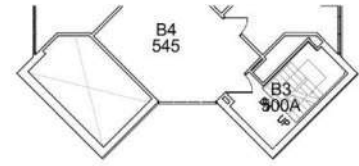
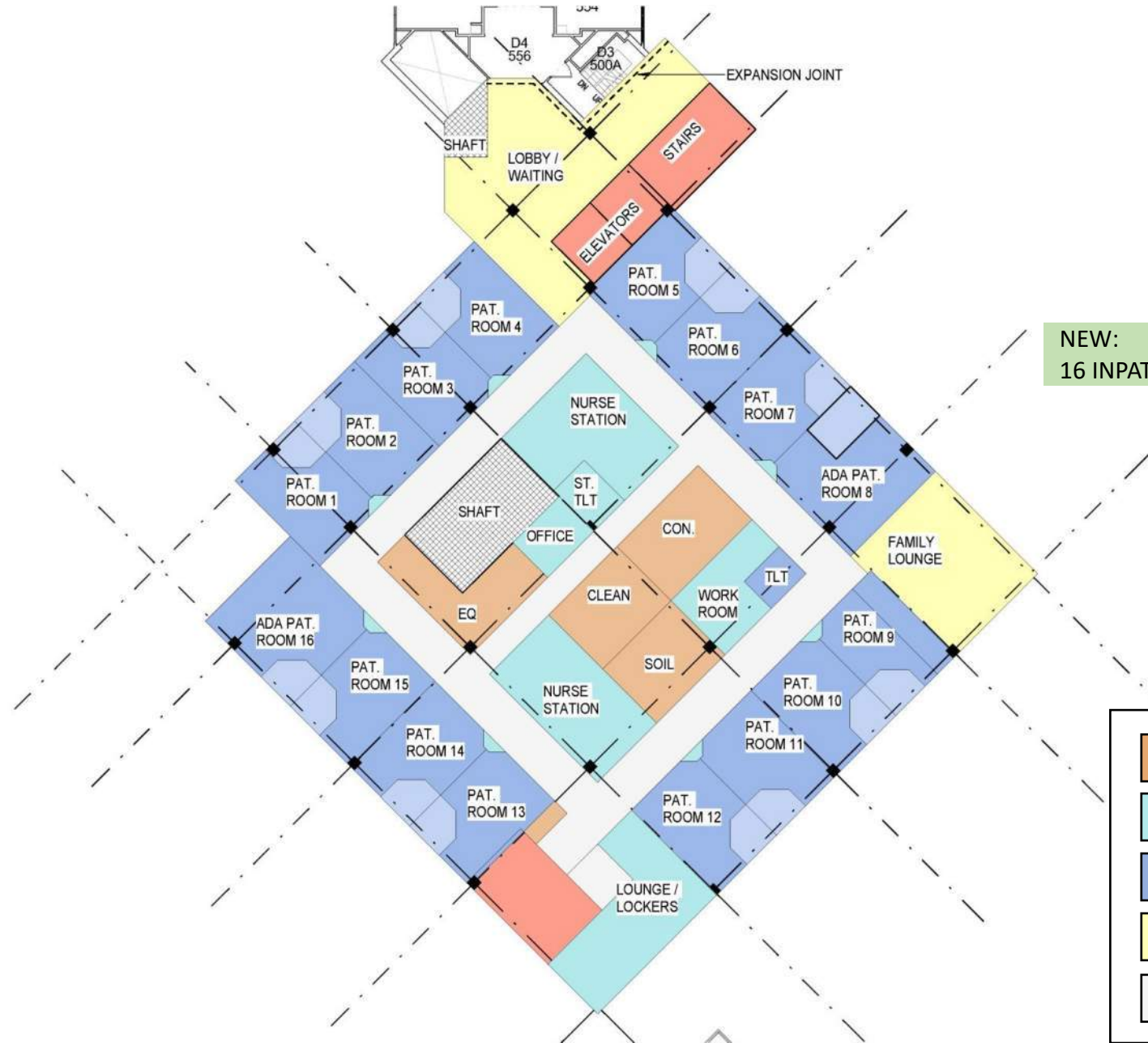
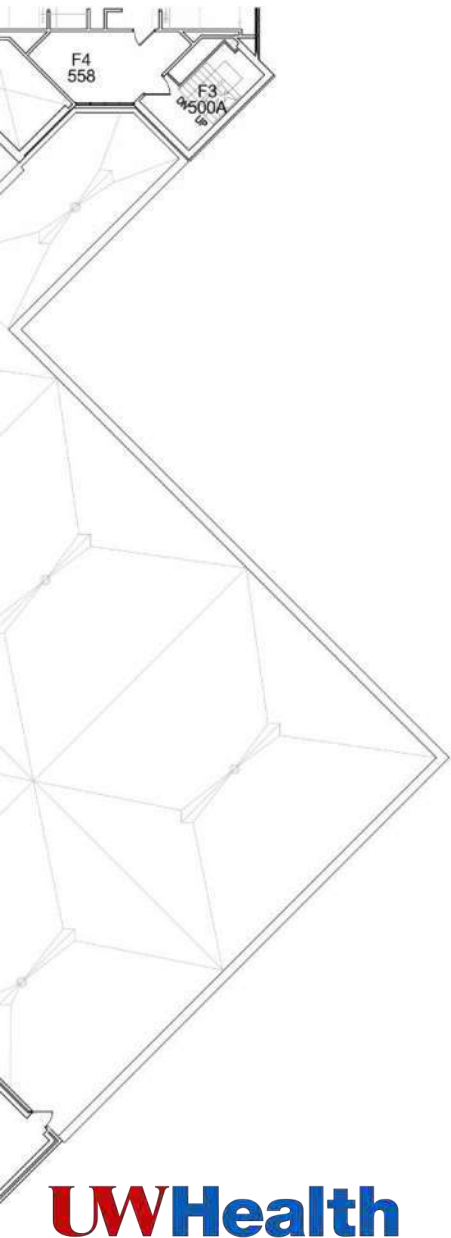
D2 Module : Level 3



D2 Module : Level 4



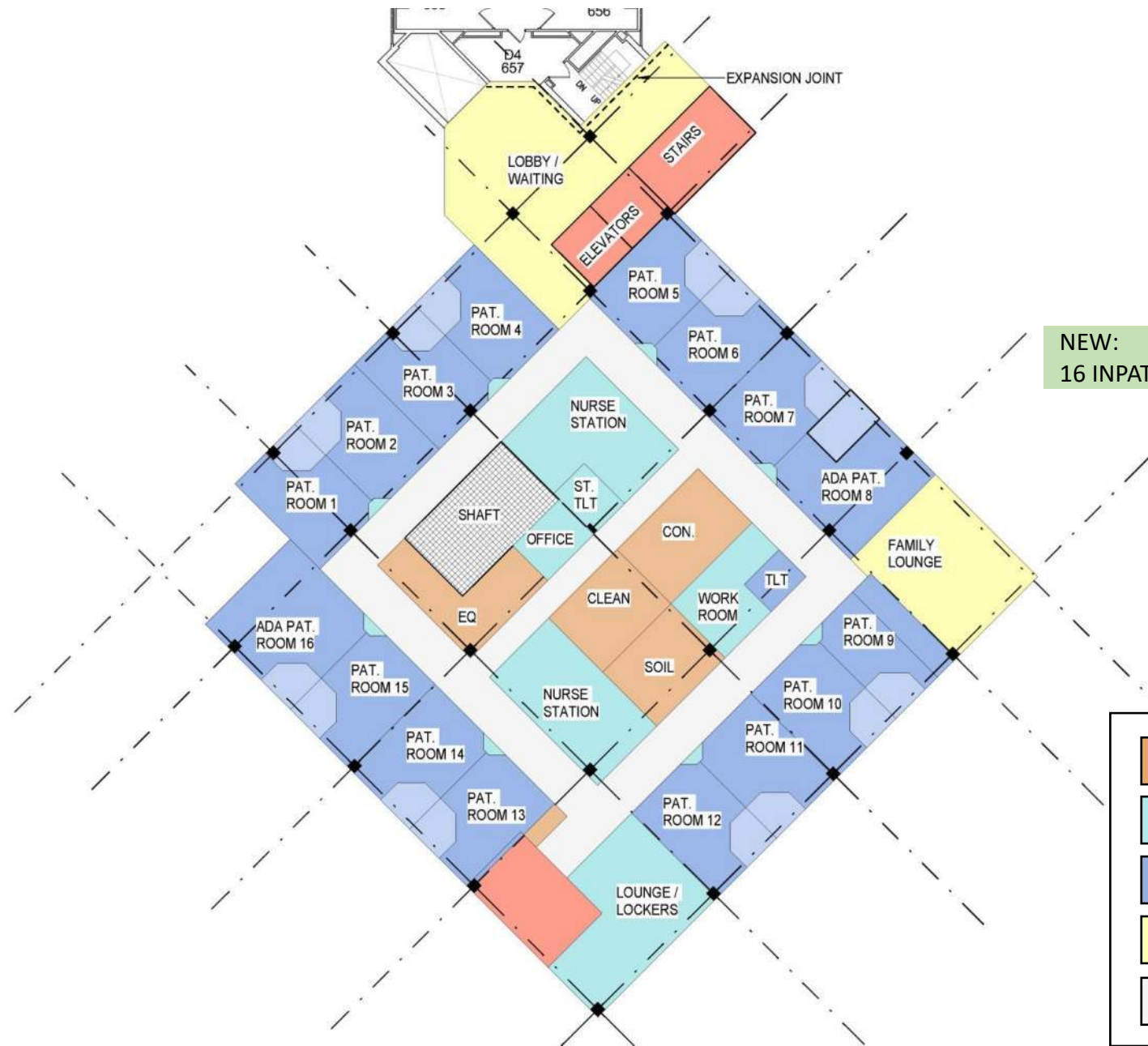
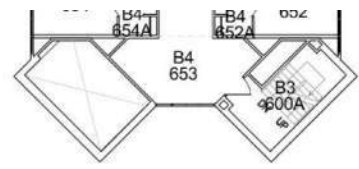
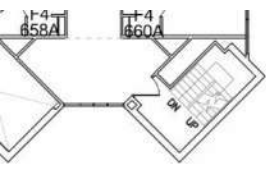
D2 Module : Level 5



NEW:
16 INPATIENT BEDS

- Support Spaces
- Staff Spaces
- Patient Rooms
- Public / Lobby
- Circulation

D2 Module : Level 6



NEW:
16 INPATIENT BEDS

- Support Spaces
- Staff Spaces
- Patient Rooms
- Public / Lobby
- Circulation

D2 Module : Conceptual Rendering



D2 Module : Conceptual Rendering



D2 Module : Conceptual Window Study



OUTBOARD TOILETS



NESTED TOILETS



ADDING SHADOW BOXES

Estimated Project Schedule

June 2023 – CEO Direct Report Review and Recommendation to the Board

June – July 2023 – Informational Meeting with Campus Planning & Transportation

July 2023 – Board Approval and Project Funded to Proceed

July 2023 – Informational Meeting with UW Madison Campus Design Review Board (DRB)

July – September 2023 – Request For Proposals (RFP)

- Architect & Engineers & Construction Manager At Risk

August 2023 – Informational Meeting with Village of Shorewood

September 2023 – Informational Meeting with Joint Campus Area Committee (JCAC)

October 2023 – Project Design Kick-off

- Design will proceed October 2023 – March / April 2024
- Construction Documents will proceed April – September 2024

November 2023 – JCAC Presentation for Recommendation of Approval to DRB

December 2023 – Placeholder for follow up to JCAC to address conditions/comments

January 2024 – Presentation for approval by Campus DRB

February 2024 – Placeholder for follow up to Campus DRB to address conditions/comments

March 2024 – Presentation for approval by Village of Shorewood

April 2024 – Placeholder for follow up to Village of Shorewood to address conditions/comments

July 2024 – Foundation Release to begin excavation and foundation work

- Construction July 2024 – July 2026

October – November 2026 – Go-Live / First Patients



Flad



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON



CALS Facilities Master Plan
UW-Madison Project #9950-2101
UWSA Project #A-21-005

Design Review Board
July 18, 2023

Purpose / Outcome Overview of Master Plan Report

1. Master Plan Overview Vision & Principles
2. Master Plan Analysis and Key Findings
3. Priorities and Implementation



Overview, Vision, Principles, Key Findings

Project Overview

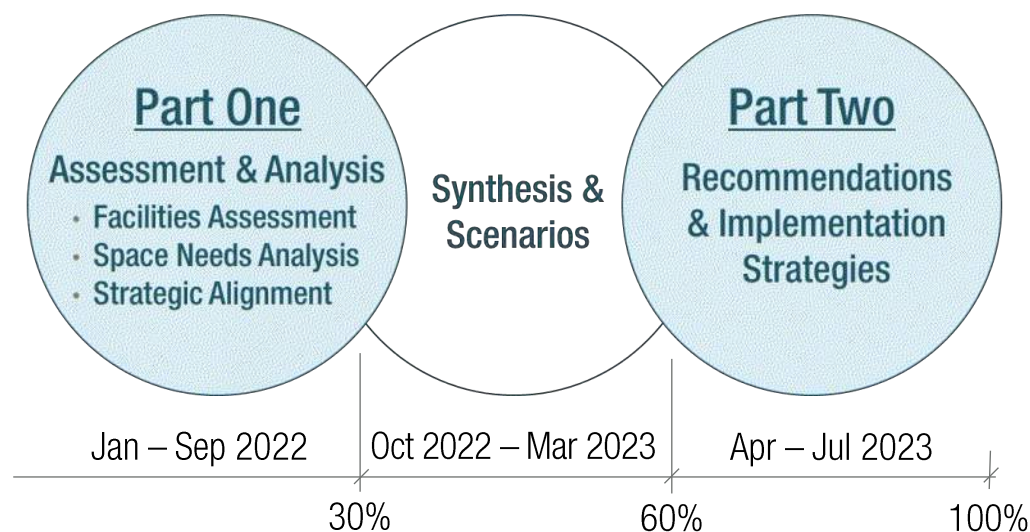
Project Statement

Provide a facilities master plan for the college that will be used to guide the physical development of CALS for the next twenty years. The plan consisted of two parts: 1) Facilities Condition and Utilization Study, followed by 2) Master Plan Scenarios and Recommendations

Master Plan Goals

Align highest & best use of existing facilities with strategic priorities and future space needs, and identify priorities for future investment

Milestones



Project Team

- Flad Architects – Project Lead, Programming / Space Utilization, Design
- TEconomy Partners LLC – Strategic Alignment
- American Design, Inc – Facilities Assessment Support
- Shive-Hattery, Inc. – MEP Assessments
- Charles Quagliana – Historic Preservation

Project Vision & Goals

Project Vision

Strategically align CALS facilities resources for the changing future to best position the college to develop the **next generation of researchers & practitioners** - by enhancing the college's ability to **advance scientific discovery**; foster student-centered **innovative teaching and experiential learning**; and **enrich outreach** to communities, organizations and top industries in Wisconsin and beyond.

Guiding Principles

Foster a Welcoming & Inclusive Community

CULTURE & ACCESS



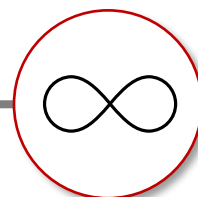
Demonstrate a Spirit of Stewardship

SUSTAINABILITY OF RESOURCES



Plan for Resilience & Change

FLEXIBLE & ADAPTABLE



Reinforce a Network of Knowledge

PARTNERSHIPS



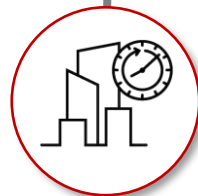
Create a Vibrant Sense of Place

UNITY & COHESION



Strengthen CALS Integrated Mission

FUTURE FORWARD



Project Overview

31 CALS Buildings
26 Facility Assessments

■ Deep Dives
■ Evaluated
■ Not Evaluated

- ① Nutritional Sciences
- ② Taylor Hall
- ③ Genetics-Biotechnology Center
- ④ 445 Henry Mall
- ⑤ Agricultural Engineering Building
- ⑥ DeLuca Biochemical Sciences
- ⑦ DeLuca Biochemistry Building
- ⑧ DeLuca Biochemistry Laboratories
- ⑨ Plant Sciences/Horticulture/Moore
- ⑩ DC Smith Greenhouse
- ⑪ Agricultural Hall
- ⑫ Soils Building / King Hall
- ⑬ Agricultural Bulletin Building
- ⑭ Hiram Smith Hall
- ⑮ Hiram Smith Annex
- ⑯ Microbial Sciences
- ⑰ Russell Laboratories
- ⑱ Babcock Hall

- ⑲ Enzyme Institute
- ⑳ Stock Pavilion
- ㉑ Animal Science Building
- ㉒ Agricultural Engineering Laboratory
- ㉓ Livestock Laboratory
- ㉔ Poultry Research Laboratory
- ㉕ Meat Science & Animal Bioprocess Discovery
- ㉖ Dairy Cattle Center
- ㉗ Dairy Barn
- ㉘ Meat Science & Muscle Biology Lab
- ㉙ Walnut St. Greenhouse
- ㉚ Horticultural Annex
- ㉛ Carrot & Beet Lab

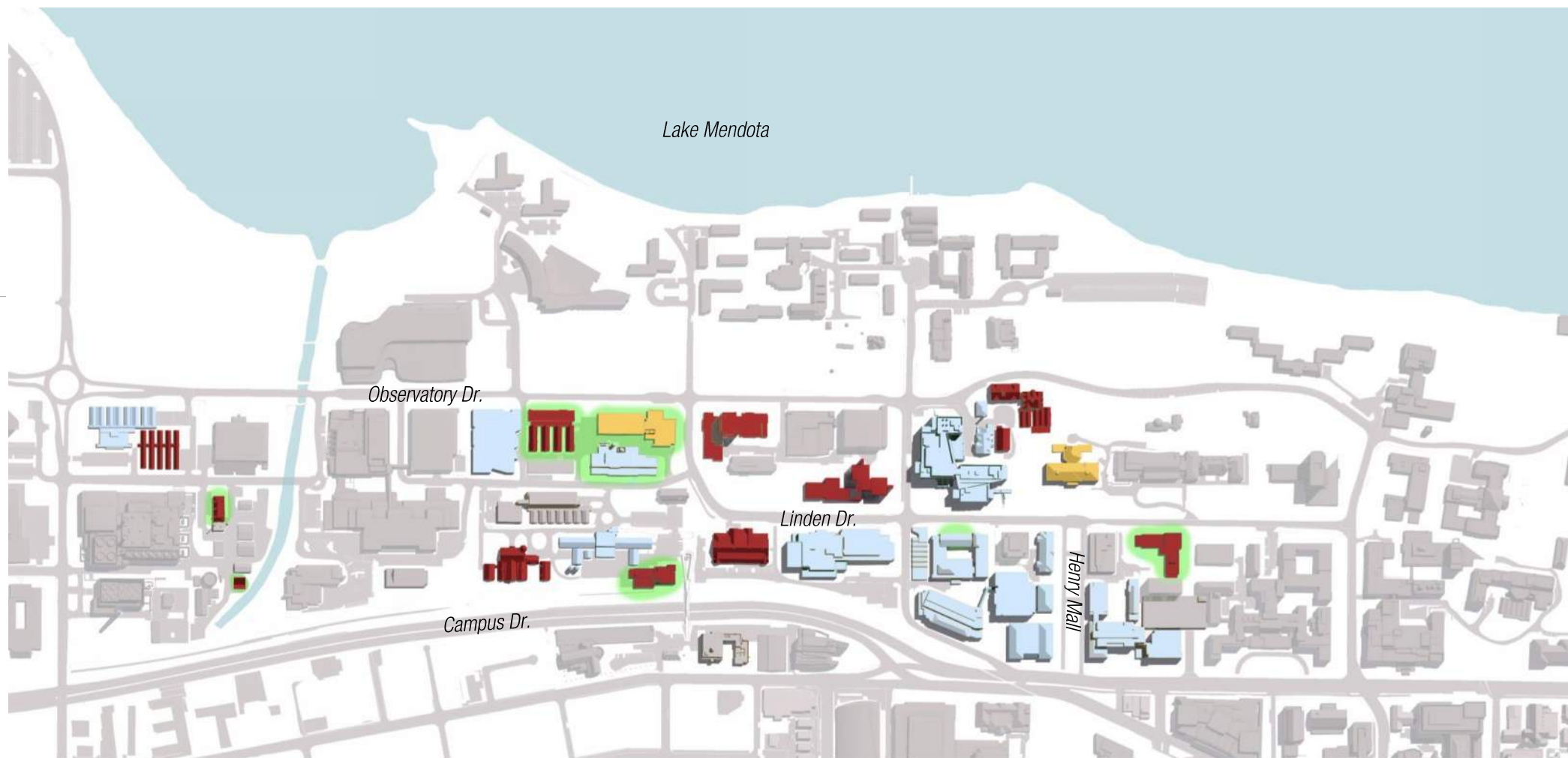


The background image is a high-angle, wide shot of a university campus. In the foreground, there's a large, multi-story brick building with a red-tiled roof and many windows. To its left, there's a modern building with a glass facade and a series of vertical fins. In the background, more campus buildings are visible, including one with a dome. The sky is clear and blue. The text "Analysis and Key Findings" is overlaid in the center, with "Analysis and" in black and "Key Findings" in white, both on a yellow rectangular background.

Analysis and Key Findings

Facility Quality

Buildings with Overall FQI greater than 0.70, or those with heightened attention relative to investment for continued use, considering removal, replacement or alternate use



Flad Historic Building Considerations



Key Analysis Findings

- **There is a need for new greenhouse space** *preferably located closer to researchers that currently use Walnut Street Greenhouses*
- **As much as 40% of current CALS space is significantly underperforming**, *requiring a decision about renovation, investment or replacement*
- **CALS has more space today than is required to meet the future program need**; *as investment is made, space should be incrementally improved and reduced to meet comparable benchmarks and growth needs to support 22% more students overall and 100% more research faculty by 2022*
- **CALS needs a “home base”** *that is welcoming for students, faculty, staff, and visitors; and celebrates the past, present, and future of CALS*
- **Maintaining large animals on campus is important for CALS** *for hands-on animal experience for students and should be part of near and long-range planning*
- **Several important CALS buildings are protected based on historic value** *and the highest and best use of these facilities needs to be determined*
- **More student study and gathering space is required** *across the CALS buildings*
- **More focus on cross / transdisciplinary work in the future can strengthen smaller departments**; *defining existing and future spaces along domain lines of similar types will enable higher levels of flexibility and use*

A background image of a university campus featuring a large, modern building with a grid-like facade on the left, a large brick building with a red roof in the foreground, and various trees and smaller buildings in the distance under a clear sky.

Priorities and Implementation

CALS Priorities for Implementation

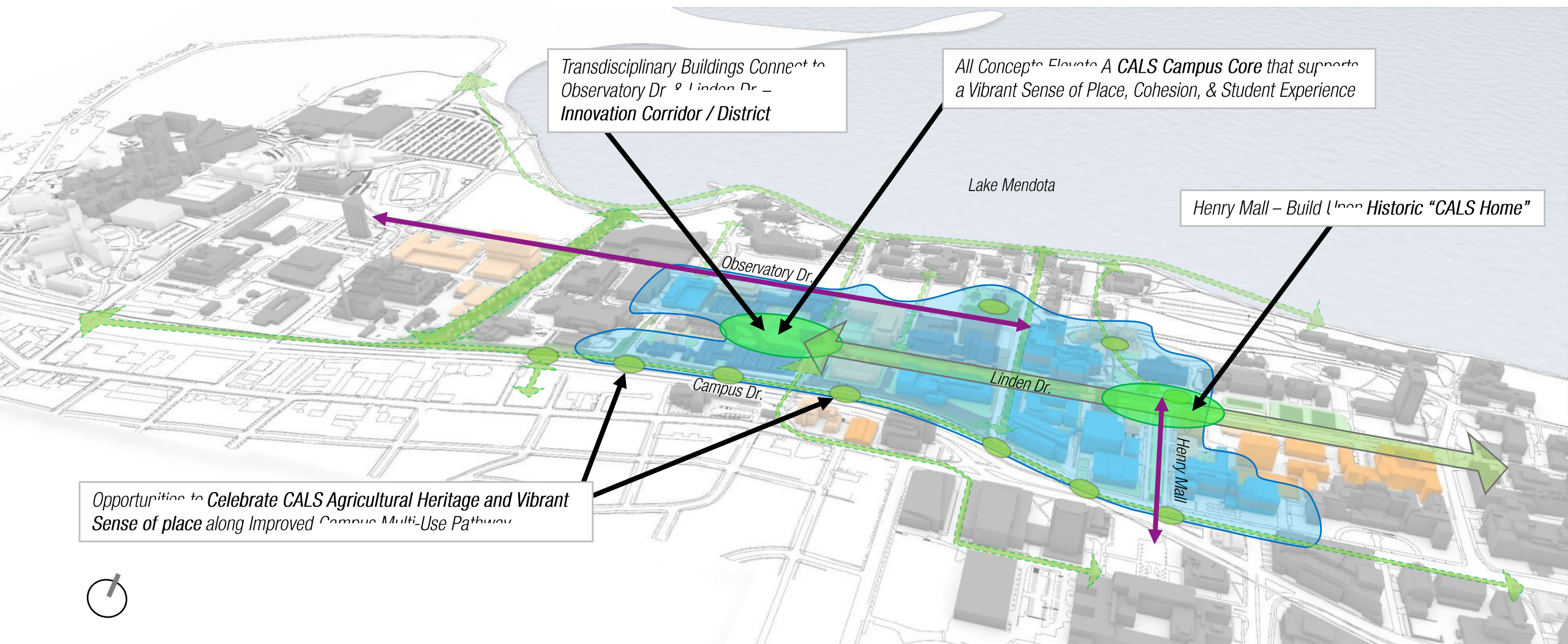
Scenario Implementation Priorities

Order of Priority

- | | |
|---|---|
| <ul style="list-style-type: none"> • Create a 'home' for undergraduate students in Agricultural Hall. <i>Repurpose space vacated by the Department of Planning & Landscape Architecture and improve public spaces on L1 and L2 for Student Center and enhanced student experience</i> | 1 |
| <ul style="list-style-type: none"> • Consolidate CALS research space and divest poor quality / under- performing space. <i>Renovate Russell Laboratories and construct west wing addition for modern, flexible research space to accommodate a wide range of CALS research needs</i> | 2 |
| <ul style="list-style-type: none"> • Modernize greenhouses to meet needs as shared resource for CALS and campus partners. <i>Relocate greenhouses from Walnut Street to ROTC / Poultry Research Laboratory site</i> | 3 |
| <ul style="list-style-type: none"> • Develop an Agricultural & Life Sciences research hub to promote transdisciplinary research and discovery. <i>Construct new, shared research facility adjacent to new greenhouse location</i> | 4 |
| <ul style="list-style-type: none"> • Vacate poor quality space in the existing Nutritional Sciences Building. <i>Relocate program to optimize access to shared resources and synergies within the Life Sciences domain</i> | 5 |
| <ul style="list-style-type: none"> • Address remaining improvements required for Agricultural Hall to fully realize the facility's landmark status and display the enduring quality of CALS. <i>Renovate interior and exterior spaces and systems not addressed in priority 1</i> | 6 |
| <ul style="list-style-type: none"> • Combine large animal teaching and research in one centralized experiential learning and discovery center. <i>Consolidate the Dairy Cattle Center, Poultry Research Lab and Livestock Lab functions in one new facility</i> | 7 |
| <ul style="list-style-type: none"> • Develop a new Food and Agricultural Systems / Interdisciplinary Sciences Building. <i>Address research space needs for functions currently housed in the Animal Science Building</i> | 8 |

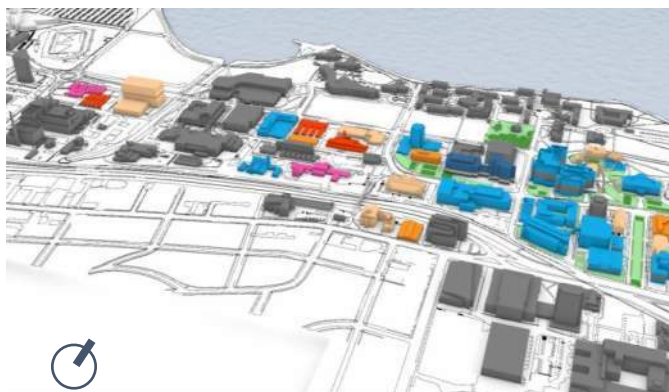
Note: Class labs and general assignment classrooms will be coordinated as facilities are renovated / replaced

CALS Master Plan Concept

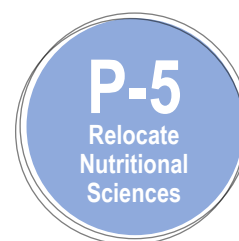


CALS Sequencing Priorities: Phased Timeline

Near-Term Priorities 2022-2029 Biennium



Mid-Term Priorities 2029-2037 Biennium



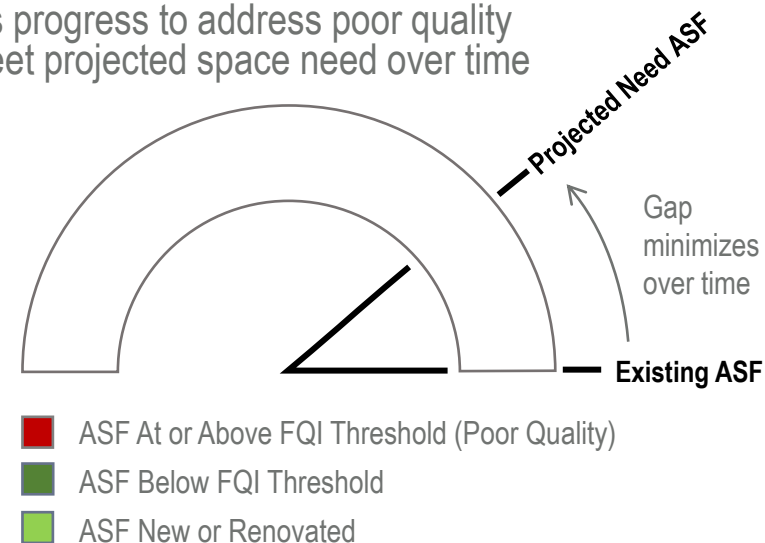
Long-Term Priorities 2037+



Graphic & Data Orientation

Space Quantity & Quality

Demonstrates progress to address poor quality space and meet projected space need over time



Site Plan Legend

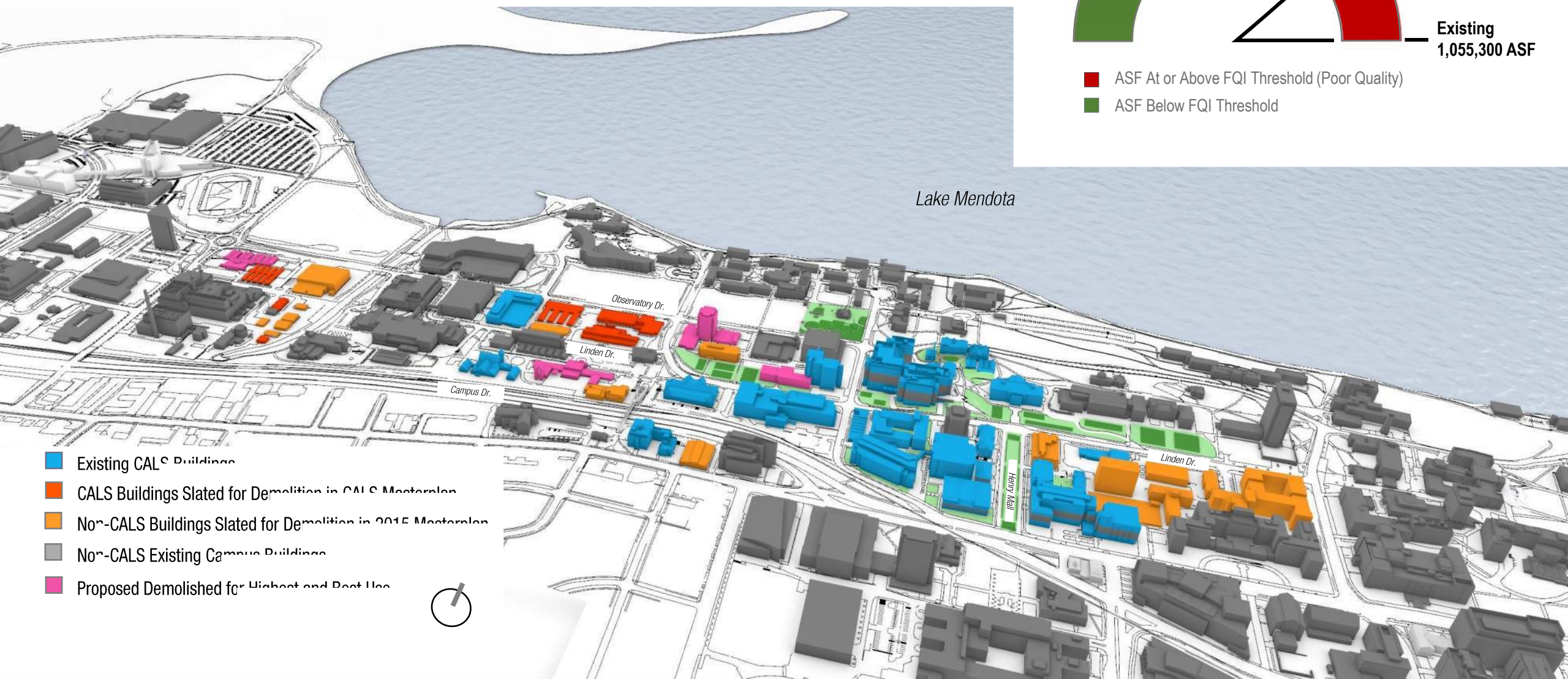
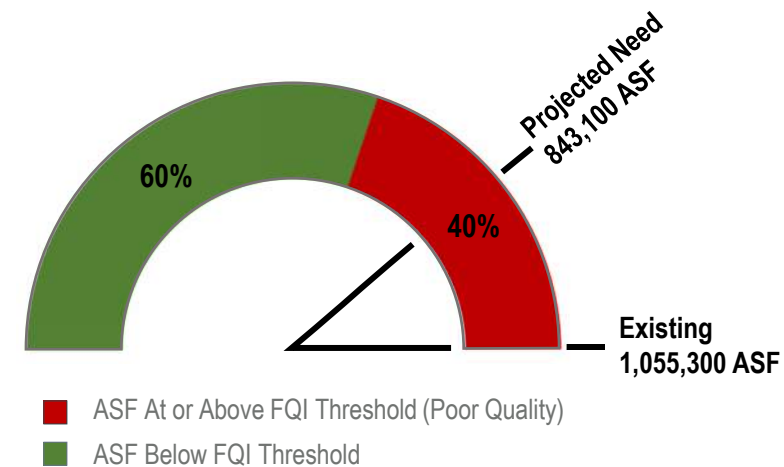
Demonstrates transition of facilities occupied by CALS with overlay of significant planning influences

- New and Renovated CALS Buildings
- Existing CALS Buildings
- CALS Buildings Slated for Demolition in CALS Masterplan
- Non-CALS Buildings Slated for Demolition in 2015 Masterplan
- Non-CALS Campus Opportunities
- Non-CALS Existing Campus Buildings
- Proposed Demolished for Highest and Best Use

Site Plan

Demonstrates physical planning, facility and site changes over time

Planning Data



Next-Term 2020-2025

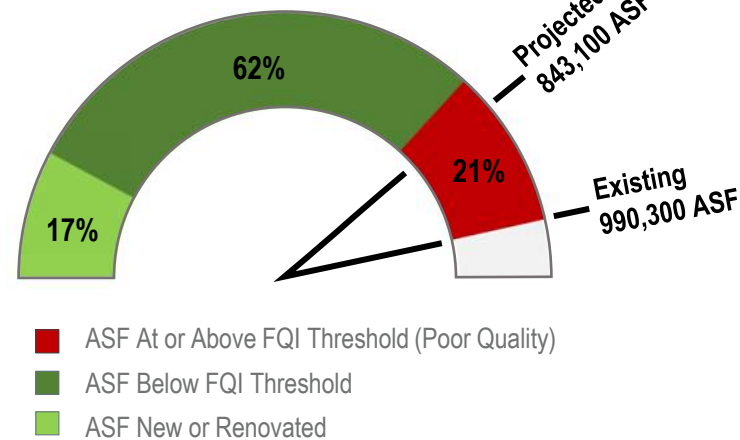
West Campus Masterplan Buildout

Consolidation of Environmental Systems

Partially Renovate Agricultural Hall

Russell Laboratories West Wing Demolition Followed By Full Renovation and Expansion

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Lake Mendota

Observatory Dr.

Linden Dr.

Campus Dr.

Linden Dr.

Henry Hall

Mid-Term 2020-2027

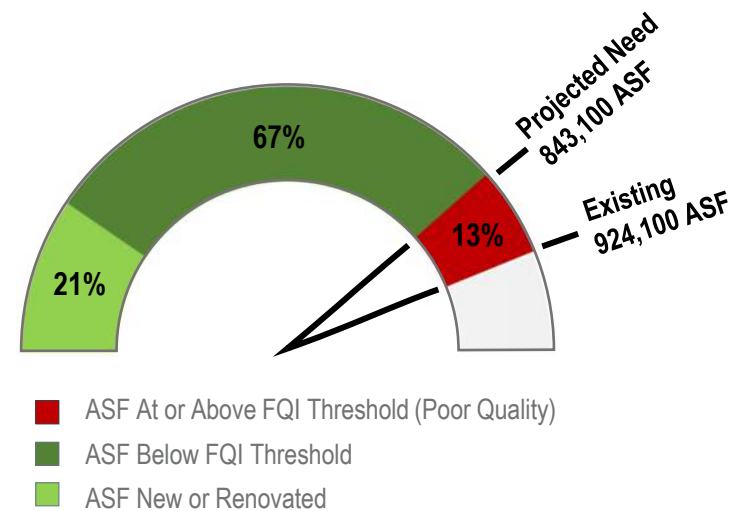
West Campus Masterplan Buildout

Shared CALS Resource

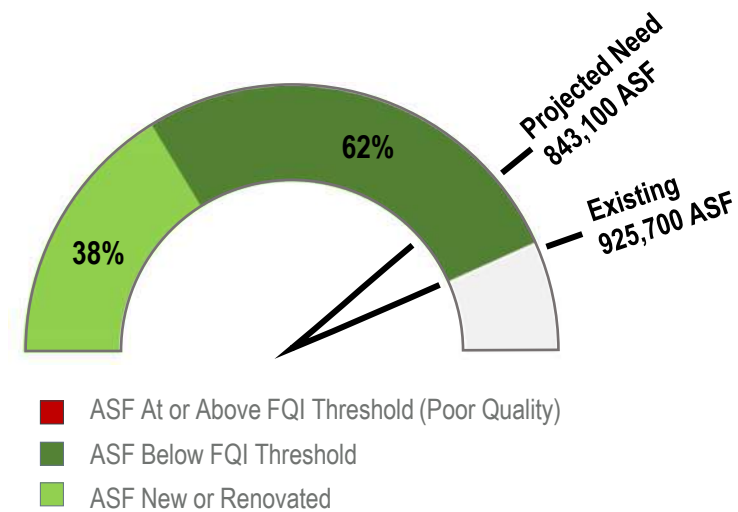
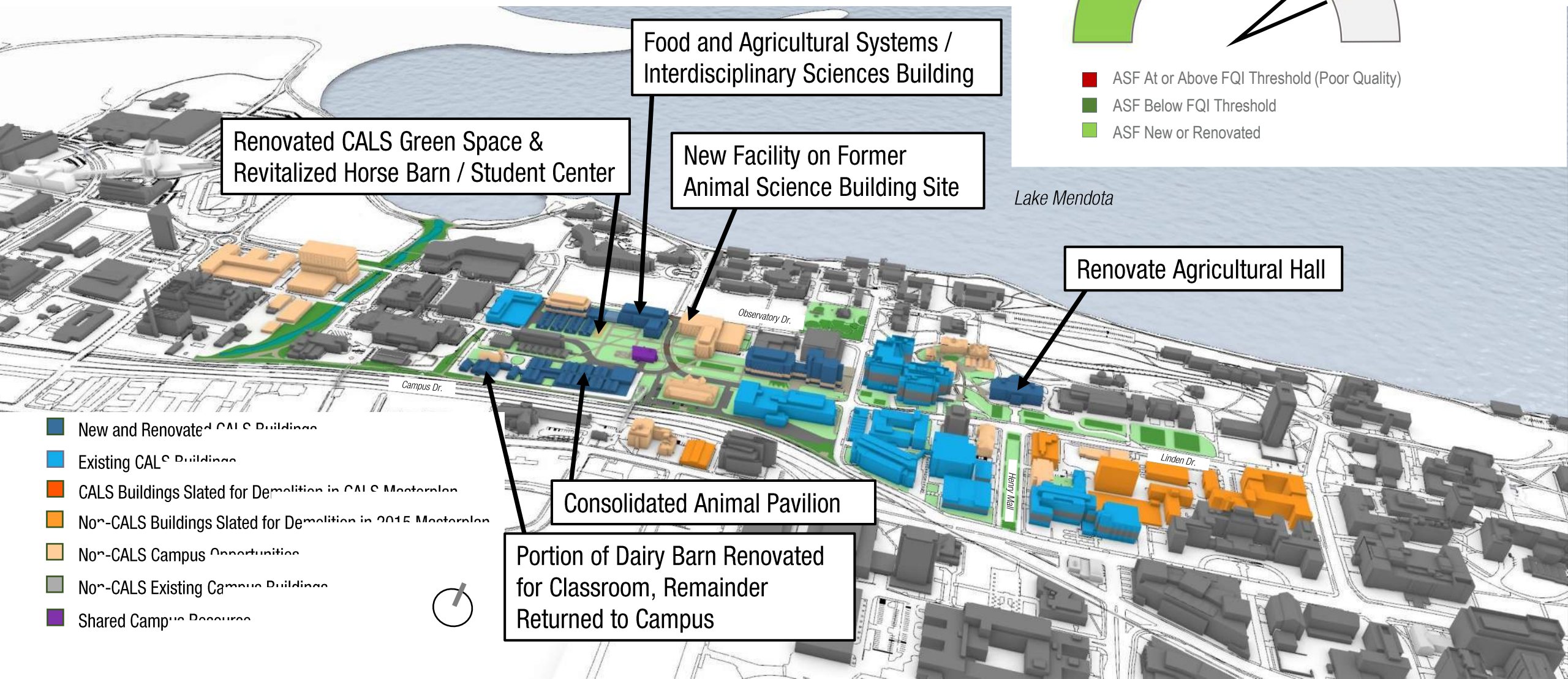
Agricultural & Life Science Research Hub

Lake Mendota

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Long-Term 2027



- New and Renovated CALS Buildings
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- Non-CALS Campus Opportunities
- Non-CALS Existing Campus Buildings
- Shared Campus Resources

Food and Agricultural Systems / Interdisciplinary Sciences Building

Renovated CALS Green Space & Revitalized Horse Barn / Student Center

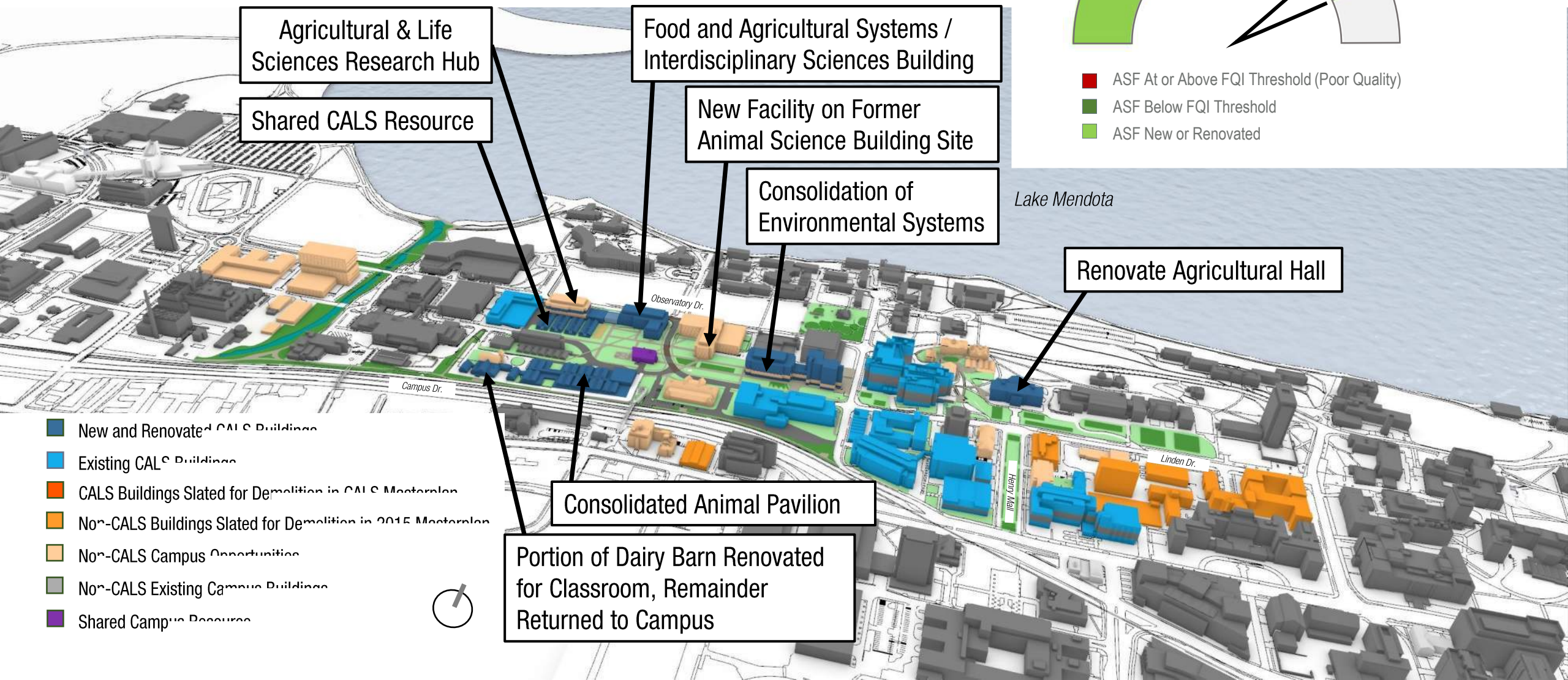
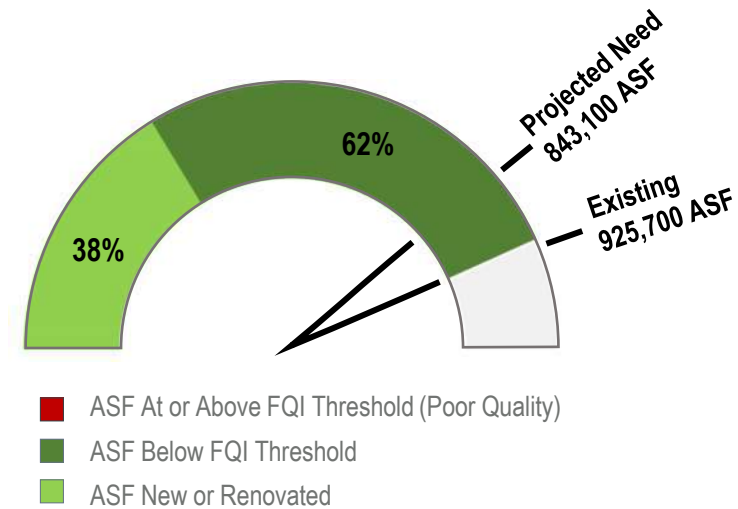
New Facility on Former Animal Science Building Site

Consolidated Animal Pavilion

Portion of Dairy Barn Renovated for Classroom, Remainder Returned to Campus

Renovate Agricultural Hall

Overall Summary, 2027 .

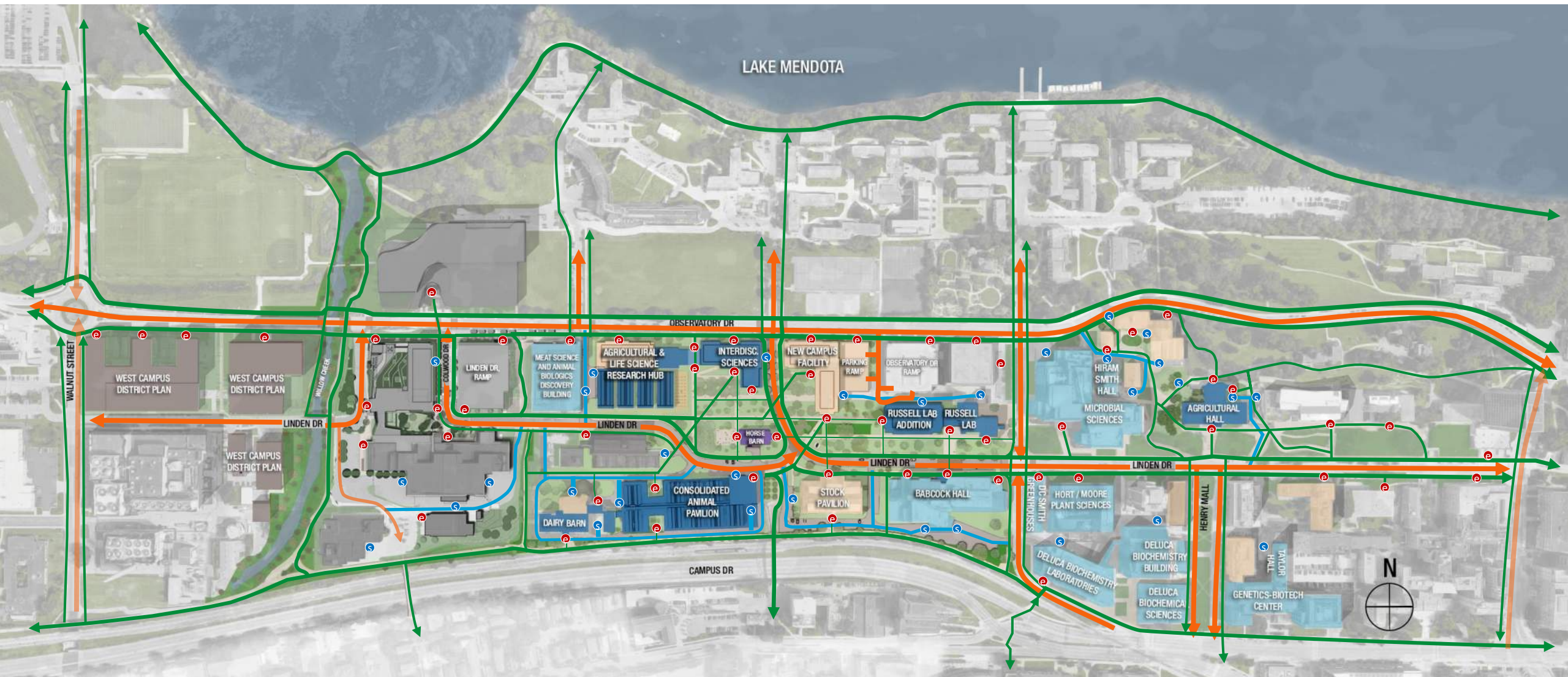


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- Non-CALS Existing Campus Buildings
- Shared Campus Resources



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources
- Non-CALS Existing Campus Buildings

Overall Site Plan 2027



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Existing Campus Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources

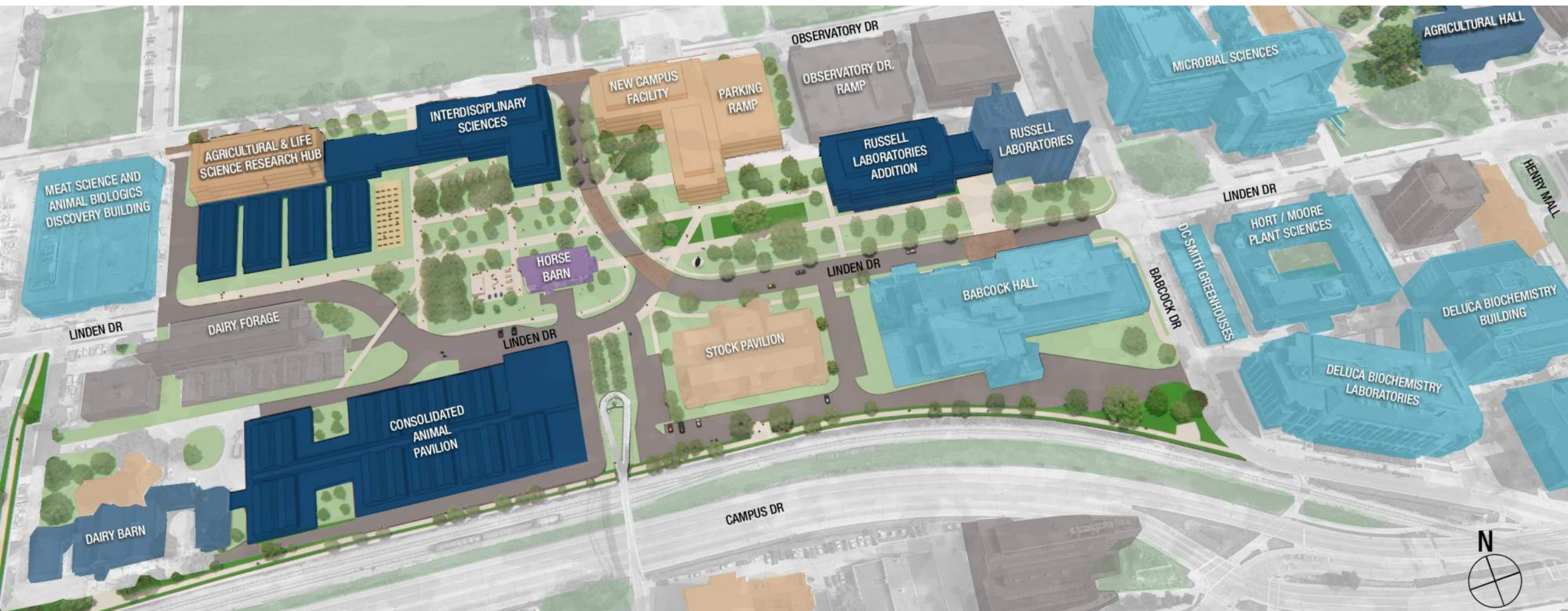
- Vehicular Route
- Service Route
- Pedestrian Route
- Service Point
- Building Entry

Overall Site Circulation 2027



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources
- Non-CALS Existing Campus Buildings

Aerial View 2037: Looking North



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources
- Non-CALS Existing Campus Buildings

CALS Core Campus 2027 - Looking North



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources
- Non-CALS Existing Campus Buildings

CALS Core Campus 2027: Looking South



- New and Renovated CALS Buildings
- Existing CALS Buildings
- Non-CALS Campus Opportunities
- Shared Campus Resources
- Non-CALS Existing Campus Buildings

CALS Core Campus 2027 - Looking West

ENGINEERING BUILDING DESIGN REVIEW BOARD MEETING #2 SCHEMATIC DESIGN

UNIVERSITY OF WISCONSIN-MADISON

DFD PROJECT NO. 21L3J

06-29-2023

PROJECT DESCRIPTION

PROJECT OVERVIEW

THE COLLEGE OF ENGINEERING HAS EXPERIENCED AN EXTRAORDINARY 61% GROWTH IN ENROLLMENT PRESSURE OVER THE LAST DECADE BASED BOTH ON STUDENT DEMAND FOR ENGINEERING DEGREES, AND INDUSTRY DEMAND FOR MORE ENGINEERING WORKFORCE. UNABLE TO ACCOMMODATE THIS DEMAND DUE TO LACK OF SPACE, UW HAS FALLEN BEHIND PEER INSTITUTIONS IN BOTH DEGREES GRANTED AND RESEARCH ENTERPRISE OPPORTUNITIES.

THE NEW ENGINEERING BUILDING WILL BE A 380,000 GSF ACADEMIC AND RESEARCH FACILITY LOCATED AT THE INTERSECTION OF CAMPUS DRIVE AND RANDALL AVENUE BUILT SPECIFICALLY TO MEET THESE DEMANDS.

THE BUILDING WILL ALSO ALLOW UW TO CONTINUE MEETING IT'S ACADEMIC AND RESEARCH NEEDS INTO THE FUTURE BY UTILIZING A "RESILIENT CHASSIS" DESIGN THAT ALLOWS BOTH TEACHING AND RESEARCH LAB SPACES TO BE QUICKLY AND INEXPENSIVELY ADAPTED TO VARIED USES OVER TIME, A NECESSITY FOR A COLLEGE THAT IS BOTH WIDE AND DEEP IN PROGRAMMATIC INVENTORY AND A LEADER IN AN INNOVATIVE AND RAPIDLY EVOLVING FIELDS.

THE PROJECT WILL ALSO DEMOLISH THE 68,000 GSF COMPUTER AIDED ENGINEERING FACILITY AT 1410 ENGINEERING DRIVE

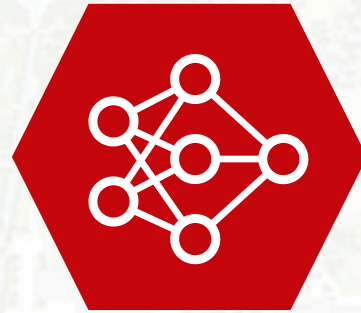
PROJECT VISION AND GOALS

ENGINEERING THE FUTURE: THE SPACE TO GROW

Enable College Enrollment and Faculty **Growth**



Multidisciplinary



Architecturally **Striking** and **Meaningful**



- Modern, flexible, student classroom and laboratory facilities that allow us to provide safe, team-based hands-on engineering education
- Flexible, reconfigurable, safe research spaces that foster collaboration and support our ability to pursue current and emerging research areas
- Nearly all engineering departments will be part of the educational and research aspects of the building
- Maximize use of shared facilities: Enable the college to use resources efficiently, promote collaboration, share spaces and equipment across groups
- Building represents the architectural future of the engineering campus
- Given its prominent location, the building will be the gateway to the College of Engineering
- High functioning to meet research and instructional needs
- Contextual to the campus neighborhood

OVERVIEW

PROJECT COSTS & SCHEDULE

<u>10% Project Budget</u>			
<i>June 9, 2023</i>			
Construction:		\$	244,584,392
Hazardous Materials:		\$	338,505
Total Construction:		\$	244,922,897
Design Fees (Basic+Add):		\$	20,989,892
Fees (Other):		\$	5,205,921
Total Design Fees:		\$	26,195,813
Contingency:	15.00%	\$	36,738,435
Management Fees:	4.00%	\$	11,266,453
Furnishings/Fixtures/Eqpt:		\$	19,446,402
Total Budget Estimate:		\$	338,570,000

<u>10% Project Schedule</u>	
A/E Selection:	May 2022
CM Selection:	Jul 2023
Project Enumeration:	Jul 2023
Design Report-CMAR GMP:	Nov 2023
Approval:	Dec 2023
Demo Bid Package:	Feb 2024
1 st Bid Package New Building (Est*.):	Jun 2024
Substantial Completion (Est*.):	Jul 2026
Project Close Out (Est*.):	Dec 2026

(Est.*) To be determined by selected CM

WHAT WE HEARD

AREAS OF DEVELOPMENT

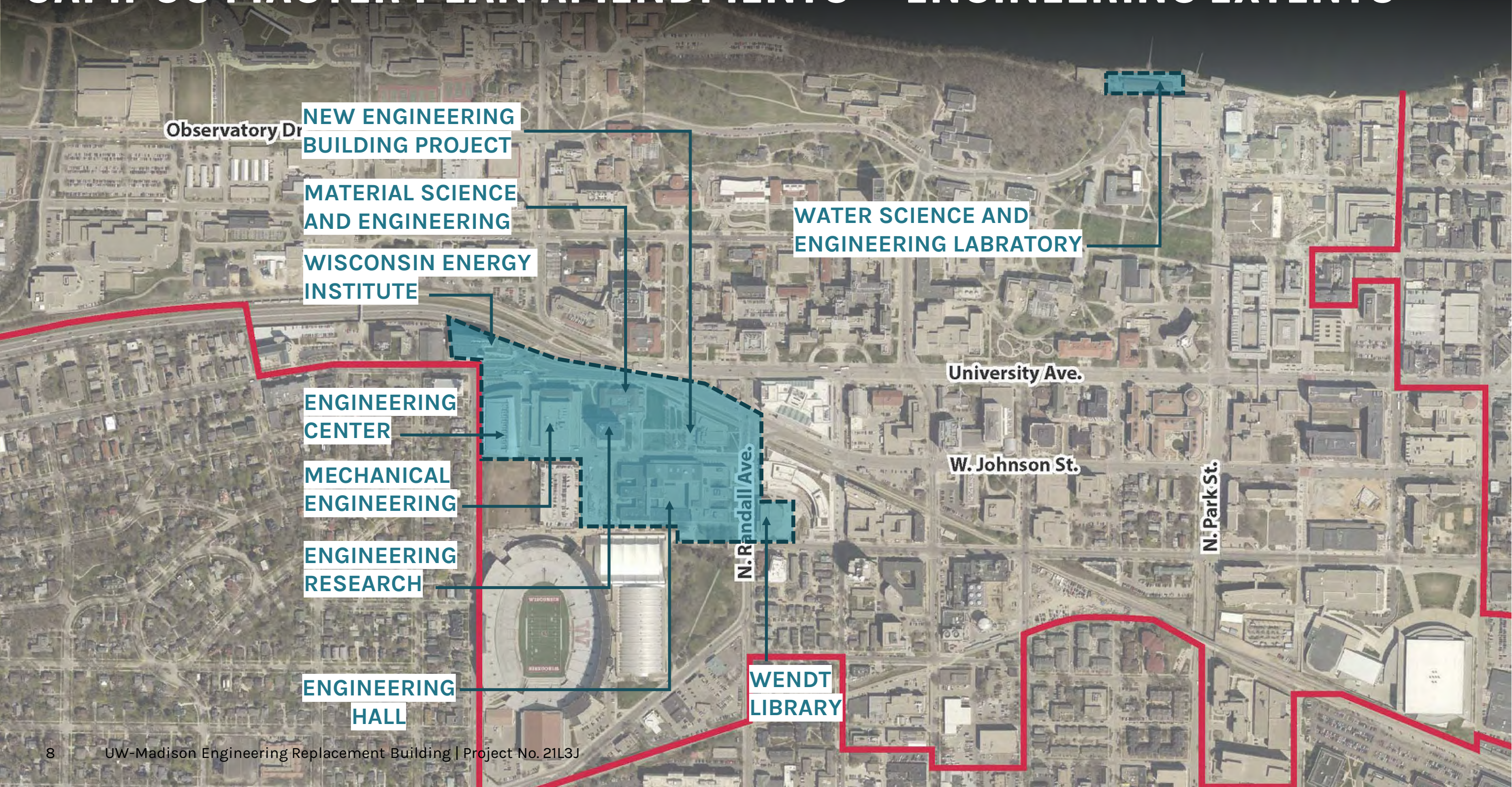
- **INTEGRATION WITH SITE**
- **LOWER TWO FLOORS SHOULD BE CIVIC IN NATURE AND SUPPORTIVE OF CAMPUS SETTING.**
- **CREATE MEANINGFUL GREEN SPACE**
- **PEDESTRIAN AND MULTI-MODAL EXPERIENCES AT ALL SIDES**
- **A FACE TO CAMPUS**
- **BREAKDOWN OF SCALE**
- **ADDRESS MASTERPLAN**

CAMPUS MASTER PLAN AMENDMENTS

GOALS

- **THE MASTER PLAN AMENDMENT WILL REVISE THE 2015 CAMPUS MASTER PLAN AND INTEGRATE CHANGES ASSOCIATED WITH THE CURRENT NEW ENGINEERING ACADEMIC/RESEARCH BUILDING (NEW BUILDING) AND THE LONG-RANGE PUBLIC REALM NETWORK WITHIN THE COE DISTRICT.**
- **IT WILL SEEK TO:**
 - Create a long-term vision to better achieve balance between the buildings and open space of the CoE district.
 - Analyze, consider, and balance the needs of current and future CoE growth while ensuring a collegiate campus open space network that provides educational opportunities, district identity, ecological resilience, and pedestrian priority.
 - Consider relocation of the Maquina sculpture (or other significant public art) within the new district plan.
 - Analyze and recommend methods for mobility into and throughout the site, including bike rack locations for the district, parking access and egress, pedestrian amenities and the Campus Drive multi-use path location within or adjacent to the railroad corridor.
 - Provide an approval schedule identifying deliverable dates and materials.
 - Ensure the plan reflects physical campus institutional priorities as well as the reputation and culture of a top national engineering institution.

CAMPUS MASTER PLAN AMENDMENTS – ENGINEERING EXTENTS



EXISTING SITE + PROPOSED BUILDING



MATERIAL SCIENCE
AND ENGINEERING

WI INSTITUTE
FOR DISCOVERY

ENGINEERING
CENTER

MECHANICAL
ENGINEERING

ENGINEERING
RESEARCH

ENGINEERING DRIVE

ENGINEERING
HALL

UNION
SOUTH

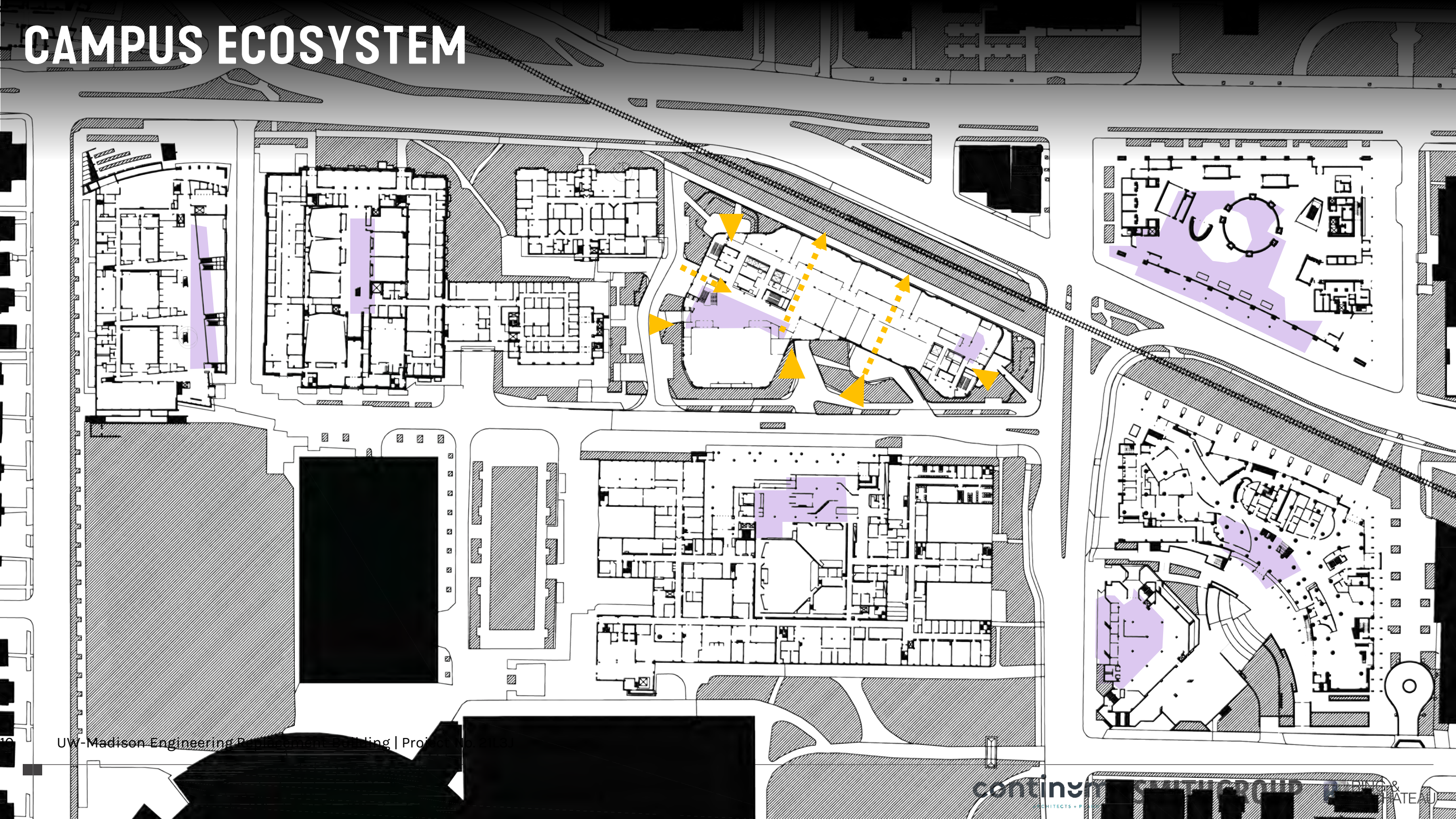
ENGINEERING
DRIVE
RAMP

WENDT
LIBRARY

N RANDALL AVE

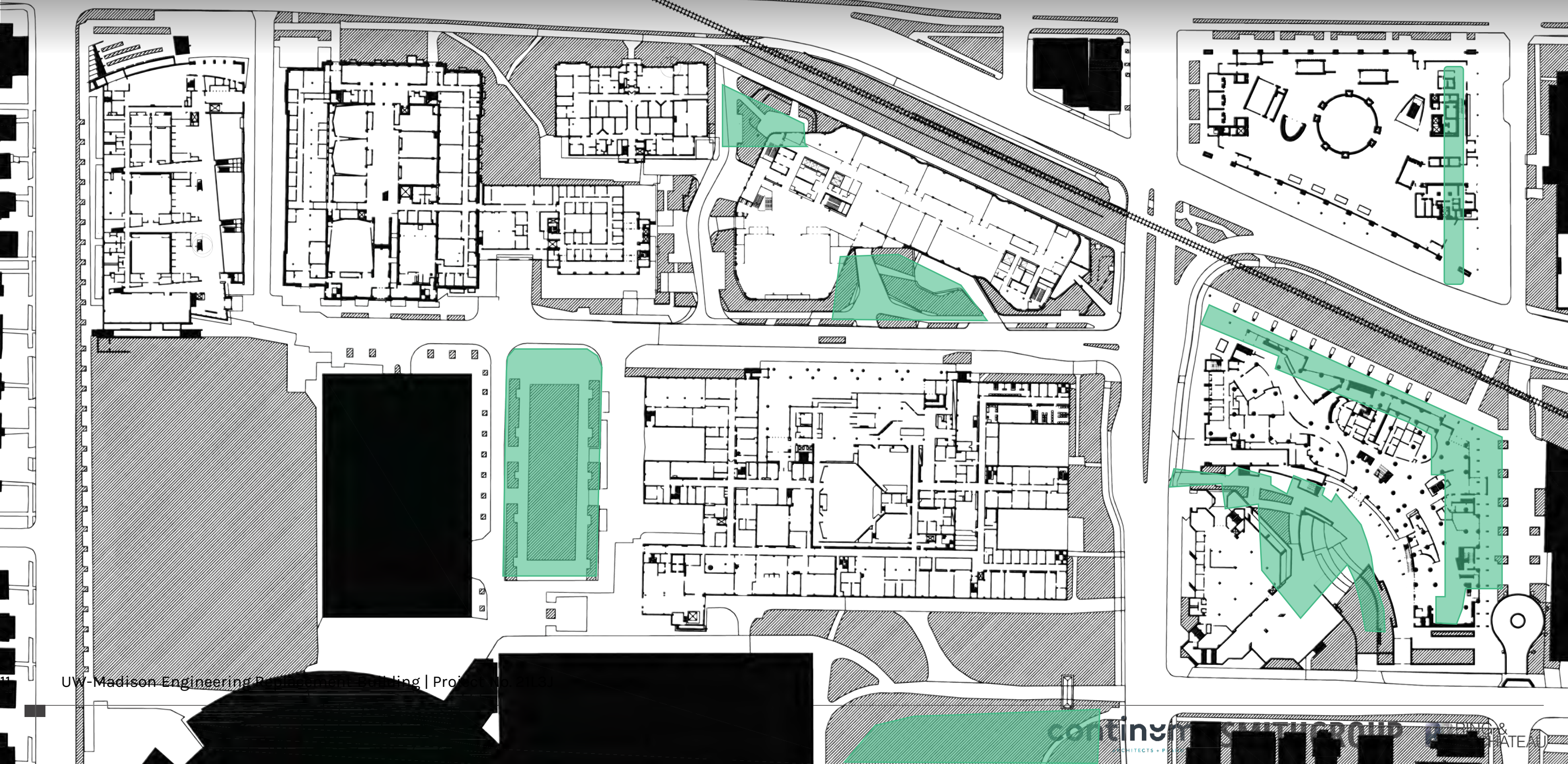
CAMP RANDALL

CAMPUS ECOSYSTEM



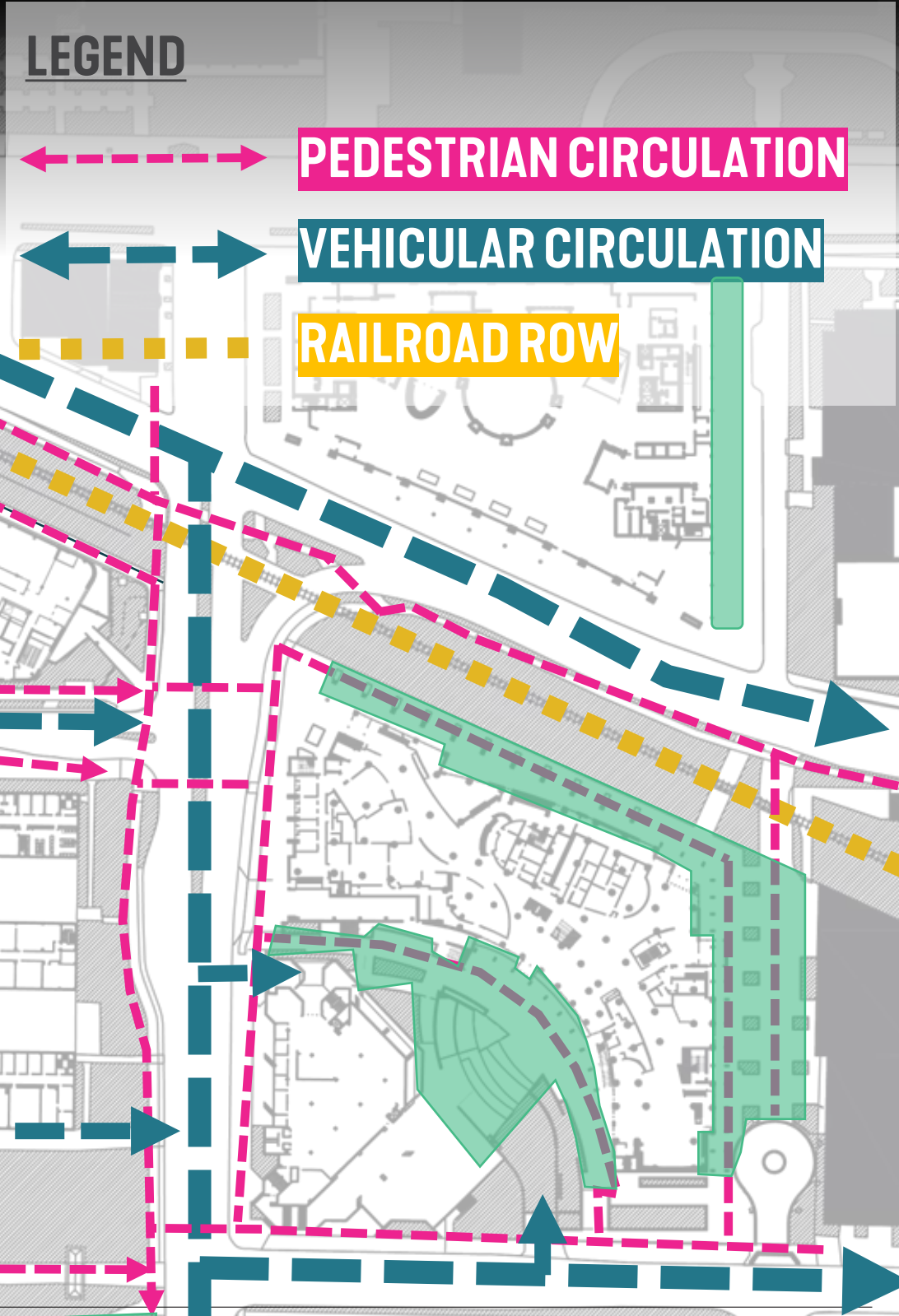
UW-Madison Engineering Program Building | Project

CAMPUS ACTIVATED OPEN SPACE

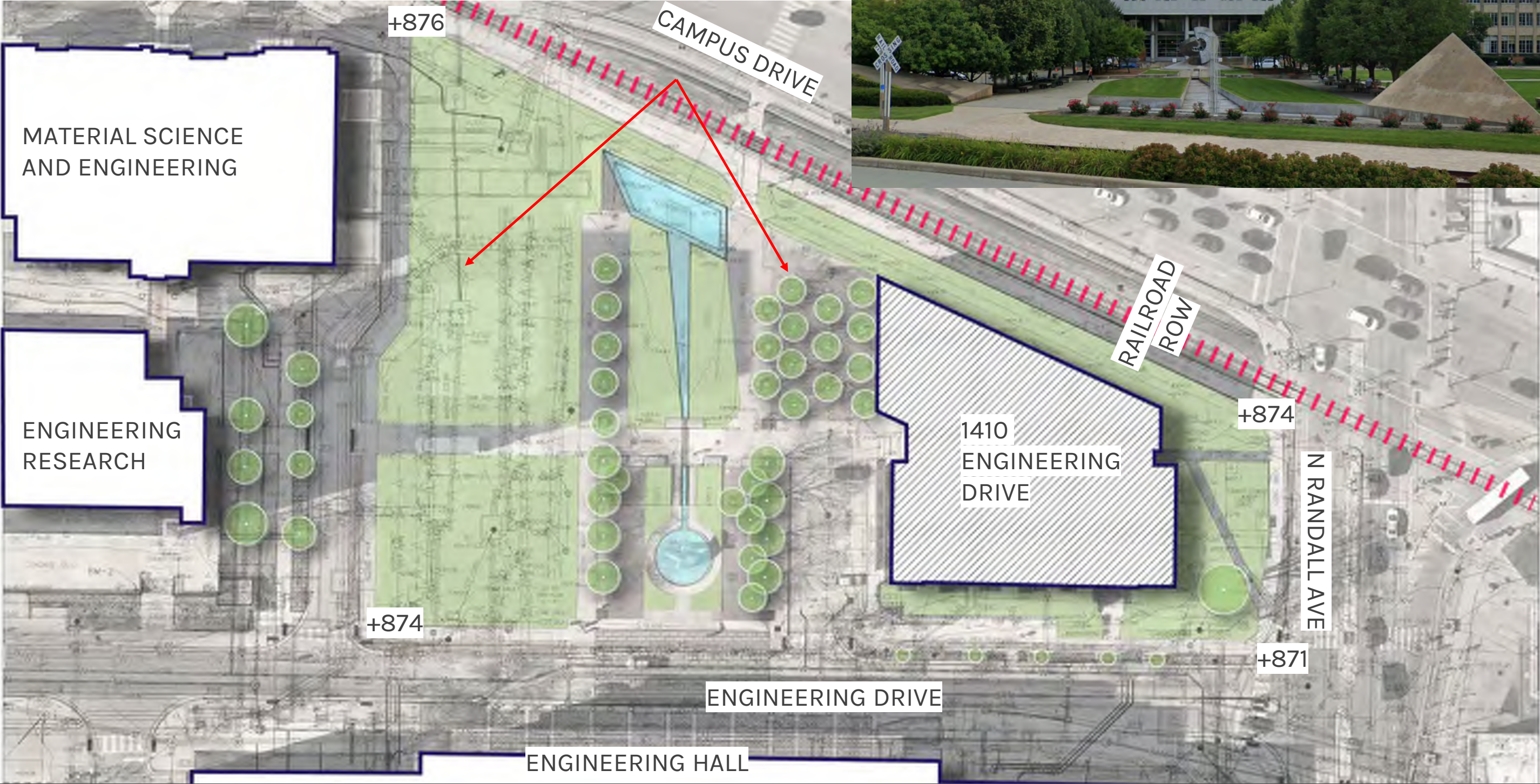


UW-Madison Engineering Research Building | Project

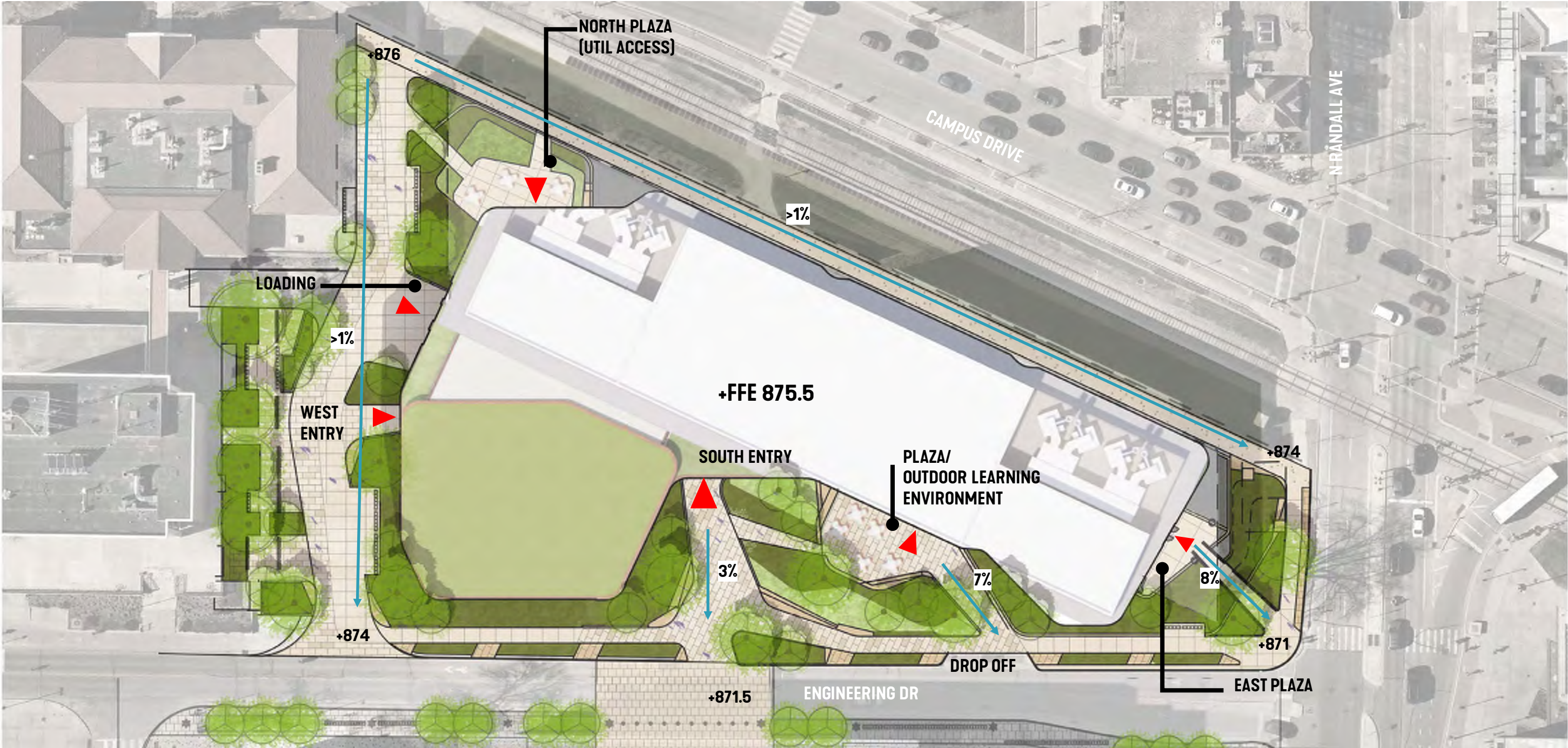
CAMPUS CIRCULATION



SITE EXISTING CONDITIONS

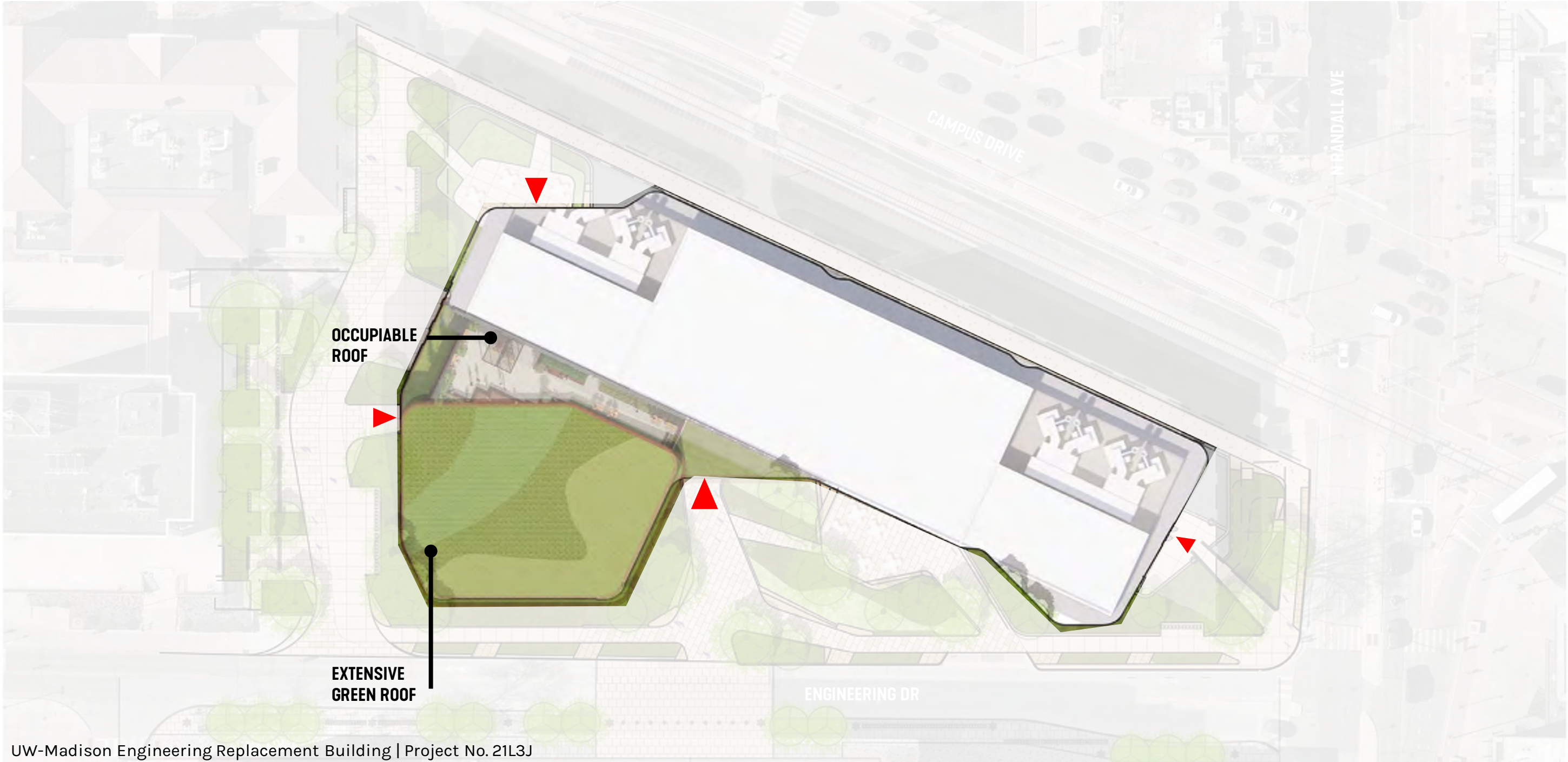


SITE PLAN AND GRADING



UW-Madison Engineering Replacement Building | Project No. 21L3J

SITE PLAN – ROOF



UW-Madison Engineering Replacement Building | Project No. 21L3J

SITE STORMWATER

REQUIREMENTS

City of Madison:

- 15% peak runoff rate reduction
- 5% runoff volume reduction
- First ½” of rainfall over site capture by green infrastructure (~4596 c.f.)

Dane County

- Pre-development Peak Run-off Rates for 200-year Event

Department of Natural Resources

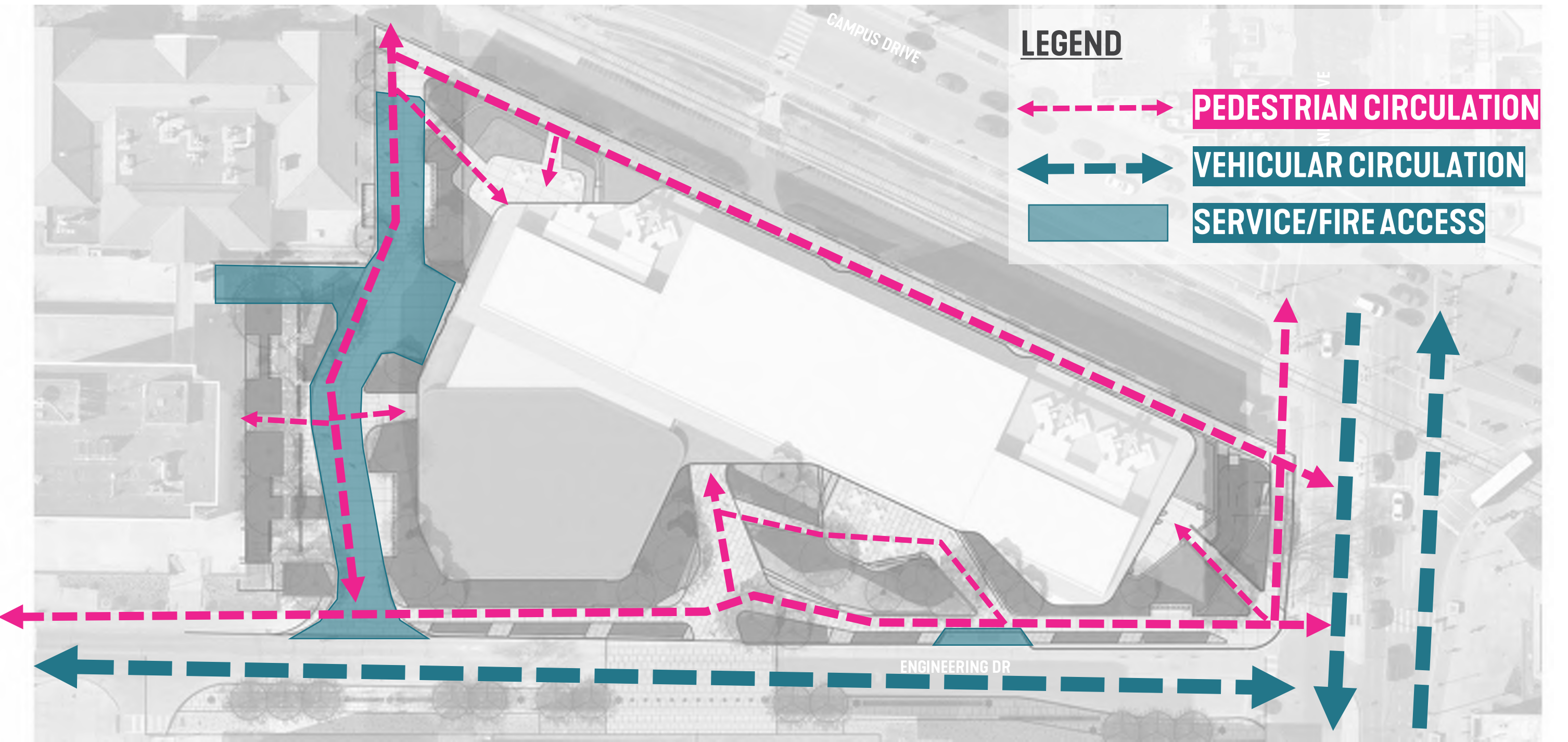
- Reduce Total Suspended Solids (40%)

University of Wisconsin, Madison Guidelines

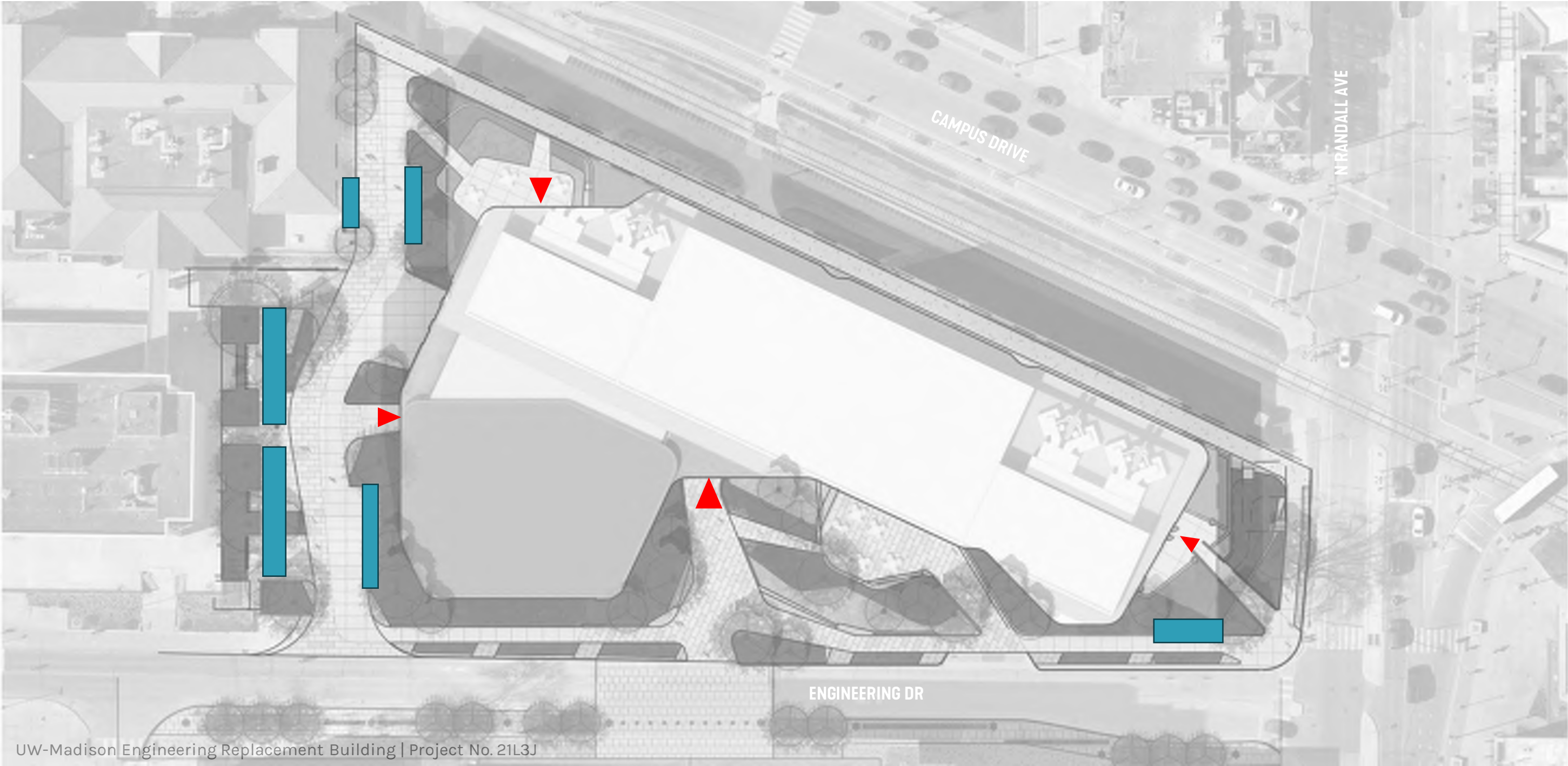
- Green Infrastructure Master Plan, 2015, Chapter 5.2



SITE CIRCULATION



POTENTIAL BIKE PARKING DISTRIBUTION



UW-Madison Engineering Replacement Building | Project No. 21L3J

SOUTH PLAZA

CONCEPT

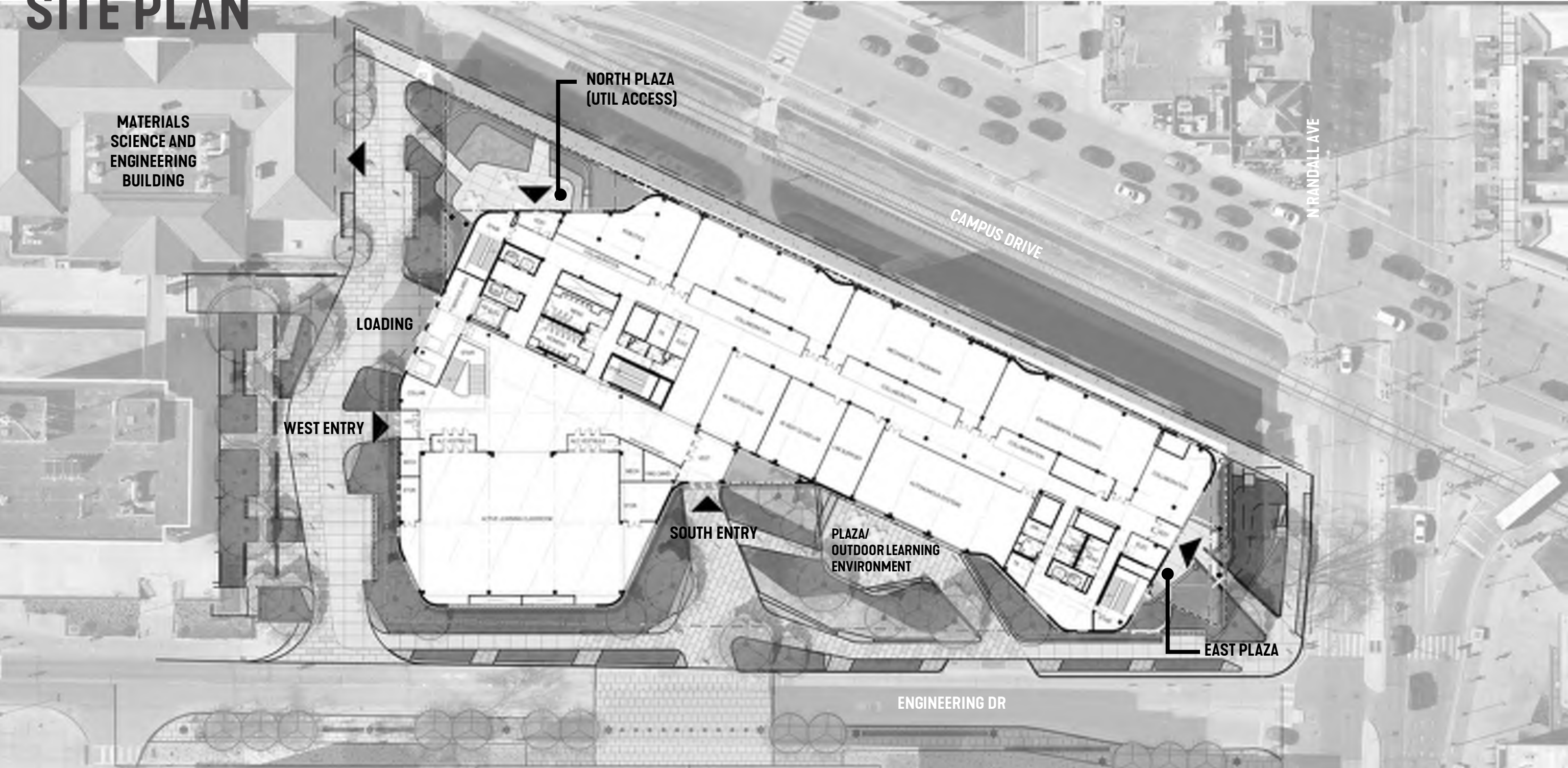


SOUTH PLAZA

CONCEPT

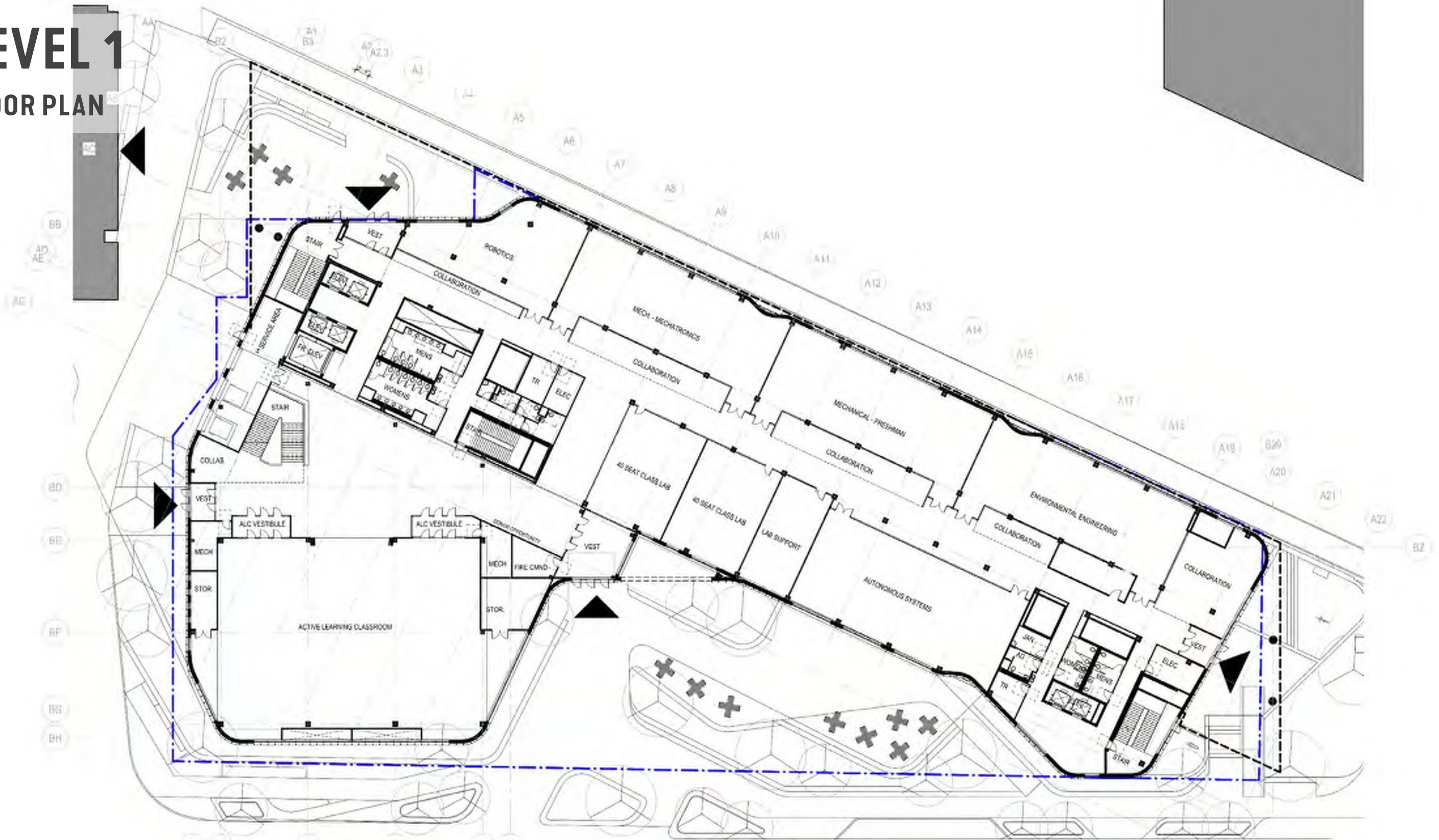


SITE PLAN



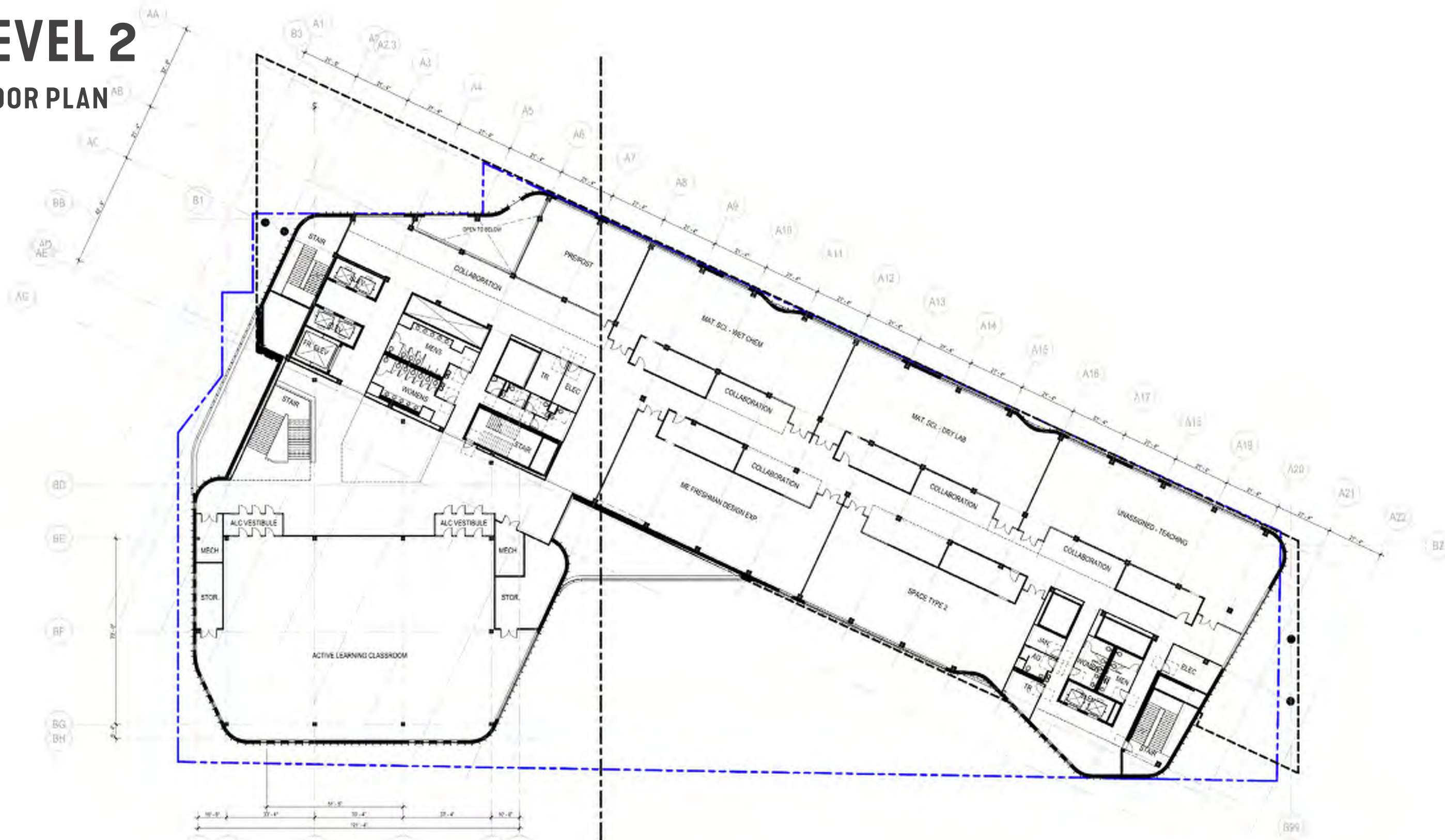
LEVEL 1

FLOOR PLAN



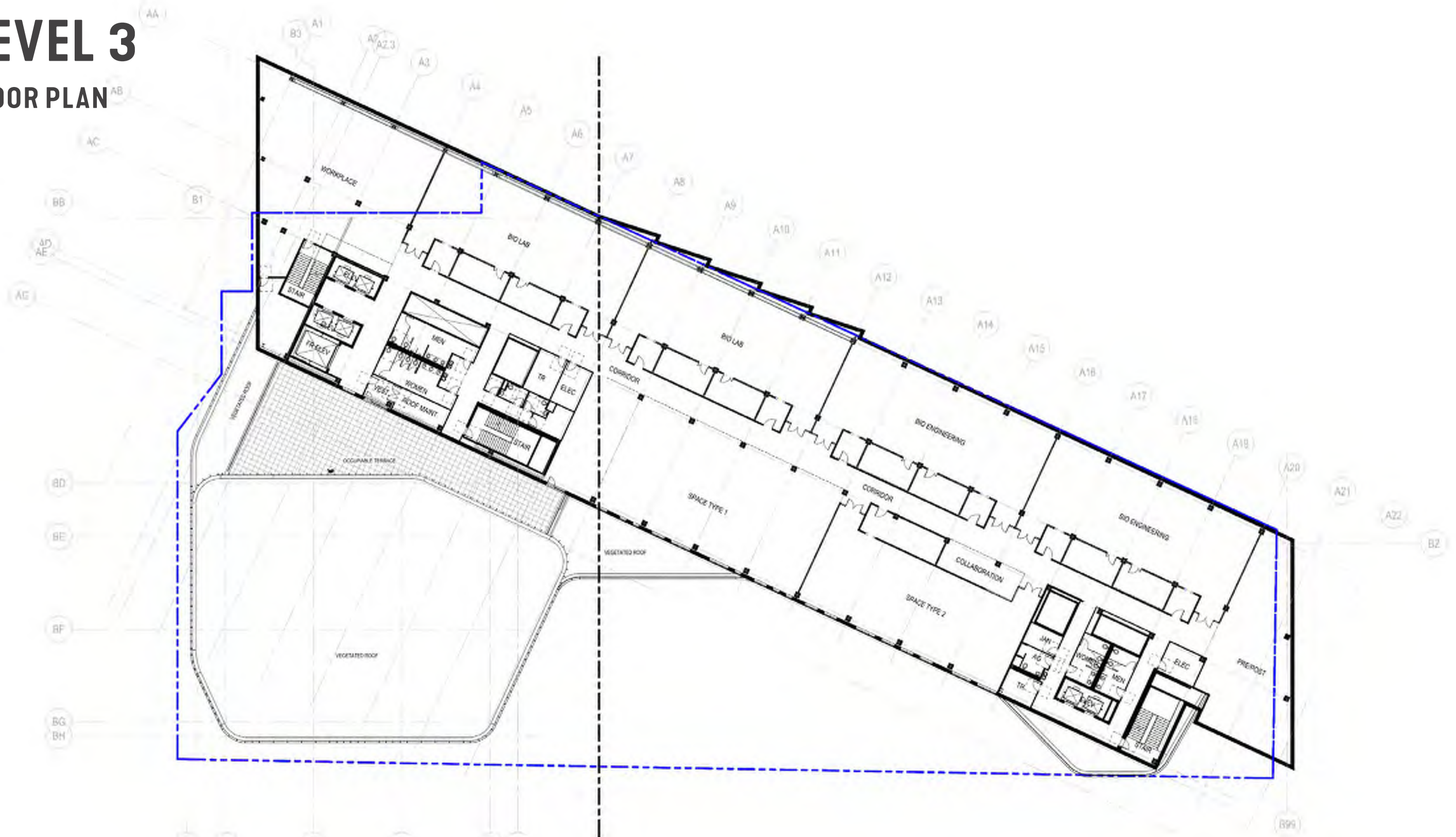
LEVEL 2

FLOOR PLAN



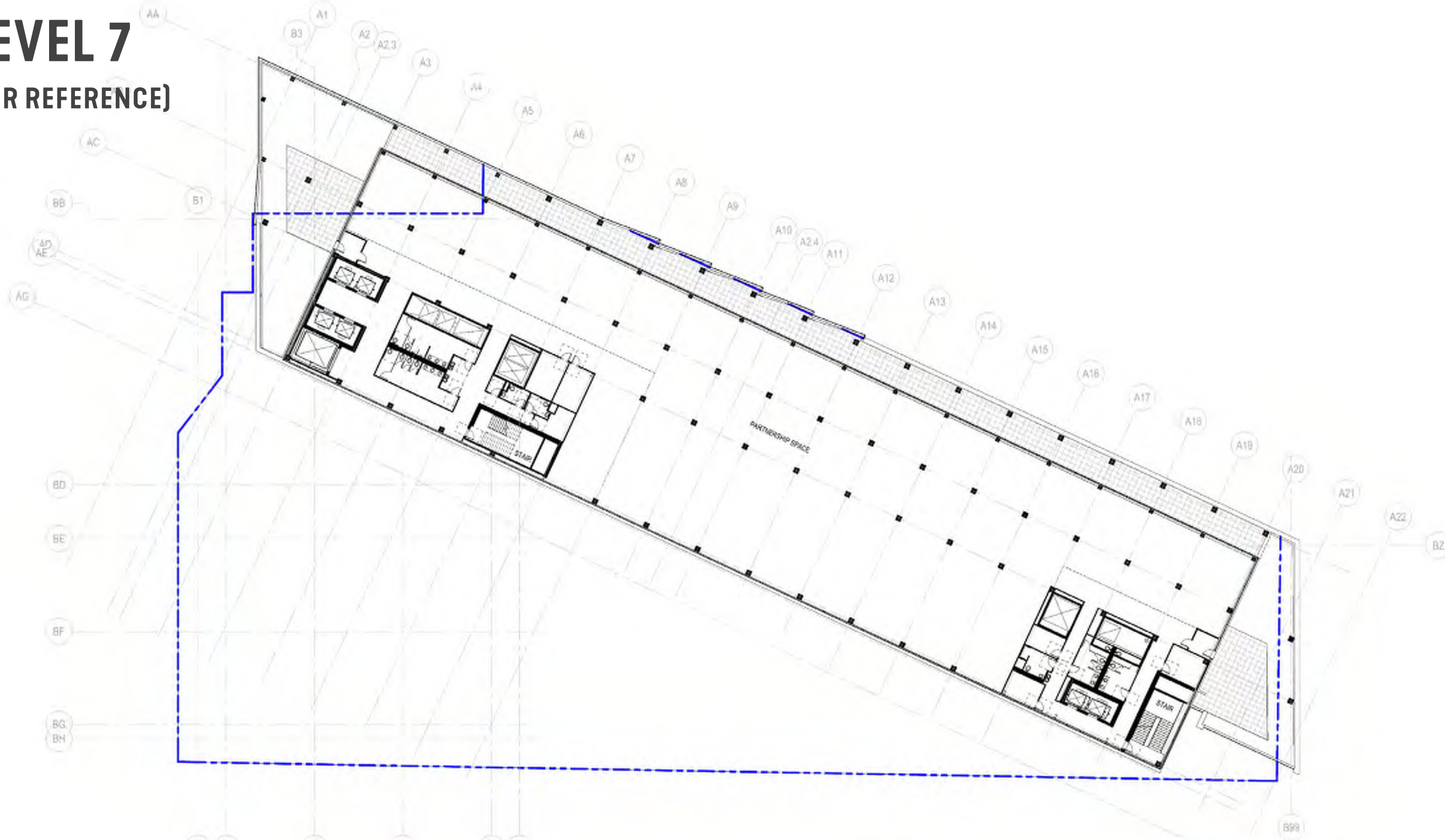
LEVEL 3

FLOOR PLAN



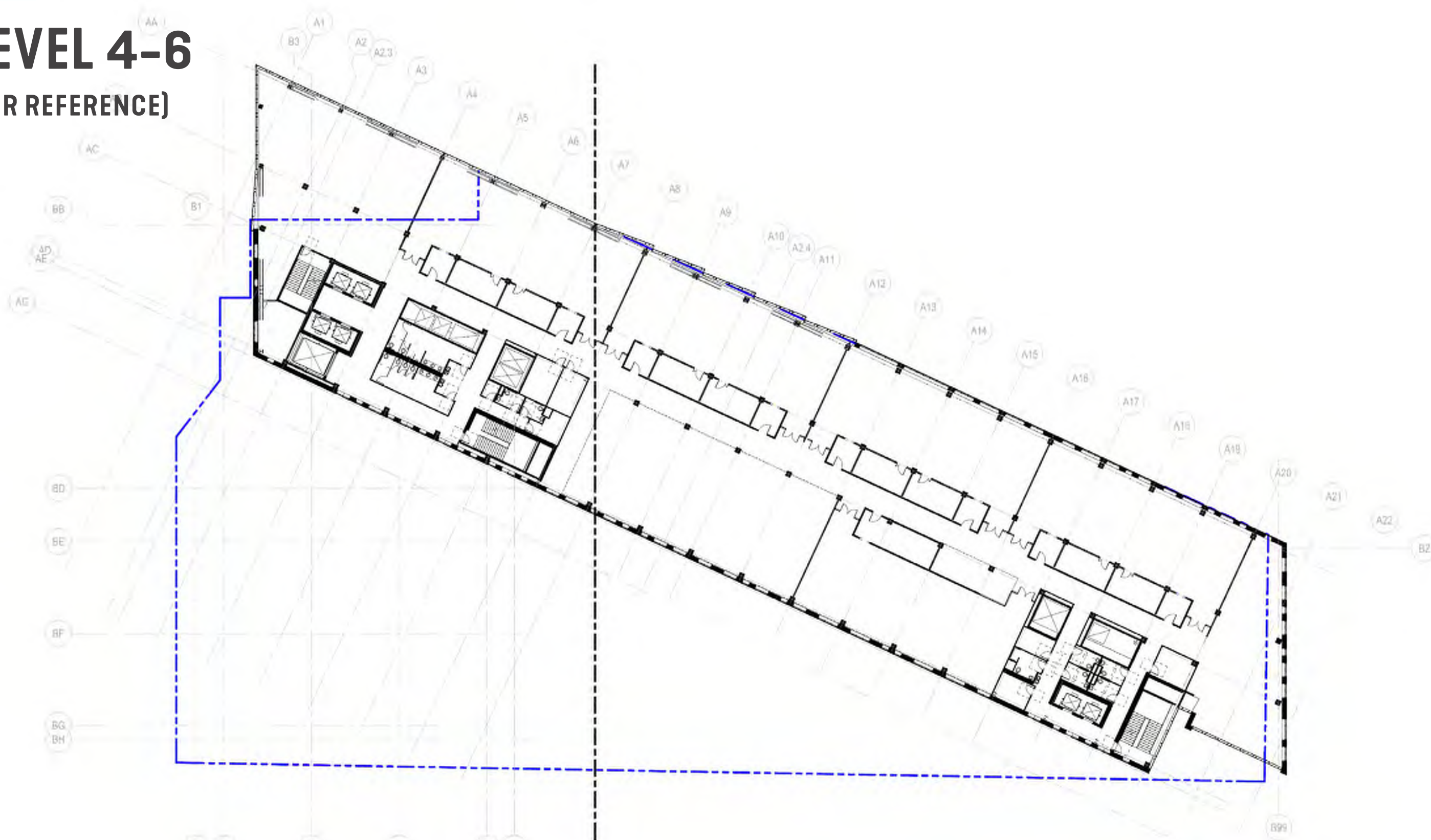
LEVEL 7

(FOR REFERENCE)



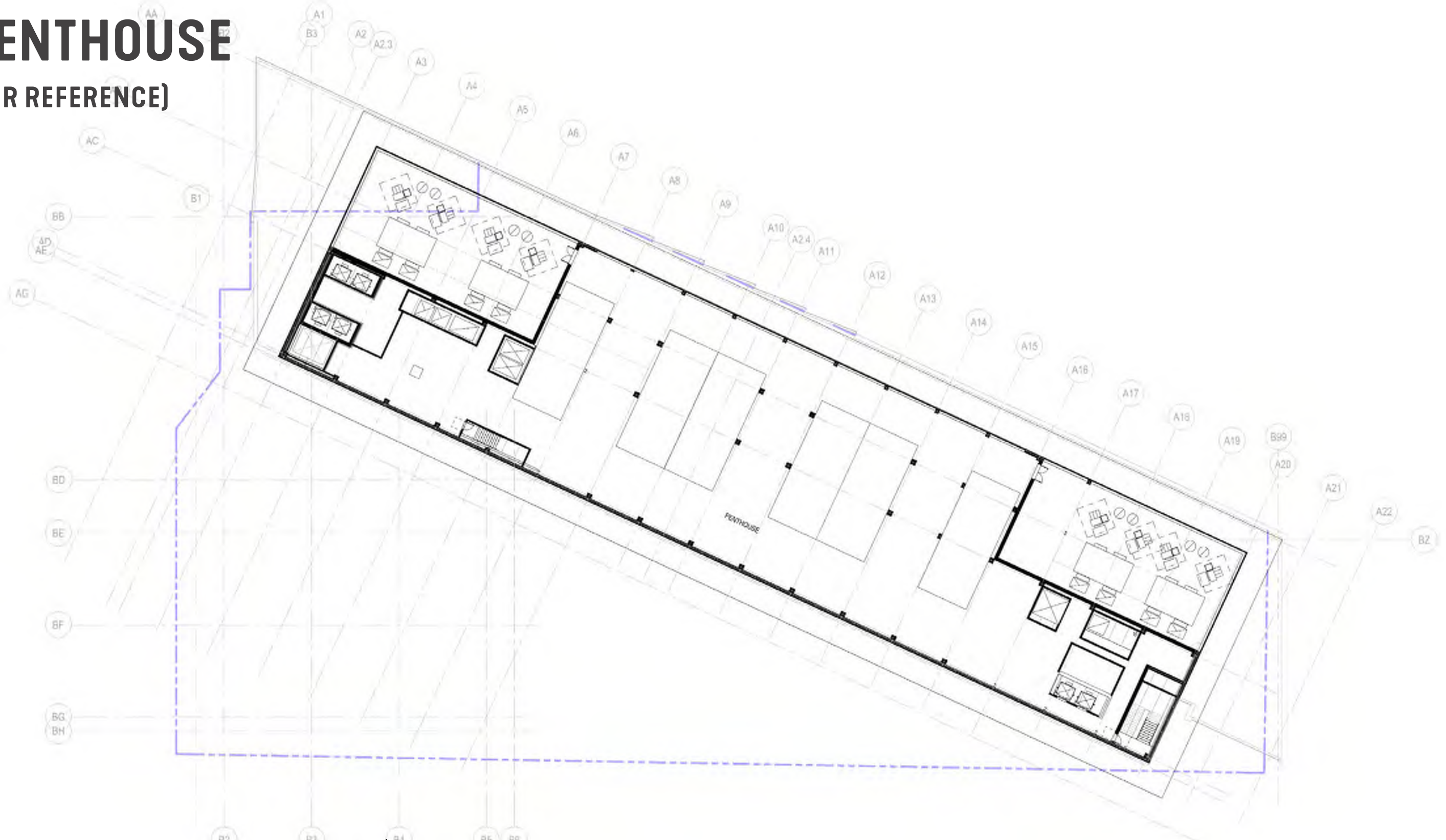
LEVEL 4-6

(FOR REFERENCE)



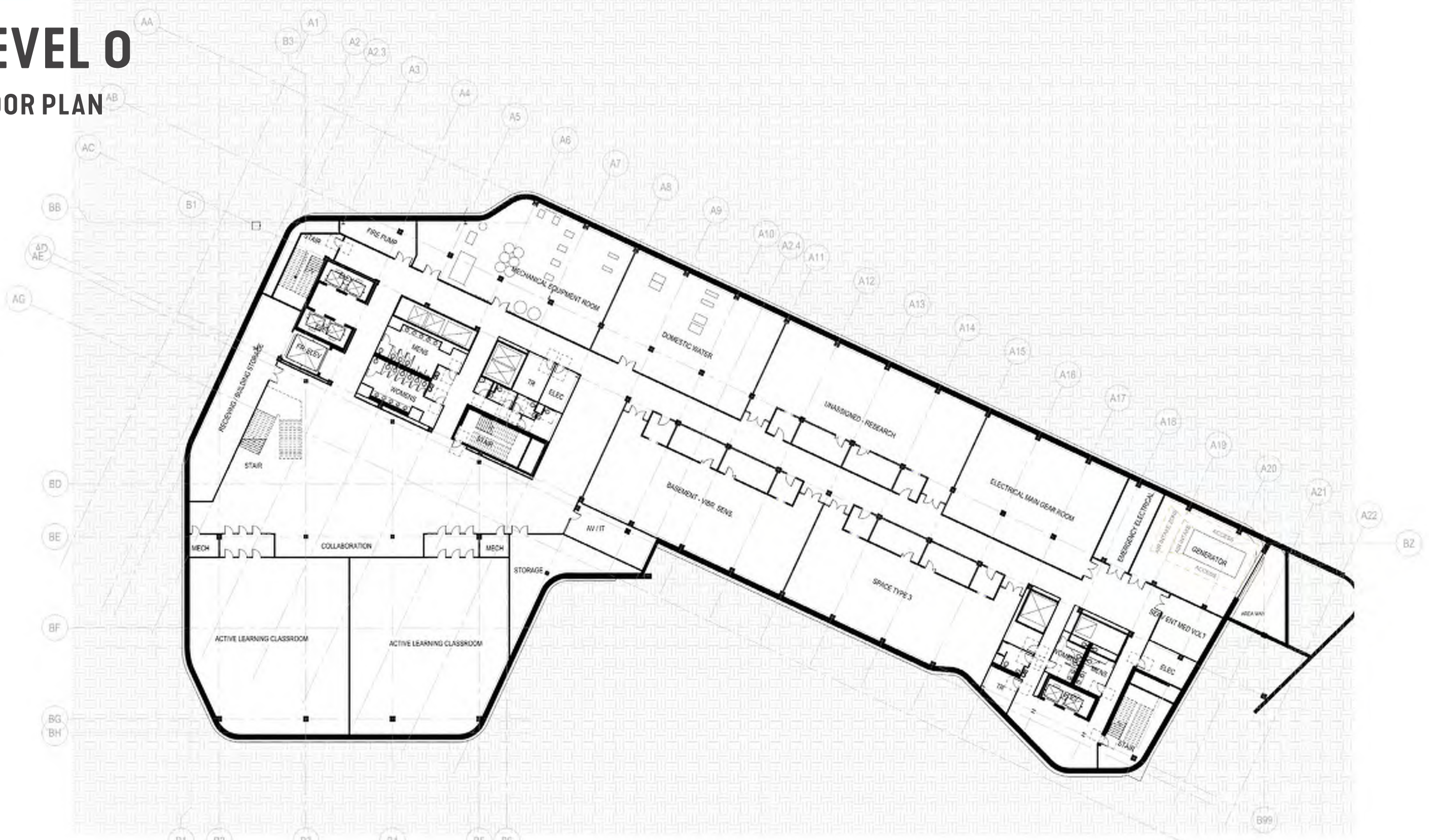
PENTHOUSE

(FOR REFERENCE)

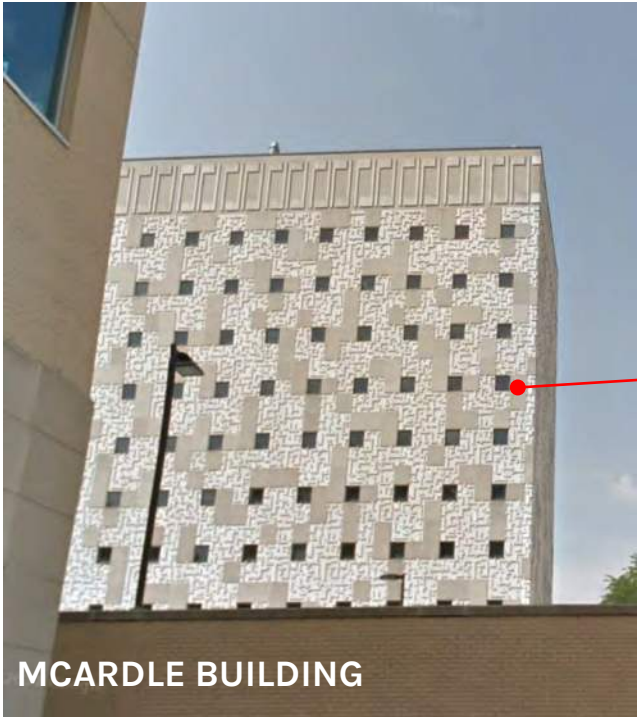


LEVEL 0

FLOOR PLAN



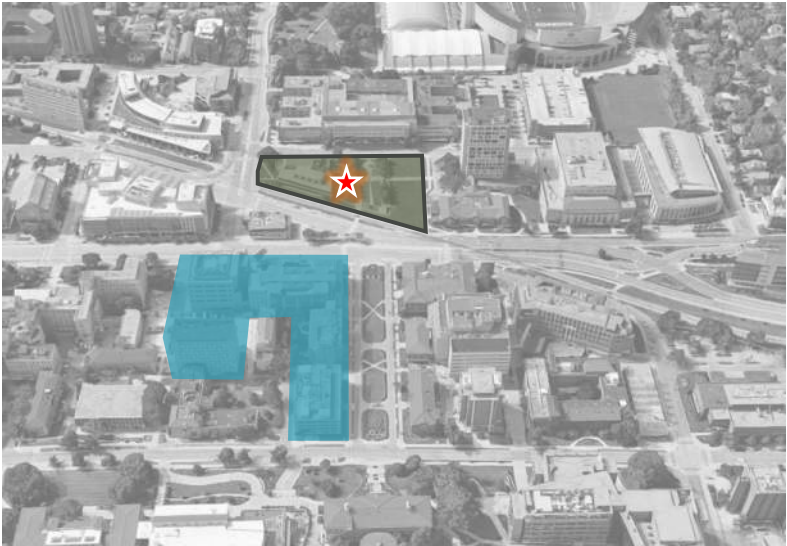
BUILDINGS IN CLOSE PROXIMITY



LIGHT GREY METAL PANELS

LIGHT BUFF COLORED STONE

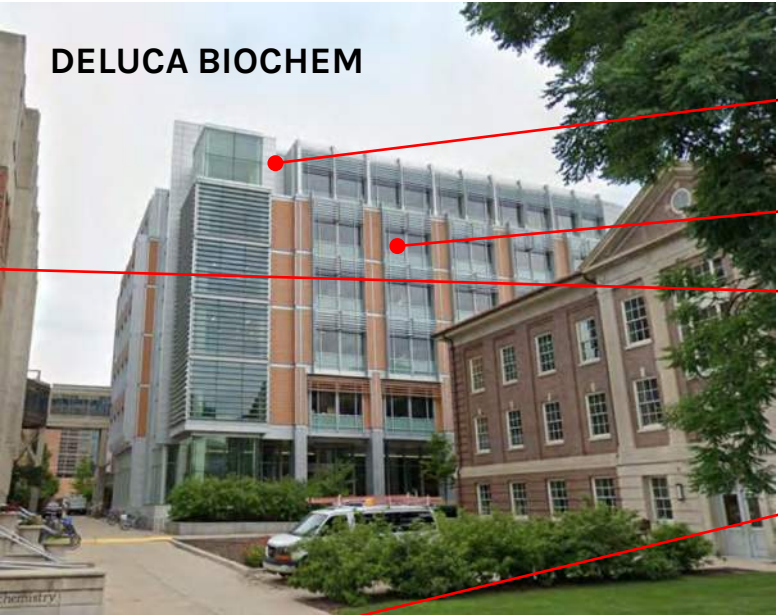
LIGHT TERRACOTTA



BUILDINGS IN CLOSE PROXIMITY



DELUCA BIOCHEM



DELUCA BIOCHEM

LIGHT GREY METAL PANELS

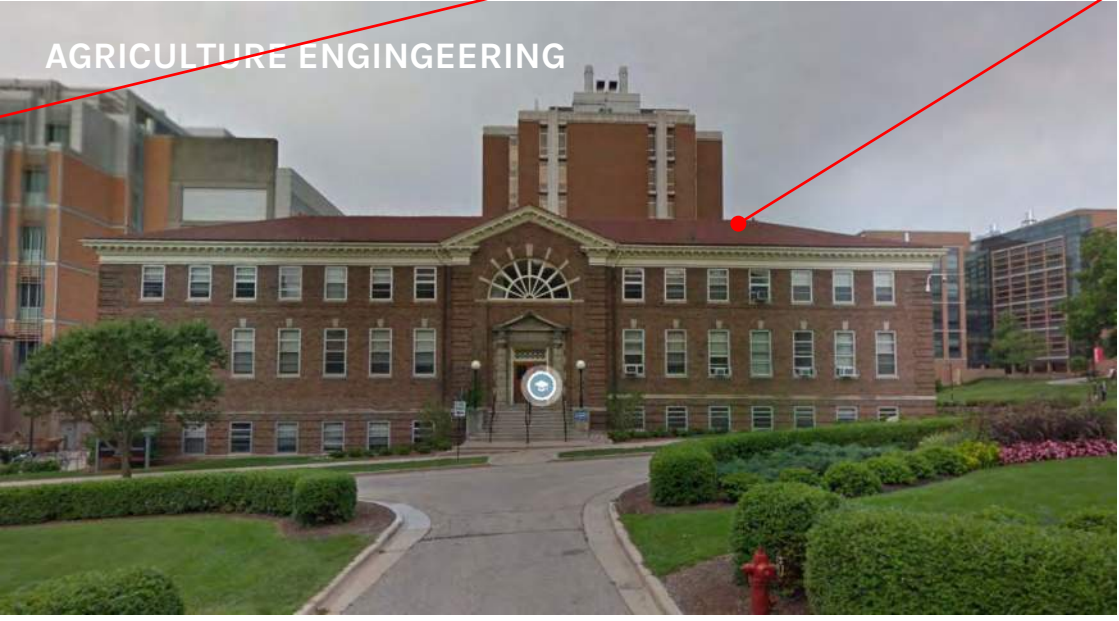
CURTAIN WALL

LIGHT STONE

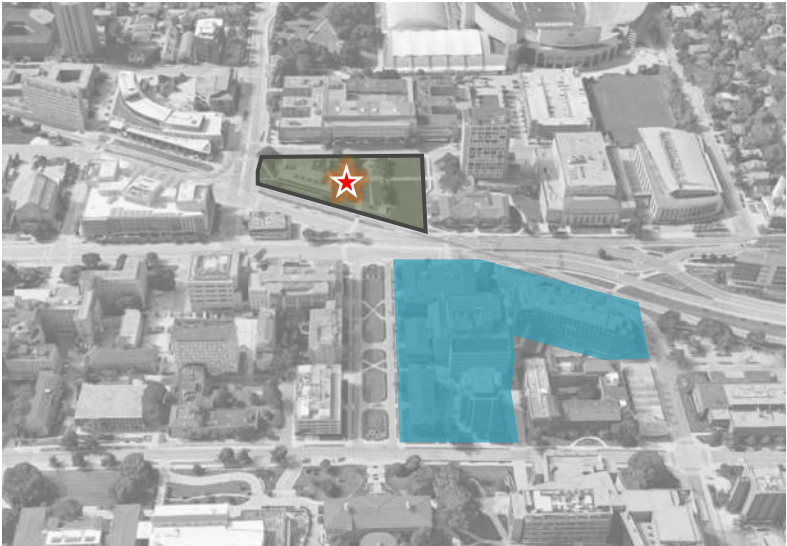
RED TERRACOTTA ROOF TILES



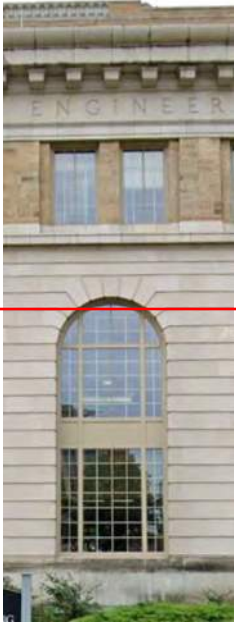
DELUCA BIOCHEM



AGRICULTURE ENGINEERING



ENGINEERING CAMPUS BUILDINGS



LIGHT GREY METAL PANELS

RED TERRACOTTA ROOF TILES

LIGHT STONE / TERRACOTTA



EXTERIOR MATERIAL CONCEPT

CONTEXT



TERRACOTTA

CURTAIN WALL

LIGHT METAL PANELS

WISCONSIN INSTITUTE FOR DISCOVERY - WID



LIGHT COLORED
PANELS

CURTAIN WALL

FUTURE SCHOOL OF COMPUTER, DATA AND INFORMATION SCIENCE



PRECAST PANELS

CURTAIN WALL

DARK METAL PANELS

UNION



WEATHERED STEEL

BUFF STONE COLOR

WEATHERED STEEL

CHAZEN ART GALLERY

FAÇADE PARTI



SOUTHWEST VIEW

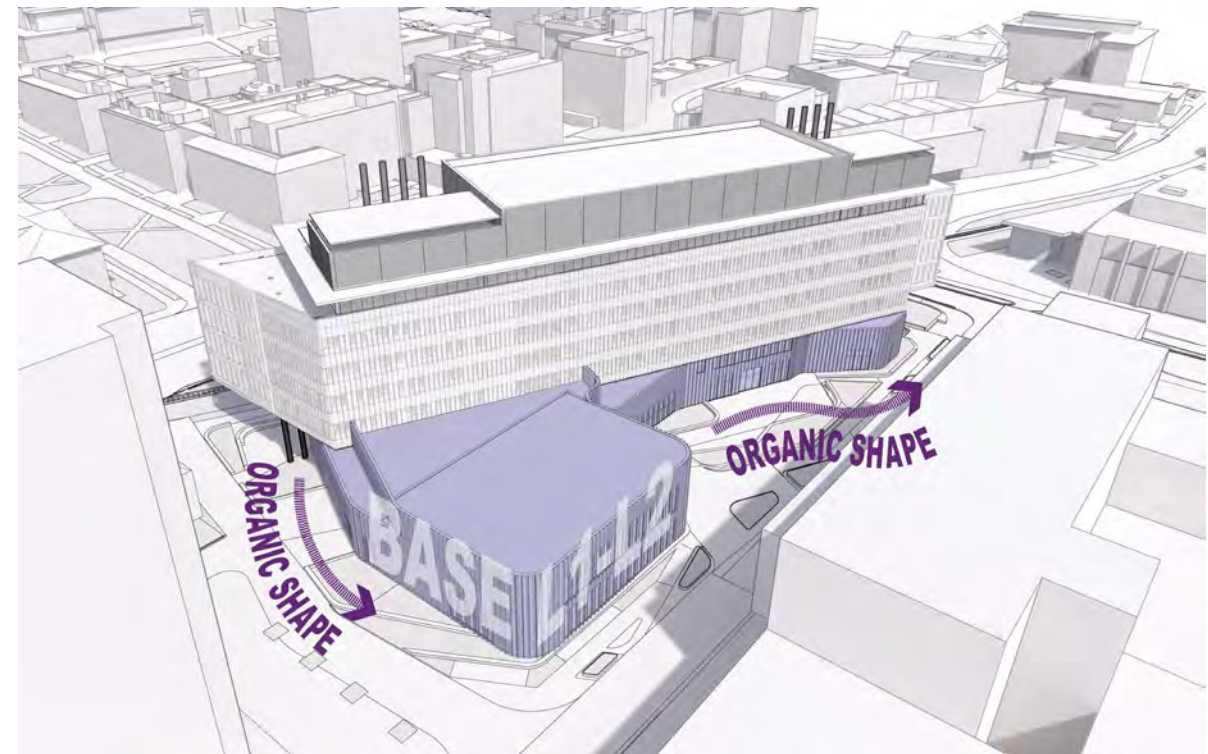
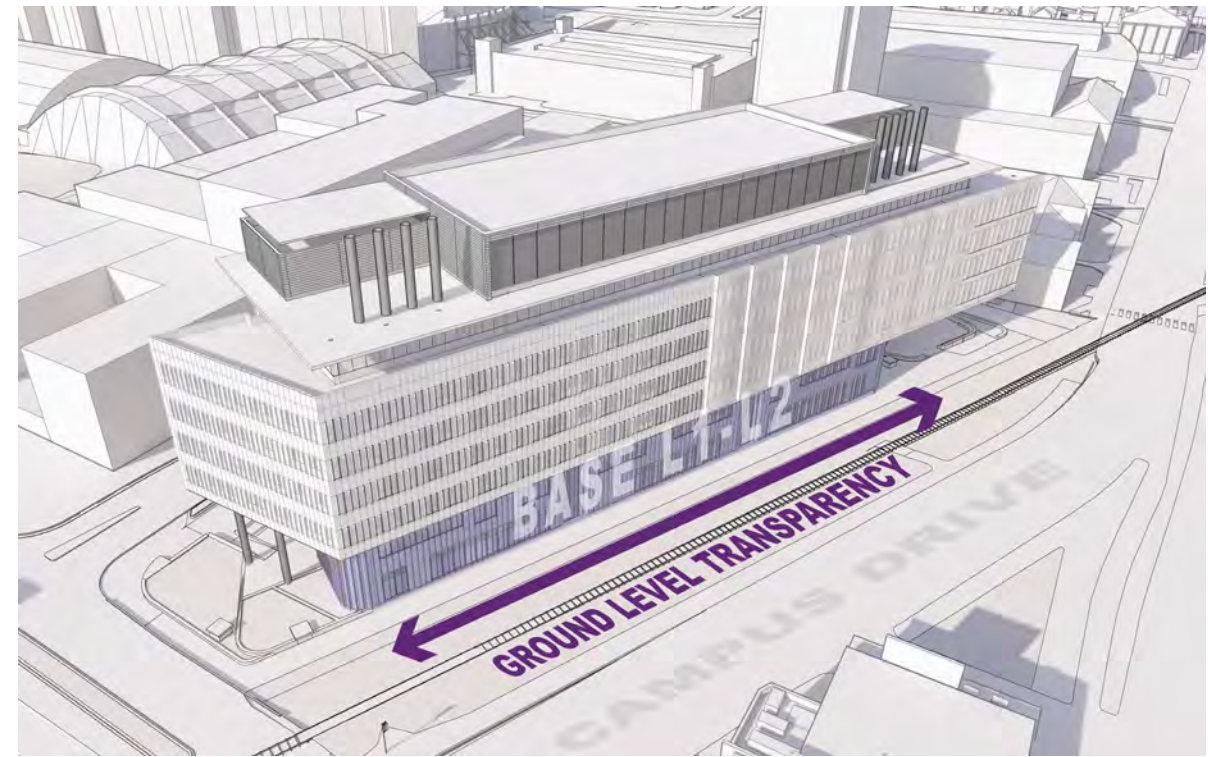


NORTHEAST VIEW

BASE

LEVELS 1 & 2

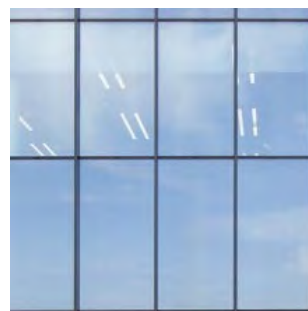
- SHAPED BY SITE CONTEXT AND CIRCULATION
- PROMOTES FLOW AROUND THE SITE
- READS AS ONE ELEMENT
- TRANSPARENT TO ACTIVITY WITHIN THE BUILDING
- ORGANIC GEOMETRY – CONTRAST WITH “TRUNK”
- TOP OF BASE TO SUPPORT GREEN ROOF
- OCCUPIABLE ROOF TERRACE FOR STUDENTS / FACULTY



TRUNK

LEVELS 3-6

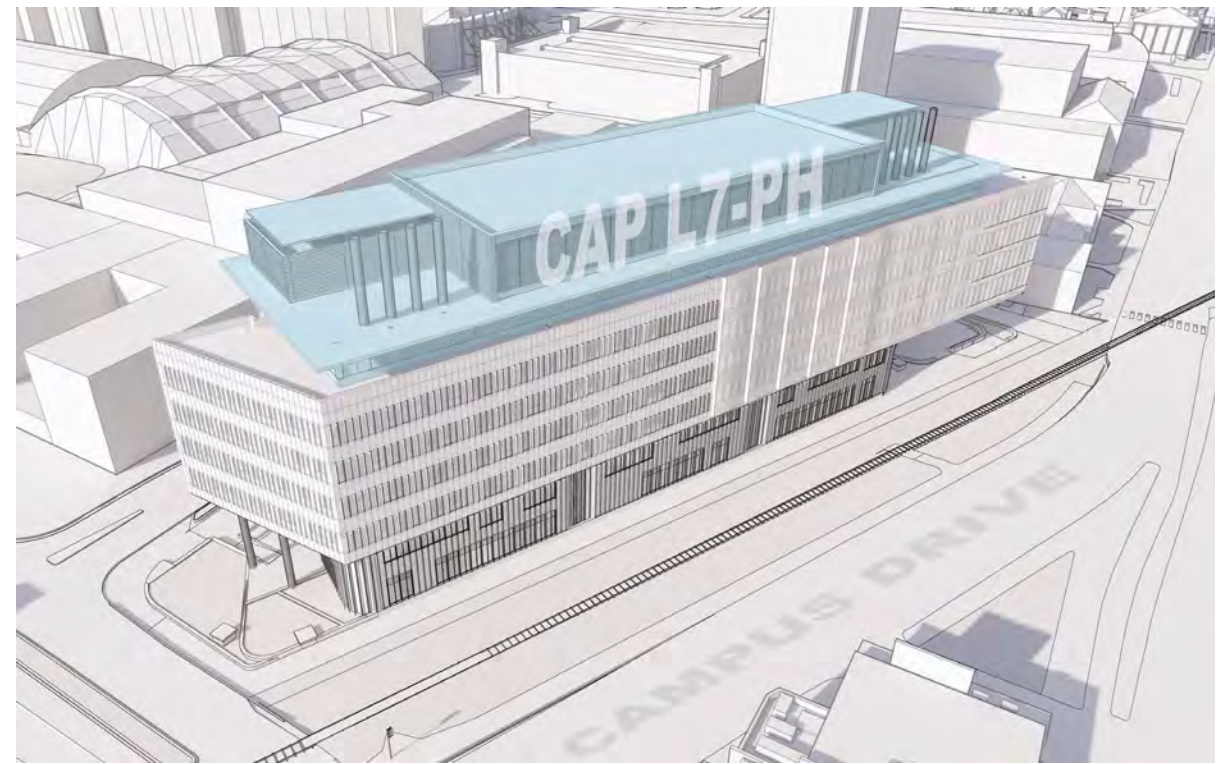
- CLEAN FORM - “MACHINE PRECISION” DETAILING
- CONTINUOUS MATERIAL LANGUAGE AROUND PERIMETER
- VISIBLE TRUSS
- GLAZING TO RELATE TO FUNCTION OF SPACE BEHIND
- GLAZING SHAPED BY BUILDING ENERGY MODELLING



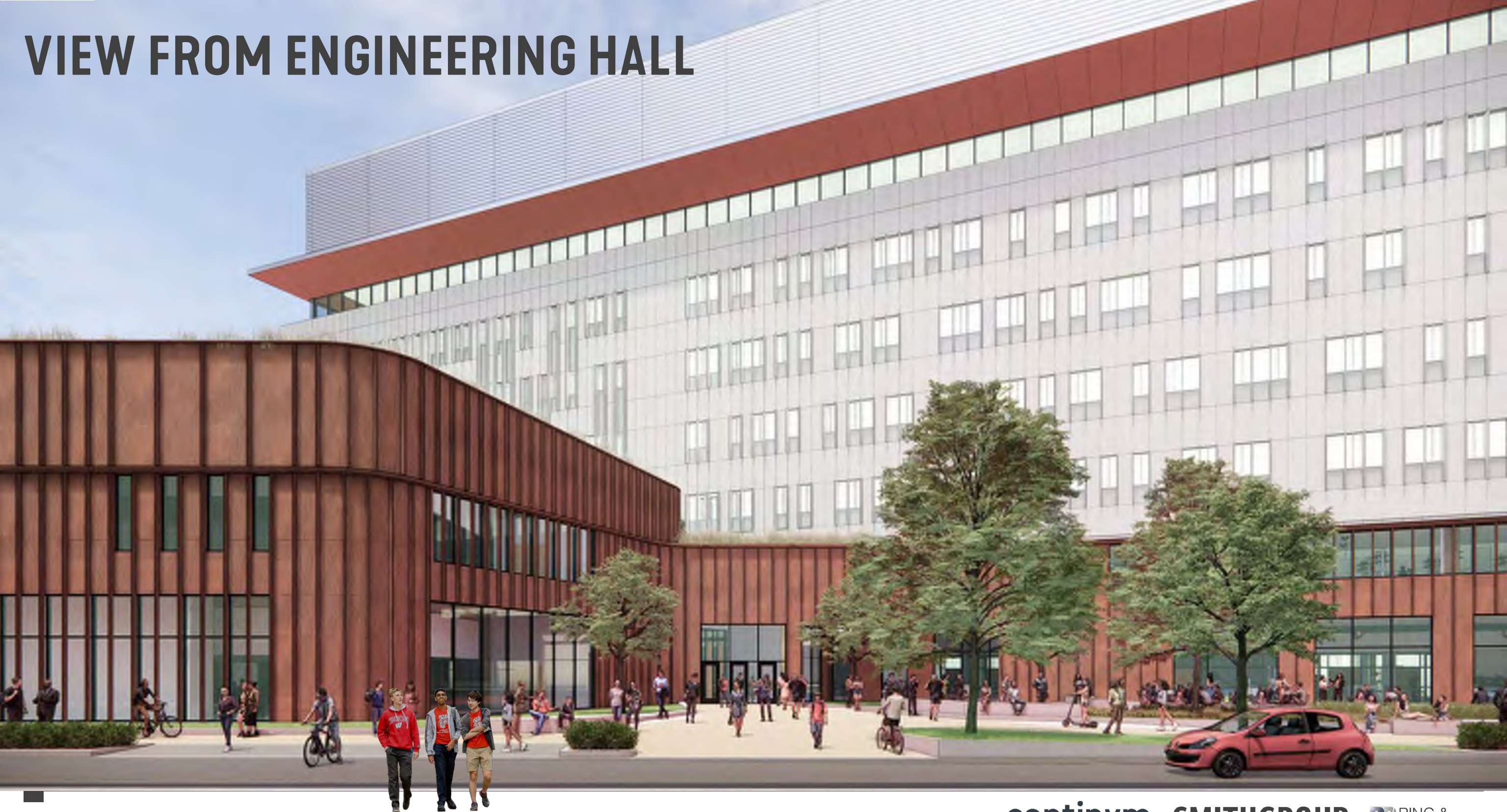
CAP

LEVEL 7 AND 8 (PENTHOUSE)

- REDUCE VISUAL HEIGHT OF PENTHOUSE
- MATERIALITY RELATES TO HENRY MALL HISTORIC STRUCTURES
- ACCESS TO ROOF TERRACES – EAST AND WEST END
- SUPPORT PV PANEL ARRAY ON ROOF OF PENTHOUSE



VIEW FROM ENGINEERING HALL



SOUTH ENTRANCE



ENGINEERING DRIVE



CAMPUS DRIVE



CAMPUS DRIVE



GATEWAY





SOUTH WING

SOUTH ELEVATION

(FOR REFERENCE)



EAST ELEVATION

(FOR REFERENCE)



NORTH ELEVATION

(FOR REFERENCE)



WEST ELEVATION

(FOR REFERENCE)

